

# **FLORA NEOMEXICANA**

## **I : ANNOTATED CHECKLIST**

An Introduction to the Vascular Plants of New Mexico,  
with Synonymy and Bibliography

Third Edition

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Cover: *Gilia lyndana* Allred

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# PART I: INTRODUCTION

## OVERVIEW

**THE STATE OF NEW MEXICO** covers a land area of 121,412 square miles (314,433 square kilometers), and ranks as the 5<sup>th</sup> largest state in the United States. Nearly square, it is 342 miles wide and 370 miles long (550 km × 595 km), and is about the same size as Poland and about half the size of France. Lying roughly between latitudes of 31°–37°N and longitudes of 103°–109°W, the Land of Enchantment sits on the southern border of the United States with Mexico, and is surrounded by the states of Chihuahua (Mexico) and Arizona, Utah, Colorado, Oklahoma, and Texas (United States). From these surrounding states come the Rocky Mountains, the Great Plains, the Chihuahuan Desert, the Mogollon Mountains, and the Colorado Plateau. All the major land biomes of the world are found within the state, except arctic tundra and tropical rainforest. The highest point in the state is Wheeler Peak in Taos County (13,161 feet; 4,011 meters) and the lowest is Red Bluff Reservoir in Eddy County (2,817 feet, 859 meters). Within the state one finds canyons, valleys, floodplains, badlands, mesas and buttes, bajadas, eroded escarpments, volcanic calderas, necks, lava fields, ash flows, hogbacks, dikes, cuernas, sand dunes, bolsons, playas, alkali flats, Pleistocene lakebeds, karst sinkholes, and glaciated landforms. Temperature extremes have ranged from –50°F to +116°F throughout the state, and a swing of 25–30°F in 24 hours at one place is not uncommon. Average annual precipitation varies from less than 8 inches (200 mm) in the southern deserts to greater than 30 inches (760 mm) on the northern alpine peaks. All of these factors yield a flora rich and diverse: thrilling to live among, splendid to study, and beautiful to behold!



## THE NATURAL SETTING

### CLIMATE

[From a narrative written by the State Climatologist and published by the National Climatic Data Center. Available online at [www.wrcc.dri.edu/narratives/NEWMEXICO.htm](http://www.wrcc.dri.edu/narratives/NEWMEXICO.htm)]

The topography of New Mexico consists mainly of high plateaus or mesas, with numerous mountain ranges, canyons, valleys, and normally dry arroyos. Average elevation is about 4,700 feet above sea level. The principal sources of moisture for the scant rains and snows that fall on the State are the Pacific Ocean, 500 miles to the west, and the Gulf of Mexico, 500 miles to the southeast. New Mexico has a mild, arid or semiarid, continental climate characterized by light precipitation totals, abundant sunshine, low relative humidity, and a relatively large annual and diurnal temperature range. The highest mountains have climate characteristics common to the Rocky Mountains.

**Temperature.** Mean annual temperatures range from 64°F in the extreme southeast to 40°F or lower in high mountains and valleys of the north; elevation is a greater factor in determining the temperature of any specific locality than its latitude. This is shown by only a 3°F difference in mean temperature between stations at similar elevations, one in the extreme northeast and the other in the extreme southwest; however, at two stations only 15 miles apart, but differing in elevation by 4,700 feet, the mean annual temperature are 61° and 45°F – a difference of 16°F or a little more than 3° decrease in temperature for each 1,000-foot increase in elevation.

During the summer months, individual daytime temperatures quite often exceed 100°F at elevations below 5,000 feet; but the average monthly maximum temperatures during July, the warmest month, range from slightly above 90°F at lower elevations to the upper 70s at high elevations.

Warmest days quite often occur in June before the thunderstorm season sets in; during July and August, afternoon convective storms tend to decrease solar insolation, lowering temperatures before they reach their potential daily high. The highest temperatures of record in New Mexico are 116° at Orogrande on July 14, 1934, and at Artesia on June 29, 1918. A preponderance of clear skies and low relative humidity permit rapid cooling by radiation from the earth after sundown; consequently, nights are usually comfortable in summer. The average range between daily high and low temperatures is from 25° to 35°F.

In January, the coldest month, average daytime temperatures range from the middle 50s in the southern and central valleys to the middle 30s in the higher elevations of the north. Minimum temperatures below freezing are common in all sections of the State during the winter, but subzero temperatures are rare except in the mountains. The lowest temperature recorded at regular observing stations in the State was –50°F at Gavilan on February 1, 1951. An unofficial low temperature of –57°F at Ciniza on January 13, 1963, was widely reported by the press.

The freeze-free season ranges from more than 200 days in the southern valleys to less than 80 days in the northern mountains where some high mountain valleys have freeze in summer months.

**Precipitation.** Average annual precipitation ranges from less than 10 inches over much of the southern desert and the Rio Grande and San Juan Valleys to more than 20 inches at higher elevations in the State. A wide variation in annual

totals is characteristic of arid and semiarid climates as illustrated by annual extremes of 2.95 and 33.94 inches at Carlsbad during a period of more than 71 years.

Summer rains fall almost entirely during brief, but frequently intense thunderstorms. The general southeasterly circulation from the Gulf of Mexico brings moisture for these storms into the State, and strong surface heating combined with orographic lifting as the air moves over higher terrain causes air currents and condensations. July and August are the rainiest months over most of the State, with from 30 to 40 percent of the year's total moisture falling at that time. The San Juan Valley area is least affected by this summer circulation, receiving about 25 percent of its annual rainfall during July and August. During the warmest 6 months of the year, May through October, total precipitation averages from 60 percent of the annual total in the Northwestern Plateau to 80 percent of the annual total in the eastern plains.

Winter precipitation is caused mainly by frontal activity associated with the general movement of Pacific Ocean storms across the country from west to east. As these storms move inland, much of the moisture is precipitated over the coastal and inland mountain ranges of California, Nevada, Arizona, and Utah. Much of the remaining moisture falls on the western slope of the Continental Divide and over northern and high central mountain ranges. Winter is the driest season in New Mexico except for the portion west of the Continental Divide. This dryness is most noticeable in the Central Valley and on eastern slopes of the mountains.

Much of the winter precipitation falls as snow in the mountain areas, but it may occur as either rain or snow in the valleys. Average annual snowfall ranges from about 3 inches at the Southern Desert and Southeastern Plains stations to well over 100 inches at Northern Mountain stations. It may exceed 300 inches in the highest mountains of the north.

**Sunshine.** Plentiful sunshine occurs in New Mexico, with from 75 to 80 percent of the possible sunshine being received. In winter, this is particularly noticeable with from 70 to 75 percent of the possible sunshine being received. It is not uncommon for as much as 90 percent of the possible sunshine to occur in November and in some of the spring months. The average number of hours of annual sunshine ranges from near 3,700 in the southwest to 2,800 in the north-central portions.

**Relative Humidity.** Average relative humidities are lower in the valleys but higher in the mountains because of the lower mountain temperatures. Relative humidity ranges from an average of near 65 percent about sunrise to near 30 percent in mid-afternoon; however, afternoon humidities in warmer months are often less than 20 percent and occasionally may go as low as 4 percent. The low relative humidities during periods of extreme temperatures ease the effect of summer and winter temperatures.

**Wind.** Wind speeds over the State are usually moderate, although relatively strong winds often accompany occasional frontal activity during late winter and spring months and sometimes occur just in advance of thunderstorms. Frontal winds may exceed 30 mph for several hours and reach peak speeds of more than 50 mph. Spring is the windy season. Blowing dust and serious soil erosion of unprotected fields may be a problem during dry spells. Winds are generally stronger in the eastern plains than in other parts of the State. Winds generally predominate from the southeast in summer and from the west in winter, but local



surface wind directions will vary greatly because of local topography and mountain and valley breezes.

**Evaporation.** Potential evaporation in New Mexico is much greater than average annual precipitation. Evaporation from a Class A pan ranges from near 56 inches in the north-central mountains to more than 110 inches in southeastern valleys. During the warm months, May through October, evaporation ranges from near 41 inches in the north-central to 73 inches in the southeast portions of the State.

**Drought.** Periods of recent extreme meteorological drought, as defined by Palmer Drought Index of  $-4.0$  or lower, have been noted in the mid-1930s in the Northeastern Plains and Central Highlands, in 1947 in the Central Highlands, in the 1950s throughout the State, in 1963–64 in the Northern Mountains, in 1964 in the Southeastern Plains, and in 1967 in the Northern Mountains. The largest general drought since 1930 was in the 1950s.

### **GEOLOGIC HISTORY**

[Adapted from Budge, T.K. 1979. *Geologic Structure*, p. 2. IN: Williams, J.I. & P.E. McAllister (eds.). *New Mexico in Maps*. Technology Application Center, A Division of the Institute for Applied Research Services, Univ. New Mexico]

As with all the western states, the geology of New Mexico is complex and diverse, and includes rocks from the Cambrian to the Quaternary, with sediments exposed somewhere in the state representing all the periods between. The oldest rocks, from Precambrian exposures in mountains along the eastern flanks of the Rio Grande, are more than 1.5 billion years old, and the youngest rocks derive from volcanic eruptions less than 1,500 years ago.

**Paleozoic Era.** The earliest known fossils in Mexico occur in Cambrian deposits in the San Andres Mountains of Doña Ana County. Warm, shallow seas covered much of New Mexico during the Ordovician, and invertebrate life forms proliferated; most of these deposits have been lost by erosion, however. The Silurian and Devonian periods

were moist and muddy and were times of heavy erosion. The first land plants occurred during the Devonian. Marine deposition continued through the Mississippian, when thick fossilized limestone beds were deposited. Erosion of these limestone beds left a karst topography with caves and sinkholes. At the beginning of the Pennsylvanian, massive uplifts created the giant Uncompahgre Mountains north of present-day Albuquerque, which shed large amounts of erosional debris into the surrounding seas. These deposits became the source of our rich oil and gas resources in the Four Corners and southeast regions. The Permian, at the end of the Paleozoic, saw the creation of the Capitan and Goat Seep Reefs, leading to present-day Carlsbad Caverns and the rich potash mining industry in the southeastern region.

**Mesozoic Era.** At the emergence of the Mesozoic, the seas had receded and much of New Mexico was dry land, with rivers spreading erosional material across the terrain. Dinosaurs dominated the landscape, reaching their peak during the Jurassic. By the end of the Mesozoic, the seas had returned and New Mexico was the western coastline of a vast epicontinental sea that covered most of central North America. Lush vegetation existed in what is now the Four Corners area, and the rich coal-bearing Fruitland Formation was laid down, which now rims the San Juan Basin. During the Cretaceous, the seas retreated quickly from the state

as the Laramide Uplift gave rise to the Rocky Mountains. The Age of Dinosaurs came to a close and mammals began to flourish.

**Cenozoic Era.** At the beginning of the Tertiary, the Laramide Uplift ground to an end and New Mexico physiography was essentially in place, although the climate and vegetation were different. Swamps covered the northeastern plains, adding to the coal deposits already there. The Rio Grande Rift bisected the state, the uplift giving rise to a line of mountains along the eastern edge of the rift – Sandias, Manzanos, San Andres, and Sacramentos – and the down-faulting producing many valleys—the Rio Grande the most prominent of them. Numerous volcanic explosions and intense activity occurred in the western regions, and the Jemez Caldera, one of the largest calderas in the world, was formed. Mount Taylor was built up over more than a million years of activity, and the McCarty's flow from it is one of the most voluminous and most recent volcanic events in the world, occurring about A.D. 1300. Volcanic activity persisted to nearly the present, and some of the youngest volcanoes, like Capulin Mountain, are nearly intact today. Erosion and deposition continue today, as witnessed by the wind-blown dunes of the White Sands.

**Quaternary Glaciation and Vegetation** [Adapted from Dick-Peddie, W.A. 1993. *New Mexico Vegetation: Past, Present, and Future*. Univ. New Mexico Press]. The Pleistocene Epoch, at the end of the Tertiary Period, was a time of numerous glacial advances (ice ages) and retreats (pluvial, or rainy, periods). This was accompanied by corresponding shifts in temperature and precipitation. As the glaciers advanced (descending southward or to lower elevations), temperatures decreased and precipitation increased. Accordingly, vegetation zones were displaced in a delayed concert with the shifts in climate. For example, it is estimated that vegetation zones were 3000-4000 feet lower in elevation than where they are found today. During the Pleistocene, most of the state was covered by elements of montane coniferous forest, such as Douglas fir, southwestern white pine, white fir, or piñon. The Llano Estacado, an area now found in grassland, formerly supported coniferous woodlands.

The highest mountains in New Mexico were repeatedly glaciated during the Pleistocene, as evidenced by familiar landforms, such as cirques, horns, arêtes, and moraines. These can be seen in the Sangre de Cristo, Latir, Taos, Truchas Peak, Santa Fe, Mount Taylor, and Sierra Blanca ranges. The small cirques on Sierra Blanca (Sacramento Mountains) represent the southernmost glaciation in the conterminous United States.

About 18,000 years ago, grassland and desert vegetation were generally absent from the state. Then began a series of climate changes that were to alter dramatically our flora. Warmer and drier periods were followed by a distinct reduction in winter precipitation. A series of warming-cooling-warming cycles continued to nearly the present, the most prominent of which is sometimes known as the "Little Ice Age" at about A.D. 1600, with a continuous trend to a warmer and drier climate since that time. At one site in southern New Mexico, evidence from pack-rat middens document the change from piñon-juniper woodland (17,000 years ago), to juniper-oak woodland (10,000 years ago), to grassland (6000 years ago), and finally to desert scrub (4000 years ago).

## SOILS

The soil orders in New Mexico include Alfisols, Aridisols, Entisols, Inceptisols, and Mollisols. Lava malpais and gypsum dunes are other soil materials of interest.

**Alfisols** have a yellowish or ochre-colored surface underlain by a moderately clay rich subsoil. They tend to have a high base saturation and high water holding capacity during the growing season, so they are heavily used in agriculture, but not without compaction difficulties. They are widely distributed around the state in plains, tablelands, and mountains.

**Aridisols** are extensive throughout the state, and occupy areas that receive too little precipitation for dryland agriculture. If irrigated, however, many Aridisols are agriculturally productive unless too salty. They generally lack adequate moisture for mesophytic plant growth for long periods. Surface horizons are normally light in color, low in organic matter, and have a soft consistency when dry. Non-irrigated vegetation is mostly of xerophytic grasses and shrubs. Often, the soil surface is bare and consists of a gravelly, desert pavement that is underlain by subsurface horizons that contain calcium carbonate (caliche).

**Entisols** have little horizon development, either because they are too young or the layers have been eroded away. They support plant growth, but do not display the same degree of biological, chemical, or physical weathering as in the other soil orders. They are young soils associated with erosion or sediments recently deposited by wind or water and are not restricted to any climatic or vegetational zone. This order is particularly common in the northwestern quadrant and along stream floodplains across the state.

**Inceptisols** include soils more developed than Entisols but less developed than the other soil orders. They do not occur in arid environments, which are occupied by Aridisols and some Entisols, but are common on steep slopes in the forested mountains of the state where the slow movement of soil downslope curtails horizon development. Their unique properties include having water available for plant growth for more than three months.

**Mollisols** are soils with thick, dark topsoil that generally formed under grasslands. They are also very common in the mountains in New Mexico where grasses make up a substantial amount of the understory. These are fertile soils with high water-holding capacities.

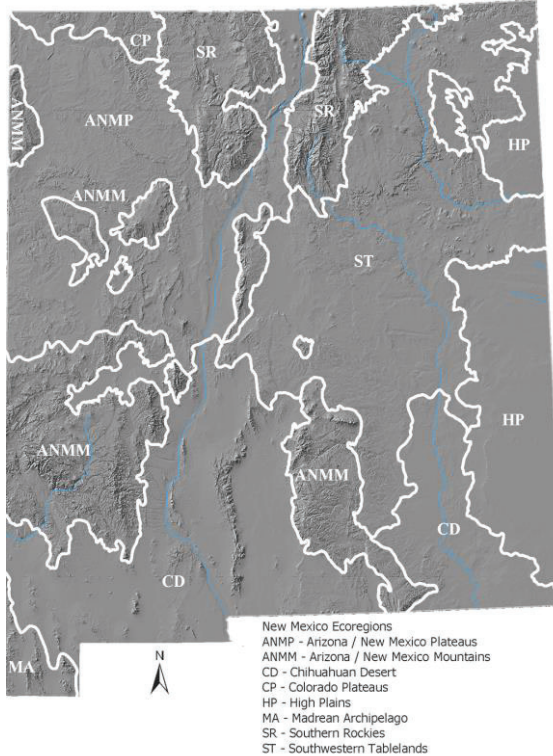
**Lava malpais** are conspicuous around Mount Taylor, in the northern Tularosa Basin near Carrizozo, and around Aden Crater south of Las Cruces. The lava substrate has the ability in places to trap and retain moisture in joints and fractures. where soil has accumulated, allowing for a more mesophytic vegetation than the surrounding terrain, even though the lava surface may be exceptionally hot.

**Gypsum** dunes provide the spectacular scenery at White Sands National Monument, west of Alamogordo. Because of the water-holding capacity of the sand, the dune areas are more mesic than the surrounding areas, and support such plants as Rio Grande cottonwood, yucca, skunkbush sumac, and fourwing saltbush.

## ECOREGIONS OF NEW MEXICO

[Adapted from Griffith et al. 2006. Ecoregions of New Mexico (color poster with map, descriptive text, summary tables, and photographs). Available online at [http://www.epa.gov/wed/gages/ecoregions/nm\\_eco.htm](http://www.epa.gov/wed/gages/ecoregions/nm_eco.htm)].

New Mexico may be divided into seven ecoregions, which describe the interacting patterns of the biota, geology, physiography, soils, land use, hydrology, and climate of the state (Griffith et al. 2006). These ecoregions are an ideal setting in which to describe the vascular flora of New Mexico, but one must keep in mind that they are not vegetation classifications or plant community descriptions *per se*. In some cases, ecoregions have been combined and labels have been altered for ease of discussion regarding New Mexico regions.



**Colorado Plateau.** Rugged tableland topography is typical of the Colorado Plateau ecoregion, in New Mexico found mostly north of the San Juan River. Canyons, mesas, and plateaus expose a long geologic history of rock formations. Precipitous side-walls mark abrupt changes in local relief, often of 1000 to 2000 feet or more. The region contains abundant woodlands of piñon-juniper and Gambel’s oak. However, the region also has large low-lying areas containing saltbush-greasewood communities, sparsely vegetated with mat saltbush, fourwing saltbush, greasewood, and shadscale, and a variety of native grasses, such as alkali sacaton, galleta grass, poverty threeawn, sand dropseed, and Indian ricegrass. This ecoregion is set apart from the larger Arizona/New Mexico Plateau to the south.

**Southern Rockies.** The Southern Rockies are composed of high elevation, steep, rugged mountains, and are found in the north-central part of the state. Although coniferous forests cover much of the region, as in most of the mountainous regions in the western United States, vegetation, as well as soil and land use, follows a pattern of elevational banding. Variation in substrate (sedimentary, volcanic, metamorphic) give rise to subtle differences in ecology and

vegetation. The lowest elevations are generally grass- or shrub-covered and heavily grazed. Low to middle elevations are also grazed and covered by a variety of vegetation types including juniper-oak woodlands, ponderosa pine, aspen, and Douglas-fir. Middle to high elevations are largely covered by coniferous forests and have little grazing activity. The highest elevations have alpine characteristics. Numerous perennial mountain streams with deciduous riparian vegetation support coldwater fisheries and serve as wildlife corridors.

*Alpine Zone.* The Alpine Zone occurs on mountain tops above treeline, beginning at about 11,000 to 11,500 feet in New Mexico. It includes alpine meadows as well as steep, exposed rock, talus, and glaciated peaks. Annual precipitation ranges from 25 to greater than 50 inches, falling mostly as snow. Vegetation includes low shrubs, cushion plants, and wildflowers and sedges in wet meadows. The forest-tundra interface is sparsely colonized by a stunted, deformed krummholz vegetation of Englemann spruce, cork-bark fir, and sometimes bristlecone pine and snow willow. This ecoregion is snow-free only 8 to 10 weeks annually. Snow cover is a major source of water for lower, drier ecoregions.

*Subalpine Forests.* The Subalpine Forests ecoregion occurs just below the Alpine Zone, generally at elevations of 9,000-11,500 feet. Stream water quality, water availability, and aquatic biota are affected in places by carbonate substrates that are soluble and nutrient rich. Some streams support the endemic Rio Grande cutthroat trout. Soils from sedimentary parent material are generally finer-textured than those found on crystalline or metamorphic substrates. Subalpine forests dominated by Engelmann spruce and cork-bark fir are typical, often interspersed with aspen groves or mountain meadows. Some Douglas-fir forests are at lower elevations. Forest blowdown, insect outbreaks, fire, and avalanches affect the vegetation mosaic.

*Mid-Elevation Forests.* The Mid-Elevation Forests are found mostly in the 7,500 to 10,000 feet elevation range. Natural vegetation includes ponderosa pine, aspen, Douglas-fir, limber pine, and Gambel's oak. A diverse understory of shrubs, grasses, and wildflowers occurs. This variety of food sources supports a diversity of bird and mammal species, and abundant aquatic insects support a reproducing trout fishery. Forest stands have become denser in many areas due to decades of fire suppression. Land use includes wildlife habitat, livestock grazing, logging, mining, and recreation.

*Foothill Woodlands and Shrublands.* The Foothill Woodlands and Shrublands ecoregion is the low elevation portion of the Southern Rockies, and extends from southern Wyoming through Colorado and into New Mexico. In New Mexico, it is a transition area from the higher elevation forests to drier and lower plains and plateaus. Within the region, some flora and fauna species on the east side (Great Plains influence) may differ from those found to the west (Great Basin influence). This semiarid region has rolling to irregular terrain of hills, ridges, and footslopes, with elevations mostly 6,000 to 8,500 feet, and a variety of rock and soil types. In New Mexico, piñon-juniper and oak woodlands are dominant.

*Grassland Parks.* The Grassland Parks ecoregion consists of high intermontane valleys with sufficient water availability to support grasslands and wet meadows. In New Mexico, the ecoregion is found in the Valle Grande/Valle San Antonio area in the Jemez Mountains, in the Moreno Valley and Costilla-Comanche-Valle Vidal areas in the Sangre de Cristo Mountains, and on top of Johnson Mesa near Raton. Bunchgrasses are dominant, and include Parry's oatgrass, Arizona fescue, Idaho fescue, Thurber fescue, mountain muhly,

bluebunch wheatgrass, needle-and-thread, Junegrass, and slender wheatgrass. There are only a few trees or shrubs, and if present, they are widely scattered and mature. Some springs and wetlands occur. Large elk herds are found in the valley parklands

**Arizona/New Mexico Plateau.** The Arizona/New Mexico Plateau represents a large transitional region between the drier shrublands and wooded higher relief tablelands of the Colorado Plateau in the north and forested mountain ecoregions that border the region on the northeast and south. Local relief in the region varies from a few feet on plains and mesa tops to well over 1,000 feet along tableland side slopes. The Continental Divide splits the region, but is not a prominent topographic feature. The region extends across northern Arizona, northwestern New Mexico, and into Colorado in the San Luis Valley. Gunnison prairie dogs are a keystone species in many of the sagebrush ecosystems and their burrows provide habitat for other wildlife, including burrowing owls, weasels, badgers, and a variety of snakes.

*Taos Plateau.* The Taos Plateau is a region of mostly Pliocene basaltic lavas with distinct cones of Pliocene composite volcanoes. This region has higher elevation volcanic cones than the San Luis Hills in Colorado; several cones are over 9000 feet and Ute Mountain is higher than 10,000 feet. The plateau surface has only minor dissection, but the Rio Grande is confined to a deep canyon or gorge, 800 to 1,000 feet deep in places. The ecoregion extends south to include the basalt-capped Black Mesa. Big sagebrush and rabbitbrush species are common.

*Rio Grande Floodplain.* Once containing a perennially flowing, meandering, braided river, the Rio Grande Floodplain ecoregion has undergone many human alterations to its landscape and hydrology over the past 400 years. The once-shifting Rio Grande had mosaics of riparian woodlands and shrublands along with a variety of wetland meadows, ponds, and marshes. The gallery forest, or bosque, of cottonwood and willow with understories of coyote willow, New Mexico olive, false indigo, and seepwillow depended on this dynamic system. A long history of irrigation and drainage canals, levees and jetty jacks, and upstream dams have altered river flows and narrowed and straightened the stream channel. Conversion to cropland, orchards, small rural farms and ranchos, and urban and suburban uses have also altered the region. Cottonwood and willow, dependent on spring flooding, have been widely replaced by invasive saltcedar and Russian olive.

*Plains, Mesas, and Tablelands.* Covering most of the northwestern quadrant of the state, the Plains, Mesas, and Tablelands ecoregion contains a mix of desert scrub, grassland, and piñon-juniper communities dispersed among a varied topography of mesas, valleys, plateaus, and canyons. Northwestern portions in the San Juan and Chaco drainages are characterized by shadscale, fourwing saltbush, Mormon tea, Indian ricegrass, galleta, and blue grama. It is more arid, has generally lower elevations, and less piñon-juniper than the tablelands to the south or east. Southern portions contain plains of high relief, with common exposures of bedrock and Quaternary volcanic fields. Saltbush species, alkali sacaton, sand dropseed, and mixed grama grasses are common.

*Lava Malpais.* Part of the much larger Zuni-Bandera volcanic field, the Lava Malpais south of Grants covers some of the younger Holocene volcanic flows with the least soil development. The youngest flow, called the McCarty's flow, dates from about 3000 years ago. Different types of lava flows are found here, as well as lava tubes and ice caves. Some unique flora and fauna not found in

surrounding areas occur here, and some species that are more widespread have made adaptations to survive in the specialized habitats here. The lava substrate has the ability in places to trap and retain moisture, allowing for a more mesophytic vegetation, such as stunted Douglas-fir and ponderosa pine, to occur in some areas. The region is an important area for understanding recent ecological successions, as well as longer term climatic changes.

*Plains of San Agustin.* The Plains of San Agustin are mostly a topographically closed basin, with some alluvial fans and piedmont slopes near the surrounding southwestern mountains. Beach and lacustrine deposits mark various stages of Pleistocene Lake San Agustin. Clay to fine-grained sand lake bed sediments, linear beach-ridge sand deposits, and some sand sheets and dune sand deposits occur. The sandy areas are mostly stabilized by grasses and low shrubs. Vegetation of alkali sacaton, fourwing saltbush, and greasewood is found in the low areas. Some western wheatgrass, vine-mesquite, areas of blue grama and sand dropseed occur. Higher elevation slopes have some piñon-juniper savanna with an understory of blue grama, dropseeds, Indian ricegrass, and bottlebrush squirreltail grasses. Livestock grazing is the predominant land use.

*Albuquerque Basin.* Part of one of the deeper physiographic basins of the Rio Grande rift, the Albuquerque Basin ecoregion is lower in elevation, drier, and warmer than surrounding ecoregions to the north, east, and west. The basin is filled with thick sediments of mostly Quaternary and some Tertiary age, with a few areas of volcanic rocks and lava-capped mesas. Extending from the La Bajada Escarpment on the north to near Socorro in the south, the region contains some diverse features and transitional characteristics. Unlike most of the Arizona/New Mexico Plateau ecoregion, which has mesic soils, this ecoregion has a largely thermic soil temperature regime. There is a mix of sand scrub and desert grassland vegetation. Native vegetation includes black grama, sand dropseed, mesa dropseed, blue grama, galleta, sand sage, alkali sacaton, threeawns, and scattered yucca. Juniper occurs primarily in the north. Urban and suburban land uses are spreading. The Santa Fe Group aquifer, the drinking water source for Albuquerque and most of the Middle Rio Grande Valley, has seen some groundwater declines in recent years, along with increases in contaminants.

**Arizona/New Mexico Mountains.** The Arizona/New Mexico Mountains are distinguished from neighboring mountainous ecoregions by their lower elevations and associated vegetation indicative of drier, warmer environments, due in part to the region's more southerly location. Forests of spruce, fir, and Douglas-fir, common in the Southern Rockies ecoregion to the north, are only found in limited areas at the highest elevations in this region. Chaparral is common at lower elevations in some areas, piñon-juniper and oak woodlands are found at lower and middle elevations, and the higher elevations are mostly covered with open to dense ponderosa pine forests. These mountains are the northern extent of some Mexican plant and animal species. Surrounded by deserts or grasslands, these mountains in New Mexico can be considered biogeographical islands.

*Woodlands and Savannas.* The Woodlands and Savannas ecoregion covers the lower slopes of the Arizona/New Mexico Mountains, generally between 5500 to 7200 feet, with densities of juniper, piñon, and oak varying according to aspect. At middle elevations, dense thickets of shrubs such as desert ceanothus and mountain mahogany form chaparral communities. Other areas are grassy and park-like with scattered trees. A few small areas of ponderosa pine, Douglas-fir, or southwestern white pine occur at the highest elevations. In the west, the Gila

River and tributaries have many endemic aquatic organisms including fish, amphibians, and insects. There are some species differences among the communities of the Guadalupe and Sacramento mountains and those more typical of the Gila region.

*Montane Conifer Forests.* The Montane Conifer Forests are found at elevations from about 7000 to 9600 feet. Ponderosa pine and Gambel's oak are common, along with mountain mahogany, serviceberry, and often a dense understory. Douglas-fir, southwestern white pine, and white fir occur in a few areas. Blue spruce may occasionally be found in cool, moist canyons. The influence of the Sierra Madre flora is seen mostly in the southern mountains and diminishes to the north. In the far south, other oaks appear, such as silverleaf oak, netleaf oak, Arizona white oak, and Emory oak. The summer rains are especially important for herbaceous plants. Current forests have been shaped by fire and fire suppression. The region is geologically diverse with volcanic, sedimentary, and some intrusive and crystalline rocks. Endemic Gila trout occur in some of the region's streams. Livestock grazing, logging, and recreation are the primary land uses. Wildfire is an important feature influencing the forested ecosystems in this region.

*Subalpine Forests.* Subalpine Forests occur at the higher elevations, generally above 9500 feet, with peak elevations are mostly above 10,000 feet. Although there are some vegetational differences from mountain range to mountain range within these forests, the major forest trees include Engelmann spruce, corkbark fir, blue spruce, white fir, and aspen. Some Douglas-fir occurs at lower elevations, and there are small inclusions of montane grassland.

**Chihuahuan Deserts.** This desert ecoregion extends from the Madran Archipelago in southeast Arizona to the Edwards Plateau in south-central Texas. It is the northern portion of the southernmost desert in North America that extends more than 500 miles south into Mexico. The physiography is generally a continuation of basin and range ecoregions to the west and north, although the pattern of alternating mountains and valleys is not as pronounced as it is elsewhere. The mountain ranges (sky islands) are a geologic mix of Tertiary volcanic and intrusive granitic rocks, Paleozoic sedimentary layers, and some Precambrian granitic plutonic rocks. Outside the major river drainages, such as the Rio Grande and Pecos River, the landscape is largely internally drained. Vegetative cover is predominantly desert grassland and arid shrubland, except for high elevation islands of oak, juniper, and piñon pine woodland. The extent of desert shrubland is increasing across lowlands and mountain foothills due to gradual desertification caused in part by historical grazing pressure and continuing droughts.

*Chihuahuan Basins and Playas.* The Chihuahuan Basins and Playas include alluvial fans, internally drained basins, and river valleys mostly below 4500 feet. The major Chihuahuan basins formed during Tertiary Basin and Range tectonism when the Earth's crust stretched, and fault-collapse resulted in sediment-filled basins. These low elevation areas are some of the hottest and most arid habitats in the state. The playas and basin floors have saline or alkaline soils and areas of salt flats, dunes, and windblown sand. The typical desert shrubs and grasses, the dominant creosote bush, along with tarbush, fourwing saltbush, acacias, gyp grama, and alkali sacaton, must withstand large seasonal and diurnal ranges in temperature, low available moisture, and a high evapotranspiration rate. Horse chippier and other cacti are common. Bitter Lake near Roswell is a biologically



significant wetland area. It has a high diversity of dragonflies and damselflies, including the continent's largest and smallest dragonfly species.

*Chihuahuan Desert Grasslands.* The Chihuahuan Desert Grasslands occur in areas of fine-textured soils, such as silts and clays, that have a higher water retention capacity than coarse-textured, rocky soil. The grasslands occur in areas of somewhat higher annual precipitation (10 to 15 inches) than the Chihuahuan Basins and Playas, such as elevated basins between mountain ranges, low mountain benches and plateau tops, and north-facing mountain slopes. Grasslands were once more widespread, but heavy grazing in the late 19th and early 20th centuries was unsustainable. Concurrent and subsequent severe drought exacerbated the pressure on the grasslands, and desert and woodland shrubs invaded where the grass cover became fragmented. Grasslands continue to decline due to erosion, drought, and climatic change. Typical grasses are black, blue, and sideoats grama, dropseeds, bush muhly, and tobosa, with scattered creosote bush, yucca, and mesquite. At the interfaces among woodlands, grasslands, and desert shrublands, we find ecotones where grasses and shrubs are common and intermixed.

*Low Mountains and Bajadas.* The Low Mountains and Bajadas include several disjunct hilly areas that have a mixed geology. The mountainous terrain has shallow soil, exposed bedrock, and coarse rocky substrates. Alluvial fans of rubble, sand, and gravel build at the base of the mountains and often coalesce to form bajadas. Vegetation includes mostly desert shrubs, such as sotol, lechuguilla, yucca, ocotillo, lotebush, tarbush, and pricklypear, with a sparse intervening cover of black grama and other grasses. At higher elevations, there may be scattered one-seeded juniper and piñon pine. Strips of gray oak, velvet ash, and little walnut etch the patterns of intermittent and ephemeral drainages, and oaks may spread up north-facing slopes from the riparian zones. The varied habitats provide cover for mule deer, bobcat, javelina, and Montezuma quail.

*Chihuahuan Montane Woodlands.* The Chihuahuan Montane Woodlands ecoregion comprises the higher elevation mountainous areas in the Chihuahuan Desert region, generally above 5,000 or 6,000 feet. These include the Organ, Florida, San Andres, and Oscura mountains in New Mexico. Increased precipitation in the mountains supports woodland areas except on sunny, exposed slopes that may have grass and chaparral only. Oaks, junipers, and piñon pine predominate on all these mountain ranges. At lower elevations they occur in canyons and shaded hollows, and with increasing elevation and moisture levels, form more dense woodlands. Coniferous forests are limited in extent; some ponderosa pine, southwestern white pine, and relict Douglas-fir grow at the highest elevations in a few areas. In these higher ranges, trees sometimes grow with a grassy understory, or with a brush cover of bigtooth maple, madrone, little walnut, oak chaparral, and grapevines. The higher mountainous areas are a major refuge for larger ungulates, such as mule deer and desert bighorn sheep.

*Rio Grande Floodplain.* The Chihuahuan Desert portion of the Rio Grande Floodplain is similar to the floodplain upstream that is part of the Arizona/New Mexico Plateau ecoregion. Hydrology has been altered by upstream impoundments, by Elephant Butte and Caballo reservoirs, and by channelization in this region. Annual flooding of terraces and benches has been eliminated. Riparian woodlands and shrublands have been greatly reduced and invasive salt cedar has expanded. Narrow bands of cropland, orchards, vineyards, and small farms occur in portions of the desert floodplain. The southern Rio Grande valley

in New Mexico is still an important wintering area for sandhill cranes, snow geese, and other migratory waterfowl. Urban land uses are spreading in the Las Cruces and El Paso areas. Drought, aquifer depletion, and agricultural irrigation create water supply concerns in Texas and Mexico.

*White Sands.* The gypsiferous dunes comprising the White Sands ecoregion west of Alamogordo is one of the largest dune fields in the United States, and is the world's largest expanse of gypsum sand dunes. The gypsum was dissolved in runoff mostly from the San Andres Mountains, carried into the Tularosa Basin, and then crystallized in playa lake deposits. Fine white grains of gypsum are blown by the winds to form a variety of dune types: dome-shaped, barchan, transverse, and parabolic. Several types of small animals have evolved a white coloration to help camouflage them in the dunes. In many areas, the dunes are mostly barren; interdune flats tend to be more vegetated. Soapstone yucca, sand verbena, Mormon tea, skunkbush sumac, fourwing saltbush, gyp moonpod, gyp grama, alkali sacaton, sandhill muhly, hoary rosemary mint, and a few Rio Grande cottonwoods occur.

*Lava Malpais.* The Lava Malpais region includes three separate areas: the impressively long Carrizozo Lava flow in the northern part of the Tularosa Basin, an area of Quaternary lava in the Jornada del Muerto, and, in the south, the Aden-Afton basalt flow. The Carrizozo lava, one of the younger volcanic features in New Mexico, flowed from a small cinder cone or vent called Little Black Peak, located at the northern end. Pahoehoe lava flows, collapse pits, lava tubes, and other volcanic features are found here. Mixed shrubs and grasses are those of surrounding vegetation, taking advantage of available moisture and warmer ground temperatures created by solar absorption. As in other lava malpais, some species of rodents and reptiles found here have developed abnormally dark coloration, called melanism, for camouflage against the dark lava. Several species of bats occupy some of the intact lava tubes. The Jornada del Muerto field formed where a small central volcano produced multiple lava flows. The topography of the combined vent and surrounding lava flows forms a shield-type volcano profile. Large lava tubes occur south of the central vent. These tubes were mined for bat guano early in the century. Aden Crater on the Aden-Afton field is also a well-preserved small shield volcano.

**High Plains.** Higher and drier than the Central Great Plains to the east, and in contrast to the irregular, mostly grassland or grazing land of the Northwestern Great Plains to the north, much of the High Plains is characterized by smooth to slightly irregular plains with a high percentage of cropland. A mix of grammas and buffalograss is the potential natural vegetation in this region as compared to mostly wheatgrass-needlegrass assemblages to the north, Trans-Pecos shrub savanna to the south, and tallgrass prairie to the east. The ecoregion includes the plains area of the Llano Estacado. Thousands of playa lakes (seasonal depressional wetlands) occur in this area, many serving as recharge areas for the important Ogallala Aquifer. These playa lakes are also essential for waterfowl during their yearly migration along the Central Flyway of North America. Oil and gas production occurs in parts of the region.

*Canadian High Plains.* Lying north of the Canadian River, this varied ecoregion is composed of flat to broken plains, sand hills, and stabilized dunes. Soils are primarily formed from sand, silt, and loam eolian sediments. Winters are more severe than the high plains to the south, and the increased snow accumulation delays summer drought conditions because snowmelt saturates the ground in the

spring. Native grasses include big sandreed, little bluestem, sand dropseed, sand bluestem, sideoats grama, blue grama, buffalograss, switchgrass, Indiangrass, and western wheatgrass. Lesser prairie-chickens use shin oak and sandsage prairie habitats, but are presently imperiled due to agricultural practices as well as intensive grazing. Land use in the New Mexico portion is primarily rangeland, although some areas have irrigated cropland using deep wells. In cultivated areas, corn, winter wheat, and grain sorghum are the principal crops. Many areas that had cropland decades ago have now reverted to rangeland.

*Llano Estacado.* The Llano Estacado (translated as “staked plain”) ecoregion, found south of the Canadian River, is a level, mostly treeless, elevated plain surrounded by escarpments on three sides. Geologically, the Llano Estacado began as an apron of Miocene-Pliocene sediments (Ogallala Formation) eroded from the eastern Rocky Mountains. Several caliche horizons developed in the Ogallala sediments, including a hardened caprock caliche in the uppermost layer. The caprock was eventually covered by Pleistocene wind-borne sand and silt, the Blackwater Draw Formation. The smooth surface of the plain holds seasonal rainfall in numerous playas. The Llano Estacado was once covered with shortgrass prairie, composed of buffalograss, blue and sideoats grama, and little and silver bluestem. Bison were once prominent elements of a prairie ecosystem that no longer functions as an interdependent web of bison, black-tailed prairie dog, black-footed ferret, snake, ferruginous hawk, coyote, swift fox, deer, pronghorn, mountain lion, and gray wolf. About 70-80% of the Llano Estacado in New Mexico is presently tilled for agriculture. Farmers produce cotton, corn, and wheat under dryland agriculture or irrigated with water pumped from the Ogallala Aquifer. The capacity of the Ogallala Aquifer is limited, particularly under drought conditions. Withdrawals from the aquifer usually exceed recharge. Parts of the sand plains and dune fields of the Llano Estacado contain dense arrays of oil fields.

Southern portions of the Llano Estacado are drier than the main portion to the north. The climate there is transitional to the arid Chihuahuan Desert region to the southwest. The caliche layer may be closer to the surface in these southern regions of the Llano Estacado, increasing the general droughty condition of the soil and making tilled agriculture more difficult than elsewhere. The arid conditions are reflected in the land use, which is dominated by livestock grazing. The shortgrass prairie of grama and buffalo grasses is susceptible to overgrazing, and a broken grass cover allows the invasion of shrubs such as mesquite and lotebush. Oil and gas production activities are widespread.

Within the Llano Estacado are broad bands of vegetation characterized by shin oak, mostly north of Portales and along the Mescalero Escarpment east of Roswell and extending to the southeast corner of the state. This *Shinnery Sands* region includes sand hills and dunes as well as flat sandy recharge areas. These sand beds lie at the western edge of the High Plains where rising winds drop heavier sand grains and carry finer material further east onto the flat expanse of the Llano Estacado. Havard (shin) oak brush stabilizes sandy areas subject to wind erosion. Although the shin oak rarely grows higher than 4 feet, its extensive root system can reach over 50 feet through dune sand to reach water. The largest area of sand dunes, at the southwestern edge of the Llano Estacado, is composed of sands blown out of the Pecos River Basin against the Mescalero Escarpment of the Llano Estacado by prevailing southwesterly winds. These dunes serve as a major recharge area for the Pecos River. While sandsage and prairie grasses may create a continuous plant cover in portions of the Shinnery Sands, the vegetative

cover is vulnerable to overgrazing and subsequent wind blowouts which may begin a cycle of dune formation. In dune areas, anchoring shrubs such as Havard shin oak, fourwing saltbush, and yucca stabilize the dune sand for herbaceous grasses and forbs such as sand verbenas, sunflowers, fringed sagewort, and hoary rosemary-mint. Ephemeral ponds and swales between the dunes support rushes, sedges, and sandbar willow. The Shinnery Sands are habitat for the lesser prairie-chicken and sand-dune lizard, two species that are in serious decline. The shrubs offer cover and shade for nesting prairie-chickens, and shin oak acorns are a staple food source.

**Southwestern Tablelands.** The Southwestern Tablelands flank the High Plains on the east, the Chihuahuan Deserts on the south, and the Southern Rockies or the Arizona/New Mexico Mountains on west. The eastern boundary represents a transition from the more extensive cropland within the High Plains to the generally more rugged and less arable land within the Southwestern Tablelands ecoregion. The natural vegetation in this region is mostly blue grama-buffalograss, but extensive stands of juniper-scrub or oak-grass savanna occur. False buffalograss occurs on degraded or highly disturbed areas. Common shrubs are one-seed juniper, sand sagebrush, skunkbush sumac, and yucca. Typical grasses include blue grama, buffalograss, sideoats grama, little bluestem, western wheatgrass, galleta, and alkali sacaton. Prairie fires were likely important in maintaining the grasslands and suppressing encroachment of shrub and woody species. Pronghorn antelope is the most common large native mammal of the region. Areas of Triassic mudstones and shales develop unproductive badlands, and plant growth is sparse. Interesting basalt-capped mesas occur in the northeast corner of the state near Black Mesa. Piñon-juniper woodlands and savannas are particularly well-developed on thin soils weathered from limestone, sandstone, and shale. Southern reaches of the tablelands intergrade with the Chihuahuan Deserts ecoregion, with a corresponding mix of grasses and shrubs.

*Pluvial Lake Basins.* The Pluvial Lake Basins ecoregion includes the Estancia, Pinos Wells, and Encino lake basins near the center of the state. Permanent lakes occupied several large closed basins in New Mexico during the last ice age. Today, annual evaporation is greater than the inflow to the basins from rainfall, runoff, and groundwater discharge. Annual precipitation is only 12 to 13 inches. Natural vegetation includes fourwing saltbush and alkali sacaton. The region was an historical trade route for salt between Rio Grande pueblos and Plains tribes. Some agriculture and cropland occurs today in the Estancia basin, irrigated by groundwater.

**Madrean Archipelago.** The Madrean Archipelago ecoregion is present in the bootheel of Hidalgo County, and is characterized by basins and ranges with medium to high local relief, typically 3000 to 5000 feet. Basins, valley plains, alluvial fans, and low hills are generally similar to the surrounding Chihuahuan Desert, but with greater precipitation, and is populated by sideoats grama, black grama, cane beardgrass, plains lovegrass, blue grama, hairy grama, sand dropseed, vine mesquite, curly mesquite, long-leaf ephedra, mimosa, yucca, ocotillo, cacti, and agave. Encroachment of honey mesquite has been significant in some areas. At intermediate elevations, generally above 5000 feet, woodlands occur, with evergreen oaks (Emory, silverleaf, Toumey, and Arizona), along with scattered piñon, juniper, mesquite, and chaparral species. This is the only occurrence of Mexican piñon pine. Riparian areas of cottonwood, sycamore, and willow are valuable to neotropical birds and other wildlife of the area. Above 7000 feet in the

dry mountains are pine-oak and mixed conifer forests, including ponderosa pine, various oaks, southwestern white pine, Apache pine, and Chihuahuan pine. Some have erroneously thought this region to be aligned with the Sonoran Desert, but that ecoregion lies roughly 100 miles to the west in Arizona (somewhat closer along the Gila River in southeastern Arizona). Floristically, it is intermediate between the Chihuahuan and Sonoran deserts, and has been termed the Apachian Floristic Province, from the word *Apachería* used for this region in Spanish colonial days.

### MAJOR VEGETATION TYPES IN NEW MEXICO

It is helpful to understand a bit about the assemblages of plant species that we find surrounding us as we explore a forest or a desert or a prairie. These groupings of plants occurring together in a particular region or site are termed vegetation types, and are the combined result of biotic events such as plant migration and evolution, abiotic events such as glaciation, flooding, and mountain building, and human activities such as farming, mining, logging, and urban development. Vegetation types differ from ecoregions in that they are based solely on aggregations of plants, but they often show similar patterns to the ecoregions. The possible combinations of plants generally found growing together in various regions of a state as diverse as New Mexico are almost unlimited, yet certain plant assemblages are commonly encountered. An abbreviated outline of the common vegetation types occurring in New Mexico is presented below.

A. RIPARIAN OR WETLAND VEGETATION: Associated with water

1. Plants growing in or on the water.....**Aquatics**
2. Xeric vegetation of intermittent or ephemeral water
  - a. Alkali-sinks and saline playas lacking drainage..... **Playa**
  - b. Washes and arroyos with drainage .....**Dry Wash**
3. Mesic vegetation of perennial streams or permanent still water
  - a. Dominated by cottonwood trees .....**Cottonwood Bosque**
  - b. Dominated by saltcedar .....**Saltcedar Bosque**
  - c. Dominated by other shrubby or herbaceous species
    - i. Mostly shrubs and small trees.....**Riparian Shrub**
    - ii. Mostly herbs or mixed herbs and low shrubs .....**Wetland**

B. TUNDRA: Herbaceous vegetation above tree line, including grasses .....  
.....**Alpine Tundra**

C. GRASSLANDS: Dominated by grasses and some forbs, with few shrubs or trees

1. Small grassy clearings in the mountains surrounded by forest, with brome or muhly common..... **Mountain Meadow**
2. Expansive grasslands at high elevations, usually dominated by fescues .....**Fescue or Subalpine Grassland**
3. Plains and mesas dominated by blue grama .....  
.....**Blue-Grama or Plains Grassland**  
(with significant associations with buffalograss, bluestems, western wheatgrass, and/or galleta)
4. Southern hot desert, with grammas, dropseeds, threeawns, and various other warm-season grasses .....**Chihuahuan Desert Grassland**

- Northwestern cold desert, with Indian ricegrass, galleta, and various cool-season grasses.....**Great Basin Desert Grassland**

**D. PIÑON-JUNIPER WOODLANDS:** Piñon and/or juniper prominent

- Sagebrush common.....**Sagebrush/Piñon-Juniper Woodland**
- Oaks common.....**Oak/Piñon-Juniper Woodland**
- Sagebrush and oaks uncommon or absent, dominated by piñon and juniper .....**Piñon-Juniper Woodland**

**E. FORESTS:** Dominated by large, single-trunked trees

- Almost exclusively ponderosa pine.....**Ponderosa Pine Forest**
- Mostly Douglas fir, white fir, pine, spruce.....**Mixed Conifer Forest**
- Mostly spruce and fir, at high elevations.....**Spruce/Fir or Subalpine Conifer Forest**
- Evergreen oaks common, with various pines or conifers .....**Southwestern Pine/Oak Forest**

**F. SHRUBLANDS:** Dominated by shrubs other than piñon or juniper, with grasses infrequent or scattered

- Northwestern cold desert, with sagebrush, saltbushes, and rabbitbrush .....**Great Basin Desert Shrubland**
- Southern hot desert, with creosote, tarbush, or mesquite .....**Chihuahuan Desert Shrubland**
- Areas of deep sand, almost always with sand sage .....**Sand Sage Shrubland**
- Dry mountain slopes, often with mountain mahogany .....**Mountain Brush**
- Low-elevation playas or flats, with four-wing saltbush or greasewood .....**Saltbush Shrubland**

**G. ECOTONES:** At the interfaces among woodlands, grasslands, and shrublands, with grasses and shrubs both common and intermixed. These are transitional areas between vegetation types. The two most common in New Mexico are listed below:

- Juniper or piñon common, with various grasses.....**Woodland Ecotone**
- Creosote or mesquite common, with various grasses .....**Desert Shrub Ecotone**

**Aquatics.** Aquatic plants are physiologically adapted to complete their life cycles in water or permanently saturated soils. Habitats include lakes, ponds, streambanks, marshes, irrigation canals, and stock tanks. Most of our aquatic plants fall into the following broad (and not necessarily mutually exclusive) categories:

*Free-floating Aquatics.* These plants are entirely dependent upon water for their structural support and may float on or beneath the water surface without rooting in the substrate. Inflorescences may be submerged or floating upon the water. Examples include species of *Azolla*, *Ceratophyllum*, *Lemna*, *Salvinia*, and *Utricularia*.

*Submergent Aquatics.* These are rooted plants that are nonetheless dependent on water for their structural support. The plant body may be completely submerged or submerged two-thirds or more below the water surface, often with foliage floating on the water. Examples include species of *Callitriche*, *Elodea*, *Heteranthera*, *Marsilea*, *Myriophyllum*, *Najas*, *Nymphaea*, *Polygonum amphibium*, *Potamogeton*, *Ranunculus aquatilis*, and *Zannichellia*.

*Emergent Aquatics.* These plants are rooted in the substrate and are not dependent upon the water for structural support. The plant body is emergent from the water two-thirds or more above the water surface. Many of these plants will

also occur in wetland vegetation. Examples include species of *Alisma*, *Beckmannia*, *Berula*, *Carex*, *Cicuta*, *Cladium*, *Cyperus*, *Eleocharis*, *Epilobium ciliatum*, *Equisetum*, species of *Juncus*, *Leersia*, *Lytbrum*, *Paspalum distichum*, *Phragmites*, *Sagittaria*, *Schoenoplectus*, *Triglochin*, *Typha*, *Veronica anagallis-aquatica*, and many others.

**Playa.** Alkali sinks and saline playas have water that stands for long periods of time, preventing the growth of perennial plants because of the accumulation of salts. Vegetation is often arrayed in a zonal pattern, with salt-adapted species toward the center and less adapted species outward. Common shrubs include *Allenrolfea occidentalis*, *Pseudocappia arenaria*, and *Suaeda nigra*. Surrounding the sink will be bands of *Distichlis spicata* or *Kalinia obtusiflora* in the bootheel region, with the forbs *Frankenia jamesii*, *Heliotropium curassivacum*, *Limonium limbatum*, and *Salicornia rubra*. Less saline areas will support *Hymenoxys odorata* and *Sporobolus airoides*. *Tamarix chinensis* is a common invader, sometimes completely replacing the native vegetation.

**Dry Wash.** When ephemeral drainages dissect bajadas and plains, we find washes, arroyos, dry stream beds, gullies, gulches, and the like with plants of a more mesic nature than the surrounding habitats. Water is present only intermittently, and the drainages stand dry much of the time. Typical plants of these habitats include *Ambrosia monogyra*, *Atriplex canescens*, *Brickellia laciniata*, *Celtis reticulata*, *Ericameria nauseosa*, *Fallugia paradoxa*, *Prosopis glandulosa*, *Sarcobatus vermiculatus*, and *Tamarix chinensis*.

**Cottonwood Bosque.** Floodplains along perennial streams, rivers, and lakes are often dominated by species of cottonwood. These sometimes large gallery forests, termed *bosques* in the southwest, have diminished greatly from human influences, such as flood control, logging for construction, and land-clearing for farming, but large bosques can still be found along the Rio Grande and Pecos River. Typical plants of cottonwood bosques include *Juglans*, *Populus*, *Salix gooddingii*, and *Sapindus*.

**Saltcedar Bosque** [Adapted from Allred, K.W. 2002. Identification and taxonomy of *Tamarix* (Tamaricaceae) in New Mexico. *Desert Plants* 18(2): 26-32.]. Species of the genus *Tamarix*, variously known as saltcedar, tamarisk, or tamarix, first came to the American southwest in the mid- to late 1800s as an ornamental, being promoted as such by nurserymen, and later as an erosion-control plant. It had been brought from the Old World to the eastern United States in the early 1800s, being offered for sale in New York City in 1828. From this modest beginning it spread through the United States via the nursery trade, appearing in catalogs in California in 1854 and in the Department of Agriculture Arboretum stock listings in the 1870s. It probably began its escape from cultivation in the 1870s.

Some have concluded that *Tamarix* was introduced to the New World by Spanish explorers, being mentioned by Father Escalante in his journal of explorations near the Colorado-Utah border [Auerbach, H.S. 1943. Father Escalante's Journal, with related documents and maps. *Utah Hist. Quart.* 9:1-142; Weber, W.A. & R.C. Wittmann. 2012. *Colorado Flora*, 4<sup>th</sup> ed. University Press of Colorado, Boulder]. However, it is most likely that the word translated as *tamarisk* by Auerbach, "*taray*," refers to *Salix* or even a legume such as *Prosopis* [Robinson, T.W. 1965. Introduction, spread, and areal extent of saltcedar (*Tamarix*) in the western States. USGS Prof. Paper 491-A, p. A1-A12].

The earliest documented occurrence of *Tamarix* in New Mexico is from 1892, when a specimen of *T. gallica* was gathered from Mesilla. Additional reports of its occurrence followed, the plants undoubtedly planted as ornamentals or for erosion-control. We find saltcedar from Nara Visa in 1911 and from Hope in

1917. *Tamarix chinensis* appears in the herbarium record in 1932, and *T. parviflora* in 1936.

This “wolf in sheep’s clothing” was touted as a desirable ornamental plant for New Mexico: “One of the most satisfactory introduced plants in cultivation in this State is this shrub, which is also known by the name of tamarisk. . . . It will endure large quantities of alkali in the soil, and is exceedingly drought resistant. . . . It is most easily propagated from cuttings, and *when once established it is almost impossible to kill it*. As a plant to be used upon alkaline soils where other plants do poorly or in situations where too little water is available, there is no other plant which is quite so satisfactory” [Wooton, E.O. 1913. Trees and Shrubs of New Mexico. New Mexico Agricultural Experiment Station Bulletin 87, p. 124, *italic added*].

The aggressive spread of *Tamarix* in New Mexico and the southwest is illustrated by its occurrence in the Pecos River valley. A few adventive seedlings were found at Lake McMillan in 1912; by 1915 the shrub covered 600 acres and was expanding up and down the water course. It had stretched to 12,300 acres by 1925, and to 57,000 acres by 1960. It now infests the entire Pecos River valley from its junction at the Rio Grande northward to beyond Santa Rosa. A similar story can be told for nearly every major drainage in New Mexico.

Fully developed stands of saltcedar are essentially monocultures, without significant accessory plant species.

**Riparian Shrub.** This is the most extensive riparian type in the state, mostly occurring in the mountains, lower foothills, and higher elevation tablelands where permanent streams and rivers drain the mountain masses. Dominant plants are the following trees and shrubs: species of *Acer*, *Alnus*, *Betula*, *Cornus*, *Fraxinus*, *Juglans*, *Picea*, *Populus*, and *Salix*.

**Wetland.** Wetlands accompany and intergrade with truly aquatic environments, and many plant species occur in both types of vegetation. Habitats include marshes, sloughs, wet meadows, and floodplains. This vegetation type is restricted to those environments generally without dominant trees and shrubs, comprised mostly of herbaceous forbs and grasses. Typical plants include species of *Alopecurus*, *Anemopsis*, *Berula*, *Carex*, *Flaveria*, *Glyceria*, *Juncus*, *Lythrum*, *Polygonum*, *Schoenoplectus*, *Spartina*, *Typha*, and *Veronica*.

**Alpine Tundra.** Generally above 11,500 feet, at the tops of only a few of our mountains and above timberline, one finds alpine tundra vegetation. No trees or shrubs exist here, only hardy forbs, sedges, and grasses, and an uncommon dwarf willow or two. Typical plants include *Carex rupestris*, *Elymus bakeri*, *Festuca minutiflora*, *Geum rossii*, *Kobresia myosuroides*, *Potentilla sierrae-blancae*, *Salix nivalis*, and *Sibbaldia procumbens*. Rivulets and boggy areas may contain species of *Agrostis*, *Carex*, *Deschampsia*, and *Glyceria*. Descending the slopes, there may be a transition zone of krummholz vegetation: dwarfed, stunted trees shaped by wind, snow, and ice, and mostly composed of *Abies arizonica*, *Picea engelmannii*, *Pinus aristata*, and *Salix arctica*.

**Mountain Meadow.** These are the familiar small meadows at mid-elevations in the mountains, perfect for an afternoon picnic, and often in the midst of aspen glades or clearings among Douglas-fir. Suffering from past heavy grazing, they have often been renovated by the introduction of exotic pasture grasses such as *Bromus inermis*, *Dactylis glomerata*, *Elymus hispidus*, *Eragrostis curvula*, *Phleum pratense*, *Poa pratensis*, and *Schedonorus arundinaceus*. Native grasses include *Eriocoma robusta*, *Muhlenbergia tricholepis*, *Bromus carinatus*, *Bromus ciliatus*, *Elymus trachycaulus*, and



*Koeleria macrantha*. Various species of forbs will abound, mixed with shrubs such as *Holodiscus*, *Ribes*, and *Sambucus*.

**Fescue or Subalpine Grassland.** Expansive slopes at high elevations in our mountains may be covered with a dense grassland, dominated by species of *Festuca* and surrounded by quaking aspen and various conifers such as *Picea*, *Pseudotsuga*, and *Pinus*. These subalpine grasslands are generally found at elevations above 9000 feet and up to 11,500 feet. Common grasses include the fescues *Festuca arizonica*, *Festuca calligera*, *Festuca saximontana*, and *Festuca thurberi*, as well as *Bromus ciliatus*, *Danthonia parryi*, *Deschampsia cespitosa*, *Koeleria macrantha*, *Muhlenbergia montana*, *Poa fendleriana*, and *Poa pratensis*. Important forbs include *Achillea millefolium*, *Allium cernuum*, *Campanula rotundifolia*, *Cerastium arvense*, *Geranium caespitosum*, *Hymenoxys boopesii*, *Packera neomexicana*, *Pteridium aquilinum*, *Taraxacum officinale*, and *Vicia americana*.

**Blue-Grama or Plains Grassland.** This is the largest and most extensive grassland type in New Mexico, occurring in many different habitats and with numerous co-dominants and associated species. Generally dominated by *Bouteloua gracilis*, and to a lesser extent *Bouteloua dactyloides* (*Buchloe dactyloides*), it extends throughout much of the central and eastern plains. At its upper elevations, where it meets mountain foothills, it merges with piñon-juniper woodland; at its lower elevations, generally adjoining the Chihuahuan Desert, it merges with desert grassland or desert shrubland. Common grass associates include *Aristida purpurea*, *Bothriochloa torreyana*, *Bouteloua curtipendula*, *Bouteloua hirsuta*, *Chloris verticillata*, *Muhlenbergia torreyi* and *Munroa squarrosa* (where disturbed), *Pascopyrum smithii* (in the swales and low spots), *Hilaria jamesii*, *Muhlenbergia paniculata*, and *Sporobolus cryptandrus*. Frequent forbs include species of *Astragalus*, *Dalea purpurea*, *Grindelia squarrosa*, *Ipomoea leptophylla*, *Psoralidium tenuiflorum*, *Ratibida columnifera*, *Sphaeralcea coccinea*, and *Zinnia grandiflora*. Associated woody plants include *Artemisia frigida*, *Atriplex canescens*, *Cylindropuntia imbricata*, *Gutierrezia sarothrae*, *Prosopis glandulosa*, and *Yucca glauca*. Because of its vast size and variability, there are noteworthy communities where blue grama is sparse or even absent, but that are included within this broad category. On the sandy sites on the eastern plains, we have prairie pockets of *Schizachyrium scoparium* and *Bouteloua curtipendula*, often with the taller grasses *Andropogon gerardi*, *Panicum virgatum*, and *Sorghastrum nutans* on the more mesic sites.

**Chihuahuan Desert Grassland.** This vegetation type refers to the true, remaining grassland of the Chihuahuan Desert, dominated by *Bouteloua eriopoda* and other warm-season grasses, numerous forbs, but with few or scattered shrubs. Formerly wide-ranging, the Chihuahuan Desert grassland has been reduced dramatically, being over-run by shrubs from the desert shrubland (*Larrea tridentata*, *Prosopis glandulosa*) and piñon-juniper woodland (*Pinus edulis*, *Juniperus*), and much of its area is now occupied by desert shrub or woodland ecotones. The causes of its demise are complex and contentious, but certainly include grazing, drought, the presence of fire, and human disturbance. Noteworthy expanses of Chihuahuan Desert grassland may still be found on the Otero Mesa and environs (Otero County), and on the plains east of Elephant Butte Reservoir (Sierra County). Common grass associates of *Bouteloua eriopoda* include *Aristida purpurea*, *Bothriochloa barbinodis*, *Bouteloua curtipendula*, *Setaria leucopila*, *Sporobolus flexuosus*, and *Sporobolus nealleyi* (on gypsum). Low, poorly drained swales and plains, commonly termed tobose flats, are dominated by *Muhlenbergia arenacea*, *Hilaria mutica*, and *Scleropogon brevifolius*. Common shrubs (though infrequent in the true grassland) include *Acacia*

*constricta*, *Atriplex canescens*, *Ephedra trifurca*, *Flourensia cernua*, *Gutierrezia microcephala*, *Gutierrezia sarothrae*, *Larrea tridentata*, *Lycium pallidum*, *Prosopis glandulosa*, *Rhus microphylla*, and *Yucca elata*. Large, noticeable cacti include *Cylindropuntia imbricata*, *Opuntia phaeacantha*, and *Opuntia engelmannii*.

**Great Basin Desert Grassland.** In the northwestern portion of the state, one finds sparse grasslands with predominately cool-season grasses, especially *Eriocoma hymenoides*, *Bromus tectorum* (a weedy exotic), *Distichlis spicata* in wetlands, *Pascopyrum smithii*, *Hilaria jamesii*, and *Sporobolus airoides* (a warm-season grass). This New Mexico representative of the Great Basin Desert Grassland derives its floristic influences from the intermountain region to the northwest. The grassland intermingles and merges with surrounding woodlands of piñon-juniper. Common shrubs include *Artemisia tridentata*, *Ericameria nauseosa*, *Krascheninnikovia lanata*, and various species of low-lying *Atriplex*, sometimes difficult to tell apart.

**Sagebrush/Piñon-Juniper Woodland.** In the northwestern and north-central portions of the state are assemblages of the common piñon-juniper woodland (*Pinus edulis* and *Juniperus monosperma* or *Juniperus osteosperma*) with *Artemisia tridentata*. *Bromus tectorum* is a common grass associate in the open areas. Depending on the area, either *Pinus* or *Juniperus* may be absent from the community.

**Oak/Piñon-Juniper Woodland.** Nearly throughout the state, or at least in the central and western portions, one finds piñon-juniper woodlands associated with various oak species. In the southwestern regions, the oaks are evergreen, and include such species as *Quercus arizonica*, *Quercus emoryi*, and *Quercus grisea*. Piñon may be represented there by *Pinus cembroides* instead of *Pinus edulis*, and the juniper may be *Juniperus arizonica* or *Juniperus deppeana*, rather than *Juniperus monosperma*. In more northern areas, the oak is commonly *Quercus gambelii*, and *Juniperus scopulorum* may be common, in addition to *Juniperus monosperma*.

**Piñon-Juniper Woodland.** This is the elemental coniferous woodland type in New Mexico, with numerous associates and sub-types. Associations with *Artemisia* and *Quercus* are particularly noticeable, so they are treated above. Piñon will occupy the upper, more moist zones of the vegetation type, with juniper at the lower, more arid, zones, with the species intermingling between. The predominant piñon is *Pinus edulis*, and the predominant juniper is *Juniperus monosperma*. *Bouteloua gracilis* is the common understory grass species. In the bootheel, *Pinus edulis* may be replaced by *Pinus cembroides*. Alternative juniper dominants will be *Juniperus scopulorum* in the northern regions, *Juniperus pinchotii* to the east, *Juniperus coahuilensis* to the south near the deserts, and *Juniperus deppeana* to the west in the mountains. Other common shrubs in the piñon-juniper woodland include *Atriplex canescens*, *Berberis haematocarpa*, *Cercocarpus montanus*, *Ericameria nauseosa*, *Fendlera rupicola*, *Garrya wrightii*, *Philadelphus microphyllus*, and *Robinia neomexicana*. As expected, common grasses include species of *Achnatherum*, *Aristida*, *Bouteloua*, *Eragrostis*, *Muhlenbergia*, and *Piptochaetium fimbriatum* under the piñon. Forbs are many and diverse.

**Ponderosa Pine Forest.** At mid-elevations in the mountains, but generally below 8500 feet, one finds a widespread forest dominated by *Pinus ponderosa*, with a grassy understory of *Elymus elymoides*, *Festuca arizonica*, *Muhlenbergia montana*, *Muhlenbergia tricholepis*, *Poa fendleriana*, and *Poa pratensis*. Mature forests have widely scattered ponderosa pine, with almost a savanna-like aspect, and are the classic ponderosa pine parklands of the southwest. Shrubby understory species include *Quercus gambelii*, *Robinia neomexicana*, *Rosa woodsii*, and *Symphoricarpos rotundifolius*. In

the southwestern regions of the state, where winters are milder, ponderosa pine forest grades into pine/oak forest, with evergreen oaks.

**Mixed Conifer Forest.** Middle and upper elevations in the mountains (roughly 8000-10,000 feet) are often covered with a forest of mixed coniferous species, generally *Abies concolor*, *Picea pungens*, various species of *Pinus*, and *Pseudotsuga menziesii*. This mixed conifer forest has numerous variations, depending on slope, aspect, mountain mass, soils, and landform, and is further delineated by forest ecologists. Associated woody plants include *Arctostaphylos uva-ursi*, *Cornus stolonifera*, *Pinus flexilis*, *Pinus trobiformis*, *Populus tremuloides*, and *Quercus gambelii*. Frequent grasses include *Bromus ciliatus*, *Festuca arizonica*, *Muhlenbergia montana*, *Muhlenbergia straminea*, and *Poa pratensis*.

**Spruce/Fir or Subalpine Conifer Forest.** Occurring at the highest forested elevations in our mountains (generally 9500 feet to timberline) is this forest dominated by *Abies arizonica* and *Picea engelmannii*. Significant woody associates include *Arctostaphylos uva-ursi*, *Juniperus communis*, *Pinus aristata*, *Pinus reflexa*, *Populus tremuloides*, *Pseudotsuga menziesii*, *Ribes montigenum*, *Rosa woodsii*, and *Vaccinium myrtillus*. High-elevation grasses include *Bromus porteri*, *Danthonia parryi*, *Festuca brachyphylla*, *Festuca minutiflora*, *Festuca rubra*, *Koeleria spicata*, and *Phleum alpinum*. Commonly encountered forbs will be *Achillea millefolium*, *Chamaenerion angustifolium*, *Geranium richardsonii*, *Packera sanguisorboides*, *Polemonium viscosum*, *Senecio taraxacoides*, and *Trifolium attenuatum*.

**Southwestern Pine/Oak Forest.** In the southwestern mountains with relatively mild winters, we find forests of various pine and conifer species intermingled with evergreen oaks. Common pine species are *Pinus cembroides*, *Pinus arizonica*, *Pinus engelmannii*, *Pinus leiophylla*, *Pinus ponderosa*, and *Pinus reflexa*. Other conifers are usually represented by *Juniperus deppeana* and *Pseudotsuga menziesii*. The numerous oaks include *Quercus arizonica*, *Quercus emoryi*, *Quercus grisea*, *Quercus hypoleucoides*, *Quercus rugosa*, and *Quercus toumeyi*. Commonly associated shrubs include *Arctostaphylos pungens*, *Ceanothus fendleri*, *Cercocarpus montanus*, *Garrya wrightii*, *Rhus trilobata*, *Rhus virens*, and *Robinia neomexicana*, with a grass understory of *Aristida schiedeana*, *Muhlenbergia emersleyi*, *Muhlenbergia longiligula*, *Muhlenbergia rigens*, *Poa fendleriana*, *Piptochaetium fimbriatum*, and *Schizachyrium cirratum*.

**Great Basin Desert Shrubland.** Territory in the Four Corners region with a predominance of *Artemisia tridentata*, *Atriplex canescens*, *Atriplex confertifolia*, *Ericameria nauseosa* and related species, and *Sarcobatus vermiculatus* typify Great Basin Desert Shrubland vegetation. *Atriplex confertifolia* is the most reliable indicator of this vegetation type, which receives most of its precipitation during the winter in the form of snow. It grades into Great Basin Desert Grassland, and cool-season grasses such as *Eriochroma hymenoides*, *Bromus tectorum* (a weedy exotic), *Distichlis spicata* in wetlands, *Hilaria jamesii* and *Pascopyrum smithii* are common. Upland slopes will have *Juniperus monosperma* and *Juniperus osteosperma*.

**Chihuahuan Desert Shrubland.** Contiguous to the true Chihuahuan Desert Grassland, often in areas of more aridity or greater past disturbance, is the Chihuahuan Desert Shrubland, reliably defined by the occurrence of *Flourensia cernua* and *Larrea tridentata*. *Acacia constricta*, *Agave lechugilla*, *Atriplex canescens*, *Dasyliirion wheeleri*, *Ephedra trifurca*, *Fouquieria splendens*, *Gutierrezia microcephala*, *Gutierrezia sarothrae*, *Lycium pallidum*, *Prosopis glandulosa*, and *Yucca elata* are commonly encountered shrubs. Cacti may be quite diverse and numerous, and common genera include *Coryphantha*, *Cylindropuntia*, *Echinocactus*, *Echinocereus*, *Ferocactus*, *Mammillaria*, and *Opuntia*. Grasses are common, though not dominant,

and include *Aristida purpurea*, *Bouteloua eriopoda*, *Munroa pulchella*, *Sporobolus flexuosus*, and *Tridentopsis mutica*. This shrubland has increased dramatically in recent times, its expansion fueled by grazing, drought, fire, and human disturbance.

**Sand Sage Shrubland.** Areas of deep sand are found throughout the state, usually intermingled among other vegetation, and almost always contain *Artemisia filifolia*. These sand sage shrublands vary in woody plant co-dominants depending on substrate and climate. On the eastern plains shin-oak (*Quercus havardii*) is the common, associated woody plant with sand sage, along with *Baccharis pteronioides*, *Prosopis glandulosa*, *Prunus angustifolia*, and *Yucca campestris* or *Yucca campestris*, with the grasses *Andropogon gerardi*, *Eragrostis secundiflora*, *Hesperostipa comata* in the spring, and *Schizachyrium scoparium*. Other dune areas in the state will contain *Psoralea scoparium* as a common associate, with *Atriplex canescens*, *Ephedra torreyana*, and *Rhus trilobata*, and the grasses *Aristida purpurea*, *Muhlenbergia pungens*, *Sporobolus cryptandrus*, and *Sporobolus giganteus*.

**Mountain Brush.** Dry areas within more moist habitats in the mountains or foothills often contain shrubby plants instead of the expected forest or woodland trees. This mountain brush vegetation is often composed of *Cercocarpus montanus*, *Fallugia paradoxa*, *Fendlera rupicola*, *Holodiscus dumosus*, *Philadelphus microphyllus*, *Ptelea angustifolia*, *Quercus gambelii* (the shrub form), *Quercus turbinella*, *Rhus trilobata*, *Robinia neomexicana*, and *Symphoricarpos rotundifolius*.

**Saltbush Shrubland.** Large, flat areas with slow drainage will hold water long enough to evaporate and to cause a slight increase in salinity. These Saltbush Shrublands are frequently dominated by *Atriplex canescens* or *Sarcobatus vermiculatus*. The grass *Sporobolus airoides* is a common co-dominant, with various proportions of other *Atriplex* species, particularly in the northwestern region. Where the soil is gypsiferous, common associates are *Bouteloua breviseta*, *Nerisyrenia camporum*, *Sartwellia flaveriae*, *Selinocarpus lanceolatus*, *Tiquilis hispidissima*, and *Sporobolus nealleyi*. *Prosopis glandulosa* may invade from adjacent desert scrub if the communities are disturbed.

**Ecotones.** Ecotones are transitional areas between two adjacent vegetation types, typified by the dominant species of both types. There are two frequently occurring ecotones in New Mexico, both of which occupy large tracts of land, and which are sometimes considered distinct vegetation types by themselves. They are 1) transitions between woodland and grassland, with piñon, juniper, and various grasses being common; and 2) transitions between Chihuahuan Desert and grassland, with mesquite, creosote, and black grama or other warm-season grasses being common.

## **A LEXICON OF COMMONLY USED TOPOGRAPHIC AND VEGETATIVE TERMS**

**alkali flat.** An alkaline, level area into which water drains without escape, forming a muddy lake after rains, drying to a hard mud crusted with alkaline salts.

**alkaline.** Above pH 7.0, a base; said of soils that support plants that are alkaline tolerant.

**alluvial fan.** A fan-shaped deposit of sediment laid down by streams or drainages as they enter a plain or open valley; also called a bajada, but this is sometimes restricted to mean a broad plain formed by the uniting of several alluvial fans.

**arroyo.** A stream bed, normally dry, which carries water after rainfall; often used in the sense of gully, to denote a channel with steep sides.

- badlands.** An arid region dissected by deep gullies and usually devoid of vegetative cover because of deficient moisture, thus almost without value for agriculture or pasture land; underlying formation is usually unconsolidated clays and silts; unequal erosion often leaves tall columns and platforms.
- bajada.** Often used synonymously with alluvial fan, referring to a fan-shaped deposit of sediment laid down by streams or drainages as they enter a plain or open valley; sometimes specifically restricted to refer to a broad plain formed by the uniting of several alluvial fans.
- bar.** A ridge of sand lying exposed or submerged in a water channel.
- barren.** A forest opening with prairie plants growing beneath a sparse canopy of often stunted trees.
- basin.** A region in which the drainage is toward an inner, central point.
- bayou.** A marshy or swampy creek or offshoot to a river or lake, occurring in flat country.
- bench.** A shelf-like area of strata or alluvium; lakes often form benches or terraces at different water levels as they rise and recede.
- blow-out.** A hollow formed in light soil or sand by wind action.
- bluff.** A headland or cliff with a bold and almost perpendicular front, usually applied to the steep slopes bordering a river; often formed by the action of the river cutting into the valley sides, on the concave side of a meander.
- bog.** Wet, spongy earth, composed chiefly of decayed and decaying plant matter, fed by rain; see fen.
- bolson.** A basin of interior drainage surrounded by hills or mountains; its lowest point is generally marked by a playa.
- bosque.** A grove of trees (usually cottonwoods or mesquite) along a floodplain.
- bottoms, bottomland.** Low alluvial land next to a river.
- brake.** A thicket of bushes, brambles, shrubs, or especially, cane.
- breaks.** Protrusions of bedrock or strata through thin alluvium, often as small bluffs or knolls in otherwise flat country.
- brush.** A growth of bushes, shrubs, or scrub.
- butte.** A flat-topped hill, formed when a stratum of hard rock overlies weaker layers and protects them from being worn down; smaller than a mesa.
- calcareous.** Containing a substantial proportion of lime, i.e., calcium carbonate, calcite, or magnesium carbonate.
- caldera.** A large, basin-shaped crater bounded by steep cliffs, usually formed by the subsidence of the top of a volcanic mountain, and sometimes occupied by a lake.
- canal.** An artificial watercourse, usually cut to facilitate irrigation or transportation of goods.
- canyon, cañon.** A large gorge, relatively narrow but of considerable size, bounded by steep slopes; often formed by erosion of a river.
- channel.** A river bed.
- chaparral.** Arid-land vegetation characterized by low, mostly small-leaved, evergreen shrubs and small trees, forming dense thickets.
- ciénega.** Southwestern marshlands at low to medium elevations (approx. 3,000-6,000 ft).
- cirque.** A deep, rounded, U-shaped valley or hollow with steep sides formed by glaciation.

- cliff.** A high and extremely steep rock face, approaching the vertical.
- coulee.** Originally used for a lava flow; now used ambiguously for gulches, gullies, steep-sided arroyos, and narrow or small valleys.
- cuesta.** A ridge, or belt of hilly land, formed on gently dipping rock strata.
- desert pavement.** A relatively smooth, mosaic-like area in desert regions, consisting of pebbles closely packed together after the removal (usually by wind) of finer material.
- desert varnish.** A thin, reddish to black film or patina on pebbles on the desert floor; consisting usually of iron and manganese oxides.
- draw.** A small drainage-way with a shallow bed.
- dune.** A mound of sand formed through particle transportation by wind.
- dyke, dike.** A vertical or highly inclined sheet of igneous rock, formed when molten rock forced its way through a cleft.
- escarpment, scarp.** An inland cliff or steep slope; the steep face of a cuesta; often used to describe faces associated with faulting.
- fen.** Wet, spongy earth, composed chiefly of decayed and decaying plant matter, fed by surface or groundwater; see bog.
- flats.** Flat or level ground, as in salt flats.
- flood plain.** A plain, bordering a river, formed of sediment carried down by the river and deposited when the river overflows its banks.
- forest.** A vegetation type dominated by single-trunked trees, usually 8 m or more tall.
- gap.** A break in a mountain range or series of hills.
- glade.** An opening in a wood or forest canopy with prairie plants, with various size rocks scattered throughout.
- gorge.** A valley that is unusually deep and narrow, with steep walls; generally smaller than a canyon.
- grassland.** A vegetation type dominated by grasses.
- grove.** A small wood or forested area, usually with no undergrowth.
- gulch.** A narrow, deep ravine with steep sides, often formed by flash floods.
- gully.** A long, narrow channel worn out by water erosion, particularly on a hillside; smaller than a ravine.
- hillock.** A mound or small hill.
- hollow.** A small valley; often with the connotation of being wooded.
- hogback.** A long, narrow ridge in which both the dip slope and scarp slope are steep, thus differing from a cuesta.
- karst region, karstland, karst topography.** A limestone region in which most or all of the drainage is by underground channels, the surface being dry and often barren; the topography is typified by sinkholes, underground, caves, and blind valleys.
- knoll.** A small, rounded hill or mound.
- ledge.** A flat shelf of rock protruding from a cliff or slope.
- marsh.** A tract of low, wet land, often treeless, and periodically flooded.
- meadow.** A small, but dense, grassland, usually rich in forbs and occurring in relatively moist habitats.
- meander.** A curve in the course of a river as it runs from side to side in flat country.
- mesa.** A flat, table-like upland, which falls away steeply on all sides; smaller than a plateau and large than a butte.
- motte.** A thick grove of trees in a grassland or prairie.

- outcrop.** The portion of a rock stratum that projects above the earth's surface is exposed to view.
- pass.** A road, channel, or other means of passage through an obstructed region, as a narrow route through a mountain range.
- pasture.** Ground covered with grasses or other herbage and used primarily for grazing.
- pediment.** The gently sloping plain that borders mountains, usually strewn with boulders.
- plain.** An extensive area of level or gently undulating land, usually of low altitude.
- plateau.** An extensive, level area of elevated land; when young it will be intersected by canyons; later, the valley floors widen and it is broken up into mesas; later, most of the surface becomes a plain dotted with mesas.
- playa.** A dry lake basin, without drainage, periodically filled with a sheet of water; the floor is smooth, barren, and sun-baked.
- prairie.** A tract of tall grassland, usually in fertile soils.
- ravine.** A long, narrow depression, smaller than a valley and larger than a gully.
- ridge.** A long, narrow crest of a mountain or hill.
- rill.** A small rivulet or brook.
- rimrock.** Rock forming the natural boundary of a plateau, mesa, or other rise.
- riparian.** Pertaining to, situated, or dwelling on the bank of a river or other body of water (i.e., riparian habitat).
- rise.** A piece of high ground.
- saddle.** A lower ridge connecting two higher elevations.
- saline.** Containing a large proportion of soluble salts.
- salt marsh.** A marsh situated in saline water, either inland or coastal.
- savannah.** A grassland with scattered trees or scattered clumps of trees; vegetation able to withstand hot, dry seasons of considerable length.
- scarp.** see escarpment.
- scrub, scrubland.** A vegetation type with small, closely spaced woody plants less than 2 m tall and often thorny or spiny.
- seep.** A small spring area where water oozes to the surface.
- sink hole.** A saucer-shaped depression formed by dissolution of the underlying rock or parent material; often in limestone.
- slope.** An incline, usually used in reference to foothills and pediments.
- slough.** A swampy or marshy region.
- steppe.** Grassland in regions too dry for natural forest on the uplands; relatively arid.
- strand.** The narrow strip of land bordering a sea, lake, or river; strand vegetation.
- summit.** The peak or highest point.
- swale.** A low spot in a tract of land, often more moist and with more rank vegetation than surrounding land.
- swamp.** A tract of low, wet land, often with trees, and continuously flooded.
- talus.** A mass of rock and boulders of all sizes that accumulate at the base of a cliff or mountain slope.
- terrace.** A nearly level strip of land with an abrupt descent along the margin of a lake or river; a bench.
- thicket.** A dense growth of shrubs, bushes, or small trees.
- tinaja.** Large, rounded hole worn into rock by water; serve as waterholes.
- tundra.** Treeless plains of the arctic region; dominated by grasses, forbs, and lichens.

- upland.** Drier, elevated slopes or ground, usually in relation to a water course.
- valley.** A long, narrow depression in the earth's surface, often with a river or stream running through it, and larger than a ravine.
- wash.** A broad gully or arroyo with sloping or low banks and a sandy bottom, filling with water only after rains.
- woodland.** Terrain covered with well-spaced trees or shrubs, but not as scattered as savannah.

## A BRIEF HISTORY OF BOTANY IN NEW MEXICO, 1840-1915

### "MID-NINETEENTH-CENTURY BOTANICAL EXPLORATION IN NEW MEXICO"

Carolyn Dickerman

"Mid-Nineteenth-Century Botanical Exploration in New Mexico." *Historical Review* 60 (April 1985):159-171. Copyright © 1985 by the University of New Mexico Board of Regents. All rights reserved. Reprinted by permission.

In the nineteenth century a varied people came west and in doing so, braved hardship, danger, and isolation. Initially, explorers and adventurers were drawn to the inhospitable country "because it was there." In addition, settlers, dissatisfied with their lives in more civilized areas, looked to the West as a place to realize their dreams. Another group, merchants, discovered an untapped clientele developing west of the Mississippi.

The irresistible West drew still another breed of man to its harsh terrain: scientific explorers. Although the early naturalists are not discussed in many historical treatments of western development, they carried out their work on the very edge of the frontier. A glimpse of the earliest botanical collectors in New Mexico reveals what kind of people they were and why and how they came to the territory. In addition, a study of their opportunities for collecting in New Mexico indicates that the political and social history of that region in the 1840s helped determine their successes and failures on the frontier.

While some of the West remained unexplored in the first half of the nineteenth century, eminent American botanists Asa Gray of Harvard and John Torrey of Columbia were preparing a compilation of the plants of the North American continent. Also helping with this ambitious project were Thomas Nuttall, a prominent Philadelphia botanist who had traveled extensively on the frontier, and George Engelmann, a St. Louis physician and expert on cacti.

To obtain material from previously unstudied areas, Gray sponsored collecting expeditions, funded by sales of subscriptions to sets of plant specimens brought back from these trips. Announcements for these subscriptions were published in scientific journals and specified the geographical areas in which a collection would be made. The advertisements stated who the collectors would be, how they were qualified, and which scientist would identify the specimens.<sup>1</sup>

Gray was particularly interested in obtaining plant information from the largest area of the continental United States still unexplored scientifically, the land between Texas and California. Botanical specimens were first taken from the coast of California in 1791,<sup>2</sup> and by 1820, Dr. Edwin James, who accompanied Maj. S.H. Long on his first expedition to the Rocky Mountains, was gathering plants in Texas.<sup>3</sup> Although these areas of the Southwest and other sections of the



continent had experienced botanical expeditions in the 1840s, no one had yet ventured into New Mexico.

Of course, people had lived in the Southwest for millennia and were acquainted with the plant life of the region. Indeed, successive indigenous populations, Spanish missionaries and soldiers, and hunters and trappers from the United States knew the plants of the area, named them, and were aware of their uses and distribution. Trained European botanists, who were building a systematic body of knowledge of the relationships and distributions of all plants of the world, would not base their scientific work on laymen's descriptions, however. They needed actual specimens, prepared by professionals who had the training to recognize interesting and useful species. The reasons New Mexico remained unknown botanically are not attributable primarily to the rough, inhospitable nature of the land or the arduousness of travel, difficult as these were, or to the unwillingness of people to undergo the tribulations of frontier life. Instead, international politics determined the course of botanical knowledge in these early years.

New Mexico in the early nineteenth century was an integral part of Mexico, itself under Spanish administration. Generally, the weak Spanish government viewed frontier New Mexico as a buffer to protect remaining Spanish possessions from hostile Indians; it also prohibited foreigners from entering Spanish lands.<sup>4</sup> Fear of encroachment by the United States, especially after the Louisiana Purchase in 1803, as well as protecting the monopoly on trade from Chihuahua to New Mexico, motivated the Spanish to keep New Mexico isolated. A result of this isolation policy was that New Mexico received no lands for colleges or public schools; nor were there any printing presses, lawyers, or medical doctors in the province, with the exception of a surgeon supported by soldiers in Santa Fe. Spain prohibited manufacture of goods, and all trade was with the south. Annual caravans laden with wool, wine, and furs made the perilous journey to Chihuahua and returned with manufactured items of European origin. Traders who broke the rules of the foreign embargo, especially Americans, could expect heavy jail sentences.<sup>5</sup>

During the three hundred years of Spanish rule in the New World, Spain sent scientific explorers to Mexico on only one occasion: the Royal Scientific Expedition to New Spain, authorized in 1786 and headed by two prominent Spanish botanists. For fifteen years, this expedition of botanists, zoologists, and artists collected, described, and painted the flora and fauna of New Spain from Central America to Veracruz (where they were joined by the Malaspina expedition) to Baja California, including some Caribbean islands, but not northern Mexico. When the principals returned to Spain in 1803, however, the chaotic political climate thwarted further scientific activities. As a result, materials from the collection were not made available to the European scientific community and Spain discontinued botanical work in Mexico.<sup>6</sup>

When Mexico broke from Spain in 1821, it abandoned the Spanish policy of excluding foreign traders. In fact, the first American to trade with the Mexican people was William Becknell, a Missouri merchant who gambled that Mexican independence would lead to repeal of the restrictive trade laws. He started out for Santa Fe before the war of independence was won. When he arrived in New Mexico friendly troops met his party and escorted them to Santa Fe where they exchanged their manufactured goods for bags of silver pesos. Upon his return to Franklin, Missouri, he advertised his good fortune by riding down the main street,

pulling out one of his leather bags of silver, and, cutting it with a knife, spilling the coins out on the street. Six months later, Becknell headed back to Santa Fe with more goods. Knowing that his three, heavily loaded wagons would not be able to negotiate the steep Raton Pass through which he had earlier entered Santa Fe, he crossed the Cimarron desert and inaugurated another branch of the Santa Fe trail.<sup>7</sup>

The opening of the Santa Fe Trail and the commercial activity it spawned provided a means of sending botanical collectors into the new area. The first botanical explorer in New Mexico was **William Gambel** [emphasis added, here and following], a protégé of Nuttall who had traveled with his mentor in the Southwest and New England and had learned the technique of collecting and preserving plants for scientific purposes. An adventurous young man of eighteen when Nuttall sent him west, Gambel followed the usual route to the frontier through Pittsburgh, down the Ohio by steamboat, up the Mississippi to St. Louis, and then up the Missouri to Independence, Missouri. In May 1841, Gambel left Independence with a mule caravan of ninety trappers and traders along with forty wagons laden with merchandise.

The three-month trip to Santa Fe was not without considerable trouble. In western Kansas, combat with a band of five hundred Arapaho Indians was avoided only by handing out gifts. This incident took place within sight of the remains of Pawnee Indians whom the Arapaho had killed earlier. Farther along, four hundred Utes attacked and shot at the caravan for an entire morning. (We know of these events through extant letters Gambel wrote to his mother.) In describing travel along the Santa Fe Trail, Gambel reported: "We also suffered much for want of water sometimes having to do without for two days. However, I have got through it with safety not even with a cold from laying [sic] on the ground with nothing on but the sky above the earth below and perhaps Indians around us for nearly three months."<sup>8</sup>

Despite these and other problems, the mule train arrived in Santa Fe in record time. For the next two months, Gambel remained in New Mexico, collecting botanical and zoological specimens in the Sangre de Cristo range and the nearby Rio Grande valley.

Since traveling over the deserts and mountains of New Mexico by mule was arduous, amassing a useful collection of plants while on such trips was particularly difficult. As samples were collected in the field, care had to be taken to save all parts of the plant (for example, flower, fruit, root) to retain useful specimens. These specimens were transferred back to camp in metal containers (vascula) or leather portfolios. Moisture was then removed from the plants by pressing them between absorbent papers that were changed daily until the specimens had dried. In rainy seasons, papers had to be changed over a long period of time. At the end of each day, a detailed list of the collected plants had to be made, including information on exact location, habitat, density of population, and associated flora. Freshly collected plants had to be pressed, all other specimens collected on the trip had to be examined for dryness, and those that were still moist had to be replaced in dry papers. In addition, collectors had the more mundane daily chores of cooking, washing, and guard duty.

By September, the flowering season was coming to a close, and Gambel resumed his trip to California by joining the Workman party in Abiquiú. The route this group of twenty-five people (most of whom planned to settle in California) took went as far north as Utah, then across the Mojave desert to Los Angeles

without major problems, although toward the end of the trip their flock of sheep had been eaten, and they suffered from a serious lack of water.

When Gambel's extensive collections finally reached Philadelphia, Nuttall published the descriptions.<sup>9</sup> Nuttall permanently honored Gambel by naming the common scrub oak of New Mexico *Quercus gambellii* (Gambel's oak) and the top-knotted bird commonly seen scurrying through the desert *Lophortyx gambelii* (Gambel's quail).

Nearly five years passed before another botanist visited New Mexico. In the meantime, relations between the United States and Mexico deteriorated as the United States perceived the disorganized young state of Mexico as uncooperative, while Mexico feared their powerful neighbor's greed for additional territory. As a result, Mexico broke off diplomatic relations with the United States in March of 1845 following the annexation of Texas.

The next year, despite clouds of war on the horizon that a series of border incidents had initiated, **Frederick A. Wislizenus**, an émigré physician and partner in practice with George Engelmann, was persuaded by the latter to undertake a scientific tour of northern Mexico. Engelmann had developed Wislizenus' interest in botany and had instructed him in the technique of collecting and preserving specimens. The tolls began on 5 May 1846, when Wislizenus left St. Louis for Missouri where he sought a company destined for Santa Fe. Although word of skirmishes on the frontier reached Wislizenus before he left Missouri, he continued on his trip, believing that if war came, it would be short-lived. He headed west within the month with the thirty-five-man caravan of Albert Speyer, a Santa Fe trader carrying two wagon loads of arms and ammunition to sell to the governor of Chihuahua.

On 17 July, Wislizenus crossed the New Mexico border. Among the botanical observations of New Mexico he recorded in his detailed journal was the first cane cholla, *Opuntia arborescens*. He noted that this plant, common throughout Mexico, has porous stems that are used as torches. At Las Vegas, he went into the mountains where he recorded then undescribed pines: ponderosa and piñon.

In Santa Fe, word reached the American party of the battle of Palo Alto that took place in Texas when the Mexican army crossed the Rio Grande and killed American patrols. Still, the situation seemed normal in Santa Fe, so the Mexican general granted Wislizenus a passport for travel to the interior. The caravan started on its way to Mexico along the Rio Grande on 9 July, and Wislizenus made the first collection of plant specimens south of Santa Fe. At the Sandia Mountains, Wislizenus left the party to obtain gold ore, then rejoined the group at Albuquerque. A few days later along the Rio Grande, Wislizenus encountered mesquite. At first he was pleased to see specimens of the plant he had known only by description, but he soon found them monotonous. He was also interested in the various species of *Yucca* and *Opuntia*. At Socorro, while examining the mineralogy of old mines, Wislizenus found an undescribed species of *Yucca* in fruit.

From Socorro the party left the Rio Grande, which at this point begins a circuitous bend that, because of the mountainous terrain, was difficult to follow and entered the ninety-mile Jornada del Muerto, a nearly waterless valley, the name of which reveals its dangers. There, Wislizenus discovered a new *Echinocactus* of impressive size. He collected its flowers and seeds, but its four-foot height prevented him from making a whole-plant specimen. On 8 August 1846, Wislizenus crossed into Mexico where during the next ten months he proceeded

in amassing an important botanical collection despite being caught up in the war. For six months he was confined to a remote village in the state of Chihuahua.<sup>10</sup>

Wislizenus' collection included five new species from New Mexico. Engelmann described these and other new species in the "Botanical Appendix" of Wislizenus' "Memoir," thereby stamping Wislizenus' unwieldy name on American botany.<sup>11</sup> At the generic level, Engelmann described *Wislizenia*, of the family Capparidaceae, in honor of its discoverer. In addition to *Pediocactus wislizeni*, a cottonwood, *Populus fremontii* var. *wislizeni*, collected in Texas, was also named for the German physician, as were *Dithryea wislizenzii*, *Geranium wislizeni* and a California oak, *Quercus wislizeni*. Engelmann wrote that "the collection of Dr. Wislizenus cannot but impress the botanist with the richness and novelty of the flora of these countries and invite the arduous explorer to further exertion."<sup>12</sup>

In the spring of 1846, while Wislizenus was on the Santa Fe Trail, worsening relations between Mexico and the United States culminated in full-fledged war along the lower Rio Grande. President Polk signed an act of war on 13 May that authorized him to use military force to take Chihuahua, Tamaulipas, New Mexico east of the Rio Grande, and the California ports.

In response to the declaration of war, the 2,700-member Army of the West assembled at Fort Leavenworth, Missouri. Attached to the army were five members of the Corps of Topographical Engineers, a branch of the army charged with gathering scientific information about the West while serving as part of the fighting force. The engineers were educated at West Point where they were given courses in engineering, drawing, and natural science. In fact, prominent botanist John Torrey gave them basic instruction in botany and taught them how to document the flora of areas through which they would travel. By means of their association with foremost American scientists, these West Point graduates came into contact with leading scientists of the United States and Europe, and some of them became highly respected scientists in their own right.<sup>13</sup> When President Polk ordered General Kearny to extend his conquest of New Mexico onward to California, the topological bureau was provided with an opportunity for original exploration in unmapped lands that until then only Indians, Spaniards, and mountain men had crossed.

On 5 June 1846, Lt. **William H. Emory**, a thirty-five-year-old career soldier, received orders to repair to Fort Leavenworth and report to Colonel Kearny as head of a party of topological engineers. These orders stipulated that Emory would perform any military duties that Kearny assigned to him. Anticipating that this tour of duty would take him to unexplored areas of the continent, Emory prepared to use his free time to collect scientific data.

Indeed, before leaving Washington, D.C., Emory procured box chronometers and sextants for determining longitudes and latitudes. So jarring was the trip, however, particularly the overturning of the stagecoach in the Alleghenies, that the settings of these delicate instruments changed and had to be recalibrated in Fort Leavenworth. On the other hand, Emory managed to keep the settings in working order throughout the remainder of the trip, and during a stopover in St. Louis, he consulted with Engelmann on preparations for plant collecting.

Emory's official report reveals that the Army of the West set out from Fort Leavenworth on 26 June following the Santa Fe Trail. Throughout the trip, Emory recorded military events and botanical findings.<sup>14</sup> Although the march was hard, food in short supply, water scarce, and there was a constant threat of

combat, Emory took valuable time each day to detail the floral characteristics of the country. The army traveled across New Mexico from Raton Pass to Santa Fe, announcing at each village that the United States was taking possession of the country. The armed Mexican forces, rumored to be ready, never materialized.

In August and September, while Kearny's men remained in Santa Fe, Emory selected and surveyed the site of Fort Marcy. In addition, he took the opportunity to collect plants in the environs as well as to travel south along the Rio Grande as far as the village of Tome.

Toward the end of September, the company set out on the march for California, moving south along the Rio Grande. At Socorro, they left the road that continued down to Chihuahua through the Jornada del Muerto and instead followed the Rio Grande. From this point on, Emory was collecting in botanically virgin territory. At the level of the present Elephant Butte Dam, Kearny and his party headed west toward the Mimbres Mountains and the Santa Rita copper mines, and then to the Gila River, which they followed out of New Mexico. The month's passage across present-day Arizona along the Gila was without military incident, so Emory was able to continue his botanizing along the Gila, adding new species to his collection. His most notable botanical discovery was the saguaro cactus. Although Emory was on a military mission, his descriptions were enthusiastic, at times almost poetic: "The view from our camp is inexpressibly beautiful";<sup>15</sup> "for two days our way was strewn with flowers."<sup>16</sup>

His collection of plants was excellent, although he apologized in a letter to John Torrey that it was made "at intervals snatched from military duty, and necessarily done hastily and without that order of regularity which you would expect had I been sent on a scientific expedition. . . . I went out on a notice of only a few hours and what was done was beyond military duties."<sup>17</sup> Torrey was asked to write a catalogue of the plants collected. This analysis of Emory's specimens in the appendix of the "Notes" includes a new genus, *Baileya*, of the Composite family, a common plant along the Rio Grande, as well as nine new species.<sup>18</sup> *Prosopis strombocarpa emoryi* and *Quercus emoryi* (Emory oak) were species named after Emory, who collected them while on his military mission.

Meanwhile, Asa Gray of Harvard recognized the opportunity to place plant collectors in remote places in the flood of military people headed west. He wrote Engelmann on 30 May 1846 that he "must have a collector for plants living and dry to go to Santa Fe, with the Government Expedition."<sup>19</sup> Engelmann responded a few weeks later, "I believe I have found a young man."<sup>20</sup> Engelmann's candidate was **Augustus Fendler**, a Prussian who had traveled extensively in frontier America collecting plant specimens. At the outbreak of the Mexican war, Gray had obtained a letter of recommendation from the secretary of war granting Fendler free transportation to Santa Fe with the troops. Arriving there in the fall of 1846, Fendler was obliged to wait until the plants were in a collectible stage in the spring. Then from April through August, he botanized along the Santa Fe River and on the surrounding plains west to the Rio Grande Valley, gathering 1,026 specimens. Clearly, the correspondence of Engelmann and Gray indicates they were well pleased with Fendler's method of collecting. Fendler's contribution to the botany of the newly acquired areas of the United States was considerable, and he showed further promise of scientific contribution. His dedication to plant collecting is evident in a letter he wrote to Gray: "Not the dangers nor the risk of life, health, and property; not the many hardships and privations which are insuperably connected with such an undertaking are deterring me from entering

upon it again – on the contrary, these botanical excursions were enough to make me passionately fond of herbalizing.”<sup>21</sup>

So pleased was Gray with Fendler's efforts that his letters to Engelmann indicated that the Harvard scientist wanted Fendler to remain in the Santa Fe area for two years to collect material in the nearby mountains. However, when Fendler requested funds from Gray (pleading that lack of money had compelled him to sell his belongings, borrow money, and forced his younger brother to join the army to keep from starving), he was not granted sufficient funds to permit him to remain in the field. He left for St. Louis in the fall of 1847, never to return to New Mexico.<sup>22</sup>

In recognition of his contribution to western botany, two genera commemorate Fendler's name: *Fendlera* (fendlerbush) and *Fendlerella*, both in the Saxifrage family. Fendler's next botanical expedition was spectacularly disastrous. In the spring of 1849, en route to the Great Salt Lake region, he was caught in a sudden flood and lost all of his collecting materials as well as his transportation. When he finally was able to make his way back to St. Louis, he found that a fire had destroyed all of his worldly goods.<sup>23</sup>

The departure of Fendler from New Mexico marked the end of this initial period of individual collectors, but other events soon transpired that encouraged further botanical exploration of New Mexico. The Mexican-American War resulted in the establishment of a boundary commission to run and mark the boundary line between the two countries. Topographical engineers were assigned to this survey, as well as geologists, zoologists, and botanists. According to noted historian of science, A. Hunter Dupree, the survey had “too many botanists, certainly for their own or the government's good. But their very numbers turned the Mexican boundary survey into a kind of graduate school for collectors.”<sup>24</sup> Indeed the botanical collectors sent back 2,648 species, which Torrey described in the botanical report of the boundary commission.<sup>25</sup> Gray considered this report, including all species known from the Southwest at that time, to be ranked “as the most important publication of the kind that had ever appeared.”<sup>26</sup> This report indicated that improved transportation, removal of political barriers, and – most important – government support of natural history expeditions to the West would encourage trained, well-equipped botanists to carry out surveys in New Mexico, which would expand the botanical knowledge of the area.

Here, then, is the story of the beginning of scientific botanical work in New Mexico. Only after Mexico became independent in 1821 were outsiders officially permitted to enter, and the only means of travel was by mule or wagon along the Santa Fe Trail. In the first half of the 1840s, Gambel and Wislizenus, despite the rigors of working from a mule or oxen train, sent east the first examples of New Mexican flora from Santa Fe and along the Rio Grande. But the Mexican-American War opened up new opportunities for travel in the mid-1840s, and as a result, Lieutenant Emory's military duties took him to previously unexplored parts of the Southwest. Moreover, Fendler, while he traveled to Santa Fe with the army, was free to devote his full time to plant collecting. Although these deeply committed men received a minimum of compensation for the hardships they incurred, aside from having their names permanently attached to the nomenclature of novel plants, they laid the groundwork for the botanical study of New Mexico.

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## **"BOTANISTS OF THE MEXICAN-UNITED STATES BOUNDARY SURVEY"**

Carolyn Dodson

"Botanists of the Mexican-United States Boundary Survey." *Huntia* 9(1): 89-96. Copyright © 1993 by Hunt Institute for Botanical Documentation. All rights reserved. Reprinted by permission.

## **Introduction**

The only good to have come out of the Mexican War "was the benefit it has done to Botany" (Rodgers 1942, p. 225). This was the opinion of John Torrey (1796-1873), the most eminent botanist of his day. Indeed, the war with Mexico

did have an important impact on the study of the unique desert flora of North America.

By the mid-1800s little was known of this flora of the Southwest desert, although the botany of the eastern part of the continent was well-documented, and plants had been collected from the West Coast, Northwest, Rocky Mountains and Texas.

In large part the reason for this hiatus in botanical knowledge was political. New Mexico, which included Arizona and part of Colorado, was an integral part of Mexico, itself under Spanish administration. The Spanish government viewed this northern province as a buffer to protect Mexico from hostile American Indians and United States invasion. All foreigners, including scientists, were prohibited from entering Spanish lands and, since Spain was not pursuing scientific investigations in the frontier, the land between Texas and California remained scientifically unexplored (Dickerman 1985).

When Mexico severed its ties with Spain in 1821 and abandoned the policy of excluding foreign traders, the Santa Fe Trail opened. The commercial activity it spawned provided a means of sending botanical collectors into the area for the first time. Indeed, William Gambel and Friedrich A. Wislizenus, the earliest botanists in New Mexico, journeyed with commercial caravans (Dodson 1987).

The Mexican War furnished another means of access. Lieutenant William H. Emory collected plants in New Mexico while on military duty with the Army of the West, and Augustus Fendler traveled with the Army to collect plants in Santa Fe in the summer of 1846. Eastern botanists who were receiving the specimens that trickled in saw that the flora of the Southwest was new and distinctive, and they were eager for the opportunity for more samples (McKelvey 1955).

The Mexican-United States Boundary Survey provided that opportunity. I will briefly describe the Survey in the context in which the botanical collections were made, and then I will introduce the individual plant collectors who traveled with the Survey and conclude with an evaluation of the "benefits" to botany.

On 2 February 1848, the Mexican War ended with the signing of the Treaty of Guadalupe Hidalgo. The result was an expansion of the area of the United States by over one million square miles along a 1,800-mile-long border. To mark the precise line along the rugged terrain separating the two countries, a joint American-Mexican Commission was formed. Each government sent a survey team to work together on marking the boundary.

### **The Boundary Survey**

The Commissioner of the United States Survey Team was charged by his government with making a map of the unexplored land running along the Rio Grande River from the Gulf of Mexico to the boundary of New Mexico, north to the Gila River, down the Gila to the Colorado River and west to San Diego. In addition, he was directed to collect information on precious metals and ores and to secure scientific data on flora and fauna. Finally, he was asked to make recommendations concerning the building of a road, canal or railway along the Gila River (Goetzmann 1959).

At the same time, the Mexican government instructed its Commissioner, Pedro García Conde, to determine the initial point on the Pacific Coast, then carry the survey east. He was also directed to collect information about Indian tribes on the frontier and to suggest solutions to the problem of defending the frontier from American encroachment. Initially, García Conde recommended the appointment



of a botanist for the expedition, but financial constraints prevented the collection and study of botanical collections (Hewitt 1990).

The Americans, however, did organize a botanical survey. Torrey placed his former student Charles C. Parry in the position of official Botanist. Asa Gray, the influential Harvard botanist, had Charles Wright added to the team. Through the influence of W. S. Sullivant, the bryologist, John Bigelow was named Surgeon and Botanist. J. W. Bailey, the West Point botanist, recommended George Thurber as Botanist. Thus, the American Boundary Survey Team had four botanists in its ranks. To be sure, each had other duties as well. Charles Parry was "Assistant Surgeon," George Thurber was "Computer," John M. Bigelow's title was "Surgeon," and Charles Wright's was "Surveyor and Botanist." In the opinion of one historian, this was "too many botanists, certainly, for their own or the government's good" (Dupree 1959, p. 205).

The number of botanists was indeed disproportionate for a team of the size of this survey. but then so was the number of successive commissioners heading the six-yearlong endeavor. As the historian A. Hunter Dupree pointed out, the "Mexican Boundary Survey was a confused affair" (Dupree 1959, p. 205).

Initially President Polk appointed A. H. Sevier, a former Senator, to the post of Commissioner, but the unfortunate man died before taking office. Then Polk appointed John B. Weller, a proslavery Democrat politician, to the position. Obviously, the political implications concerned Polk more than the technical, since William H. Emory, a respected army engineer with a distinguished record in the Mexican War and Northeastern Boundary Commission, was passed over at this time (Hine 1968).

Some members of the team were engineers; others were political appointees. The latter were either advocates of slavery, who welcomed the expansion of slave territory, or proponents of a southern railroad route running through the newly acquired land.

In any event, in March 1849 Weller and his party sailed from the East Coast by way of Panama to San Diego to meet the Mexican component of the joint Survey team. Reaching the Isthmus of Panama, they found themselves among a horde of fortune seekers clamoring to join the Gold Rush. Emory described "a precipitation upon [Panama] of all the odds and ends of the inhabitants of the Atlantic Coast of North America and Europe" (Emory 1857, p. 2). The members of this official mission of the United States government were stranded for weeks before they were able to secure passage to California. By the time they finally arrived, the influx of prospectors into California had driven prices so high that the Commission soon ran out of funds, and on top of that they lost men to the more rewarding gold fields.

Furthermore, toward the end of April, the rainy season set in with its sicknesses. But the sensible ones "employed a good cook, and purchased light wines, and by a generous diet escaped all disease" (Emory 1857, p. 3).

Once the representatives from both governments were ready to begin, the first task was to define the starting point on the Pacific Coast. The treaty specified that the point be located one "marine league" south of the southernmost point of San Diego Bay (Hewitt 1990). These seemingly straightforward instructions harbored pitfalls. The immediate problem was that the 1782 map in hand did not conform to the actual configuration of San Diego Bay. Moreover, the "marine league" was a unit of measure unfamiliar to the Americans, and the two sides had to work out a mutually acceptable definition of the unit (Hewitt 1990, p. 185).

Meanwhile Amiel Whipple and Charles C. Parry established an astronomical camp at the confluence of the Gila and Colorado Rivers, an orientation point of the boundary. They too had problems, namely that the Gila River constantly shifted in its course and was impossible to pin down.

Then the Whigs came into power. In 1849 President Taylor relieved Weller of the post and offered it to John C. Fremont, who mercifully declined. Had Fremont accepted, Emory, the most competent member of the Commission but also Fremont's political enemy, would have had to resign. Next, John Russell Bartlett, an ethnologist and book dealer, was offered the post. Unfortunately for the operation of the Survey, Bartlett accepted.

For this bookish, artistic Commissioner, the post promised opportunity "for exploring unknown regions" and "to be thrown among the wild tribes of the interior" (Goetzmann 1959, p. 168). By now the stretch of the border from San Diego to the Gila River was mapped. Thus, Bartlett began his survey at El Paso.

He arrived at El Paso from the port of Indianola with a large, luxuriously equipped party that included friends and relatives. Assuming that the astronomical and surveying equipment shipped from San Diego would be sufficient for his survey, He took with him no scientific equipment. He did not, however, stint on general supplies, including four iron boats accompanied by a Lieutenant of the U.S. Navy for use on the Rio Grande and Gila Rivers (Hewitt 1990, p. 179). In connection with Bartlett's supplies, James D. Graham complained that not a single zoological or botanical specimen was sent out before he arrived in El Paso. The equipment for preserving botanical collections was left at Indianola and in its place the wagons were loaded with whiskey (Graham 1852).

Soon after taking charge, Bartlett commandeered the surveying party to rescue a Mexican girl from her New Mexico slave owners, a mission that took them to various parts of northern Mexico for over a month. Subsequently, Bartlett made exploratory side trips to California and Mexico. While these excursions detracted from the surveying, they afforded unparalleled opportunities for the botanists. Here is an example of the Commissioner's excursions, from Torrey: "Mr. Bartlett, with most of his party (including Thurber) had gone to parts unknown & leaving the remainder of his people without funds or work—or anything else except provisions. Major Emory [will] organize a small party & start in pursuit of Mr. B." (Rodgers 1942, p. 222).

Of course, this kind of shenanigan hampered the progress of the surveying. But a more serious problem arose from errors in the map on which the treaty was based. This map showed El Paso to be 30 miles north of its true position. Bartlett incorporated this mistake into his surveying in spite of the objection of his surveyors.

The chief Surveyor, Andrew B. Gray, was one of the dissenters. He considered it "a great misfortune that the officer of the topographical engineers put his signature to an agreement. . . . Thus signing away a large piece of territory belonging to New Mexico, a portion of which is of splendid character" (Gray, A. B., 1854, p. 46).

To be fair, it must be admitted that Bartlett's interpretation was compatible with his instructions to use the inaccurate map and to maintain a conciliatory attitude toward Mexico. Nevertheless, the fact that the 30-mile wide stretch in question would be the route of any southern railway elevated the matter to the realm of politics.

Bartlett's "wide field for new exploration" (Goetzmann 1959, p. 168) ended when Congress, prompted by Senator Weller, the former Commissioner, called for an investigation of Bartlett's conduct. This review resulted in the impoundment of the Commission's funds and dismissal of Bartlett for the great land giveaways (Goetzmann 1958, p. 185).

Even so, had he not been dismissed for his position of the latitude of the line, Bartlett eventually would have lost his post due to poor management, corruption, drunken binges, and the suicide and murders that occurred during the colorful months he headed the organization.

By the time Bartlett left, in 1852, the Commission had only surveyed the Texas and California portions of the boundary. William H. Emory was called up from the West Coast to carry on the work. When he arrived in El Paso, he found "no money, no credit . . . the large party subdivided . . . amongst themselves and the bitterest feelings between the different parties. Little or no work has been done, and yet the appropriation is all gone" (Goetzmann 1958, p. 180).

Taking charge in 1853, Emory proved to be as efficient as his predecessor was disorganized. He swiftly and competently completed the mission five years after the Treaty of Guadalupe Hidalgo. Only one interruption in this phase of the Survey occurred, when the Mexican Commissioner was jailed for a month by his government.

## **The Botanists**

As the surveying progressed in its erratic course, the accompanying botanists zealously collected plant specimens. Who were these field collectors? They came to their posts knowing how to identify plants and able to discern the new and interesting ones. Exploring new lands and discovering new plants under arduous conditions was a labor of love. Their only reward was having their names permanently impressed in botanical science on the plants named in their honor.

What did the collectors do? A mid-nineteenth-century letter to a Corps of Engineers biologist instructed the collector carefully to note locality, latitude, longitude and date of collection on labels connected with the specimens. The collector was told to

save all plants not recognized as common U. States species. The flower leaves and if possible the seed vessels and seed should be saved. Tin boxes will preserve specimens fresh for several days, until opportunity occurs to dry them. Dry plants under strong pressure, between folds of bibulous paper which must be changed daily at least. A botanical press may be made easily with two boards, four cords and a lever for tightening . . . Memoranda should be made of the cover, size, and place of growth of all plants. Collect all land shells, also the bivalve and univalve fresh water species, no matter how unattractive their appearance (Bailey 1850, p. 12).

A common thread uniting botanists was a medical background. After all, until recently, plants were the chief source of drugs. By necessity, the study of plants was an important component of the medical school curriculum.

### **Charles C. Parry**

In fact, the official Survey Botanist Charles Christopher Parry (1823-1890) studied botany at Columbia Medical College. His interest in botany continued while he was practicing medicine in Iowa. At that time this state was on the frontier, certainly in the botanical sense, so that Parry began collecting plants to send to his former professor, Torrey. Finding such delight in the discovery of new species, he joined the Geological Survey of the Northwest in 1848 as Surgeon-Naturalist for the experience of botanizing in unexplored regions of Minnesota.

Then, rather than resume his practice, he accepted Torrey's appointment as official Botanist of the United States Survey Team in 1849 (Parry 1878). Parry traveled to San Diego by ship, then accompanied a group across the California desert to the Gila River during the latter half of the year. The collection he made in the unexplored territory suffered a fate that was common enough on the frontier. It was lost in a fire in Panama on route to Washington D.C.

Parry made up this loss by extensively collecting again along the survey line the following year. He even worked along the coast as far as Monterey, where he described a new species of pine named *Pinus torreyana* or Torrey pine, in honor of his mentor.

In 1851 Parry was transferred to El Paso. For a year he followed the expedition, collecting plants between Big Bend and the Pimo settlements to the west.

Parry actively participated in botanical exploration throughout the West for the rest of his life. He served as botanist of the Pacific Railroad Survey along the 35th parallel in 1867 and then was appointed Botanist of the Department of Agriculture. Most of his summers during the rest of his life were spent in the west, exploring the Rocky Mountain flora. In fact, Joseph Ewan, the eminent botanical historian, concludes that Parry "did more than any other single person to make known the plant life of the Central Rocky Mountain" (Ewan 1950, p. 278).

### **John Milton Bigelow**

Another physician among the border botanists was John Milton Bigelow (1804-1878). He maintained his botanical interests while practicing medicine and raising a family in Ohio by collecting plants for Dr. Torrey.

Private practice and botanizing were not always compatible, he found: "Many times some of my most interesting specimens are brought home in my hat and probably before I have time to smooth out some of the wrinkles consequent upon their cramped position in the hat, a call is made post haste and my poor plants are obliged to suffer the withering influences of a hot summer day" (Waller 1942, p. 317).

His correspondence with Torrey led to his appointment as Surgeon and Botanist on the Boundary Survey in 1850. Bigelow traveled with Bartlett's group by ship to Indianola, then overland to El Paso, collecting along the way.

Along the border he discovered *Parthenium argentatum* or Guayule, the subject of intense interest today for its potential to yield rubber. As the oldest of the Survey botanists, Bigelow was somewhat hampered by his outmoded botanical concepts. He continued to see botany from a medical standpoint. In fact, his first publication was a catalogue of the plants of his Ohio county, with notes on their medicinal value.

Immediately upon leaving the Survey in 1853, Bigelow joined the Whipple Pacific Railroad expedition for a two-year opportunity to collect plants from

Arkansas to California. When that ended he devoted the rest of his long and active life to medicine. In his honor, Asa Gray named the genus *Bigelovia* of Compositae (the aster family). *Clematis bigelovii*, *Aster bigelovii*, *Linosyris bigelovii* and *Senecio bigelovii*, among many other new plants, were named for him.

### **George Thurber**

The medical connection also extends to George Thurber (1821-1878), whose introduction to botany came in his studies of pharmacology. After a pharmacist's apprenticeship, he became a lecturer on chemistry (Rusby 1890, p. 208). Botany soon became a passion with him, and he eagerly seized the opportunity to become associated with the Survey as Botanist, Quartermaster and Commissary. For four years he traveled with the Survey, collecting plants chiefly in New Mexico and Sonora as a member of "the scientific brain trust of the Border Commission" (Wallace 1955, p. 82).

Thurber discovered *Robinia neomexicana*, the New Mexico Locust, which he recognized as a desirable addition to ornamental shrubs. Indeed, this lovely flowering tree is now a prominent garden plant in Southwestern landscapes.

Near the copper mines he discovered a particularly striking dark red cinquefoil that Gray named after him: *Potentilla thurberi*. His botanical specialty was Gramineae, the grass family, and in his honor the English botanist George Bentham named a genus of grass, *Thurberia*.

When the survey was completed, Thurber returned east to become Editor of American agriculturist, a position he held until the end of his working life. In this capacity he devoted a considerable portion of his time and effort to the exposure of business and professional frauds. H. H. Rusby called him "a terror to quacks, charlatans, and swindlers of every description" (Rusby 1890, p. 208).

### **Charles Wright**

Charles Wright (1811-1885), on the other hand, was not schooled in medicine. Indeed he emphatically stated he was "no doctor or son of a doctor and neither have nor wish any handle to my name but plain Mr." (Dupree 1959, p. 165). Graduating with a liberal arts degree from Yale, he accepted the position of tutor to the children of a wealthy Mississippi planter. When his employer's business failed, Wright went to east Texas where he supported himself by surveying and teaching. At the same time he collected plants for Asa Gray and soon became the distinguished botanist's most trusted collector in the Southwest.

When the United States Survey Team was organized, Gray tried unsuccessfully to name Wright the official Botanist. Eventually he raised funds for Wright to travel with the military across Texas to San Antonio. Wright traveled by ship to Galveston, then overland to El Paso with the Army. Despite Gray's arrangement with the Secretary of War, the Army afforded Wright only free transportation for his collections. Wright had to walk the 700 miles from San Antonio to El Paso.

His funds being limited, food was a problem. He wrote, "I may have to join some of the messes of the privates unless some of the officers should take a liking to me as . . . it may diminish my expenses" (Geiser 1937, p. 239). But the officers seemed to look upon Wright as an odd character. He complained that they would be pleased if his collections were sunk in the river and their load would be lightened" (Geiser 1937, p. 243).

Later he was appointed Assistant Computer, “with a compensation of five hundred dollars per annum and one ration per day,” a “comfortable maintainance [sic]” according to Gray (Geiser 1937, p. 245). In July 1851, Wright left El Paso with Colonel James D. Graham and traveled to Santa Rita del Cobre, near present-day Silver City. On this mission to catch up with the elusive Bartlett, they covered a large area of New Mexico and Sonora, with Wright collecting plants along the way (Shaw 1987).

In the fall of 1852 he delivered his extensive cactus collection to Dr George T. Engelmann in St. Louis and then took the remainder of his specimens to Dr. Asa Gray (Geiser 1937, p. 245). Engelmann dedicated a cactus to Wright, *Opuntia wrightii*, that “bears a name which is forever inseparably completed with the botany of our southern boundary” (Engelmann 1859, p. 60).

## The Report

The specimens collected by the “small but esoteric brain trust of species-mongering scientists” accompanying Bartlett (Wallace 1955, p. 82) were identified and published by Torrey in “The Botany of the Mexican Boundary,” which is published in volume 2, part 1, of the Report on the United States and Mexican Boundary Survey. The publication of the botanical material did not run a smooth course. The botanists generally worked well together, but a glimpse of the jockeying for position among the botanists is apparent in a letter from Torrey to Gray: “The commission has left it to themselves to settle the question of botanical ranks but Bigelow [who, at the age of 46, was the oldest of the botanists] writes to Thurber as his assistant. Thurber says he will not play second fiddle to such a poor stick” (Waller 1942, p. 325).

They had no problems until Wright's plants, which he had sent as arranged to Gray, were published in the appendix to Gray's *Plantae Wrightianae*. In April 1853, Bigelow received a copy of *Plantae Wrightianae* and immediately wrote to Gray: “[Y]ou & Mr Wright have anticipated me in the publication of 30 or 40 new species. . . . I went to the copper mines about the middle of April 1851; he did not come until the following July. And Mr Wright may recollect that Mr Thurber gave me the right to collect in that neighborhood?!! [Underlined in original] . . . All I claim is the simple negative merit of not being anticipated in credit by one engaged in the same expedition with me” (Bigelow 1853, p. 1).

Bigelow also laid out his complaint to Emory: “I have been completely fleeced and see not how I am to get relief except you . . . are able to give it to me” (Bigelow 1853, p. 2). Bigelow suggested that all the plants collected along the border be published in one place so that due credit would be ensured to all who contributed, even “the humble collector who undergoes much fatigue & privation as well as danger . . . for, if we cannot make the music, we are necessary in raising the wind so essential in successfully playing the organ of fame” (Rodgers 1942, p. 225).

Emory then strongly protested to Torrey the separate publication of Wright's material on the grounds that Wright “was liberally paid” and “provided with all the means of collecting and the express condition was that the Boundary Survey should be credited with all the work” (Emory 1853, p. 1).

He announced to Torrey: “I desire you will at once withdraw from Dr Gray all the collections placed in his hands by Wright and if necessary commence a legal process to recover them” (Emory 1853, p. 1). But the furor died down, for there

was no way to “unpublish” descriptions of plants. The rest of the plants were sent to Torrey to be described in the official government report.

Meanwhile, Torrey was receiving a steady stream of Southwest plants. By 1856, with Emory's pressure to finish, Torrey was feeling “buried” in the plant material and asked Gray to help with the Compositae and Scrophulariaceae (the aster and snapdragon families) and Engelmann to describe the Euphorbiaceae and Cactaceae (the spurge and cactus families).

C. C. Parry's contribution to the Report, besides making a superb collection of plants, was to write the introduction, which is a description of the agricultural capacities of the region. In his opinion the potential for farming was severely limited by the low rainfall.

Altogether, the “Botany of the Mexican Boundary” contains over 2,000 species, of which 235 were new to science. Torrey's monumental systematic account of the general botany, with 61 plates, constitutes the greatest part of the volume, which is completed by Engelmann's “Cactaceae of the Boundary,” describing 92 species, of which 40 were new, with 75 plates.

Thorough, precise, and admirably illustrated, the report documents for the first time the unique botany of the borderlands. No less an authority than Asa Gray ranked it “as the most important publication of the kind that has ever appeared” (Gray, A., 1860, p. 292).

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### **PACIFIC RAILROAD SURVEYS (1853-1855)**

[Adapted from the National Museum of Natural History, Department of Vertebrate Zoology: "Government Expeditions." Available online at <http://vertebrates.si.edu/fishes/baird/expeds.html>]

By the middle of the 19th century, the United States spanned the entire width of the North American continent from Atlantic to Pacific, but the only ways to get from one coast to the other were by ship or by arduous horse or wagon travel through deserts and mountains. The discovery of gold in California further stimulated westward traffic and only heightened the need for a faster and more convenient way to bring the far-flung parts of the country together. In 1853 Congress commissioned the Army's Topographic Bureau to conduct a series of surveys to find a suitable route for a transcontinental railroad. There were six major expeditions; five of them covered the area between the Great Plains and California, Oregon, and Washington, and the sixth explored the coastal states of California and Oregon. All of these expeditions were accompanied by naturalists and were provided, through the Smithsonian, with equipment and instructions for collecting. The northern survey, commanded by Isaac I. **Stevens** [emphasis added, here and following], governor of Washington Territory, explored roughly along the 47th parallel between St. Paul, Minnesota and Puget Sound on the Pacific coast. J.G. Cooper, G. Gibbs, and George Suckley served as naturalists. Another expedition, under the command of Capt. J. W. **Gunnison**, surveyed a central route along the 38th, 39th, and 41st parallels, through what is now Kansas, Colorado, Utah, and Nevada. The third expedition, under the command of Lt. A. W. **Whipple**, followed the 35th parallel from Fort Smith, Arizona to the Mojave Desert in southern California. Naturalists included J.M. Bigelow, J. Marcou, and Caleb Kennerly. The southern route followed the 32nd parallel and was covered by two expeditions, both of which passed through southern New Mexico: one under J. **Pope** went from the Rio Grande to the Red River, and the other, under Lt. J. G. **Parke**, worked between the Rio Grande and the Colorado River. Another expedition under the command of R.S. Williamson and H.L. Abbott surveyed the area between the Sacramento Valley in California and the Columbia River, Oregon. The route that was finally selected for the railroad largely followed the 38th parallel, but the decision was mainly political.

The commanders of these expeditions are honored in the eponymy of New Mexico plants: *Nama stevensii*, *Quercus gunnisonii*, *Ipomopsis gunnisonii*, *Calochortus gunnisonii*, *Cylindropuntia whipplei*, *Penstemon whippleanus*, *Ammoselinum popei*, and *Phacelia popei*.

Further information about Whipple's route through New Mexico and the correct localities of some New Mexico types collected by Bigelow can be found in Sivinski (2003).



From a scientific viewpoint, the Railroad expeditions were a monumental accomplishment. Not only had the new western territories been explored and mapped, but the geology and biology were sampled more extensively than by previous expeditions. The success was due largely to the Smithsonian Institution, which supplied the equipment used by the collectors, and which received the material when the expeditions returned from the field. These specimens formed a major part of the Smithsonian's growing collections and formed the basis for the description of many new species.

### E.O. WOOTON

The preeminent botanist in the history of New Mexico is undoubtedly Elmer Ottis Wooton. Born in Kokomo, Indiana, on 18 September 1865, and educated at Earlham College, Wooton came to New Mexico at the inauguration of the New Mexico College of Agriculture and Mechanic Arts (now New Mexico State University) at Las Cruces in 1890. For the next 20 years he traversed New Mexico Territory collecting plants, making notes on the vegetation, reporting on livestock management practices, and compiling the necessary plant data for the first manual of New Mexico plants, "Flora of New Mexico," published in 1915 with P.C. Standley. This handbook stood for 65 years as the only guide to New Mexico botany.

At the fledgling college, Wooton taught classes in bacteriology, biology, botany, chemistry, geology, mineralogy, physics, physiology, and zoology. Nearly every student who matriculated at the college took a class or two from Wooton. According to P.C. Standley, one of his students who went on to a distinguished botanical career of his own, Wooton was "a born teacher, [and] possessed an extraordinary talent for lucid and practical instruction that held the interest of a student" [Standley, P.C. 1947. E.O. Wooton (obituaries). J. Wash. Acad. Sci. 37: 34-35].

Wooton began his botanical activities almost immediately, beginning field work in 1890, according to his field books in the archives of New Mexico State University. In 1892 he collected 1500 or so specimens on a trip to the Grand Canyon. In 1897 he sold duplicates of his collections in the White Mountains (nearly 5000 sheets), which included 70 taxa new to science. Most of this work was done during the summer, when classes were out, and this became the pattern for most of the subsequent summers in New Mexico. Of course, his numerous collections contributed to the development of the college herbarium. Beginning with nothing in 1890, he accumulated 13,000 sheets by 1901, 18,000 by 1905, 25,000 by 1908, and 35,000 by 1911, Wooton's last year at the college. The exchange records of the herbarium show an ambitious program of plant exchange with most of the notables of his day: Abrams, Baker, Britton, Deam, Garrett, Eastwood, Greene, Griffiths, Heller, Hitchcock, Jones, McKenzie, Nelson, Rose, Rydberg, Shreve, Thornber, Tracy, and Vasey.

The botanical efforts of Wooton were aided by able student assistants. Two in particular stand out: Orrick Baylor Metcalfe and Paul Carpenter Standley. Metcalfe, from the Silver City or Mimbres area, completed both bachelor's and master's degrees under Wooton's tutelage, and made an extensive collection of plants from the Black Range during the years 1902-1904. The grass *Muhlenbergia metcalfei* M.E. Jones was named from this collection.

Standley came to New Mexico in fall 1905, transferring from a college in Springfield, Missouri. He graduated two years later, writing his senior thesis on "A

statistical study of *Echinocereus polyacanthus* Engelm. and its nearest allies.” Standley continued his studies for a master’s degree, investigating the Allionaceae for his thesis work, and was employed for a short time in the Biology Department as an assistant professor. He was Wooton’s most eminent student and became one of the foremost botanists of the 20<sup>th</sup> century.

With Standley, Wooton produced his opus magnum, the “Flora of New Mexico,” in 1915. Basically, the work was an annotated listing, with keys, of the 2903 species of vascular plants then known from the state. The “Flora” was the culmination of Wooton’s 20-year study of New Mexico plants. It was an epic contribution, from which all subsequent works have emanated.

During the course of his botanical work, Wooton named 231 new species and one new genus of plants, most from his own collections and in collaboration with Standley. All but 49 were described in a single paper preparatory to the publication of the “Flora” [Wooton, E.O. & P.C. Standley. 1913. Descriptions of new plants preliminary to a report upon the flora of New Mexico. Contr. U.S. Natl. Herb. 16: 109-196]. More than 60% of his taxa are still recognized, though perhaps not at the same rank or in the same combination.

E.O. Wooton left New Mexico in 1911, when he accepted a job with the Office of Farm Management, Department of Agriculture. With the move eastward, his systematic work essentially ended. He was then 47 years old and had spent the previous two decades of his life botanizing and studying the plant life of New Mexico. He returned periodically to visit the college and friends, and to conduct business for the Department of Agriculture. In 1932, New Mexico State College conferred upon him the honorary degree of Doctor of Sciences. Ten years after his retirement from the Office of Farm Management in 1935, Elmer Ottis Wooton died on 20 November 1945, and was buried in Arlington Cemetery, Virginia. Standley (1947) recalled, “I believe that Professor Wooton in his late years looked back to his early days in what was then truly Wild West as the happiest time of his life. New Mexico, despite some sterner phases, has a peculiar fascination, based upon its beautiful mountains and plains, its vast vistas, its romantic history, and its varied population, to which many people have succumbed. It is a local saying that whoever lives three years in New Mexico never leaves, or regrets it ever afterward if he does. ... Professor Wooton is held today in affectionate remembrance by hundreds of former students and other friends, who will not forget his infinite patience, his kindness, his shrewd advice, his keen interest in scientific progress, and his gentleness except when his sense of justice was violated.”

## **SPECIALIZED PLANT DATA**

### **SPECIES OF SPECIAL CONCERN**

Up-to-date and accurate information about the nearly 200 rare and endangered plants of New Mexico is readily available, thanks to the efforts of the New Mexico Rare Plant Technical Council, who compile and distribute online information about these plants [New Mexico Rare Plant Technical Council. 1999. New Mexico Rare Plants. Albuquerque, NM: New Mexico Rare Plants Home Page. <http://nmrareplants.unm.edu> (latest update: 9 July 2020)]. Their web site includes photos, distribution maps, descriptions, and the current status for various agencies, and the interested reader is referred there.

## ENDEMIC PLANTS OF NEW MEXICO

New Mexico is home to 97 endemic plant taxa, distributed among 30 plant families. Only two families have more than seven endemic species: Asteraceae with 22, and Fabaceae with 18. Oddly, the Poaceae lacks any species endemic to New Mexico, even though it is the second largest family in the state. New Mexico endemics are listed below:

### Agavaceae

*Yucca baileyi* Wooton & Standley var. *intermedia*  
(McKelvey) Reveal

### Apiaceae

*Cymopterus spellenbergii* R.L. Hartman & J.E.  
Larson

### Apocynaceae

*Amsonia fugatei* S.P. McLaughlin

### Asteraceae

*Brickellia chenopodiina* (Greene) Robinson  
*Cirsium vinaceum* (Wooton & Standley) Wooton  
& Standley

*Erigeron acomanus* Spellenberg & Knight

*Erigeron bessii* Nesom

*Erigeron rybinsii* Nesom

*Erigeron subglaber* Cronquist

*Grindelia arizonica* Gray var. *neomexicana*  
(Wooton & Standley) Nesom

*Heterotheca villosa* (Pursh) Shinnery var.

*sierrablancensis* Semple

*Hymenoxys ambigens* (S.F. Blake) Bierner var.  
*neomexicana* Wagner

*Hymenoxys brachyactis* Wooton & Standley

*Ionactis elegans* (Soreng & Spellenberg) Nesom

*Lorandersonia microcephala* (Cronquist) Urbatsch,  
Roberts & Neubig

*Packeria cynthioides* (Greene) W.A. Weber & A.  
Löve

*Packeria sanguisorboides* (Rydberg) W.A. Weber  
& A. Löve

*Perityle cernua* (Greene) Shinnery

*Perityle stauraphylla* (Barneby) Shinnery

*Senecio sacramentanus* Wooton & Standley

*Tetradymia filifolia* Greene

*Tommsendia gypsophila* Lowrey & Knight

### Boraginaceae

*Hackelia hirsuta* (Wooton & Standley) I.M.  
Johnston

*Mertensia ovata* Rydberg var. *caelestina* (A.  
Nelson & Cockerell) Nazaire & L. Hufford

### Brassicaceae

*Draba henrici* Al-Shehbaz

*Physaria aurea* (Wooton) O'Kane & Al-  
Shehbaz

*Physaria newberryi* A. Gray var. *yesicola* Sivinski

### Cactaceae

*Corynopuntia clavata* (Engelmann) H. Robinson

*Pediocactus knowltonii* L. Benson

### Caryophyllaceae

*Silene wrightii* Gray

### Convolvulaceae

*Ipomoea gilana* Keith & McDonald

### Crassulaceae

*Rhodiola integrifolia* Rafinesque subsp.  
*neomexicanum* (Britton) Clausen

### Fabaceae

*Astragalus altus* Wooton & Standley

*Astragalus castetteri* Barneby

*Astragalus cliffordii* Welsh & Atwood

*Astragalus cyaneus* Gray

*Astragalus feensis* M.E. Jones

*Astragalus heilii* Welsh & Atwood

*Astragalus kentrophyta* Gray var. *neomexicanus*  
(Barneby) Barneby

*Astragalus kerrii* Knight & Cully

*Astragalus knightii* Barneby

*Astragalus micromeris* Barneby

*Astragalus missouriensis* Nuttall var. *accubens*  
(Sheldon) Isely and var. *mimetus* Barneby

*Astragalus mollissimus* Torrey var. *matthewsii* (S.  
Watson) Barneby

*Astragalus neomexicanus* Wooton & Standley

*Astragalus puniceus* Osterhout var. *gertrudis*

(Greene) Barneby

*Astragalus siliceus* Barneby

*Astragalus wittmannii* Barneby

*Dalea scariosa* S. Watson

*Lupinus sierrae-blancae* Wooton & Standley

### Geraniaceae

*Geranium dodecatheoides* P.J. Alexander & Aedo

### Hydrophyllaceae

*Phacelia cloudcroftensis* N.D. Atwood

*Phacelia sivinskii* Atwood, Knight & Lowrey

### Lamiaceae

*Agastache pallidiflora* (Heller) Rydberg subsp.  
*neomexicana* (Briquet) Lint & Epling var.  
*neomexicana* (Briquet) R. Sanders

*Agastache pringlei* (Briquet) Lint & Epling var.

*verticillata* (Wooton & Standley) R. Sanders

*Hedeoma pulcherrima* Wooton & Standley

*Hedeoma todsenii* Irving

*Monarda humilis* (Torrey) Prather & Keith

### Liliaceae

*Calochortus gunnisonii* S. Watson var. *perpulcher*  
Cockerell

### Loasaceae

*Mentzelia conspicua* T.K. Todsén

*Mentzelia humilis* (Gray) J. Darlington var.

*gudalupensis* Spellenberg

*Mentzelia perennis* Wooton

*Mentzelia springeri* (Standley) Tidestrom

*Mentzelia todiltoensis* Atwood & Welsh

### Melanthiaceae

- Anticlea mogollonensis* (Hess & Sivinski)  
Zomlefer & Judd
- Nyctaginaceae  
*Abronia bigelovii* Heimerl  
*Anulocaulis leiosolenus* (Torrey) Standley var.  
*howardii* Spellenberg & T. Wooten
- Onagraceae  
*Oenothera organensis* Munz
- Orobanchaceae  
*Castilleja organorum* Standley
- Papaveraceae  
*Argemone pinnatisecta* (G. Ownbey) Cervantes & Bailey
- Plantaginaceae  
*Penstemon cardinalis* Wooton & Standley subsp.  
*cardinalis*  
*Penstemon inflatus* Crosswhite  
*Penstemon metcalfei* Wooton & Standley  
*Penstemon neomexicanus* Wooton & Standley  
*Synthyris oblongifolia* (Pennell) Hufford & McMahon
- Polemoniaceae  
*Aliciella formosa* (Greene ex Brand) J.M. Porter  
*Ipomopsis sancti-spiritus* Wilken & Fletcher  
*Phlox vermejoensis* Legler
- Polygalaceae  
*Hebebarpa rectipilis* (S.F. Blake) J.R. Abbott
- Rhinotropia rimulicola* (Steyermark) J.R. Abbott  
var. *mescalerorum* (Wendt & Todsén) J.R. Abbott
- Polygonaceae  
*Eriogonum aliquantum* Reveal  
*Eriogonum gypsophilum* Wooton & Standley  
*Eriogonum lachnogynum* Torrey ex Benth. var.  
*colobum* Reveal & Clifford  
*Eriogonum wootonii* (Reveal) Reveal  
*Rumex tomentellus* K.H. Rechinger
- Ranunculaceae  
*Delphinium novomexicanum* Wooton  
*Delphinium sapellonis* Cockerell
- Rosaceae  
*Crataegus wootoniana* Eggleston  
*Potentilla sierrae-blancae* Wooton & Standley
- Saxifragaceae  
*Heuchera pulchella* Wooton & Standley  
*Heuchera soltisii* Folk & Alexander  
*Heuchera wootonii* Rydberg  
*Heuchera woodsiaephila* P.J. Alexander
- Scrophulariaceae  
*Scrophularia laevis* Wooton & Standley  
*Scrophularia macrantha* Greene ex Stiefelhagen  
*Scrophularia montana* Wooton
- Solanaceae  
*Solanum novomexicanum* (Barlett) S. Stern

### EXOTIC PLANTS IN NEW MEXICO

In 2001, George Cox presented an insightful and useful accounting of the exotic plants of New Mexico, wherein he reported 390 exotic plant species in the state [Cox, G.W. 2001. An inventory and analysis of the alien plant flora of New Mexico. *The New Mexico Botanist* 17:1-7]. At this printing, we report **525 species of exotics**, about 14% of the flora, and an increase of 135 from Cox's 2001 tabulation. This most likely reflects increased botanical activity in the state, rather than intensified invasion by exotics. The families with the most exotic species continue to be Poaceae (122), Asteraceae (56), Brassicaceae (55), Fabaceae (38), and Amaranthaceae (30). Alien species present in New Mexico are listed below, arranged by family.

- |  |   |                              |
|--|---|------------------------------|
| Amaranthaceae                                      | <i>Chenopodium murale</i>                 | <i>Daucus carota</i>         |
| <i>Alternanthera caracasana</i>                    | <i>Chenopodium album</i>                  | <i>Foeniculum vulgare</i>    |
| <i>Alternanthera pungens</i>                       | <i>Chenopodium murale</i>                 | <i>Pastinaca sativa</i>      |
| <i>Amaranthus albus</i>                            | <i>Corispermum villosum</i>               | <i>Torilis arvensis</i>      |
| <i>Amaranthus blitoides</i>                        | <i>Dysphania ambrosioides</i>             | Apocynaceae                  |
| <i>Amaranthus orientalis</i>                       | <i>Dysphania botrys</i>                   | <i>Nerium oleander</i>       |
| <i>Amaranthus hybridus</i>                         | <i>Halogeton glomeratus</i>               | <i>Periploca graeca</i>      |
| <i>Amaranthus hypochondriacus</i>                  | <i>Oxybasis glauca</i> var. <i>glauca</i> | <i>Vinca major</i>           |
| <i>Amaranthus retroflexus</i>                      | <i>Oxybasis rubra</i> var. <i>rubra</i>   | <i>Vinca minor</i>           |
| <i>Amaranthus tuberculatus</i>                     | <i>Salsola collina</i>                    | Araliaceae                   |
| <i>Atriplex hortensis</i>                          | <i>Salsola paulsenii</i>                  | <i>Hedera helix</i>          |
| <i>Atriplex micrantha</i>                          | <i>Salsola tragus</i>                     | Asparagaceae                 |
| <i>Atriplex rosea</i>                              | Amaryllidaceae                            | <i>Asparagus officinalis</i> |
| <i>Atriplex semibaccata</i>                        | <i>Zephyranthes candida</i>               | Asphodelaceae                |
| <i>Bassia hyssopifolia</i>                         | Apiaceae                                  | <i>Asphodelus fistulosus</i> |
| <i>Bassia prostrata</i>                            | <i>Apium graveolens</i>                   | Asteraceae                   |
| <i>Bassia scoparia</i>                             | <i>Carum carvi</i>                        | <i>Anthemis cotula</i>       |
| <i>Blitum capitatum</i> subsp.<br><i>capitatum</i> | <i>Conium maculatum</i>                   | <i>Arctium minus</i>         |
| <i>Blitum virgatum</i>                             | <i>Coriandrum sativum</i>                 | <i>Artemisia biennis</i>     |
|  | <i>Cyclospermum leptophyllum</i>          | <i>Bidens bipinnata</i>      |

<i>Calyptocarpus nialis</i>	<i>Myosotis scorpioides</i>	<i>Campanula rapunculoides</i>
<i>Carduus acanthoides</i>	<i>Symphytum officinale</i>	Cannabaceae
<i>Carduus nutans</i>	Brassicaceae	<i>Cannabis sativa</i>
<i>Carthamus tinctorius</i>	<i>Alyssum alyssoides</i>	Caprifoliaceae
<i>Centaurea calcitrapa</i>	<i>Alyssum desertorum</i>	<i>Centranthus ruber</i>
<i>Centaurea cyanus</i>	<i>Alyssum simplex</i>	<i>Dipsacus fullonum</i>
<i>Centaurea diffusa</i>	<i>Armoracia rusticana</i>	<i>Lonicera bella</i>
<i>Centaurea melitensis</i>	<i>Barbarea vulgaris</i>	<i>Lonicera japonica</i>
<i>Centaurea solstitialis</i>	<i>Berteroa incana</i>	<i>Lonicera tatarica</i>
<i>Centaurea stoebe</i>	<i>Brassica juncea</i>	Caryophyllaceae
<i>Cichorium intybus</i>	<i>Brassica napus</i>	<i>Agrostemma githago</i>
<i>Cirsium arvense</i>	<i>Brassica nigra</i>	<i>Arenaria serpyllifolia</i>
<i>Cirsium vulgare</i>	<i>Brassica rapa</i>	<i>Cerastium fontanum</i>
<i>Coryza bonariensis</i>	<i>Brassica tournefortii</i>	<i>Cerastium glomeratum</i>
<i>Coryza canadensis</i> var. <i>canadensis</i>	<i>Camelina microcarpa</i>	<i>Dianthus armeria</i>
<i>Cosmos bipinnatus</i>	<i>Camelina rumelica</i>	<i>Dianthus barbatus</i>
<i>Cotula australis</i>	<i>Capsella bursa-pastoris</i>	<i>Gypsophila scorzonrifolia</i>
<i>Eclipta prostrata</i>	<i>Cardamine flexuosa</i>	<i>Saponaria officinalis</i>
<i>Erigeron strigosus</i>	<i>Cardamine hirsuta</i>	<i>Silene cseri</i>
<i>Galinsoga parviflora</i>	<i>Chorispora tenella</i>	<i>Silene noctiflora</i>
<i>Gazania linearis</i>	<i>Conringia orientalis</i>	<i>Silene vulgaris</i>
<i>Gnaphalium uliginosum</i>	<i>Descurainia sophia</i>	<i>Spergularia marina</i>
<i>Hedypnois cretica</i>	<i>Diplotaxis muralis</i>	<i>Spergularia rubra</i>
<i>Hieracium</i> × <i>floribundum</i>	<i>Diplotaxis tenuifolia</i>	<i>Stellaria media</i>
<i>Hypochaeris radicata</i>	<i>Draba nemorosa</i>	<i>Stellaria pallida</i>
<i>Lactuca satigna</i>	<i>Eruca vesicaria</i>	<i>Vaccaria hispanica</i>
<i>Lactuca sativa</i>	<i>Erysimum cheiranthoides</i>	Cleomaceae
<i>Lactuca serriola</i>	<i>Erysimum repandum</i>	<i>Cleomeella obtusifolia</i>
<i>Lapsana communis</i>	<i>Hesperis matronalis</i>	Convolvulaceae
<i>Leontodon saxatilis</i>	<i>Hornungia procumbens</i>	<i>Convolvulus arvensis</i>
<i>Leucanthemum vulgare</i>	<i>Iberis umbellata</i>	<i>Cuscuta approximata</i>
<i>Onopordum acanthium</i>	<i>Isatis tinctoria</i>	<i>Cuscuta epithymum</i>
<i>Osteospermum spinescens</i>	<i>Lepidium appelianum</i>	<i>Dibondra micrantha</i>
<i>Pentzia incana</i>	<i>Lepidium campestre</i>	<i>Ipomoea hederacea</i>
<i>Pseudognaphalium luteoalbum</i>	<i>Lepidium chalcense</i>	<i>Ipomoea purpurea</i>
<i>Rhaponticum repens</i>	<i>Lepidium didymum</i>	Cucurbitaceae
<i>Scorzonera laciniata</i>	<i>Lepidium draba</i>	<i>Citrullus caffer</i>
<i>Senecio vulgaris</i>	<i>Lepidium latifolium</i>	<i>Citrullus lanatus</i>
<i>Silphium integrifolium</i>	<i>Lepidium perfoliatum</i>	<i>Cucumis melo</i>
<i>Silphium laciniatum</i>	<i>Lepidium ruderale</i>	<i>Cucumis myriocarpus</i>
<i>Silybum marianum</i>	<i>Lobularia maritima</i>	<i>Cucurbita pepo</i>
<i>Sonchus arvensis</i>	<i>Matthiola longipetala</i>	<i>Momordica balsamina</i>
<i>Sonchus asper</i>	<i>Nasturtium microphyllum</i>	Cyperaceae
<i>Sonchus oleraceus</i>	<i>Nasturtium officinale</i>	<i>Cyperus glomeratus</i>
<i>Symphytotrichum ciliatum</i>	<i>Raphanus raphanistrum</i>	<i>Cyperus micbelianus</i>
<i>Tanacetum vulgare</i>	<i>Raphanus sativus</i>	<i>Cyperus rotundus</i>
<i>Taraxacum erythrospermum</i>	<i>Rapistrum rugosum</i>	<i>Schoenus nigricans</i>
<i>Taraxacum officinale</i>	<i>Rorippa austriaca</i>	Elaeagnaceae
<i>Tragopogon dubius</i>	<i>Rorippa sylvestris</i>	<i>Elaeagnus angustifolia</i>
<i>Tragopogon porrifolius</i>	<i>Sinapis alba</i>	Elatinaceae
<i>Tragopogon pratensis</i>	<i>Sinapis arvensis</i>	<i>Elatine chilensis</i>
<i>Tripleurospermum inodorum</i>	<i>Sisymbrium altissimum</i>	Euphorbiaceae
Berberidaceae	<i>Sisymbrium irio</i>	<i>Euphorbia esula</i>
<i>Berberis aquifolium</i>	<i>Sisymbrium loeselii</i>	<i>Euphorbia graminea</i>
<i>Berberis vulgaris</i>	<i>Sisymbrium officinale</i>	<i>Euphorbia myrsinites</i>
Bignoniaceae	<i>Sisymbrium orientale</i>	<i>Euphorbia peplus</i>
<i>Campsis radicans</i>	<i>Strigosella africana</i>	<i>Euphorbia virgata</i>
<i>Catalpa speciosa</i>	<i>Thlaspi arvense</i>	Fabaceae
<i>Chitalpa</i> × <i>tashkentensis</i>	Cactaceae	<i>Albizia julibrissin</i>
Boraginaceae	<i>Cylindropuntia bigelovii</i>	<i>Albagi maurorum</i>
<i>Cynoglossum officinale</i>	<i>Cylindropuntia fulgida</i>	<i>Astragalus cicer</i>
<i>Lappula squarrosa</i>	<i>Opuntia microdasys</i>	<i>Caragana arborescens</i>
	Campanulaceae	<i>Colutea arborescens</i>

<i>Desmanthus leptolobus</i>	<i>Mentha × piperita</i>	Poaceae
<i>Erythrostemon gilliesii</i>	<i>Mentha × rotundifolia</i>	<i>Aegilops cylindrica</i>
<i>Gleditsia triacanthos</i>	<i>Mentha spicata</i>	<i>Agropyron cristatum</i>
<i>Kummerowia striata</i>	<i>Nepeta cataria</i>	<i>Agropyron fragile</i>
<i>Lathyrus hirsutus</i>	<i>Pereskia atriplicifolia</i>	<i>Agrostis gigantea</i>
<i>Lathyrus latifolius</i>	<i>Salvia azurea</i>	<i>Agrostis stolonifera</i>
<i>Lathyrus venosus</i>	<i>Salvia pratensis</i>	<i>Aira caryophylla</i> var. <i>capillaris</i>
<i>Lespedeza cuneata</i>	<i>Vitex agnus-castus</i>	<i>Alopecurus geniculatus</i>
<i>Lotus corniculatus</i>	Linaceae	<i>Alopecurus myosuroides</i>
<i>Medicago lupulina</i>	<i>Linum usitatissimum</i>	<i>Alopecurus pratensis</i>
<i>Medicago minima</i>	Lythraceae	<i>Anthoxanthum odoratum</i>
<i>Medicago polymorpha</i>	<i>Lythrum salicaria</i>	<i>Apera interrupta</i>
<i>Medicago sativa</i>	Malvaceae	<i>Aristida oligantha</i>
<i>Melilotus albus</i>	<i>Abutilon theophrasti</i>	<i>Arrhenatherum elatius</i>
<i>Melilotus indicus</i>	<i>Aleca rosea</i>	<i>Arundo donax</i>
<i>Melilotus officinalis</i>	<i>Callirhoë alcaeoides</i>	<i>Avena barbata</i>
<i>Mimosa nuttallii</i>	<i>Gossypium hirsutum</i>	<i>Avena fatua</i>
<i>Onobrychis vicifolia</i>	<i>Hibiscus trionum</i>	<i>Avena sativa</i>
<i>Parkinsonia aculeata</i>	<i>Malva neglecta</i>	<i>Bothriochloa bladbii</i>
<i>Phaseolus vulgaris</i>	<i>Malva parviflora</i>	<i>Bothriochloa ischaemum</i>
<i>Robinia hispida</i>	<i>Malva sylvestris</i>	<i>Briza maxima</i>
<i>Robinia pseudoacacia</i>	<i>Malva verticillata</i>	<i>Briza minor</i>
<i>Securigera varia</i>	<i>Sida abutilifolia</i>	<i>Bromus briziformis</i>
<i>Sphaerophysa salsula</i>	Meliaceae	<i>Bromus catharticus</i>
<i>Strophostyles belvula</i>	<i>Melia azedarach</i>	<i>Bromus diandrus</i>
<i>Trifolium campestris</i>	Molluginaceae	<i>Bromus inermis</i>
<i>Trifolium dubium</i>	<i>Mollugo cerviana</i>	<i>Bromus madritensis</i> subsp. <i>rubens</i>
<i>Trifolium fragiferum</i>	Moraceae	<i>Bromus squarrosus</i>
<i>Trifolium hybridum</i>	<i>Ficus carica</i>	<i>Bromus sterilis</i>
<i>Trifolium pratense</i>	<i>Maclura pomifera</i>	<i>Bromus tectorum</i>
<i>Trifolium repens</i>	<i>Morus alba</i>	<i>Catapodium rigidum</i>
<i>Vicia sativa</i>	Nitrariaceae	<i>Cenchrus echinatus</i>
<i>Vicia villosa</i>	<i>Peganum barmala</i>	<i>Chloris submutica</i>
Frankeniaceae	Nymphaeaceae	<i>Cynodon dactylon</i>
<i>Frankenia pulverulenta</i>	<i>Nymphaea mexicana</i>	<i>Cynosurus echinatus</i>
Gentianaceae	<i>Nymphaea odorata</i>	<i>Dactylis glomerata</i>
<i>Sabatia angularis</i>	Oleaceae	<i>Dactyloctenium aegyptium</i>
<i>Sabatia campestris</i>	<i>Fraxinus pennsylvanica</i>	<i>Deschampsia danthonioides</i>
Geraniaceae	<i>Ligustrum vulgare</i>	<i>Digitaria ciliaris</i>
<i>Erodium cicutarium</i>	<i>Syringa vulgaris</i>	<i>Digitaria ischaemum</i>
<i>Geranium pusillum</i>	Onagraceae	<i>Digitaria sanguinalis</i>
Haloragaceae	<i>Ludwigia peploides</i>	<i>Echinochloa colona</i>
<i>Myriophyllum aquaticum</i>	<i>Oenothera biennis</i>	<i>Echinochloa crus-galli</i>
<i>Myriophyllum spicatum</i>	<i>Oenothera speciosa</i>	<i>Eileusine indica</i>
Hemerocallidaceae	Orchidaceae	<i>Elymus hispidus</i>
<i>Hemerocallis fulva</i>	<i>Epipactis bellaborine</i>	<i>Elymus hystrix</i>
Hydrocharitaceae	Papaveraceae	<i>Elymus ponticus</i>
<i>Egeria densa</i>	<i>Papaver dubium</i>	<i>Elymus repens</i>
<i>Hydrilla verticillata</i>	<i>Papaver rhoeas</i>	<i>Elymus villosus</i>
Hypericaceae	<i>Papaver somniferum</i>	<i>Eragrostis barrelieri</i>
<i>Hypericum perforatum</i>	Plantaginaceae	<i>Eragrostis cilianensis</i>
Iridaceae	<i>Linaria dalmatica</i>	<i>Eragrostis curvula</i>
<i>Iris pseudacorus</i>	<i>Linaria vulgaris</i>	<i>Eragrostis frankii</i>
Juglandaceae	<i>Penstemon cobaea</i>	<i>Eragrostis lehmanniana</i>
<i>Juglans nigra</i>	<i>Penstemon palmeri</i>	<i>Eragrostis superba</i>
Juncaceae	<i>Penstemon parryi</i>	<i>Eremopyrum triticum</i>
<i>Juncus compressus</i>	<i>Plantago lanceolata</i>	<i>Festuca trachyphylla</i>
<i>Juncus diffusissimus</i>	<i>Plantago major</i>	<i>Hierochloa odorata</i>
Lamiaceae	<i>Veronica anagallis-aquatica</i>	<i>Hilaria rigida</i>
<i>Lamium amplexicaule</i>	<i>Veronica arvensis</i>	<i>Holcus lanatus</i>
<i>Lamium purpureum</i>	<i>Veronica persica</i>	<i>Hordeum murinum</i>
<i>Leonurus cardiaca</i>	<i>Veronica polita</i>	<i>Hordeum vulgare</i>
<i>Marrubium vulgare</i>	<i>Veronica serpyllifolia</i>	

<i>Lagurus ovatus</i>	× <i>Triticosecale</i>	Salicaceae
<i>Leymus cinereus</i>	<i>Triticum aestivum</i>	<i>Populus alba</i>
<i>Leymus racemosus</i>	<i>Urochloa panicoides</i>	<i>Populus nigra</i>
<i>Lolium perenne</i>	<i>Vulpia bromoides</i>	<i>Salix babylonica</i>
<i>Lolium temulentum</i>	<i>Vulpia myuros</i>	<i>Salix fragilis</i>
<i>Melinis repens</i>	<i>Zea mays</i>	Salviniaceae
<i>Mnesithea granulata</i>	Polemoniaceae	<i>Salvinia minima</i>
<i>Panicum amarum</i>	<i>Gilia capitata</i>	Sapindaceae
<i>Panicum antidotale</i>	Polygonaceae	<i>Acer saccharinum</i>
<i>Panicum coloratum</i>	<i>Fagopyrum esculentum</i>	Scrophulariaceae
<i>Panicum dichotomiflorum</i>	<i>Fallopia baldschuanica</i>	<i>Buddleia alternifolia</i>
<i>Panicum miliaceum</i>	<i>Fallopia convolvulus</i>	<i>Verbascum blattaria</i>
<i>Paspalum dilatatum</i>	<i>Persicaria hydrophiper</i>	<i>Verbascum thapsus</i>
<i>Pennisetum ciliare</i>	<i>Persicaria maculosa</i>	<i>Verbascum virgatum</i>
<i>Pennisetum setaceum</i>	<i>Polygonum argyrocoleon</i>	Simaroubaceae
<i>Pennisetum villosum</i>	<i>Polygonum aviculare</i>	<i>Ailanthus altissima</i>
<i>Phalaris angusta</i>	<i>Rumex acetosella</i>	Solanaceae
<i>Phalaris canariensis</i>	<i>Rumex crispus</i>	<i>Calibrachoa parviflora</i>
<i>Phalaris minor</i>	<i>Rumex obtusifolius</i>	<i>Datura ceratocaula</i>
<i>Phleum pratense</i>	<i>Rumex pulcher</i>	<i>Datura innoxia</i>
<i>Phragmites australis</i>	<i>Rumex stenophyllus</i>	<i>Datura stramonium</i>
<i>Poa annua</i>	Portulacaceae	<i>Hyoscyamus niger</i>
<i>Poa arachnifera</i>	<i>Portulaca grandiflora</i>	<i>Lycium barbarum</i>
<i>Poa bulbosa</i>	<i>Portulaca oleracea</i>	<i>Nicotiana glauca</i>
<i>Poa compressa</i>	Potamogetonaceae	<i>Physalis exocarpa</i>
<i>Poa pratensis</i>	<i>Potamogeton crispus</i>	<i>Physalis philadelphica</i>
<i>Poa trivialis</i>	Primulaceae	<i>Solanum carolinense</i>
<i>Polygogon interruptus</i>	<i>Lysimachia arvensis</i>	<i>Solanum dimidiatum</i>
<i>Polygogon maritimus</i>	Ranunculaceae	<i>Solanum dulcamara</i>
<i>Polygogon monspeliensis</i>	<i>Ceratocephala testiculata</i>	<i>Solanum physalifolium</i>
<i>Polygogon viridis</i>	<i>Clematis orientalis</i>	Tamaricaceae
<i>Psathyrostachys juncea</i>	<i>Consolida ajacis</i>	<i>Tamarix chinensis</i>
<i>Puccinellia distans</i>	<i>Ranunculus acris</i>	<i>Tamarix gallica</i>
<i>Schedonorus arundinaceus</i>	<i>Ranunculus repens</i>	<i>Tamarix parviflora</i>
<i>Schedonorus pratensis</i>	Rosaceae	Typhaceae
<i>Schismus barbatus</i>	<i>Agrimonia parviflora</i>	<i>Typha angustifolia</i>
<i>Sclerochloa dura</i>	<i>Alchemilla monticola</i>	Ulmaceae
<i>Secale cereale</i>	<i>Malus domestica</i>	<i>Ulmus pumila</i>
<i>Setaria adhaerens</i>	<i>Malus ionensis</i>	Urticaceae
<i>Setaria italica</i>	<i>Potentilla recta</i>	<i>Urtica urens</i>
<i>Setaria magna</i>	<i>Poterium sanguisorba</i>	Verbenaceae
<i>Setaria pumila</i>	<i>Prunus armeniaca</i>	<i>Glandularia aristigera</i>
<i>Setaria verticillata</i>	<i>Prunus avium</i>	<i>Glandularia canadensis</i>
<i>Setaria viridis</i>	<i>Prunus cerasus</i>	<i>Phyla fruticosa</i>
<i>Sorghum bicolor</i>	<i>Prunus mahaleb</i>	Viburnaceae
<i>Sorghum halepense</i>	<i>Prunus persica</i>	<i>Viburnum lantana</i>
<i>Sporobolus alopecuroides</i>	<i>Pyracantha coccinea</i> Roemer	Violaceae
<i>Sporobolus neglectus</i>	<i>Pyrus communis</i>	<i>Viola tricolor</i>
<i>Sporobolus schoenoides</i>	<i>Rosa canina</i>	Vitaceae
<i>Sporobolus vaginiflorus</i>	<i>Rosa ×harisonii</i>	<i>Parthenocissus quinquefolia</i>
<i>Steinchisma bians</i>	<i>Rosa multiflora</i>	Zygophyllaceae
<i>Tragus berteronianus</i>	<i>Rosa obtusifolia</i>	<i>Tribulus terrestris</i>
<i>Tridens flavus</i>	<i>Rubus bifrons</i>	<i>Zygophyllum fabago</i>
<i>Tripidium ravennae</i>	Rubiaceae	
<i>Triplasiella eragrostoides</i>	<i>Galium aparine</i>	

## NOXIOUS WEEDS OF NEW MEXICO

[Lee, R.D. 1999. New Mexico's Invasive Weeds. New Mexico State University Cooperative Extension Service.]

Class A: Exotic, with limited distribution within the state.

Class B: Exotic, known from more widespread areas in the state.

Class C: Exotic, widespread within the state.

Scientific Name	Common Name	State Status
1. <i>Acroptilon repens</i>	Russian knapweed	B
2. <i>Aegilops cylindrica</i>	jointed goatgrass	C
3. <i>Alhagi maurorum</i>	Camelthorn	A
4. <i>Asphodelus fistulosus</i>	Onionweed	A
5. <i>Carduus nutans</i>	musk thistle	B
6. <i>Centaurea calcitrapa</i>	purple starthistle	A
7. <i>Centaurea diffusa</i>	diffuse knapweed	A
8. <i>Centaurea melitensis</i>	Malta starthistle	B
9. <i>Centaurea solstitialis</i>	yellow starthistle	A
10. <i>Centaurea stoebe</i> subsp. <i>micranthos</i>	spotted knapweed	A
11. <i>Cirsium arvense</i>	Canada thistle	A
12. <i>Cirsium vulgare</i>	bull thistle	B
13. <i>Conium maculatum</i>	poison hemlock	B
14. <i>Convolvulus arvensis</i>	field bindweed	C
15. <i>Dipsacus fullonum</i>	teasel	B
16. <i>Elaeagnus angustifolia</i>	Russian olive	C
17. <i>Euphorbia esula</i>	leafy spurge	A
18. <i>Halogeton glomeratus</i>	halogeton	B
19. <i>Hyoscyamus niger</i>	black henbane	A
20. <i>Isatis tinctoria</i>	dyer's woad	A
21. <i>Lepidium draba</i>	hoary cress	A
22. <i>Lepidium latifolium</i>	perennial pepperweed	A
23. <i>Linaria dalmatica</i>	Dalmatian toadflax	A
24. <i>Linaria vulgaris</i>	yellow toadflax	A
25. <i>Lythrum salicaria</i>	purple loosestrife	A
26. <i>Myriophyllum spicatum</i>	Eurasian watermilfoil	A
27. <i>Onopordum acanthium</i>	Scotch thistle	A
28. <i>Peganum harmala</i>	African rue	B
29. <i>Tamarix chinensis</i>	saltcedar	C
30. <i>Ulmus pumila</i>	Siberian elm	C

### STATE PLANT SYMBOLS

State Flower:	<i>Yucca</i> , without designation of species.
State Tree:	piñon pine ( <i>Pinus edulis</i> ).
State Grass:	blue grama ( <i>Bouteloua gracilis</i> ).
State Vegetables:	chile ( <i>Capsicum annuum</i> ) and frijoles (refried <i>Phaseolus vulgaris</i> ).
State Question:	“Red or green?” (If you have to ask, then you haven’t lived long enough in The Land of Enchantment!)



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Many, many people have made this work possible. I have simply been the “keeper of the list,” a compiler of the efforts of others. All the botanists of New Mexico, amateur and professional, are the real authors of this small work, and I extend to you all my earnest thanks and gratitude.

The earliest version of this work was compiled largely by Eric H. Roalson, while a graduate student in Range Science at New Mexico State University. It was published in 1995 as “A Working Index of New Mexico Vascular Plant Names” (Roalson & Allred 1995). Eric’s tireless work was a great beginning to an endeavor that has continued from that time to the present. Early-on, in an effort to keep up with accumulating corrections and additions, several “supplements” to the Working Index were assembled and distributed, but that soon became unmanageable, as the number of changes (some major, some trivial) ran to the hundreds, and eventually, thousands. The Working Index then was kept as an ever-changing word-processing document at the Range Science Herbarium (NMCR) at New Mexico State University, with limited updated drafts distributed at infrequent intervals and also posted on the internet.

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I happily acknowledge and give credit to the authors of two preceding manuals of the flora of New Mexico: E.O. Wootton and Paul C. Standley for “Flora of New Mexico” (1915), and William C. Martin and C. Robert Hutchins for “A Flora of New Mexico” (1980, 1981). These works stand as monuments of accomplishment, from which all succeeding botanical pursuits in New Mexico derive benefit, direction, and inspiration.

This work, and all others like it, rests upon the raw data of vouchered plant collections, which are assembled, maintained, managed, and made available by under-staffed and under-funded curators, directors, and staff at all of the state's herbaria. They have been uniformly generous and helpful in allowing me access to their collections, in sending me specimens for examination, and in putting up with my frequent requests to "please check this label for me, just one more time!" I acknowledge and thank them all: Rocky Mountain Forest and Range Experiment Station Herbarium (ALBU); Natural History Museum Herbarium at Eastern New Mexico University; Biology Herbarium (NMC) at New Mexico State University; Range Science Herbarium (NMCR) at New Mexico State University; San Juan College Herbarium (SJNM); Dale A. Zimmerman Herbarium (SNM) at Western New Mexico University; and University of New Mexico Herbarium (UNM).

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## PART II: THE ANNOTATED CHECKLIST

### SCOPE

**I HAVE ATTEMPTED TO INCLUDE** in this checklist all the scientific names that have been used for New Mexico vascular plants. These plants include the quillworts, clubmosses, spikemosses, ferns and fern allies, horsetails, gymnosperms (conifers), and angiosperms (flowering plants). They do not include true mosses, liverworts, hornworts, fungi, lichens, or algae.

I have tried to include in the checklist any and all vascular plant names that have been listed or referenced for New Mexico. Upon inspection, some of these turn out to be the result of misidentifications, many are nomenclatural synonyms, some are errors in application of the name, and the rest remain valid, accepted names for New Mexico plants. All of these sorts of names should be found herein, with their current and correct disposition. The checklist contains well more than 10,000 such names.

Of course, a work such as this is forever unfinished. New plants continue to be found within the state, old names are discovered in the literature, lost or forgotten specimens reappear in herbaria, and taxonomic monographs and revisions alter our concepts and nomenclature. All this contributes to an ever-being-corrected master list of plant names for New Mexico, with the hope that the benefits from the improvements overshadow the frustrations from the changes.

The first edition of **FLORA NEOMEXICANA I** was published in December 2008; the second edition in 2012; and now this third edition (2020), contains additions to the flora, deletions when it is found that earlier reports were incorrect, nomenclatural corrections, and corrections or adjustments to the classifications used for families, genera, and species.

Other volumes of the **FLORA NEOMEXICANA** series include a glossary of the scientific epithets (volume **II**) and an illustrated identification manual of the vascular plants (volume **III**). It is anticipated that a treatment of the mosses of the state will comprise a future volume **IV**.

### ORGANIZATION

For convenience of use, the annotated checklist is organized first by major groups, then alphabetically by family, genus, and species within each group. The **SPORE PLANTS** will be found first, composed of the **Lycophytes** (quillworts, clubmosses, and spikemosses) and the **Monilophytes** (ferns and horsetails). Following this are the **SEED PLANTS**, composed of the **gymnosperms** and the

**angiosperms**, which are subdivided into **monocotyledonous plants** (Monocots) and **dicotyledonous plants** (Eudicots and other non-monocots). Recent systematic studies of vascular plants (see Judd et al. 2016) have reorganized and recircumscribed the traditional higher categories, and I have tried to integrate the broad outlines of this newer phylogenetic classification into a practical and simplified presentation here. A summary of the current phylogenetic classification of New Mexico vascular plants is presented at the end of this section.

Within each family, the checklist functions as an index, as follows:

- **Accepted names** for plants that occur in New Mexico are in ***bold-italic***.
- COMMON (ENGLISH) NAMES are in ALL CAPS, and are provided for most genera and for occasional species where genuine common names are in use. Obviously contrived English names, so often ludicrous and unattractive, are omitted and not promulgated herein. It is nonsensical to duplicate our long-standing and effective binomial system of scientific nomenclature with a parallel and artificial English-language hierarchy.
- *Synonyms* are in *italics*, but not bolded, and in a slightly smaller font. The current disposition of *synonyms* will be indicated by an = sign, and the synonym will be repeated under the accepted name. When the accepted name is not the basionym, I provide the basionym as one of the synonyms.
- Names that have been **misapplied** or names of plants that do not occur in New Mexico or are **unverified** are in **regular type** (without emphasis, not bolded nor in italics), and also in a slightly smaller font. Unverified or misapplied names will be followed by a colon, then a note explaining the particular situation for that name.
- Names of **\*exotic plants** are preceded by an asterisk (\*).
- Names of plants **+endemic** to New Mexico are preceded by a plus sign (+).
- Names of **×hybrid** plants or hybrid populations that have been given formal taxonomic status are preceded by an ×.
- Following each family name, the number of genera, species, and total taxa will be given [in brackets]. After each genus name will be the following: [etymology in brackets], COMMON NAME in all upper case, and [number of species in New Mexico in brackets].
- References that document the occurrence of a plant taxon in New Mexico are in [brackets] following the name. The complete bibliographic citation will be found listed beneath the genus. The

following two works are baseline to all subsequent efforts, and are abbreviated as follows:

- W&S = Wooton, E.O. & P.C. Standley. 1915. Flora of New Mexico. Contr. U.S. Natl. Herb. 19:1-794.
- M&H = Martin, W.C. & C.R. Hutchins. 1980, 1981. A Flora of New Mexico. 2 Vols. Vaduz, West Germany, J. Cramer. 1276 pp.

In addition, this work is abbreviated as follows in the reference citations:

- FNM I = this work, which reports 77 new taxa for the state

An explanation of the use of *ex* and *in* is appropriate. When a publishing author of a name ascribes the origin of the name to another person, that person may be cited after the epithet, followed by *ex*, followed by the name of the publishing author. For example, Humboldt & Bonpland coined the name *Aristida divaricata* for our poverty threawn, but never validly published the name. Willdenow adopted that name for the same taxon, acknowledging Humboldt & Bonpland in his description. Hence, the full citation of authorities is *Aristida divaricata* Humboldt & Bonpland *ex* Willdenow. The name may be shortened to *Aristida divaricata* Willdenow, and still be correct. Note that it is the names before the *ex* that may be dropped, not the names after (this is counter-intuitive for English speakers).

If a plant name is validly published by one author within a larger work of another, then the term *in* may be used to explain the situation. For example, Englemann described the cactus *Cereus pectinatus* within Gray's *Plantae Fendlerianae*. Since Gray had no involvement with the description of the name, the correct citation is *Cereus pectinatus* Englemann *in* Gray, or more simply, *Cereus pectinatus* Englemann.

# OUTLINE OF THE CLASSIFICATION OF NEW MEXICO VASCULAR PLANT FAMILIES

[adapted from Judd et al. 2016]

## SPORE PLANTS

- Lycophytes – Lycopodiophyta
  - Division
    - Isoetaceae
    - Lycopodiaceae
    - Selaginellaceae
- Monilophytes – Polypodiophyta
  - Division
    - Aspleniaceae
    - Athyriaceae
    - Cystopteridaceae
    - Dennstaedtiaceae
    - Dryopteridaceae
    - Equisetaceae
    - Marsileaceae
    - Ophioglossaceae
    - Polypodiaceae
    - Pteridaceae
    - Salviniaceae
    - Woodsiaceae

## SEED PLANTS

- Gymnosperms – Pinophyta Division
  - Cupressaceae
  - Ephedraceae
  - Pinaceae
- Angiosperms – Magnoliophyta
  - Division
    - Monocotyledonous Plants
      - All traditional monocot families
    - Dicotyledonous Plants
      - ANA Grade
        - Nymphaeaceae
      - Magnoliids
        - Aristolochiaceae
        - Saururaceae
      - Ceratophyllaceae
      - Eudicots
        - All other traditional dicot families

## STATISTICAL SUMMARY OF THE FLORA

Group	Families	Genera	Species	Infraspecific Taxa	Total Taxa
Lycophytes	3	4	15	1	16
Ferns	12	27	75	3	78
Gymnosperms	3	7	29	1	30
Monocotyledonous Plants	26	206	766	62	828
Dicotyledonous Plants	115	830	2932	295	3232
<b>Totals</b>	<b>159</b>	<b>1074</b>	<b>3817</b>	<b>362</b>	<b>4184</b>

Spore Plants: Lycophytes				
Families	Genera	Species	Infraspecific Taxa	Total Taxa
1. Isoëtaceae	1	1	0	1
2. Lycopodiaceae	2	3	0	3
3. Selaginellaceae	1	11	1	12
<b>Totals</b>	<b>4</b>	<b>15</b>	<b>1</b>	<b>16</b>

Spore Plants: Ferns				
Families	Genera	Species	Infraspecific Taxa	Total Taxa
1. Aspleniaceae	1	4	0	4
2. Athyriaceae	1	1	0	1
3. Cystopteridaceae	2	5	0	5
4. Dennstaedtiaceae	1	1	0	1
5. Dryopteridaceae	3	3	0	3
6. Equisetaceae	1	6	0	6



7. Ophioglossaceae	4	13	0	13
8. Marsileaceae	1	1	0	1
9. Polypodiaceae	1	2	0	2
10. Pteridaceae	9	31	3	34
11. Salviniaceae	2	3	0	3
12. Woodsiaceae	1	5	0	5
Totals	27	75	3	78

Gymnosperms				
Families	Genera	Species	Infraspecific Taxa	Total Taxa
1. Cupressaceae	2	8	0	8
2. Ephedraceae	1	6	0	6
3. Pinaceae	4	15	1	16
Totals	7	29	1	30

Monocotyledonous Plants				
Families	Genera	Species	Infraspecific Taxa	Total Taxa
1. Agavaceae	4	18	3	21
2. Alismataceae	3	9	0	9
3. Alliaceae	2	13	1	14
4. Amaryllidaceae	1	2	0	2
5. Araceae	2	10	0	10
6. Asparagaceae	1	1	0	1
7. Asphodelaceae	1	1	0	1
8. Bromeliaceae	1	1	0	1
9. Commelinaceae	2	5	1	6
10. Cyperaceae	13	154	2	156
11. Hemerocallidaceae	1	1	0	1
12. Hydrocharitaceae	4	7	0	7
13. Hypoxidaceae	1	1	0	1
14. Iridaceae	2	8	0	8
15. Juncaceae	2	28	1	29
16. Juncaginaceae	1	2	0	2
17. Liliaceae	7	11	1	12
18. Melanthiaceae	4	7	0	7
19. Orchidaceae	14	32	3	35
20. Poaceae	125	418	48	466
21. Pontederiaceae	1	2	0	2
22. Potamogetonaceae	3	15	2	17
23. Ruppiaceae	1	1	0	1
24. Ruscaceae	4	8	0	8
25. Themidaceae	4	4	0	4
26. Typhaceae	2	7	0	7
Totals	206	766	62	828

Dicotyledonous Plants (Eudicots + non-monocots)				
Families	Genera	Species	Infraspecific Taxa	Total Taxa
1. Acanthaceae	8	10	2	12
2. Aizoaceae	2	2	0	2
3. Amaranthaceae	27	98	10	108
4. Anacampserotaceae	1	1	0	1
5. Anacardiaceae	2	7	1	8
6. Apiaceae	35	72	1	73
7. Apocynaceae	11	45	1	46

8. Apodanthaceae	1	1	0	1
9. Araliaceae	3	3	0	3
10. Aristolochiaceae	1	2	0	2
11. Asteraceae	187	617	100	717
12. Berberidaceae	1	7	0	7
13. Betulaceae	3	5	0	5
14. Bignoniaceae	5	5	1	6
15. Boraginaceae	16	59	8	67
16. Brassicaceae	49	170	10	180
17. Cactaceae	17	64	8	72
18. Campanulaceae	4	9	1	10
19. Cannabaceae	3	6	0	6
20. Caprifoliaceae	6	20	0	20
21. Caryophyllaceae	19	68	1	69
22. Celastraceae	2	2	0	2
23. Ceratophyllaceae	1	1	0	1
24. Cistaceae	1	2	0	2
25. Cleomaceae	2	10	0	10
26. Cochlospermaceae	1	1	0	1
27. Comandraceae	1	1	1	2
28. Convolvulaceae	7	50	3	53
29. Cornaceae	1	2	0	2
30. Crassulaceae	4	9	2	11
31. Crossosomataceae	2	2	1	3
32. Cucurbitaceae	11	20	0	20
33. Ehretiaceae	1	4	0	4
34. Elaeagnaceae	2	3	0	3
35. Elatinaceae	2	6	0	6
36. Ericaceae	10	19	0	19
37. Euphorbiaceae	8	73	2	75
38. Fabaceae	61	274	53	327
39. Fagaceae	1	15	0	15
40. Fouquieriaceae	1	1	0	1
41. Frankeniaceae	1	2	0	2
42. Garryaceae	1	2	0	2
43. Gentianaceae	13	24	0	24
44. Geraniaceae	2	10	0	10
45. Grossulariaceae	1	12	0	12
46. Haloragaceae	1	5	0	5
47. Heliotropiaceae	2	4	1	5
48. Hydrangeaceae	4	5	2	7
49. Hydrophyllaceae	4	27	1	28
50. Hypericaceae	1	3	0	3
51. Juglandaceae	1	3	0	3
52. Koerberliniaceae	1	1	0	1
53. Krameriaceae	1	3	0	3
54. Lamiaceae	23	70	7	77
55. Lentibulariaceae	1	1	0	1
56. Linaceae	1	16	1	17
57. Linderniaceae	1	1	0	1
58. Loasaceae	2	24	2	26
59. Lythraceae	3	6	0	6
60. Malpighiaceae	2	2	0	2
61. Malvaceae	16	53	1	54
62. Martyniaceae	1	5	0	5
63. Meliaceae	1	1	0	1
64. Menyanthaceae	1	1	0	1
65. Molluginaceae	1	2	0	2

66. Montiaceae	6	16	1	17
67. Moraceae	3	4	0	4
68. Namaceae	1	6	0	6
69. Nitrariaceae	1	1	0	1
70. Nyctaginaceae	10	38	7	45
71. Nymphaeaceae	2	3	0	3
72. Oleaceae	5	10	1	11
73. Onagraceae	9	59	11	71
74. Orobanchaceae	9	46	2	48
75. Oxalidaceae	1	10	0	10
76. Papaveraceae	4	12	0	12
77. Parnassiaceae	1	2	0	2
78. Petiveriaceae	1	1	0	1
79. Phrymaceae	1	12	0	12
80. Phyllanthaceae	1	3	0	3
81. Phytolaccaceae	1	1	0	1
82. Plantaginaceae	16	80	9	89
83. Platanaceae	1	1	0	1
84. Plumbaginaceae	1	1	0	1
85. Polemoniaceae	11	54	8	66
86. Polygalaceae	4	12	1	13
87. Polygonaceae	10	86	7	93
88. Portulacaceae	1	6	2	8
89. Primulaceae	4	15	0	15
90. Ranunculaceae	16	62	4	66
91. Resedaceae	1	1	0	1
92. Rhamnaceae	7	14	0	14
93. Rosaceae	27	92	11	103
94. Rubiaceae	9	24	2	26
95. Rutaceae	3	3	0	3
96. Salicaceae	2	31	4	35
97. Sapindaceae	3	6	0	6
98. Sapotaceae	1	1	0	1
99. Sarcobataceae	1	1	0	1
100. Saururaceae	1	1	0	1
101. Saxifragaceae	7	25	0	25
102. Scrophulariaceae	5	13	0	13
103. Simaroubaceae	1	1	0	1
104. Simmondsiaceae	1	1	0	1
105. Solanaceae	9	47	0	47
106. Talinaceae	1	6	0	6
107. Tamaricaceae	1	3	0	3
108. Ulmaceae	1	1	0	1
109. Urticaceae	3	6	1	7
110. Verbenaceae	6	27	0	27
111. Viburnaceae	3	4	2	6
112. Violaceae	2	10	0	10
113. Viscaceae	2	11	1	12
114. Vitaceae	3	6	0	6
115. Zygophyllaceae	4	7	0	7
Totals	830	2932	295	3232

All families – sorted by total taxa				
Families	Genera	Species	Infraspecific Taxa	Total Taxa
1. Asteraceae	187	617	100	717
2. Poaceae	125	418	48	466
3. Fabaceae	61	274	53	327

4.	Brassicaceae	49	170	10	180
5.	Cyperaceae	13	154	2	156
6.	Amaranthaceae	27	98	10	108
7.	Rosaceae	27	92	11	103
8.	Polygonaceae	10	86	7	93
9.	Plantaginaceae	16	80	9	89
10.	Lamiaceae	23	70	7	77
11.	Euphorbiaceae	8	73	2	75
12.	Apiaceae	35	72	1	73
13.	Cactaceae	17	64	8	72
14.	Onagraceae	9	59	11	71
15.	Caryophyllaceae	19	68	1	69
16.	Boraginaceae	16	59	8	67
17.	Polemoniaceae	11	54	8	66
18.	Ranunculaceae	16	62	4	66
19.	Malvaceae	16	53	1	54
20.	Convolvulaceae	7	50	3	53
21.	Orobanchaceae	9	46	2	48
22.	Solanaceae	9	47	0	47
23.	Apocynaceae	11	45	1	46
24.	Nyctaginaceae	10	38	7	45
25.	Orchidaceae	14	32	3	35
26.	Salicaceae	2	31	4	35
27.	Pteridaceae	9	31	3	34
28.	Juncaceae	2	28	1	29
29.	Hydrophyllaceae	4	27	1	28
30.	Verbenaceae	6	27	0	27
31.	Loasaceae	2	24	2	26
32.	Rubiaceae	9	24	2	26
33.	Gentianaceae	13	24	0	24
34.	Saxifragaceae?	7	25	0	25
35.	Agavaceae	4	18	3	21
36.	Caprifoliaceae	6	20	0	20
37.	Cucurbitaceae	11	20	0	20
38.	Ericaceae	10	19	0	19
39.	Potamogetonaceae	3	15	2	17
40.	Linaceae	1	16	1	17
41.	Montiaceae	6	16	1	17
42.	Pinaceae	4	15	1	16
43.	Fagaceae	1	15	0	15
44.	Primulaceae	4	15	0	15
45.	Alliaceae	2	13	1	14
46.	Rhamnaceae	7	14	0	14
47.	Ophioglossaceae	4	13	0	13
48.	Polygalaceae	4	12	1	13
49.	Scrophulariaceae	5	13	0	13
50.	Selaginellaceae	1	11	1	12
51.	Liliaceae	7	11	1	12
52.	Acanthaceae	8	10	2	12
53.	Grossulariaceae	1	12	0	12
54.	Phrymaceae	1	12	0	12
55.	Viscaceae	2	11	1	12
56.	Crassulaceae	4	9	2	11
57.	Oleaceae	5	10	1	11
58.	Papaveraceae	4	12	0	12
59.	Araceae	2	10	0	10
60.	Campanulaceae	4	9	1	10
61.	Cleomaceae	2	10	0	10

62.	Geraniaceae	2	10	0	10
63.	Oxalidaceae	1	10	0	10
64.	Violaceae	2	10	0	10
65.	Alismataceae	3	9	0	9
66.	Cupressaceae	2	8	0	8
67.	Iridaceae	2	8	0	8
68.	Ruscaceae	4	8	0	8
69.	Anacardiaceae	2	7	1	8
70.	Portulacaceae	1	6	2	8
71.	Hydrocharitaceae	4	7	0	7
72.	Melanthiaceae	4	7	0	7
73.	Typhaceae	2	7	0	7
74.	Berberidaceae	1	7	0	7
75.	Hydrangeaceae	4	5	2	7
76.	Urticaceae	3	6	1	7
77.	Zygophyllaceae	4	7	0	7
78.	Equisetaceae	1	6	0	6
79.	Ephedraceae	1	6	0	6
80.	Commelinaceae	2	5	1	6
81.	Bignoniaceae	5	5	1	6
82.	Cannabaceae	3	6	0	6
83.	Elatinaceae	2	6	0	6
84.	Lythraceae	3	6	0	6
85.	Namaceae	1	6	0	6
86.	Sapindaceae	3	6	0	6
87.	Talinaceae	1	6	0	6
88.	Viburnaceae	3	4	2	6
89.	Vitaceae	3	6	0	6
90.	Cystopteridaceae	2	5	0	5
91.	Woodsiaceae	1	5	0	5
92.	Betulaceae	3	5	0	5
93.	Haloragaceae	1	5	0	5
94.	Heliotropiaceae	2	4	1	5
95.	Martyniaceae	1	5	0	5
96.	Aspleniaceae	1	4	0	4
97.	Themidaceae	4	4	0	4
98.	Ehretiaceae	1	4	0	4
99.	Moraceae	3	4	0	4
100.	Lycopodiaceae	2	3	0	3
101.	Dryopteridaceae	3	3	0	3
102.	Salviniaceae	2	3	0	3
103.	Araliaceae	3	3	0	3
104.	Crossosomataceae	2	2	1	3
105.	Elaeagnaceae	2	3	0	3
106.	Hypericaceae	1	3	0	3
107.	Juglandaceae	1	3	0	3
108.	Krameriaceae	1	3	0	3
109.	Nymphaeaceae	2	3	0	3
110.	Phyllanthaceae	1	3	0	3
111.	Rutaceae	3	3	0	3
112.	Tamaricaceae	1	3	0	3
113.	Polypodiaceae	1	2	0	2
114.	Amarylidaceae	1	2	0	2
115.	Juncaginaceae	1	2	0	2
116.	Pontederiaceae	1	2	0	2
117.	Aizoaceae	2	2	0	2
118.	Aristolochiaceae	1	2	0	2
119.	Celastraceae	2	2	0	2

120. Cistaceae	1	2	0	2
121. Comandraceae	1	1	1	2
122. Cornaceae	1	2	0	2
123. Frankeniaceae	1	2	0	2
124. Garryaceae	1	2	0	2
125. Malpighiaceae	2	2	0	2
126. Molluginaceae	1	2	0	2
127. Parnassiaceae	1	2	0	2
128. Isoëtaceae	1	1	0	1
129. Athyriaceae	1	1	0	1
130. Dennstaedtiaceae	1	1	0	1
131. Marsileaceae	1	1	0	1
132. Asparagaceae	1	1	0	1
133. Asphodelaceae	1	1	0	1
134. Bromeliaceae	1	1	0	1
135. Hemerocallidaceae	1	1	0	1
136. Hypoxidaceae	1	1	0	1
137. Ruppiaceae	1	1	0	1
138. Anacampserotaceae	1	1	0	1
139. Apodanthaceae	1	1	0	1
140. Ceratophyllaceae	1	1	0	1
141. Cochlospermaceae	1	1	0	1
142. Fouquieriaceae	1	1	0	1
143. Koeberliniaceae	1	1	0	1
144. Lentibulariaceae	1	1	0	1
145. Linderniaceae	1	1	0	1
146. Meliaceae	1	1	0	1
147. Menyanthaceae	1	1	0	1
148. Nitrariaceae	1	1	0	1
149. Petiveriaceae	1	1	0	1
150. Phytolaccaceae	1	1	0	1
151. Platanaceae	1	1	0	1
152. Plumbaginaceae	1	1	0	1
153. Resedaceae	1	1	0	1
154. Sapotaceae	1	1	0	1
155. Sarcobataceae	1	1	0	1
156. Saururaceae	1	1	0	1
157. Simaroubaceae	1	1	0	1
158. Simmondsiaceae	1	1	0	1
159. Ulmaceae	1	1	0	1
Totals	1074	3817	362	4184

## THE FLORA

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## LYCOPHYTES

Dittmer, H.J., E.F. Castetter, &amp; O.M. Clark. 1954. The ferns and fern allies of New Mexico. Univ. New Mexico Publ. Biol. No. 6.

Pteridophyte Phylogeny Group. 2016. A community-derived classification for extant lycophytes and ferns. J. Syst. Evol. 54(6): 563-603.

## Family ISOETACEAE [1/1/1]

*Isoetes* quillwortKeeley, Jon E., Cindy M. Walker and R. Patrick Matthews. 1983. Crassulacean acid metabolism in *I. bolanderi* in high elevation oligotrophic lakes. Oecologia 58(1): 63-69

Taylor, W.C., N.T. Luebke, D.M. Britton, R.J. Hickey, &amp; D.F. Brunton. 1993. Isoetaceae, pp. 64-75. IN: Flora of North America, vol. 2. Oxford Univ. Press.

*bolanderi* Engelmann [M&H; Taylor et al. 1993]

## Family LYCOPODIACEAE [2/3/3]

*Huperzia* clubmossField, A.R., W. Testo, P.D. Bostock, J.A.M. Holtum, & M. Waycott. 2016. Molecular phylogenetics and the morphology of the Lycopodiaceae subfamily Huperzioidae supports three genera: *Huperzia*, *Phlegmariurus* and *Phylloglossum*. Mol. Phylogenet. Evol. 94(B): 635-657.Sivinski, R., T. Lowrey, & C. Keller. 1995. Additions to the floras of Colorado and New Mexico. Phytologia 79(5):319-324. [*Huperzia lucidula*]

Wagner, W.H., Jr. &amp; J.M. Beitel. 1993. Lycopodiaceae, pp. 18-37. IN: Flora of North America, vol. 2. Oxford Univ. Press.

*lucidula* (Michaux) Trevisan [Sivinski et al. 1995]*Lycopodium* club mossMickel, John T., Alan R. Smith & Ivan A. Valdespino. 2004. *Lycopodium*, p. 376. The Pteridophytes of Mexico, The New York Botanical Garden Press.Sivinski, R., T. Lowrey, & C. Keller. 1995. Additions to the floras of Colorado and New Mexico. Phytologia 79(5):319-324. [*Lycopodium clavatum*]

Wagner, W.H., Jr. &amp; J.M. Beitel. 1993. Lycopodiaceae, pp. 18-37. IN: Flora of North America, vol. 2. Oxford Univ. Press.

*annotinum* Linnaeus [M&H; Wagner & Beitel 1993]*Spinulum annotinum* (Linnaeus) A. Haines*clavatum* Linnaeus [Sivinski et al. 1995]*lepidophyllum* Hooker & Greville = *Selaginella lepidophylla* (Hooker & Greville) Spring*Spinulum annotinum* (Linnaeus) A. Haines = *Lycopodium annotinum* Linnaeus

## Family SELAGINELLACEAE [1/11/12]

*Selaginella* spikemoss

Valdespino, I.A. 1993. Selaginellaceae, pp. 38-63. IN: Flora of North America, vol. 2. Oxford Univ. Press. arizonica Maxon : Reported as expected by M&amp;H map; awaits verification.

- densa** Rydberg var. **densa** [Valdespino 1993; W&S]  
*densa* Rydberg var. *scopulorum* (Maxon) R. Tryon = *Selaginella scopulorum* Maxon  
*fendleri* Hieronymus (non Baker) = *Selaginella underwoodii* Hieronymus  
**lepidophylla** (Hooker & Greville) Spring [M&H; Valdespino 1993]  
*Lycopodium lepidophyllum* Hooker & Greville  
**mutica** D.C. Eaton ex Underwood var. **limitanea** Weatherby [M&H; Valdespino 1993]  
**mutica** D.C. Eaton ex Underwood var. **mutica** [M&H; Valdespino 1993; W&S]  
×**neomexicana** Maxon [M&H; Valdespino 1993]  
**peruviana** (Milde) Hieronymus [M&H; Valdespino 1993]  
*Selaginella rupestris* Linnaeus forma *peruviana* Milde  
**pilifera** A. Braun [M&H; Valdespino 1993]  
*Selaginella pringlei* Baker  
*Selaginella pilifera* A. Braun var. *pringlei* (Baker) Morton  
*pilifera* A. Braun var. *pringlei* (Baker) Morton = *Selaginella pilifera* A. Braun  
*pringlei* Baker = *Selaginella pilifera* A. Braun  
*rupestris* Linnaeus forma *peruviana* Milde = *Selaginella peruviana* (Milde) Hieronymus  
*rupestris* (Linnaeus) Spring var. *rupicola* (Underwood) Clute = *Selaginella rupicola* Underwood  
**rupicola** Underwood [M&H; Valdespino 1993; W&S]  
*Selaginella rupestris* (Linnaeus) Spring var. *rupicola* (Underwood) Clute  
**scopulorum** Maxon [M&H; Valdespino 1993]  
*Selaginella densa* Rydberg var. *scopulorum* (Maxon) R. Tryon  
**underwoodii** Hieronymus [M&H; Valdespino 1993; W&S]  
*Selaginella fendleri* Hieronymus (non Baker)  
**weatherbiana** R. Tryon [M&H; Valdespino 1993]  
**wrightii** Hieronymus [M&H; Valdespino 1993; W&S]



## MONILOPHYTES

Dittmer, H.J., E.F. Castetter, & O.M. Clark. 1954. The ferns and fern allies of New Mexico. Univ. New Mexico Publ. Biol. No. 6.

## Family ASPLENIACEAE [1/4/4]

**Asplenium** spleenwort

Alexander, P. 2006. Two ferns not occurring in New Mexico. The New Mexico Botanist 35:2. [*Asplenium palmeri*]

Bennert, W. & G. Fischer. 1993. Biosystematics and evolution of the *Asplenium trichomanes* complex. *Webbia* 48:743-760.

Mickel, John T., Alan R. Smith & Ivan A. Valdespino. 2004. *Asplenium*, pp. 72-127. The Pteridophytes of Mexico, The New York Botanical Garden Press.

Wagner, W.H. Jr., R.C. Moran, C.R. Werth. 1993. Aspleniaceae, pp. 228-245. IN: Flora of North America, vol.2. Oxford Univ. Press.

*palmeri* Maxon : Reported by M&H and Wagner & Moran (1993), but no validating specimens have been located; awaits verification [Alexander 2006].

***platyneuron*** (Linnaeus) Britton, Sterns, & Poggenburg [M&H; Wagner & Moran 1993]

***resiliens*** Kunze [M&H; W&S; Wagner & Moran 1993]

***scolopendrium*** Linnaeus var. ***americanum*** (Fernald) Kartesz & Gandhi

***septentrionale*** (Linnaeus) Hoffmann [M&H; W&S; Wagner & Moran 1993]

***trichomanes*** Linnaeus [Bennert & Fischer 1993; M&H; W&S; Wagner & Moran 1993]

## Family ATHYRIACEAE [1/1/1]

**Athyrium** lady-fern

Kato, M. 1993. *Athyrium*, pp. 255-258. IN: Flora of North America, vol. 2. Oxford Univ. Press.

***filix-femina*** (Linnaeus) Roth ex Mertens var. ***californicum*** Butters [Kato 1993; M&H; W&S]

*Polypodium filix-femina* Linnaeus

Family AZOLLACEAE = SALVINIACEAE

## Family CYSTOPTERIDACEAE [2/5/5]

**Cystopteris** bladder-fern

Haufler, C.H., R.C. Moran, & M.D. Windham. 1993. *Cystopteris*, pp. 263-270. IN: Flora of North America, vol. 2. Oxford Univ. Press.

Lellinger, D.B. 1985. A Field Manual of the Ferns & Fern-Allies of the United States & Canada. Smithsonian Institution Press. 389 pp. [*Cystopteris tenuis*]

Mickel, John T., Alan R. Smith & Ivan A. Valdespino. 2004. *Cystopteris*, pp. 240-241. The Pteridophytes of Mexico, The New York Botanical Garden Press.

***bulbifera*** (Linnaeus) Bernhardt [Haufler et al. 1993; M&H]

*Polypodium bulbiferum* Linnaeus

***fragilis*** (Linnaeus) Bernhardt [Haufler et al. 1993; M&H; W&S]

*Filix fragilis* (Linnaeus) Gilib

*Polypodium fragilis* Linnaeus

*fragilis* (Linnaeus) Bernhardt subsp. *tenuifolia* Clute = *Cystopteris reevesiana* Lellinger

***reevesiana*** Lellinger [Haufler et al. 1993; M&H]

*Cystopteris fragilis* (Linnaeus) Bernhardt subsp. *tenuifolia* Clute

***tenuis*** (Michaux) Desvaux [Lellinger 1985]

*Nephrodium tenue* Michaux

*utahensis* Windham & Haufler : Reported without documentation by Kartesz (1999); awaits verification.

*Filix fragilis* (Linnaeus) Gilib = *Cystopteris fragilis* (Linnaeus) Bernhardt

**Gymnocarpium** oak-fern

Pryor, K.M. 1993. *Gymnocarpium*, pp. 258-260. IN: Flora of North America, vol. 2. Oxford Univ. Press.

***dryopteris*** (Linnaeus) Newman [M&H; Pryor 1993]

*Dryopteris linnaeana* C. Christensen

*Polypodium dryopteris* Linnaeus

*Nephrodium tenue* Michaux = *Cystopteris tenuis* (Michaux) Desvaux

**Family DENNSTAEDTIACEAE** [1/1/1]

**Pteridium** bracken-fern

Jacobs, C.A. & J.H. Peck. *Pteridium*, pp. 201-203. IN: Flora of North America, vol. 2. Oxford Univ. Press.  
 Mickel, John T., Alan R. Smith & Ivan A. Valdespino. 2004. *Pteridium*, pp. 529-533. The Pteridophytes of Mexico, The New York Botanical Garden Press.

**aquilinum** (Linnaeus) Kuhn var. **pubescens** Underwood [Jacobs & Peck 1993; M&H; W&S]

*Pteris aquilina* Linnaeus

**Family DRYOPTERIDACEAE** [3/3/3]

[Athyriaceae]

*Aspidium aculeatum* (Linnaeus) Swartz var. *scopulinum* D. C. Eaton = *Polystichum scopulinum* (D.C. Eaton) Maxon

*Cyrtium auriculatum* (Underwood) C.V. Morton = *Phanerophlebia auriculata* Underwood

**Dryopteris** male-fern

Mickel, John T., Alan R. Smith & Ivan A. Valdespino. 2004. *Dryopteris*. The Pteridophytes of Mexico, The New York Botanical Garden Press. 274 pp.

Montgomery, J.D. & W.H. Wagner, Jr. 1993. *Dryopteris*, pp. 280-288. IN: Flora of North America, vol. 2. Oxford Univ. Press.

*disjuncta* (Ruprecht) Morton [=*Gymnocarpium disjuncta* (Ruprecht) Ching] : This name is incorrectly listed as a synonym of *Gymnocarpium dryopteris* (Linnaeus) Newman by M&H; the species is not known from NM [Montgomery & Wagner 1993].

*linnaeana* C. Christensen = *Gymnocarpium dryopteris* (Linnaeus) Newman

**filix-mas** (Linnaeus) Schott [M&H; Montgomery & Wagner 1993; W&S]

*Polypodium filix-mas* Linnaeus

**Phanerophlebia** veiny-fern

Mickel, John T., Alan R. Smith & Ivan A. Valdespino. 2004. *Phanerophlebia*, pp. 455-456. The Pteridophytes of Mexico, The New York Botanical Garden Press.

Yatskievych, G. 1993. *Phanerophlebia*, pp. 300-301. IN: Flora of North America, vol. 2. Oxford Univ. Press.

**auriculata** Underwood [M&H; W&S; Yatskievych 1993]

*Cyrtium auriculatum* (Underwood) C.V. Morton

**Polystichum** sword fern

Wagner, D.H. 1993. *Polystichum*. IN: Flora of North America, vol. 2. Oxford Univ. Press.

*lonchitis* (Linnaeus) Roth : Reported from northern NM by M&H, but Wagner (1993) shows the nearest location in southeastern Arizona; needs verification.

**scopulinum** (D.C. Eaton) Maxon [FNM I]

*Aspidium aculeatum* (Linnaeus) Swartz var. *scopulinum* D. C. Eaton

**Family EQUISETACEAE** [1/6/6]

**Equisetum** horsetail

Hartman, R.L., B. Reif, B.E. Nelson, & B. Jacobs. 2006. New vascular plant records for New Mexico. *Sida* 22(2):1225-1233. [*Equisetum nelsonii*]

Hauke, R.L. 1993. Equisetaceae, pp. 76-84. IN: Flora of North America, vol. 2. Oxford Univ. Press.

Heil, K.D. & S.L. O'Kane, Jr. 2003. Catalog of the Four Corners flora: Vascular plants of the San Juan River drainage, Arizona, Colorado, New Mexico and Utah. *Harvard Papers in Botany* 7(2):321-379. [*Equisetum variegatum*]

Mickel, John T., Alan R. Smith & Ivan A. Valdespino. 2004. *Equisetum*, pp. 317-319. The Pteridophytes of Mexico, The New York Botanical Garden Press.

**arvense** Linnaeus [Hauke 1993; M&H; W&S]

×**ferrissii** Clute [Hauke 1993]

**hyemale** Linnaeus subsp. **affine** (Engelmann) Calder & R.L. Taylor [Hauke 1993; M&H; W&S]

*Equisetum hyemale* Linnaeus var. **affine** (Engelmann) A.A. Eaton

*Equisetum robustum* A. Braun

*Equisetum robustum* A. Braun var. **affine** Engelmann

*hyemale* Linnaeus var. **affine** (Engelmann) A.A. Eaton = *Equisetum hyemale* Linnaeus subsp. **affine** (Engelmann) Calder & R.L. Taylor

*kansanum* Schaffner = *Equisetum laevigatum* A. Braun

**laevigatum** A. Braun [Hauke 1993; M&H; W&S]

- Equisetum kansanum* Schaffner  
 ×*nelsonii* (A.A. Eaton) J.H. Schaffner [Hartman et al. 2006]  
*Equisetum variegatum* Schleicher ex F. Weber & D. Mohr var.*nelsonii* A.A. Eaton  
 pratense Ehrhart : Reported by Heil & O’Kane (2003), but this species is known from Canada and the northeastern United States; needs verification.  
*robustum* A. Braun = *Equisetum hyemale* Linnaeus subsp. affine (Engelmann) Calder & R.L. Taylor  
*variegatum* Schleicher [Heil & O’Kane 2003]

### Family MARSILEACEAE [1/1/1]

#### **Marsilea** waterclover

- Johnson, D.M. 1993. Marsileaceae, pp. 331-335. IN: Flora of North America, vol. 2. Oxford Univ. Press.  
 Mickel, John T., Alan R. Smith & Ivan A. Valdespino. 2004. *Marsilea*, pp. 381-386. The Pteridophytes of Mexico, The New York Botanical Garden Press.  
 ancylopeda A. Braun : A specimens at NMC (Wagner 2307) is tentatively identified as this; awaits verification.  
*Marsilea mexicana* A. Braun  
*fournieri* C. Christensen = *Marsilea vestita* Hooker & Greville  
*mexicana* A. Braun = *Marsilea ancylopeda* A. Braun  
*minuta* Fournier = *Marsilea vestita* Hooker & Greville  
*mucronata* A. Braun = *Marsilea vestita* Hooker & Greville  
*vestita* Hooker & Greville [Johnson 1993; M&H; W&S]  
*Marsilea fournieri* C. Christensen  
*Marsilea minuta* Fournier, not Linnaeus  
*Marsilea mucronata* A. Braun

### Family OPHIOGLOSSACEAE [4/13/13]

- Farrar, D.R. & S.J. Popovich. 2010. Unpublished manuscript for a workshop of the Annual Meeting of the Native Plant Society of New Mexico, August 11-12, 2010, Silver City, New Mexico.  
 Farrar, D.R. & S.J. Popovich. 2012. Ophioglossaceae, pp. 24-35. IN: Weber, W.A. & R.C. Wittman. Colorado Flora, Western Slope, Fourth Edition. University Press of Colorado Press, Boulder.  
**Botrychium** moonwort  
 Dauphin, B, J. Vieu & J.R. Grant. 2014. Molecular phylogenetics supports widespread cryptic species in moonworts (*Botrychium* s.s., Ophioglossaceae). Amer. J. Bot. 101(1):128-140.  
 Dauphin, B, D.R. Farrar, A. Maccagni & J.R. Grant. 2017. A worldwide molecular phylogeny provides new insight on cryptic diversity within the moonworts (*Botrychium* s.s., Ophioglossaceae). Syst. Bot. 42(4):620-639.  
 Farrar, D.R. 2011. Systematics and taxonomy of the genus *Botrychium*. Website <http://www.public.iastate.edu/~herbarium/botrychium/Moonwort-Systematics>  
 Farrar, D.R. & A.V. Gilman. 2017. Relationships in the *Botrychium campestre* (ophioglossaceae) complex. Brittonia 69(3):265-275. [*B. campestre* var. *lineare*]  
 Farrar, D.R. & S.J. Popovich. 2010. Unpublished manuscript for a workshop of the Annual Meeting of the Native Plant Society of New Mexico, August 11-12, 2010, Silver City, New Mexico. [*Botrychium hesperium*, *B. lineare*, *B. "neolunaria," B. minganense*, *B. pinnatum*, *B. "furculatum"* (as *B. "redbank"*)]  
 Hauk, W.D., L. Kennedy, & H.M. Hawke. 2012. A phylogenetic investigation of *Botrychium* s.s., (Ophioglossaceae): evidence from three plastid DNA sequence datasets. Syst. Bot 37(2):320-330.  
 Heil, K. 2007. Plant distribution reports. The New Mexico Botanist 37:7. [*Botrychium campestre* var. *lineare*]  
 Isaacs, B. 1977. Native Plant Society of New Mexico News. Oct:1-2. [*Botrychium lunaria*]  
 Legler, B.S. 2010. Additions to the vascular flora of New Mexico. J. Bot. Res. Inst. Texas 4(2):777-784. [*Botrychium hesperium*, *B. lineare*, *B. minganense*, *B. multifidum*, *B. pinnatum*, *B. tunux*]  
 Lellinger, D.B. 1985. A Field Manual of the Ferns & Fern-Allies of the United States & Canada. Smithsonian Institution Press. 389 pp.  
 Spellenberg, R. 2004. Plant distribution reports. The New Mexico Botanist 29:7. [*Botrychium echo*]  
 Stensvold, M.C. & D.R. Farrar. 2017. Genetic diversity in the worldwide *Botrychium lunaria* (Ophioglossaceae) complex, with new species and new combinations. Brittonia 69(2): 148-175. [*B. neolunaria*]  
 Wagner, W.H., Jr. & F.S. Wagner. 1993. Ophioglossaceae, pp. 85-106. IN: Flora of North America, vol. 2. Oxford Univ. Press.  
*campestre* var. *lineare* (W.H. Wagner) D.R. Farrar [Farrar & Popovich 2010; Heil 2007; Legler 2010]  
*Botrychium lineare* W.H. Wagner

**echo** W.H. Wagner [Farrar & Popovich 2010; Spellenberg 2004]

**"furculatum"** ined. [Farrar & Popovich 2010, 2012]

**hesperium** (Maxon & R. T. Clausen) W.H. Wagner & Lellinger [Farrar & Popovich 2010; Legler 2010]

*Botrychium matricariifolium* A. Braun subsp. *hesperium* Maxon & Clausen

**lanceolatum** (S.G. Gmelin) Ångström [Farrar & Popovich 2010; Isaacs 1977; Wagner & Wagner 1993]

*Osmunda lanceolata* S.G. Gmelin

**lineare** W.H. Wagner = *Botrychium campestre* var. *lineare* (W.H. Wagner) D.R. Farrar  
*lunaria* (Linnaeus) Swartz : For North American plants, Farrar & Popovich (2010) restrict  
this name to populations in Alaska, Canada, and Greenland; our plants  
belong to *Botrychium neolunaria* Stensvold & Farrar

*Osmunda lunaria* Linnaeus

*matricariifolium* of NM reports = *Botrychium echo* W.H. Wagner

*matricariifolium* A. Braun subsp. *hesperium* Maxon & Clausen = *Botrychium hesperium*  
(Maxon & R. T. Clausen) W.H. Wagner & Lellinger

**minganense** Victorin [Farrar & Popovich 2010; Legler 2010]

*Botrychium lunaria* (Linnaeus) Swartz var. *minganense* (Victorin) Dole

**multifidum** (S.G. Gmelin) Trevisan = *Sceptridium multifidum* (S.G. Gmelin) M. Nashida ex  
Tagawa

**multifidum** (S.G. Gmelin) Trevisan subsp. *coulteri* (Underwood) Clausen = *Sceptridium*  
*multifidum* (S.G. Gmelin) M. Nashida ex Tagawa

**neolunaria** Stensvold & Farrar [Isaacs 1977; M&H; Stensvold & Farrar 2017]

**pinnatum** St. John [Farrar & Popovich 2010; Legler 2010]

**simplex** E. Hitchcock var. **simplex** [Farrar & Popovich 2010; Lellinger 1985; M&H]

**tunux** Stensvold & Farrar [Farrar & Popovich 2010; Legler 2010]

**virginianum** (Linnaeus) Swartz = *Botrypus virginianus* (Linnaeus) Michaux

**Botrypus** rattlesnake-fern

**virginianus** (Linnaeus) Michaux [Wagner & Wagner 1993]

*Botrychium virginianum* (Linnaeus) Swartz

*Osmunda virginiana* Linnaeus

**Ophioglossum** adder's-tongue

Wagner, W.H., Jr. & F.S. Wagner. 1993. Ophioglossaceae, pp. 85-106. IN: Flora of North America, vol. 2.  
Oxford Univ. Press.

**engelmannii** Prantl [Wagner & Wagner 1993]

**Sceptridium** moonwort

Farrar, D.R. & S.J. Popovich. 2010. Unpublished manuscript for a workshop of the Annual Meeting of the  
Native Plant Society of New Mexico, August 11-12, 2010, Silver City, New Mexico.

**multifidum** (S.G. Gmelin) M. Nashida ex Tagawa [Legler 2010]

*Botrychium multifidum* (S.G. Gmelin) Trevisan

*Botrychium multifidum* (S.G. Gmelin) Trevisan subsp. *coulteri* (Underwood)  
Clausen

#### Family OSMUNDACEAE

Whetstone, R.D. & T.A. Atkinson. 1993. Osmundaceae, pp. 107-109. IN: Flora of North America, vol. 2.  
Oxford Univ. Press.

*Osmunda cinnamomea* Linnaeus : Reported as expected by M&H, but occurring in east Texas  
and eastward [Whetstone & Atkinson 1993]; awaits verification.

**lanceolata** S.G. Gmelin = *Botrychium lanceolatum* (S.G. Gmelin) Ångström

**multifida** S.G. Gmelin = *Sceptridium multifidum* (S.G. Gmelin) M. Nashida ex Tagawa

**virginiana** Linnaeus = *Botrypus virginianus* (Linnaeus) Michaux

**lunaria** Linnaeus = *Botrychium lunaria* (Linnaeus) Swartz

#### Family POLYPODIACEAE [1/2/2]

*Adiantum*...go to PTERIDACEAE

*Asplenium*...go to ASPLENIACEAE

*Athyrium*...go to ATHYRIACEAE

*Bommeria*...go to PTERIDACEAE

*Cheilanthes*...go to PTERIDACEAE

*Cryptogramma*...go to PTERIDACEAE

*Cystopteris*...go to CYSTOPTERIDACEAE

*Dryopteris*...go to DRYOPTERIDACEAE

*Gymnocarpium*...go to CYSTOPTERIDACEAE

*Myriopteris*...go to PTERIDACEAE

*Notholaena*...go to PTERIDACEAE

*Pellaea*...go to PTERIDACEAE

*Phanerophlebia*...go to DRYOPTERIDACEAE

*Pityrogramma*...go to PTERIDACEAE

*Pleopeltis riograndense* (T. Wendt) Andrews & Windham : Reported for NM by Kartesz (1999) without documentation, perhaps based on Tidestrom & Kittell (1941), who reported "western Texas to southeastern Arizona"; it has not yet been documented for NM and awaits verification.

*Polypodium thyssanolepis* A. Braun ex Klotzsch

**Polypodium** polypody

Haufler, C.H., M.D. Windham, F.A. Lang, & S.A. Whitmore. 1993. *Polypodium*, pp. 315-323. IN: Flora of North America, vol. 2. Oxford Univ. Press.

Mickel, John T., Alan R. Smith & Ivan A. Valdespino. 2004. *Polypodium*, pp. 477-494. The Pteridophytes of Mexico, The New York Botanical Garden Press.

*bulbifera* Linnaeus = *Cystopteris bulbifera* (Linnaeus) Bernhardt

*dryopteris* Linnaeus = *Gymnocarpium dryopteris* (Linnaeus) Newman

*filix-femina* Linnaeus = *Athyrium filix-femina* (Linnaeus) Roth ex Mertens

*filix-mas* Linnaeus = *Dryopteris filix-mas* (Linnaeus) Schott

*fragilis* Linnaeus = *Cystopteris fragilis* (Linnaeus) Bernhardt

**hesperium** Maxon [Haufler et al. 1993; M&H; W&S]

*Polypodium vulgare* Linnaeus var. *columbianum* Gilbert

**saximontanum** Windham [Haufler et al. 1993]

*thyssanolepis* A. Braun ex Klotzsch = *Pleopeltis riograndense* (T. Wendt) Andrews & Windham

*vulgare* Linnaeus var. *columbianum* Gilbert = *Polypodium hesperium* Maxon

*Polystichum*...go to DRYOPTERIDACEAE

*Pteridium*...go to DENNSTAEDTIACEAE

*Woodsia*...go to WOODIACEAE

### Family PTERIDACEAE [9/31/34]

Gastony, G.J. & D.R. Rollo. 1998. Cheilanthoid ferns (Pteridaceae: Cheilantheoideae) in the southwestern United States and adjacent Mexico – a molecular phylogenetic reassessment of generic lines. *Aliso* 17(2):131-144.

*Acrostichum bonariense* Willdenow = *Myriopteris aurea* (Poirot) Grusz & Windham

*sinuatum* Lagasca ex Swartz = *Astrolepis sinuata* (Lagasca ex Swartz) D.M. Benham & Windham

**Adiantum** maiden-hair

Mickel, John T., Alan R. Smith & Ivan A. Valdespino. 2004. *Adiantum*, pp. 21-28. The Pteridophytes of Mexico, The New York Botanical Garden Press.

Paris, C.A. 1993. *Adiantum*, pp. 125-130. IN: Flora of North America, vol. 2. Oxford Univ. Press.

**capillus-veneris** Linnaeus [M&H; Paris 1993; W&S]

**Argyrochosma** cloak-fern

Mickel, John T., Alan R. Smith & Ivan A. Valdespino. 2004. *Argyrochosma*, pp. 64-69. The Pteridophytes of Mexico, The New York Botanical Garden Press.

Windham, M.D. 1993. *Argyrochosma*, pp. 171-174. IN: Flora of North America, vol. 2. Oxford Univ. Press.

**fendleri** (Kunze) Windham [M&H; W&S; Windham 1993]

*Notholaena fendleri* Kunze

*Pellaea fendleri* (Kunze) Prantl

**incana** (C. Presl) Windham [Windham 1993]

*Notholaena incana* C. Presl

**limitanea** (Maxon) Windham subsp. *limitanea* [M&H; Windham 1993]

*Notholaena limitanea* Maxon

*Pellaea limitanea* (Maxon) Morton

**limitanea** (Maxon) Windham subsp. **mexicana** (Maxon) Windham [Windham 1993]

*Notholaena limitanea* Maxon subsp. *mexicana* Maxon

**microphylla** (Mettenius ex Kuhn) Windham [M&H; W&S; Windham 1993]

*Pellaea microphylla* Met. ex Kuhn

*Pellaea pulchella* sensu W&S

**Astrolepis** cloak-fern

Benham, D.M. & M.D. Windham. 1993. *Astrolepis*, pp. 140-143. IN: Flora of North America, vol. 2. Oxford Univ. Press.

Mickel, John T., Alan R. Smith & Ivan A. Valdespino. 2004. *Astrolepis*, pp. 132-135. The Pteridophytes of Mexico, The New York Botanical Garden Press.

**cochisensis** (Goodding) D.M. Benham & Windham subsp. **chihuahuensis** D.M.

Benham [Benham & Windham 1993]

*Notholaena cochisensis* Goodding

**cochisensis** (Goodding) D.M. Benham & Windham subsp. **cochisensis** [Benham &

Windham 1993; M&H]

*Notholaena cochisensis* Goodding

*Notholaena sinuata* (Lagasca) Kaulfuss var. *cochisensis* (Goodding) Weatherby

**integerrima** (Hooker) D.M. Benham & Windham [Benham & Windham 1993; M&H; W&S]

*Notholaena sinuata* (Lagasca) Kaulfuss var. *integerrima* Hooker

**sinuata** (Lagasca ex Swartz) D.M. Benham & Windham subsp. **mexicana** D.M.

Benham [Benham & Windham 1993]

*Acrostichum sinuatum* Lagasca ex Swartz

**sinuata** (Lagasca ex Swartz) D.M. Benham & Windham subsp. **sinuata** [Benham

& Windham 1993; M&H; W&S]

*Acrostichum sinuatum* Lagasca ex Swartz

*Notholaena sinuata* (Lagasca ex Swartz) Kaulfuss

**windhamii** D.M. Benham [Benham & Windham 1993]

**Bommeria** bommeria

Haufler, C.H. 1993. *Bommeria*, pp. 151-152. IN: Flora of North America, vol. 2. Oxford Univ. Press.

Mickel, John T., Alan R. Smith & Ivan A. Valdespino. 2004. *Bommeria*, pp. 158-160. The Pteridophytes of Mexico, The New York Botanical Garden Press.

**hispida** (Mettenius ex Kuhn) Underwood [Haufler 1993; M&H; W&S]

*Gymnopteris hispida* (Mettenius) Underwood

*Gymnogramma hispida* Mettenius

*Cheilanthes aemula* Maxon = *Myriopteris aemula* (Maxon) Grusz & Windham

**alabamensis** (Buckley) Kunze [M&H; Windham & Rabe 1993] = *Myriopteris alabamensis*

(Buckley) Grusz & Windham

**bonariensis** (Willdenow) Proctor [W&S; Windham & Rabe 1993] = *Myriopteris aurea* (Poiret)

Grusz & Windham

**eatonii** Baker [M&H; W&S; Windham & Rabe 1993] = *Myriopteris rufa* Fée

**feei** T. Moore [M&H; W&S; Windham & Rabe 1993] = *Myriopteris gracilis* Fée

**fendleri** Hooker [M&H; W&S; Windham & Rabe 1993] = *Myriopteris fendleri* (Hooker) E.

Fournier

**grayi** (Davenport) Domin = *Notholaena grayi* Davenport

**horridula** Maxon = *Myriopteris scabra* (C.F. Christensen) Grusz & Windham

**lindheimeri** (J. Smith) Hooker [M&H; W&S; Windham & Rabe 1993] = *Myriopteris*

*lindheimeri* (Hooker) John Smith

**myriophylla** Desvoux = *Myriopsis windhamii* Grusz

**pringlei** Davenport : Reported by M&H, Todsén (1980), & Wagner (1979), but these were based on misidentifications, mostly of plants of *Cheilanthes fendleri*; *C. pringlei* is restricted to the Sonoran Desert.

**scabra** C. Christensen = *Myriopteris scabra* Grusz & Windham

**tomentosa** Link [M&H; Windham & Rabe 1993] = *Myriopteris tomentosa* (Link) Fée

**villosa** Davenport ex Maxon [M&H; W&S; Windham & Rabe 1993] = *Myriopteris windhamii* Grusz

**wootonii** Maxon [M&H; Windham & Rabe 1993] = *Myriopteris wootonii* (Maxon) Grusz & Windham

**wrightii** Hooker [M&H; W&S; Windham & Rabe 1993] = *Myriopteris wrightii* (Hooker) Grusz & Windham

**yavapensis** T. Reeves ex Windham [Windham & Rabe 1993] = *Myriopteris yavapensis* (T. Reeves ex Windham) Grusz & Windham

**Cryptogramma** rockbrake

Alverson, E.R. 1993. *Cryptogramma*, pp. 137-139. IN: Flora of North America, vol. 2. Oxford Univ. Press.

**acrostichoides** R. Brown [Alverson 1993; M&H]

*Cryptogramma crispa* (Linnaeus) R. Brown var. *acrostichoides* (R. Brown) C.B. Clarke

*crispa* (Linnaeus) R. Brown var. *acrostichoides* (R. Brown) C.B. Clarke = *Cryptogramma acrostichoides* R. Brown

*stelleri* (S.G. Gmelin) Prantl : Reported as expected by M&H; awaits verification.

*Gymnogramma hispida* Mettenius = *Bommeria hispida* (Mettenius) Underwood

*triangularis* Kaulfuss = *Pentagramma maxonii* Schuettpelz & Windham

*Gymnopteris hispida* (Mettenius) Underwood = *Bommeria hispida* (Mettenius) Underwood

**Myriopteris** lip-fern

Grusz, Amanda & M.D. Windham 2013. Toward a monophyletic *Cheilanthes*: The resurrection and recircumscription of *Myriopteris* (Pteridaceae). *PhytoKeys*; (32): 49-64.

Grusz, Amanda 2013. *Myriopteris windhamii* sp.nov., a new name for *Cheilanthes villosa* (Pteridaceae). *American Fern Journal* 103 (2): 112-117.

Todsén, T.K. 1980. A report on the survey for rare plant species at the Bioresearch Ranch, central Peloncillo Mountains, Hidalgo County, New Mexico. New Mexico State Heritage Program, Department of Natural Resources. [*Cheilanthes pringlei*]

Wagner, W.L. 1979. New records to the Animas Mountain flora, New Mexico. *Southw. Naturalist* 24(2):291-296. [*Cheilanthes pringlei*]

Windham, M.D. 2011. Plant distribution reports (*Cheilanthes horridula*). *The New Mexico Botanist* 53:4.

Windham, M.D. & E.W. Rabe. 1993. *Cheilanthes*, pp. 152-169. IN: Flora of North America, vol. 2. Oxford Univ. Press.

**aemula** (Maxon) Grusz & Windham [Grusz & Windham 2013]

*Cheilanthes aemula* Maxon: Reported as expected by M&H; awaits verification.

**alabamensis** (Buckley) Grusz & Windham [Grusz & Windham 2013; M & H; Windham & Rabe 1993]

*Cheilanthes alabamensis* (Buckley) Kunze

*Pteris alabamensis* Buckley

**aurea** (Poiret) Grusz & Windham [Grusz & Windham 2013; M & H; Windham & Rabe 1993]

*Cheilanthes bonariensis* (Willdenow) Proctor

*Acrostichum bonariense* Willdenow

*Notholaena aurea* (Poiret) Desvaux

*Notholaena bonariensis* (Willdenow) C. Christensen

*Pellaea ferruginea* Nees

*Pteris aurea* Poiret

**fendleri** (Hooker) E. Fournier [Grusz & Windham 2013; M & H; W & S; Winham & Rabe 1993]

*Cheilanthes fendleri* T. Moore

**gracilis** Fée [Grusz & Windham 2013; M & H; W & S; Windham & Rabe 1993]

*Cheilanthes féei* Hooker

**lindheimeri** (Hooker) John Smith [Grusz & Windham 2013; M & H; W & S; Windham & Rabe 1993]

*Cheilanthes lindheimeri* (John Smith) Hooker

**pringlei** (G. Davenport) Grusz & Windham

*Cheilanthes pringlei* G. Davenport : Reported by M&H, Todsén (1980), & Wagner (1979), but these were based on misidentifications, mostly of plants of *Cheilanthes fendleri*; *C. pringlei* is restricted to the Sonoran Desert.

**rufa** Fée [Grusz & Windham 2013; M & H; W & S; Windham & Rabe 1993]

*Cheilanthes eatonii* Baker

**scabra** (C.F. Christensen) Grusz & Windham [Grusz & Windham 2013; Windham 2011]

*Cheilanthes horridula* Maxon

*Cheilanthes scabra* C.F. Christensen

**tomentosa** (Link) Fée [Grusz & Windham 2013; M & H; Windham & Rabe 1993]

*Cheilanthes tomentosa* Link

**windhamii** Grusz [Grusz & Windham 2013; M & H; W & S; Windham & Rabe 1993]

*Cheilanthes villosa* Davenport ex Maxon

*Cheilanthes myriophylla* Desvaux

**wootonii** (Maxon) Grusz & Windham [Grusz & Windham 2013; M & H; Windham & Rabe 1993]

*Cheilanthes wootonii* Maxon

**wrightii** (Hooker) Grusz & Windham [Grusz & Windham 2013; M & H; W & S; Windham & Rabe 1993]

*Cheilanthes wrightii* Hooker

**yavapensis** (T. Reeves ex Windham) Grusz & Windham [Grusz & Windham 2013; Windham & Rabe 1993]

*Cheilanthes yavapensis* T. Reeves ex Windham

**Notholaena** cloak-fern

Kao, T.-T., C.J. Rothfels, A. Melgoza-Castillo, K.M. Pryer, & M.D. Windham. 2020. Infrspecific diversification of the star cloak fern (*Notholaena standleyi*) in the deserts of the United States and Mexico. *Amer. J. Bot.* 107(4): 658-675.

Mickel, John T., Alan R. Smith & Ivan A. Valdespino. 2004. *Notholaena*, pp. 411-424. The Pteridophytes of Mexico, The New York Botanical Garden Press.

Windham, M.D. 1993. *Notholaena*, pp. 143-149. IN: Flora of North America, vol. 2. Oxford Univ. Press.

*aschenborniana* Klotzsch : Reported as expected by M&H map; awaits verification.

*aurea* (Poiret) Desvaux = *Myriopteris aurea* (Poiret) Grusz & Windham

*bonariensis* (Willdenow) C. Christensen = *Myriopteris aurea* (Poiret) Grusz & Windham

*cochisensis* Goodding = *Astrolepis cochisensis* (Goodding) D.M. Benham & Windham

*dealbata* (Pursh) Kunze [= *Argyroschisma dealbata* (Pursh) Windham] : Reported by W&S, but not occurring in NM [M&H; Windham 1993].

*fendleri* Kunze = *Argyroschisma fendleri* (Kunze) Windham

**grayi** Davenport [Windham 1993]

*Cheilanthes grayi* (Davenport) Domin

*incana* C. Presl = *Argyroschisma incana* (C. Presl) Windham

*hookeri* D. C. Eaton = *Notholaena standleyi* Maxon

*limitanea* Maxon = *Argyroschisma limitanea* (Maxon) Windham

*limitanea* Maxon subsp. *mexicana* Maxon = *Argyroschisma limitanea* (Maxon) Windham subsp. *mexicana* (Maxon) Windham

*sinuata* (Lagasca) Kaulfuss var. *cochisensis* (Goodding) Weatherby = *Astrolepis*

*cochisensis* (Goodding) D.M. Benham & Windham subsp. *cochisensis*

*sinuata* (Lagasca) Kaulfuss var. *integerrima* Hooker = *Astrolepis integerrima* (Hooker) D.M. Benham & Windham

*sinuata* (Lagasca ex Swartz) Kaulfuss var. *sinuata* = *Astrolepis sinuata* (Lagasca ex Swartz) D.M. Benham & Windham subsp. *sinuata*

**standleyi** Maxon [M&H; W&S; Windham 1993]

*Notholaena hookeri* D. C. Eaton

**Pellaea** cliffbrake

Mickel, John T., Alan R. Smith & Ivan A. Valdespino. 2004. *Pellaea*, pp. 443-452. The Pteridophytes of Mexico, The New York Botanical Garden Press.

Windham, M.D. 1993. *Pellaea*, pp. 175-186. IN: Flora of North America, vol. 2. Oxford Univ. Press.

**atropurpurea** (Linnaeus) Link [M&H; W&S; Windham 1993]

*Pteris atropurpurea* Linnaeus

*fendleri* (Kunze) Prantl = *Argyroschisma fendleri* (Kunze) Windham

*ferruginea* Nees = *Myriopteris aurea* (Poiret) Grusz & Windham

**glabella** Mettenius ex Kuhn subsp. **simplex** (Butters) A. Löve & D. Löve [M&H; Windham 1993]

*Pellaea glabella* Mettenius ex Kuhn var. *simplex* Butters

*Pellaea suksdorfiana* Butters

**intermedia** Mettenius ex Kuhn [M&H; W&S; Windham 1993]

*limitanea* (Maxon) Morton = *Argyroschisma limitanea* (Maxon) Windham subsp. *limitanea*

*longimucronata* Hooker = *Pellaea truncata* Goodding

*microphylla* Met. ex Kuhn = *Argyroschisma microphylla* (Mettenius ex Kuhn) Windham

*mucronata* sensu W&S = *Pellaea wrightiana* Hooker

*ovata* (Desvaux) Weatherby : Reported for NM by Correll & Johnston (1970) and Tidestrom & Kittell (1941), but excluded from NM by Windham (1993); needs verification.

*pulchella* sensu W&S = *Argyroschisma microphylla* (Mettenius ex Kuhn) Windham

*scabra* C. Christensen *Myriopteris scabra* (C. Christensen) Grusz & Windham



*suksdorfiana* Butters = *Pellaea glabella* Mettenius ex Kuhn subsp. *simplex* (Butters) A.

Löve & D. Löve

*ternifolia* sensu W&S = *Pellaea wrightiana* Hooker

***truncata*** Goodding [M&H; Windham 1993]

*Pellaea longimucronata* Hooker

*Pellaea wrightiana* Hooker var. *longimucronata* (Hooker) Davenport

***wrightiana*** Hooker [M&H; W&S; Windham 1993]

*Pellaea ternifolia* (Cavanilles) Link var. *wrightiana* (Hooker) Tryon

*wrightiana* Hooker var. *longimucronata* (Hooker) Davenport = *Pellaea truncata* Goodding

***Pentagramma*** goldfern

Mickel, John T., Alan R. Smith & Ivan A. Valdespino. 2004. *Pentagramma*, pp. 453-454 *The Pteridophytes of Mexico*, The New York Botanical Garden Press.

Schuettelpelz, Eric, Kathleen M. Pryer & Michael D. Windham. 2015. A unified approach to taxonomic delimitation in the fern genus *Pentagramma* (Pteridaceae). *Systematic Botany* 40(3):629-644.

Yatskievych, G. & M.D. Windham. 1993. *Pentagramma*, pp. 149-151. IN: *Flora of North America*, vol. 2. Oxford Univ. Press.

***maxonii*** (Weatherby) Schuettelpelz & Windham [M&H; Yatskievych 1993]

*Gymnogramma triangularis* Kaulfuss

*Pentagramma triangularis* (Kaulfuss) Yatskievych, Windham, & E. Wollenweber subsp. *maxonii* (Weatherby) Yatskievych, Windham, & E. Wollenweber

*Pityrogramma triangularis* (Kaulfuss) Maxon

*Pityrogramma triangularis* (Kaulfuss) Maxon var. *maxonii* Weatherby

*Pityrogramma triangularis* (Kaulfuss) Maxon = *Pentagramma maxonii* (Weatherby) Schuettelpelz & Windham

*Pteris alabamensis* Buckley = *Myriopteris alabamensis* (Buckley) Grusz & Windham

*atropurpurea* Linnaeus = *Pellaea atropurpurea* (Linnaeus) Link

*aurea* Poiret = *Myriopteris aurea* (Poiret) Grusz & Windham

**Family SALVINIACEAE** [2/3/3]

[Azollaceae]

***Azolla*** mosquito-fern

Lumpkin, T.A. 1993. *Azollaceae*, pp. 338-342. IN: *Flora of North America*, vol. 2. Oxford Univ. Press.

Mickel, John T., Alan R. Smith & Ivan A. Valdespino. 2004. *Azolla*, pp. 139-141. *The Pteridophytes of Mexico*, The New York Botanical Garden Press.

*caroliniana* Willdenow : Reports in W&S apparently belong to *Azolla mexicana* Presl, though *Azolla caroliniana* is known adjacent to NM near the Texas State line [Lumpkin 1993].

***filiculoides*** Lamarck [FNM I]

***mexicana*** Schlechtendal & Chamisso ex C. Presl [Lumpkin 1993; M&H]

***Salvinia*** water-spangles

Allred, K.W. 1999. New plant distribution records. *The New Mexico Botanist* 13:7. [*Salvinia minima*]

Nauman, C.E. 1993. *Salvinia* spp., pp. 336-337. IN: *Flora of North America*, vol. 2. Oxford Univ. Press.

\****minima*** Baker [Allred 1999]

**Family WOODSIACEAE** [1/5/5]

***Woodsia*** cliff-fern

Heil, K.D. & S.L. O'Kane, Jr. 2003. Catalog of the Four Corners flora: Vascular plants of the San Juan River drainage, Arizona, Colorado, New Mexico and Utah. *Harvard Papers in Botany* 7(2):321-379. [*Woodsia scopulina*]

Windham, M.D. 1993. *Woodsia*, pp. 270-280. IN: *Flora of North America*, vol. 2. Oxford Univ. Press.

*cathcartiana* B.L. Robinson = *Woodsia oregana* D.C. Eaton subsp. *cathcartiana* (B.L. Robinson) Windham

***cochisensis*** Windham [Windham 1993]

*mexicana* Fee sensu stricto : Not in NM; see *Woodsia neomexicana* Windham and *Woodsia phillipsii* Windham.

***neomexicana*** Windham [Windham 1993]

***oregana*** D.C. Eaton subsp. ***cathcartiana*** (B.L. Robinson) Windham [M&H; Windham 1993]

*Woodsia cathcartiana* B.L. Robinson

***phillipsii*** Windham [Windham 1993]

***plummerae*** Lemmon [M&H; W&S; Windham 1993]

*Woodsia pusilla* E. Fournier var. *glandulosa* (Eaton & Faxon) Taylor

*pusilla* E. Fournier var. *glandulosa* (Eaton & Faxon) Taylor = *Woodsia plummerae*  
Lemmon

scopulina D. C. Eaton : Reported for NM by Heil & O'Kane (2003) and M&H but not by  
Windham (1993); needs verification.

## GYMNOSPERMS

Christenhusz, M.J.M., J.L. Reveal, A. Farjon, M.F. Gardner, R.R. Mill, & M.W. Chase. 2011. A new classification and linear sequence of extant gymnosperms. *Phytotaxa* 19: 55-70.

## Family CUPRESSACEAE [2/8/8]

[Juniperaceae]

Farjon, A. 2005. A monograph of Cupressaceae and Sciadopitys. Royal Botanic Gardens, Kew. 643 pp.  
Watson, F.D. & J.E. Eckenwalder. 1993. Cupressaceae, pp. 399-422. IN: *Flora of North America*, vol. 2. Oxford University Press.

*Callitropsis arizonica* (Greene) D.P. Little = *Hesperocyparis arizonica* (Greene) Bartel  
*Cupressus arizonica* Greene = *Hesperocyparis arizonica* (Greene) Bartel  
*arizonica* var. *glabra* (Sudworth) Little = *Hesperocyparis glabra* (Sudworth) Bartel  
*glabra* Sudworth = *Hesperocyparis glabra* (Sudworth) Bartel

***Hesperocyparis*** cypress

Adams, R.P., J.A. Bartel, & R.A. Price. 2009. A new genus, *Hesperocyparis*, for the cypresses of the western hemisphere. *Phytologia* 91(1): 160-185.  
Adams, R.P. & J.A. Bartel. 2009. Geographic variation in *Hesperocyparis* (*Cupressus*) *arizonica* and *H. glabra*: RAPDS analysis. *Phytologia* 91(1):244-250.  
Hamilton, T. 2017. *Cupressus arizonica* in New Mexico. *Bull. Cupressus Conservation Proj.* 6(3): 62-70.  
Little, D.P. 2006. Evolution and circumscription of the true cypresses (Cupressaceae: *Cupressus*). *Syst. Bot.* 31(3):461-480.

***arizonica*** (Greene) Bartel [M&H; W&S; Watson 1993]

Arizona cypress

*Callitropsis arizonica* (Greene) D.P. Little

*Cupressus arizonica* Greene

*Neocupressus arizonica* (Greene) de Laubenfels

*glabra* (Sudworth) Bartel : Not known in the wild in NM.

*Cupressus glabra* Sudworth

*Cupressus arizonica* var. *glabra* (Sudworth) Little

***Juniperus*** juniper

Adams, R.P. 1993. *Juniperus*, pp. 412-420. IN: *Flora of North America*, vol. 2. Oxford Univ. Press.  
Adams, R.P. 1994. Geographic variation and systematics of monospermeous *Juniperus* (Cupressaceae) from the Chihuahuah Desert based on RAPDs and terpenes. *Biochem. Syst. Ecol.* 22(7):699-710.  
Adams, R.P. 2008. Taxonomy of *Juniperus communis* in North America: Insight from variation in nrDNA SNPs. *Phytologia* 90(2): 181-197.  
Adams, R.P. 2016. *Juniperus arizonica* (R.P. Adams) R.P. Adams, new to Texas. *Phytologia* 98(3):179-185.  
Adams, R.P. & T.A. Zanoni. 1979. The distribution, synonymy, and taxonomy of three junipers of southwestern United States and northern Mexico. *Southw. Natural.* 24(2):323-329.  
Adams, R.P., S. Nguyen, J.A. Morris, & A.E. Schwarzbach. 2006. Re-examination of the taxonomy of the one-seeded, serrate leaf *Juniperus* of southwestern United States and northern Mexico (Cupressaceae). *Phytologia* (Dec 2006) 88(3):299-309.  
Adams, R.P. & A.E. Schwarzbach. 2013. Taxonomy of *Juniperus deppeana* varieties and forms based on nrDNA (ITS), petN-psbM, trnS-trnG, trnD-trnT, trnL-trnF sequences. *Phytologia* 95(2):161-166.  
Zanoni, T.A. & R.P. Adams. 1979. The genus *Juniperus* (Cupressaceae) in Mexico and Guatemala: Synonymy, key, and distributions of the taxa. *Bol. Soc. Bot. México* 38: 83-131.

***arizonica*** (R.P. Adams) R.P. Adams [Adams 1994, 2016]

*Juniperus coahuilensis* (Martinez) Gausсен ex R.P. Adams var. *arizonica* R.P. Adams

*ashei* Buchholz : Reported by M&H, but not by Adams (1993); all known specimens of supposed *J. ashei* in NM have been determined as *J. monosperma* by R.P. Adams (pers. comm. 2015).

*coahuilensis* (Martinez) Gausсен ex R.P. Adams s.s. : Reported by various works, but recent study by Adams (pers. comm. 2016) failed to find any specimens of this in NM.

*coahuilensis* (Martinez) Gausсен ex R.P. Adams var. *arizonica* R.P. Adams = *Juniperus arizonica* (R.P. Adams) R.P. Adams

***communis*** Linnaeus var. *depressa* Pursh [Adams 1993; M&H; W&S]

common juniper

*communis* Linnaeus var. *saxatilis* Pallas [=*Juniperus communis* Linnaeus var. *montana* Aiton] : Reported by M&H, but not known from NM [Adams 1993, 2008].

***deppeana*** Steudel var. ***deppeana*** [Adams 1993; M&H; W&S]

alligator juniper

*Juniperus deppeana* Steudel var. *pachyphloea* (Torrey) Martinez

*Juniperus deppeana* Steudel forma *sperryi* (Correll) R.M. Adams

*Juniperus pachyphloea* Torrey

*deppeana* Steudel var. *pachyphloea* (Torrey) Martinez = *Juniperus deppeana* Steudel var. *deppeana*

*deppeana* Steudel forma *sperryi* (Correll) R.P. Adams = *Juniperus deppeana* Steudel var. *deppeana*

*erythrocarpa* Cory = *Juniperus pinchotii* Sudworth

*erythrocarpa* Cory var. *coahuilensis* Martinez = *Juniperus coahuilensis* (Martinez) Gausсен ex R.P. Adams

*gymnocarpa* (Lemmon) Cory = *Juniperus monosperma* (Engelmann) Sargent

*megalocarpa* Sudworth = *Juniperus osteosperma* (Torrey) Little

*mexicana* Sprengel var. *monosperma* (Engelmann) Cory = *Juniperus monosperma* (Engelmann) Sargent

***monosperma*** (Engelmann) Sargent [Adams 1993; M&H; W&S]

one-seed juniper

*Juniperus gymnocarpa* (Lemmon) Cory

*Juniperus mexicana* Sprengel var. *monosperma* (Engelmann) Cory

*Juniperus occidentalis* Hooker var. *monosperma* Engelmann

*Sabina monosperma* (Engelmann) Rydberg

*monosperma* (Engelmann) Sargent var. *pinchotii* (Sudworth) Van Melle = *Juniperus pinchotii* Sudworth

*occidentalis* Hooker var. *monosperma* Engelmann = *Juniperus monosperma* (Engelmann) Sargent

***osteosperma*** (Torrey) Little [Adams 1993; M&H; W&S]

Utah juniper

*Juniperus utahensis* (Engelmann) Lemmon

*Juniperus megalocarpa* Sudworth

*Juniperus tetragona* Schlectendal var. *osteosperma* Torrey

*Sabina osteosperma* (Torrey) Antoine

*pachyphloea* Torrey = *Juniperus deppeana* Steudel var. *deppeana*

***pinchotii*** Sudworth [Adams 1993; M&H]

*Juniperus erythrocarpa* Cory

*Juniperus monosperma* (Engelmann) Sargent var. *pinchotii* (Sudworth) Van Melle

***scopulorum*** Sargent [Adams 1993; M&H; W&S]

Rocky Mountain juniper

*Juniperus virginiana* Linnaeus var. *scopulorum* (Sargent) Lemmon

*Sabina scopulorum* (Sargent) Rydberg

*sibirica* Burgsdorff [=*Juniperus communis* Linnaeus var. *montana* Aiton] : Not occurring in NM.

*tetragona* Schlectendal var. *osteosperma* Torrey = *Juniperus osteosperma* (Torrey) Little

*utahensis* (Engelmann) Lemmon = *Juniperus osteosperma* (Torrey) Little

*virginiana* Linnaeus var. *scopulorum* (Sargent) Lemmon = *Juniperus scopulorum* Sargent

*Neocupressus arizonica* (Greene) de Laubenfels = *Hesperocyparis arizonica* (Greene) Bartel Platycladus

\**orientalis* (Linnaeus) Franco : A common ornamental plant, not known in the wild; native to Asia.

*Thuja orientalis* Linnaeus

*Sabina monosperma* (Engelmann) Rydberg = *Juniperus monosperma* (Engelmann) Sargent

*osteosperma* (Torrey) Antoine = *Juniperus osteosperma* (Torrey) Little

*scopulorum* (Sargent) Rydberg = *Juniperus scopulorum* Sargent

Taxodium

St. Hilaire, R. 2001. Seed coat treatments influence germination of *Taxodium mucronatum*. Desert Plants 17(1):15-18.

*distichum* (Linnaeus) L.C. Richard var. *mexicanum* Gordon : Reported for NM by St. Hilaire (2001), based on seed given him by a nurseryman; the provenance of the seed is in question; awaits verification.

*Taxodium mucronatum* M. Tenore

*mucronatum* M. Tenore = *Taxodium distichum* (Linnaeus) L.C. Richard var. *mexicanum* Gordon

### Thuja

*aphylla* Linnaeus = *Tamarix aphylla* (Linnaeus) Karsten

\**occidentalis* Linnaeus : A common ornamental plant, not known in the wild; native to northeastern United States and Canada.

*orientalis* Linnaeus = *Platycladus orientalis* (Linnaeus) Franco

## Family EPHEDRACEAE [1/6/6]

### *Ephedra* ephedra, mormon tea

Cutler, H.C. 1939. Monograph of the North American species of the genus *Ephedra*. Ann. Missouri Bot. Gard. 26:373-427.

Powell, A.M. 1988. Trees and Shrubs of Trans-Pecos Texas. Big Bend Natural History Assoc.

Sivinski, R.C. 2010. *Ephedra coryi* in central New Mexico? The New Mexico Botanist 52:1.

Sivinski, R.C. 2011. Plant distribution reports. The New Mexico Botanist 53:4. [*Ephedra coryi*]

Stevenson, D.W. 1993. Ephedraceae, pp. 428-434. IN: Flora of North America, vol. 2. Oxford University Press.

*antisiphilitica* Berlandier : Reported by M&H and W&S from southern NM, but validating specimens have not been found; both Stevenson (1993) and Powell (1988) report it east of NM.

*aspera* Engelman ex S. Watson [M&H; Stevenson 1993]

*Ephedra nevadensis* S. Watson var. *aspera* (Engelman ex S. Watson) L. Benson

*coryi* E.L. Reed [Sivinski 2010, 2011]

*coryi* E.L. Reed var. *viscida* Cutler = *Ephedra cutleri* Peebles

*cutleri* Peebles [M&H; Stevenson 1993]

*Ephedra coryi* E.L. Reed var. *viscida* Cutler

*Ephedra viridis* Coville var. *viscida* (Cutler) L. Benson

×*intermixta* Cutler (hybrid of *Ephedra torreyana* × *E. trifurca*) = *Ephedra trifurca* Torrey ex S. Watson

*nevadensis* S. Watson var. *aspera* (Engelman ex S. Watson) L. Benson = *Ephedra aspera* Engelman ex S. Watson

*torreyana* Torrey ex S. Watson var. *torreyana* [M&H; Stevenson 1993; W&S]

*trifurca* Torrey ex S. Watson [M&H; Stevenson 1993; W&S]

*Ephedra* ×*intermixta* Cutler

*viridis* Coville [M&H; Stevenson 1993; W&S]

*viridis* Coville var. *viscida* (Cutler) L. Benson = *Ephedra cutleri* Peebles

## Family JUNIPERACEAE = CUPRESSACEAE

## Family PINACEAE [4/15/16]

### *Abies* fir

Hunt, R.S. 1993. *Abies*, pp. 354-362. IN: Flora of North America, vol. 2. Oxford Univ. Press.

Adams, R.P., C.J. Earle, & D. Thorburg. 2011. Taxonomy of infraspecific taxa of *Abies lasiocarpa*: leaf essential oils and DNA of *Abies lasiocarpa*, var. *bifolia* and var. *arizonica*. Phytologia 93(1):73-87.

*arizonica* Merriam [Hunt 1993; M&H; W&S]

cork-bark fir

*Abies bifolia* A. Murray var. *arizonica* (Merriam) O'Kane & K.D. Heil

*Abies lasiocarpa* (Hooker) Nuttall var. *arizonica* (Merriam) Lemmon

*bifolia* A. Murray bis sensu stricto : Name applied to northern populations of subalpine fir; in the narrow sense apparently not known from NM [Hunt 1993].

*concolor* (Gordon & Glendinning) Lindley ex Hildebrand [Hunt 1993; M&H; W&S]  
white fir

*Picea concolor* Gordon & Glendinning

*lasiocarpa* (Hooker) Nuttall var. *arizonica* (Merriam) Lemmon = *Abies arizonica* Merriam

lasiocarpa (Hooker) Nuttall s.s. : Hunt (1993) restricts this taxon to the Pacific Northwest; trees previously referred to *Abies lasiocarpa* belong to *Abies bifolia* A. Murray bis (northern Rockies) and to *Abies arizonica* Merriam (southern Rockies and NM).

*Pinus flexilis* (James) Rydberg = *Pinus flexilis* James

*Caryopitys edulis* (Engelmann) Small = *Pinus edulis* Engelmann

**Picea** spruce

Taylor, R.J. 1993. *Picea*, pp. 369-373. IN: Flora of North America, vol. 2. Oxford Univ. Press.

*concolor* Gordon & Glendinning = *Abies concolor* (Gordon & Glendinning) Lindley ex Hildebrand

**engelmannii** Parry ex Engelmann var. **engelmannii** [M&H; Taylor 1993; W&S]  
Engelmann's spruce

*parryana* Sargent = *Picea pungens* Engelmann

**pungens** Engelmann [M&H; Taylor 1993; W&S]  
blue spruce

*Picea parryana* Sargent

**Pinus** pine

Bailey, D.K. & F.G. Hawksworth. 1979. Pinyons of the Chihuahuan Desert region. *Phytologia* 44:129-133.

Bisbee, J. 2014. Cone morphology of the *Pinus flexilis-ayacahuite* complex of the southwestern United States and Mexico. *Bull. Cupressus Conservation Project* 3(1):3-33.

Callahan, R.Z. 2013. *Pinus ponderosa*: Geographic Races and Subspecies Based on Morphological Variation. USDA Forest Service PSW RP-265.

Callahan, R.Z. 2013. *Pinus ponderosa*: A Taxonomic Review with Five Subspecies in the United States of America. USDA Forest Service PSW RP-264.

Conkle, M.T. & W.B. Critchfield. 1988. Genetic variation and hybridization of ponderosa pine, pp. 27-43. IN: D.M. Baumgartner & J.E. Lotan (eds.), *Ponderosa pine – the species and its management*. Symposium proceedings. Washington State University, Pullman.

Farjon, A. & B.T. Styles. 1997. *Pinus* (Pinaceae). *Flora Neotropica*, Monogr. 75. New York Botanical Garden.

Frankis, Michael. 2008. The high-altitude white pines of Mexico and the adjacent SW USA (*Pinus* L. subgenus *Strobus* Lemmon, Pinaceae). *International Dendrology Society Yearbook 2008*: 64-72.

Gernandt, D.S., S. Hernandez-Leon, E. Salgado-Hernandez, & J.A. Perez de la Rosa.. 2009. Phylogenetic relationships of *Pinus* subsection *Ponderosae* inferred from rapidly evolving cpDNA regions. *Syst. Bot.* 34(3):481-491.

Kral, R. 1993. *Pinus*, pp. 373-398. IN: Flora of North America, vol. 2. Oxford Univ. Press.

Landry, P. 1992. A revised synopsis of the pines 4: The chihuahua pine (*Pinus*, section *Leiophylla*). *Phytologia* 72(5):373-377.

Little, Elbert L., Jr. 1968. Two new pinyon varieties from Arizona. *Phytologia* 17(4):329-342. [*Pinus monophylla fallax*]

Montes, J.R., P. Pelaez, A. Willyard, A. Moreno-Letelier, D. Piñero, & D.S. Gernandt. 2019. Phylogenetics of *Pinus* Subsection *Cembroides* Engelm. (Pinaceae) Inferred from Low-Copy Nuclear Gene Sequences. *Syst. Bot.* 44(3): 501-518.

Perry, J.P., Jr. 1991. The Pines of Mexico and Central America. Timber Press, Portland, Oregon. 231 pp.

Willyard, A., D.S. Gernandt, K. Potter, V. Hipkins, P. Marquardt, M.F. Mahalovich, S.K. Langer, F.W. Telewski, B. Cooper, C. Douglas, K. Finch, H.H. Karemera, J. Fefler, P. Lea, & A. Woff. 2017. *Pinus ponderosa*: A checkerboard past obscured four species. *Amer. J. Bot.* 104(1): 161-181.

*apacheca* Lemmon = *Pinus engelmannii* Carrier

**aristata** Engelmann [Kral 1993; M&H; W&S]  
bristlecone pine

**arizonica** Engelmann [Kral 1993; M&H; W&S]

*Pinus ponderosa* Lawson var. *arizonica* (Engelmann) Shaw

*arizonica* Engelmann var. *stormiae* Martinez : Willyard et al. (2017) suggests this controversial taxon is in Eddy County, and an unconfirmed specimen labeled as such is at UVSC; we await further clarification.

*ayacahuite* Ehrenberg var. *brachyptera* Shaw = *Pinus strobiformis* Engelmann

*ayacahuite* var. *reflexa* (Engelmann) Voss = *Pinus reflexa* (Engelmann) Engelmann

*brachyptera* Engelmann = *Pinus ponderosa* Douglas ex Lawson & C. Lawson subsp. *brachyptera* (Engelmann) Silba

*californiarum* D.K. Bailey subsp. *fallax* (Little) D.K. Bailey = *Pinus edulis* Engelmann var. *fallax* Little

**cembroides** Zuccarini var. **cembroides** [Kral 1993; M&H; W&S]

**cembroides** Zuccarini var. **bicolor** Little [Bailey & Hawksworth 1979; Farjon & Styles 1997]

- Pinus discolor* Bailey & Hawksworth  
*Pinus johannis* M.-F. Robert  
*cembroides* Zuccarini var. *edulis* (Engelmann) Voss = *Pinus edulis* Engelmann  
*chihuahuana* Engelmann = *Pinus leiophylla* Schiede & Deppe ex Schlechtendal & Chamisso var. *chihuahuana* (Engelmann) Shaw  
*discolor* Bailey & Hawksworth = *Pinus cembroides* Zuccarini var. *bicolor* Little  
***edulis*** Engelmann var. ***edulis*** [Kral 1993; M&H; W&S]  
 piñon pine  
*Caryopitys edulis* (Engelmann) Small  
*Pinus cembroides* Zuccarini var. *edulis* (Engelmann) Voss  
*Pinus monophylla* Torrey & Frémont var. *edulis* (Engelmann) M.E. Jones  
***edulis*** Engelmann var. ***fallax*** Little [Little 1968]  
*Pinus californiarum* D.K. Bailey subsp. *fallax* (Little) D.K. Bailey  
*Pinus* ×*fallax* Businsky (nom. illeg.)  
*Pinus monophylla* Torrey & Frémont subsp. *fallax* (Little) D.K. Bailey  
***engelmannii*** Carrier [Kral 1993; M&H]  
 Apache pine  
*Pinus apachea* Lemmon  
*Pinus latifolia* Sargent  
*Pinus macrophylla* Engelmann  
 ×*fallax* Businsky (nom. illeg.) = *Pinus edulis* Engelmann var. *fallax* Little  
***flexilis*** James [Kral 1993; M&H; W&S]  
 limber pine  
*Apinus flexilis* (James) Rydberg  
*flexilis* James var. *reflexa* Engelmann = *Pinus reflexa* (Engelmann) Engelmann  
*johannis* M.-F. Robert = *Pinus cembroides* Zuccarini var. *bicolor* Little  
*latifolia* Sargent = *Pinus engelmannii* Carrier  
***leiophylla*** Schiede & Deppe ex Schlechtendal & Chamisso var. ***chihuahuana***  
 (Engelmann) Shaw [Kral 1993; M&H; W&S]  
 Chihuahuana pine  
*Pinus chihuahuana* Engelmann  
*macrophylla* Engelmann = *Pinus engelmannii* Carrier  
*monophylla* Torrey & Frémont subsp. *fallax* (Little) Zavarin = *Pinus edulis* Engelmann var. *fallax* Little  
*monophylla* Torrey & Frémont var. *edulis* (Engelmann) M.E. Jones = *Pinus edulis* Engelmann var. *edulis*  
*ponderosa* Lawson var. *arizonica* (Engelmann) Shaw = *Pinus arizonica* Engelmann  
*ponderosa* var. *brachyptera* (Engelmann) Lemmon = *Pinus ponderosa* Douglas ex Lawson & C. Lawson subsp. *brachyptera* (Engelmann) Silba  
***ponderosa*** Douglas ex Lawson & C. Lawson subsp. ***brachyptera*** (Engelmann) Silba [Callahan 2013]  
 southwestern ponderosa pine  
*Pinus brachyptera* Engelmann  
*Pinus ponderosa* Douglas ex Lawson & C. Lawson subsp. *brachyptera* (Engelmann) Callahan  
*Pinus ponderosa* var. *brachyptera* (Engelmann) Lemmon  
***ponderosa*** Douglas ex Lawson & C. Lawson subsp. ***scopulorum*** (Engelmann) E. Murray [Callahan 2013; Kral 1993]  
 Rocky Mountains ponderosa pine  
*Pinus ponderosa* Douglas ex Lawson & C. Lawson subsp. *scopulorum* (Engelmann) W.A. Weber  
*Pinus ponderosa* Lawson var. *scopulorum* Engelmann  
*Pinus scopulorum* (Engelmann) Lemmon  
*ponderosa* Lawson var. *scopulorum* Engelmann = *Pinus ponderosa* Douglas ex Lawson & C. Lawson subsp. *scopulorum* (Engelmann) E. Murray  
*scopulorum* (Engelmann) Lemmon = *Pinus ponderosa* Douglas ex Lawson & C. Lawson subsp. *scopulorum* (Engelmann) E. Murray  
***reflexa*** (Engelmann) Engelmann [Kral 1993; M&H; W&S]

southwestern white pine

*Pinus ayacahuite* var. *reflexa* (Engelmann) Voss

*Pinus flexilis* James var. *reflexa* Engelmann

*Pinus strobiformis* of NM authors

*strobiformis* Engelmann : Often used for NM plants, but herein assigned to plants of Mexico; our plants are referred to *Pinus reflexa* (Engelmann) Engelmann

*Pinus ayacahuite* Ehrenberg var. *brachyptera* Shaw

*taxifolia* (Lamarck) Britton var. *glauca* (Beissner) Sudworth = *Pseudotsuga menziesii* (Mirbel) Franco var. *glauca* (Beissner) Franco

***Pseudotsuga*** Douglas fir

Adams, R.P., J.J. Vargas-Hernandez, M.S. Gonzalez Elizondo, G. Hunter, T.A. Fairhall, D. Thornberg, & F. Callahan. 2013. Taxonomy of Douglas fir (*Pseudotsuga menziesii*) infraspecific taxa: vars. *menziesii*, *glauca* and *oaxacana*: nrDNA, cpDNA sequences and leaf essential oils. *Phytologia* 95(1): 94-102.

Bleakly, D. 1997. Plant life on the lava – the vegetation and flora of El Malpais, p. 113-130. IN: Maybery, K. (compiler). Natural History of El Malpais National Monument. Bull. 156. New Mexico Bureau of Mines and Mineral Resources. 185 pp.

Lipscomb, B. 1993. *Pseudotsuga*, pp. 365-366. IN: Flora of North America, vol. 2. Oxford Univ. Press.

***menziesii*** (Mirbel) Franco var. ***glauca*** (Beissner) Franco [Lipscomb 1993; M&H; W&S]

*Pseudotsuga mucronata* (Rafinesque) Sudworth

*Pinus taxifolia* (Lamarck) Britton var. *glauca* (Beissner) Sudworth

*Pseudotsuga taxifolia* (Lambert) Britton

*Tsuga douglasii* Carrière var. *glauca* Beissner [1884]

*mucronata* (Rafinesque) Sudworth = *Pseudotsuga menziesii* (Mirbel) Franco

*taxifolia* (Lambert) Britton = *Pseudotsuga menziesii* (Mirbel) Franco



## ANGIOSPERMS

### Monocotyledonous Plants

#### Family AGAVACEAE [4/18/21]

[Anthericeae]

Bogler, D.J. & B.B. Simpson. 1995. A chloroplast DNA study of the Agavaceae. *Syst. Bot.* 20(2):191-205.  
 Judd, W.S., C.S. Campbell, E.A. Kellogg, P.F. Stevens, & M.J. Donoghue. 2016. *Plant Systematics: A Phylogenetic Approach*, 4<sup>th</sup> ed. Sinauer Associates, Inc., Sunderland, Massachusetts. 677 pp.

#### **Agave** agave

Freeman, C.E. 1973. A new record of lechuguilla (*Agave lecheguilla*: Agavaceae) in New Mexico. *Southwest. Nat.* 17(4):423.

Gentry, H.S. 1982. *Agaves of Continental North America*. University of Arizona Press, Tucson. 670 pp.  
 Reveal, J.L. & W.C. Hodgson. 2002. *Agave*, pp. 442-461. IN: *Flora of North America*, vol. 26. Oxford University Press, New York.

*americana* Linnaeus var. *latifolia* Torrey = *Agave parryi* Engelm

*geminiflora* (Tagl.) Ker-Gawler var. *sonorae* Torrey = *Agave schottii* Engelm

*gracilipes* Trelease [Gentry 1982; Reveal & Hodgson 2002]

*lechuguilla* Torrey [Gentry 1982; M&H; Reveal & Hodgson 2002; W&S]

lechuguilla

*neomexicana* Wooton & Standley = *Agave parryi* Engelm var. *neomexicana* (Wooton & Standley) B. Ullrich

*palmeri* Engelm [Gentry 1982; M&H; Reveal & Hodgson 2002; W&S]

*parryi* Engelm var. *parryi* [Gentry 1982; M&H; Reveal & Hodgson 2002; W&S]

*Agave americana* Linnaeus var. *latifolia* Torrey

*parryi* Engelm var. *neomexicana* (Wooton & Standley) B. Ullrich [M&H; Gentry 1982; W&S]

*Agave neomexicana* Wooton & Standley

*schottii* Engelm [Gentry 1982; M&H; Reveal & Hodgson 2002; W&S]

*Agave geminiflora* (Tagl.) Ker-Gawler var. *sonorae* Torrey

*Anthericum flavescens* J.A. & J.H. Schultes = *Echeandia flavescens* (J.A. & J.H. Schultes) Cruden

*serotinum* Linnaeus = *Gagea serotina* (Linnaeus) Ker Gawler (Liliaceae)

*torreyi* Baker = *Echeandia flavescens* (J.A. & J.H. Schultes) Cruden

*torreyi* Baker var. *neomexicanum* Poellnitz = *Echeandia flavescens* (J.A. & J.H. Schultes) Cruden

*Dasylyrion*...go to Ruscaceae

#### **Echeandia** crag-lily

Cruden, R.W. 2002. *Echeandia*, pp. 215-216. IN: *Flora of North America*, vol. 26. Oxford University Press, New York.

*flavescens* (J.A. & J.H. Schultes) Cruden [Cruden 2002; M&H; W&S]

*Anthericum torreyi* Baker

*Anthericum torreyi* Baker var. *neomexicanum* Poellnitz

*Hesperaloe parviflora* (Torrey) J.M. Coulter : Commonly cultivated as a landscape ornamental in the arid regions of the state; not known in the wild.

#### **Leucocrinum** star-lily

Reveal, J.L. & F.H. Utech. 2002. *Leucocrinum*, pp. 217-218. IN: *Flora of North America*, vol. 26. Oxford University Press, New York.

*montanum* Nuttall ex Gray [M&H; Reveal & Utech 2002; W&S]

*Nolina*...go to Ruscaceae

#### **Yucca** yucca

Benson, L. & R.A. Darrow. 1981. *Trees and Shrubs of the Southwestern Deserts*. 3rd ed. Univ. Arizona Press. 416 p.

Hall, H.H. & S. Flowers. 1961. Vascular plants found in the Navajo Reservoir Basin, pp. 47-87. IN: D.M. Pendergast (ed.). *Ecological studies of the flora and fauna of Navajo Reservoir Basin, Colorado and New Mexico*. Univ. Utah Anthropological Papers, number 55. [*Yucca whipplei*]

Hess, W.J. & R.L. Robbins. 2002. *Yucca*, pp. 423-439. IN: *Flora of North America*, vol. 26. Oxford University Press, New York.

Johnson, M.B. 2000. Observations on some Chihuahuan Desert Yuccas. *Desert Plants* 16(1):14-19.

- Lenz, L.W. & M.A. Hanson. 2000. Typification and change in status of *Yucca schottii* (Agavaceae). *Aliso* 19(1):93-98.
- Lenz, L.W. & M.A. Hanson. 2001. *Yuccas* (Agavaceae) of the international four corners: southwestern USA and northwestern Mexico. *Aliso* 19(2):165-179.
- McKelvey, S.D. 1934, 1947. *Yuccas* of the southwestern United States. [part 1, 1934; part 2, 1947]. Arnold Arboretum, Jamaica Plain, Massachusetts.
- Sivinski, R.C. 2008. Some observations on the dry, dehiscent-fruited *Yuccas* in New Mexico. *The New Mexico Botanist* 43:1-4.
- Webber, J.M. 1953. *Yuccas* of the Southwest. USDA Agric. Monogr. No. 17.
- angustifolia* Pursh = *Yucca glauca* Nuttall
- angustissima*** Engelmann ex Trelease var. ***angustissima*** [Hess & Robbins 2002; M&H]
- arizonica* McKelvey = *Yucca baccata* Torrey var. *brevifolia* (Schott) Benson & Darrow
- baccata*** Torrey var. ***baccata*** [Hess & Robbins 2002; M&H; W&S]
- banana yucca
- baccata*** Torrey var. ***brevifolia*** (Schott ex Torrey) Benson & Darrow [Benson & Darrow 1981; Hess & Robbins 2002]
- banana yucca
- Yucca arizonica* McKelvey
- Yucca brevifolia* Schott ex Torrey
- baccata* Torrey var. *macrocarpa* Torrey = *Yucca treculiana* Carrière
- baileyi*** Wooton & Standley var. ***baileyi*** [Hess & Robbins 2002; M&H; W&S]
- Yucca baileyi* Wooton & Standley var. *navajoa* (Webber) Webber
- Yucca navajoa* Webber
- Yucca standleyi* McKelvey
- +*baileyi*** Wooton & Standley var. ***intermedia*** (McKelvey) Reveal [Hess & Robbins 2002; McKelvey 1934]
- Yucca intermedia* McKelvey
- baileyi* Wooton & Standley var. *navajoa* (Webber) Webber = *Yucca baileyi* Wooton & Standley
- brevifolia* Schott ex Torrey = *Yucca baccata* Torrey var. *brevifolia* (Schott ex Torrey) Benson & Darrow
- campestris*** McKelvey [M&H; McKelvey 1934]
- Yucca intermedia* McKelvey var. *ramosa* McKelvey
- elata*** (Engelmann) Engelmann [Hess & Robbins 2002; M&H; W&S]
- soaptree yucca
- Yucca angustifolia* Pursh var. *elata* Engelmann
- faxoniana*** Sargent [Johnson 2000]
- glauca*** Nuttall [Hess & Robbins 2002; M&H; W&S]
- Yucca angustifolia* Pursh
- Yucca glauca* Nuttall var. *gurneyi* McKelvey
- glauca* Nuttall var. *gurneyi* McKelvey = *Yucca glauca* Nuttall
- harrimaniae* Trelease : Reported by Hess & Robbins (2002), M&H, and W&S, but authentic specimens unknown; awaits verification.
- harrimaniae* Trelease var. *neomexicana* (Wooton & Standley) Reveal = *Yucca neomexicana* Wooton & Standley
- intermedia* McKelvey = *Yucca baileyi* Wooton & Standley var. *intermedia* (McKelvey) Reveal
- intermedia* McKelvey var. *ramosa* McKelvey = *Yucca campestris* McKelvey
- macrocarpa* (Torrey) Engelmann = *Yucca treculiana* Carrière
- madrensis*** Gentry [Hess & Robbins 2002; Lenz & Hanson 2000, 2001; M&H; W&S]
- Yucca schottii* auctores non Engelmann
- navajoa* Webber = *Yucca baileyi* Wooton & Standley
- neomexicana*** Wooton & Standley [Hess & Robbins 2002; M&H; W&S]
- Yucca harrimaniae* Trelease var. *neomexicana* (Wooton & Standley) Reveal
- schottii* auctores non Engelmann = *Yucca madrensis* Gentry
- ×***schottii*** Engelmann pro. sp. Note: Lenz & Hanson (2000) apply this name to hybrids involving *Yucca baccata* × *Y. elata* × *Y. madrensis*; see *Yucca madrensis* Gentry.
- standleyi* McKelvey = *Yucca baileyi* Wooton & Standley var. *baileyi*
- torreyi* Shafer = *Yucca treculiana* Carrière
- treculiana*** Carrière [M&H; W&S]

- Yucca baccata* Torrey var. *macrocarpa* Torrey  
*Yucca macrocarpa* (Torrey) Engelm  
*Yucca torreyi* Shafer forma *parviflora* McKelvey  
*Yucca torreyi* Shafer  
*torreyi* Shafer forma *parviflora* McKelvey = *Yucca treculiana* Carrière  
*whipplei* Torrey [= *Hesperoyucca whipplei* (Torrey) Trelease] : Reported by Hall & Flowers (1961), but this occurs only in southern California.

**Family ALISMATACEAE** [3/9/9]

Haynes, R.R. & C.B. Hellquist. 2000. Alismataceae, p. 7-25. IN: Flora North America, vol. 22. Oxford University Press.

***Alisma*** water-plantain

- Allred, K.W. 1999. New plant distribution records. The New Mexico Botanist 13:7. [*Alisma subcordatum*]  
 Fernald, M.L. 1946. The North American representatives of *Alisma plantago-aquatica*. Rhodora 48:86-88.  
 Hendricks, A.J. 1957. A revision of the genus *Alisma* (Dill.) L. Amer. Midl. Naturalist 58:470-493.  
 Pogan, E. 1963. Taxonomical value of *Alisma triviale* Pursh and *Alisma subcordatum* Rafin. Canad. J. bot. 41:1011-1013.

*berteroi* Sprengel = *Echinodorus berteroi* (Sprengel) Fassett

*brevipes* Greene = *Alisma triviale* Pursh

*geyeri* Torrey = *Alisma gramineum* K.C. Gmelin

***gramineum*** K.C. Gmelin [M&H]

*Alisma geyeri* Torrey

*Alisma gramineum* K.C. Gmelin var. *geyeri* (Torrey) Samuelsson

*gramineum* K.C. Gmelin var. *geyeri* (Torrey) Samuelsson = *Alisma gramineum* K.C. Gmelin

*plantago-aquatica* sensu W&S = *Alisma triviale* Pursh

*plantago-aquatica* Linnaeus var. *americanum* Schultes & Schultes f. = *Alisma triviale* Pursh

***subcordatum*** Rafinesque [Allred 1999]

***triviale*** Pursh [M&H; W&S]

*Alisma brevipes* Greene

*Alisma plantago-aquatica* sensu W&S

*Alisma plantago-aquatica* Linnaeus var. *americanum* Schultes & Schultes f.

***Echinodorus*** burr-head

Great Plains Flora Association. 1977. Atlas of the Flora of the Great Plains. Iowa State Univ. Press. 600 pp. [*Echinodorus berteroi*]

***berteroi*** (Sprengel) Fassett [Great Plains Flora Association 1977]

*Alisma berteroi* Sprengel

*Echinodorus rostratus* (Nuttall) Engelm

*rostratus* (Nuttall) Engelm = *Echinodorus berteroi* (Sprengel) Fassett

*Lophotocarpus calycinus* (Engelm) J.G. Smith = *Sagittaria montevidensis* Chamisso & Schlechtendal subsp. *calycina* (Engelm) Bogin

***Sagittaria*** arrowhead

Bogin, C. 1955. A revision of the genus *Sagittaria*. Mem. New York Bot. Gard. 9:179-233.

Haynes, R.R. & C.B. Hellquist. 2000. Alismataceae, p. 7-25. IN: Flora of North America, vol. 22. Oxford University Press.

*arifolia* Nuttall = *Sagittaria cuneata* Sheldon

*brevirostra* Mackenzie & Bush Note: Reported by M&H, but no specimens known; awaits verification.

*Sagittaria engelmanniana* J.G. Smith subsp. *brevirostra* (Mackenzie & Bush)

Bogin

*calycina* Engelm = *Sagittaria montevidensis* Chamisso & Schlechtendal subsp. *calycina* (Engelm) Bogin

***cuneata*** Sheldon [Haynes & Hellquist 2000; M&H; W&S]

*Sagittaria arifolia* Nuttall

***demersa*** J.G. Small [Haynes & Hellquist 2000]

*engelmanniana* J.G. Smith subsp. *brevirostra* (Mackenzie & Bush) Bogin = *Sagittaria brevirostra* Mackenzie & Bush

*graminea* Michaux : Reported by M&H, but the specimen in question belongs to *Sagittaria demersa* J.G. Small

*greggii* J.G. Smith = *Sagittaria longiloba* Engelm ex J.G. Smith

*latifolia* Willdenow [M&H]

*longiloba* Engelm ex J.G. Smith [M&H]

*Sagittaria greggii* J.G. Smith

*montevidensis* Chamisso & Schlechtendal subsp. *calycina* (Engelmann) Bogin

[Haynes & Hellquist 2000; M&H; W&S]

*Sagittaria calycina* Engelm

*Lophotocarpus calycinus* (Engelmann) J.G. Smith

**Family ALLIACEAE** [2/13/14]

Judd, W.S., C.S. Campbell, E.A. Kellogg, P.F. Stevens, & M.J. Donoghue. 2016. Plant Systematics: A Phylogenetic Approach, 4<sup>th</sup> ed. Sinauer Associates, Inc., Sunderland, Massachusetts. 677 pp.

**Allium** onion

McNeal, D.W. Jr. & T.D. Jacobsen. 2002. *Allium*, pp. 224-276. IN: Flora of North America, vol. 26. Oxford University Press, New York.

Sivinski, R.C. 1998. Annotated checklist of the genus *Allium* (Liliaceae) in New Mexico. New Mexico Naturalist's Notes 1(1):43-56.

Spellenberg, R., R. Worthington, P. Knight, & R. Fletcher. 1986. Additions to the flora of New Mexico. Sida 11(4):455-470. [*Allium acuminatum*]

Wheeler, E.J., S. Mashayekhi, D.W. McNeal, J.T. Columbus and J.C. Pires. 2013. Molecular Systematics of *Allium* subgenus *Amerallium* (Amaryllidaceae) in North America. American Journal of Botany 100(4):701-711.

*acuminatum* Hooker [McNeal & Jacobsen 2002; Sivinski 1998; Spellenberg et al. 1986]

*bigelovii* S. Watson [M&H; McNeal & Jacobsen 2002; Sivinski 1998; W&S]

*bisceptrum* S. Watson [M&H; McNeal & Jacobsen 2002; Sivinski 1998; W&S]

*Allium bisceptrum* S. Watson var. *palmeri* (S. Watson) Cronquist

*Allium palmeri* S. Watson

*bisceptrum* S. Watson var. *palmeri* (S. Watson) Cronquist = *Allium bisceptrum* S. Watson

*brevistylum* S. Watson : Reported by M&H and McNeal & Jacobsen (2002), but these reports are in error [Sivinski 1998; Sivinski pers. comm.].

*cernuum* Roth [M&H; McNeal & Jacobsen 2002; Sivinski 1998; W&S]

nodding onion

*Allium cernuum* Roth var. *neomexicanum* (Rydberg) MacBride

*Allium cernuum* Roth var. *obtusum* Cockerell ex MacBride

*Allium neomexicanum* Rydberg

*Allium recurvatum* Rydberg

*cernuum* Roth var. *neomexicanum* (Rydberg) MacBride = *Allium cernuum* Roth

*cernuum* Roth var. *obtusum* Cockerell ex MacBride = *Allium cernuum* Roth

*deserticola* (M.E. Jones) Wootton & Standley = *Allium macropetalum* Rydberg

*drummondii* Regel [M&H; McNeal & Jacobsen 2002; Sivinski 1998; W&S]

*Allium helleri* Small

*Allium nuttallii* S. Watson

*funiculosum* A. Nelson = *Allium geyeri* S. Watson var. *geyeri*

*geyeri* S. Watson var. *geyeri* [M&H; McNeal & Jacobsen 2002; Sivinski 1998; W&S]

*Allium funiculosum* A. Nelson

*geyeri* S. Watson var. *tenerum* M.E. Jones [M&H; McNeal & Jacobsen 2002; Sivinski 1998; W&S]

*Allium rubrum* Osterhout

*Allium sabulicola* Osterhout

*glandulosum* sensu M&H, not Link & Otto = *Allium rhizomatum* Wootton & Standley

*gooddingii* M. Ownbey [M&H; McNeal & Jacobsen 2002; Sivinski 1998]

*helleri* Small = *Allium drummondii* Regel

*kunthii* G. Don [M&H; McNeal & Jacobsen 2002; Sivinski 1998; W&S]

*Allium scaposum* Bentham

*macropetalum* Rydberg [M&H; McNeal & Jacobsen 2002; Sivinski 1998; W&S]

*Allium deserticola* (M.E. Jones) Wootton & Standley

*neomexicanum* Rydberg = *Allium cernuum* Roth

*nuttallii* S. Watson = *Allium drummondii* Regel

*palmeri* S. Watson = *Allium bisceptrum* S. Watson

*perdulce* Fraser var. *perdulce* [M&H; McNeal & Jacobsen 2002; Sivinski 1998]

*recurvatum* Rydberg = *Allium cernuum* Roth

*reticulatum* Fraser = *Allium textile* A. Nelson & Macbride

**rhizomatum** Wootton & Standley [M&H; McNeal & Jacobsen 2002; Sivinski 1998; W&S]

*Allium glandulosum* sensu M&H, not Link & Otto

*rubrum* Osterhout = *Allium geyeri* S. Watson var. *tenerum* M.E. Jones

*sabulicola* Osterhout = *Allium geyeri* S. Watson var. *tenerum* M.E. Jones

*scaposum* Bentham = *Allium kunthii* G. Don

**textile** A. Nelson & Macbride [M&H; McNeal & Jacobsen 2002; Sivinski 1998]

*Allium reticulatum* Fraser

**Nothoscordum** crow-poison

Jacobsen, T.D. & D.W. McNeal, Jr. 2002. *Nothoscordum*, pp. 276-278. IN: Flora of North America, vol. 26. Oxford University Press, New York.

**bivalve** (Linnaeus) Britton [Jacobsen & McNeal 2002; M&H]

*Nothoscordum texanum* M.E. Jones

*Ornithogalum bivalve* Linnaeus

*texanum* M.E. Jones = *Nothoscordum bivalve* (Linnaeus) Britton

*Ornithogalum bivalve* Linnaeus = *Nothoscordum bivalve* (Linnaeus) Britton

*hirsutum* Linnaeus = *Hypoxis hirsuta* (Linnaeus) Coville (Hypoxidaceae)

**Family AMARYLLIDACEAE** [1/2/2]

Chase, M.W., J.L. Reveal, & M.F. Fay. 2009. A subfamilial classification for the expanded asparagalean families Amaryllidaceae, Asparagaceae and Xanthorrhoeaceae. Bot. J. Linn. Soc. 161(2): 132-136.

Judd, W.S., C.S. Campbell, E.A. Kellogg, P.F. Stevens, & M.J. Donoghue. 2016. Plant Systematics: A Phylogenetic Approach, 4<sup>th</sup> ed. Sinauer Associates, Inc., Sunderland, Massachusetts. 677 pp.

Meerow, A.W., M.F. Fay, C.L. Guyk, Q.-B. Li, F.Q. Zaman, & M.W. Chase. 1999. Systematics of Amaryllidaceae based on cladistic analysis of plastid rbcL and trnL-F sequence data. Amer. J. Bot. 86(9):1325-1345.

*Agave*...go to AGAVACEAE

*Amaryllis candida* Lindley = *Zephyranthes candida* (Lindley) Herbert

*Atamosco longifolia* (Hemsley) Cockerell = *Zephyranthes longifolia* Hemsley

*Cooperia drummondii* Herbert = *Zephyranthes chlorosolen* (Herbert) D. Dietrich

*Habranthus longifolius* (Hemsley) Flagg, Smith & Meerow = *Zephyranthes longifolia* Hemsley

*Hypoxis*...go to HYPOXIDACEAE

**Zephyranthes** zephyr-lily

Flagg, R.O., G.L. Smith, & W.S. Flory. 2002. *Zephyranthes*, pp. 296-303. IN: Flora of North America, vol. 26. Oxford University Press, New York.

Spellenberg, R., M. Mahrt & R. Brozka. 1991. Noteworthy collections, New Mexico. Madroño 38:298-301. [*Zephyranthes chlorosolen*]

*brazosensis* Traub = *Zephyranthes chlorosolen* (Herbert) D. Dietrich

**candida** (Lindley) Herbert [FNM I]

*Amaryllis candida* Lindley

*chlorosolen* (Herbert) D. Dietrich : Reported by Spellenberg et al. (1991), but a reexamination of the specimen determined it to be *Zephyranthes longifolia* Hemsley.

*Cooperia drummondii* Herbert

*Zephyranthes brazosensis* Traub

**longifolia** Hemsley [Flagg et al. 2002; M&H]

*Atamosco longifolia* (Hemsley) Cockerell

*Habranthus longifolius* (Hemsley) Flagg, Smith & Meerow

Family ANTHERICACEAE = AGAVACEAE

**Family ARACEAE** [2/10/10]

[Lemnaceae]

Daubs, E.H. 1965. A monograph of Lemnaceae. Illinois Biol. Monogr. 34:1-118.

French, J.C., M.G. Chung, & Y.K. Hur. 1995. Chloroplast DNA phylogeny of the Ariflorae, pp. 255-275.. IN: Randall, P.J., P.J. Cribb, D.F. Cutler, & C.J. Humphries (eds.). Monocotyledons: Systematics and Evolution. Royal Botanic Gardens, Kew.

Judd, W.S., C.S. Campbell, E.A. Kellogg, P.F. Stevens, & M.J. Donoghue. 2016. Plant Systematics: A Phylogenetic Approach, 4<sup>th</sup> ed. Sinauer Associates, Inc., Sunderland, Massachusetts. 677 pp.

Landolt, E. 2000. Lemnaceae, p. 143-153. IN: Flora North America, vol. 22. Oxford University Press.

Mayo, S.J., J. Bogner, & P. Boyce. 1995. The Arales, pp. 277-286. IN: Randall, P.J., P.J. Cribb, D.F. Cutler, & C.J. Humphries (eds.). Monocotyledons: Systematics and Evolution. Royal Botanic Gardens, Kew.

**Lemna** duckweed

Correll, D.S. & H.B. Correll. 1972. Aquatic and Wetland Plants of Southwestern United States. Stanford Univ. Press. [*Lemna obscura*]  
 DeLange, L. & A.H. Pieterse. 1973. A comparative study of the morphology of *Lemna gibba* L. and *Lemna minor* L. Acta Bot. Neerl. 22:510-517.  
 Hellquist, C.B. 2013. Araceae, pp. 132-134. IN: K.D. Heil, S.L. O’Kane, Jr., L.M. Reeves, & A. Clifford. Flora of the Four Corners Region. Missouri Botanical Garden Press, St. Louis. 1098 pp. [*Lemna perpusilla*]  
 Landolt, E. 2000. Lemnaceae, p. 143-153. IN: Flora of North America, vol. 22. Oxford University Press.  
 McGrath, J. 2000. New plant distribution records. The New Mexico Botanist 15:7. [*Lemna turionifera*]  
 Reveal, J.L. 1990. The neotypification of *Lemna minuta* Humboldt, Bonpland & Kunth, an earlier name for *Lemna minuscula* Herter (Lemnaceae). Taxon 39:328-330.

**aequinoctialis** Welwitsch [Landolt 2000; M&H]

*Lemna perpusilla* Torrey var. *trinervis* Austin

**gibba** Linnaeus [Landolt 2000; M&H]

*minima* Philippi = *Lemna minuta* Kunth

**minor** Linnaeus [Landolt 2000; M&H; W&S]

*minor* Linnaeus var. *obscura* Austin = *Lemna obscura* (Austin) Daubs

**minuta** Kunth [Landolt 2000; M&H; W&S]

*Lemna minima* Philippi

**obscura** (Austin) Daubs [Correll & Correll 1972]

*Lemna minor* Linnaeus var. *obscura* Austin

**perpusilla** Torrey [Hellquist 2013]

*perpusilla* Torrey var. *trinervis* Austin = *Lemna aequinoctialis* Welwitsch

*polyrhiza* Linnaeus = *Spirodela polyrhiza* (Linnaeus) Schleiden

**trisluca** Linnaeus [Landolt 2000; M&H; W&S]

**turionifera** Landolt [Landolt 2000; McGrath 2000]

**valdiviana** Philippi [Landolt 2000]

**Spirodela** duckmeat

Landolt, E. 2000. Lemnaceae, p. 143-153. IN: Flora of North America, vol. 22. Oxford University Press.

**polyrhiza** (Linnaeus) Schleiden [M&H; W&S]

*Lemna polyrhiza* Linnaeus

**Family ASPARAGACEAE** [1/1/1]

Judd, W.S., C.S. Campbell, E.A. Kellogg, P.F. Stevens, & M.J. Donoghue. 2016. Plant Systematics: A Phylogenetic Approach, 4<sup>th</sup> ed. Sinauer Associates, Inc., Sunderland, Massachusetts. 677 pp.

**Asparagus** asparagus

Straley, G.B. & F.H. Utech. 2002. *Asparagus*, pp. 213-214. IN: Flora of North America, vol. 26. Oxford University Press, New York.

**\*officinalis** Linnaeus [M&H; Straley 2002; W&S]

**Family ASPHODELACEAE** [1/1/1]

Judd, W.S., C.S. Campbell, E.A. Kellogg, P.F. Stevens, & M.J. Donoghue. 2016. Plant Systematics: A Phylogenetic Approach, 4<sup>th</sup> ed. Sinauer Associates, Inc., Sunderland, Massachusetts. 677 pp.

**Asphodelus** onionweed

Spellenberg, R., R. Worthington, P. Knight, & R. Fletcher. 1986. Additions to the flora of New Mexico. Sida 11(4):455-470. [*Asphodelus fistulosus*]

Straley, G.B. & F.H. Utech. 2002. *Asphodelus*, pp. 218-219. IN: Flora of North America, vol. 26. Oxford University Press, New York.

**\*fistulosus** Linnaeus [Spellenberg et al. 1986; Straley & Utech 2002]

*Hemerocallis*...go to HEMEROCALLIDACEAE

**Family BROMELIACEAE** [1/1/1]

*Renalmia recurvata* Linnaeus = *Tillandsia recurvata* (Linnaeus) Linnaeus

**Tillandsia** Spanish-moss

Luther, H.E. & G.K. Brown. 2000. *Tillandsia*, p. 288-296. IN: Flora North America, vol. 22. Oxford University Press.

Wagner, W.L. 1979. New records to the Animas Mountain flora, New Mexico. Southw. Naturalist 24(2):291-296. [*Tillandsia recurvata*]

***recurvata*** (Linnaeus) Linnaeus [Wagner 1979]  
*Renealmia recurvata* Linnaeus

Family **CALOCHORTACEAE** = LILIACEAE

Family **COMMELINACEAE** [2/5/6]

Faden, R.B. 2000. Commelinaceae, p. 170-197. IN: Flora North America, vol. 22. Oxford University Press.

Tucker, G.C. 1989. The genera of Commelinaceae in the southeastern United States. J. Arnold Arbor. 70:97-130.

***Commelina*** dayflower

Brashier, C.K. 1966. A revision of *Commelina* (Plum.) L. in the U.S.A. Bull. Torrey Bot. Club 93:1-19.

*angustifolia* Michaux = *Commelina erecta* Linnaeus

*crispa* Wooton = *Commelina erecta* Linnaeus

***dianthifolia*** Delile [Faden 2000; M&H; W&S]

*Commelina dianthifolia* Delile var. *filiformis* M.E. Jones

*Commelina dianthifolia* Delile var. *longispatha* (Torrey) Brashier

*Commelina linearis* Bentham var. *longispatha* Torrey

*dianthifolia* Delile var. *filiformis* M.E. Jones = *Commelina dianthifolia* Delile

*dianthifolia* Delile var. *longispatha* (Torrey) Brashier = *Commelina dianthifolia* Delile

***erecta*** Linnaeus [Faden 2000; M&H; W&S]

*Commelina angustifolia* Michaux

*Commelina crispa* Wooton

*Commelina erecta* Linnaeus var. *angustifolia* (Michaux) Fernald

*Commelina erecta* Linnaeus var. *crispa* (Wooton) Palmer & Steyermark

*Commelina erecta* Linnaeus var. *deamiana* Fernald

*erecta* Linnaeus var. *angustifolia* (Michaux) Fernald = *Commelina erecta* Linnaeus

*erecta* Linnaeus var. *crispa* (Wooton) Palmer & Steyermark = *Commelina erecta* Linnaeus

*erecta* Linnaeus var. *deamiana* Fernald = *Commelina erecta* Linnaeus

*linearis* Bentham var. *longispatha* Torrey = *Commelina dianthifolia* Delile

***Tradescantia*** spiderwort

Anderson, E. & R.E. Woodson. 1935. The species of *Tradescantia* indigenous to the United States. Contr. Arnold Arbor. 9:1-132.

Faden, R.B. 1993. *Tradescantia crassifolia* (Commelinaceae), an overlooked species in the southwestern United States. Ann. Missouri Bot. Gard. 80:219-222.

Hershey, A.L. & P.J. Leyendecker, Jr. 1944. Notes on plants of New Mexico – III. Leaflet. West. Bot. 4(2):21-25. [*Tradescantia wrightii*]

Spellenberg, R. 1979. Chromosome numbers from some federally proposed threatened or endangered southwestern angiosperms and other miscellaneous taxa. Southw. Naturalist 24:187-189. [*Tradescantia wrightii*]

*crassifolia* Cavanilles : Included in Kartesz's (1999) list for NM, but Faden (1993) questions, with good evidence, the validity of the single specimen attributed to NM; awaits verification.

***occidentalis*** (Britton) Smyth var. ***occidentalis*** [Faden 2000; M&H; W&S]

*Tradescantia virginica* Linnaeus var. *occidentalis* Britton

***occidentalis*** (Britton) Smyth var. ***scopulorum*** (Rose) Anderson & Woodson [Faden 2000; M&H; W&S]

*Tradescantia scopulorum* Rose

***pinetorum*** Greene [Faden 2000; M&H; W&S]

*Tradescantia tuberosa* Greene

*scopulorum* Rose = *Tradescantia occidentalis* (Britton) Smyth var. *scopulorum* (Rose) Anderson & Woodson

*tuberosa* Greene = *Tradescantia pinetorum* Greene

*virginica* Linnaeus var. *occidentalis* Britton = *Tradescantia occidentalis* (Britton) Smyth var. *occidentalis*

***wrightii*** Rose & Bush [Faden 2000; Hershey & Leyendecker 1944; Spellenberg 1979]

Family **CONVALLARIACEAE** = RUSCACEAE

**Family CYPERACEAE** [13/154/156]

- Bruhl, J.J. 1995. Sedge genera of the world: relationships and a new classification of the Cyperaceae. *Australian Systematic Botany* 8(2):125-305.
- Cronquist, A. 1977. Cyperaceae, p. 67-174. IN: *Intermountain Flora*, Vol. 6 (Monocotyledons). New York Botanical Garden. 584 pp.
- Huygh, W., I. Larridon, M. Reynders, A.M. Muasya, R. Govaerts, D.A. Simpson, & P. Goetghebeur. 2010. Nomenclature and typification of names of genera and subdivisions of genera in *Cyperaceae* (Cyperaceae): I. Names of genera in the *Cyperus* clade. *Taxon* 59(6):1883-1890.
- Tucker, G.C. 1987. The genera of Cyperaceae in the southeastern United States. *J. Arnold Arbor.* 68:361-445.

**Bolboschoenus** bulrush

- Beetle, A.A. 1942. Studies in the genus *Scirpus* L. IV. The section *Bolboschoenus* Pallas Amer. *J. Bot.* 42:82-88.
- Browning, J., K.D. Gordon-Gray, & S.G. Smith. 1995. Achene structure and taxonomy of North American *Bolboschoenus* (Cyperaceae). *Brittonia* 47(4):433-445.
- Rothrock, P.E. 2009. *Bolboschoenus*, pp. 60-63. IN: *Sedges of Indiana and the adjacent states, the non-Carex species*. Indiana Academy of Science.
- Smith, S.G. 1995. New combinations in North American *Schoenoplectus*, *Bolboschoenus*, *Isolepis*, and *Trichophorum* (Cyperaceae). *Novon* 5:97-102.
- Smith, S.G. 2002. *Bolboschoenus*, pp. 37-44. IN: *Flora of North America*, vol. 23. Oxford University Press. *fluviatilis* (Torrey) V. Soják : Reported by M&H, but authentic specimens are unknown; awaits verification.
- Scirpus fluviatilis* (Torrey) Gray
- Scirpus maritimus* Linnaeus var. *fluviatilis* Torrey
- maritimus** (Linnaeus) Palla subsp. **paludosus** (A. Nelson) T. Koyama [M&H; W&S]
- Scirpus brittonianus* Piper
- Scirpus campestris* Britton
- Scirpus maritimus* Linnaeus var. *paludosus* (A. Nelson) Koyama
- Scirpus paludosus* A. Nelson

**Bulbostylis** hair-sedge

- Kral, R. 1971. A treatment of *Abildgaardia*, *Bulbostylis* and *Fimbristylis* (Cyperaceae) for North America. *Sida* 4:57-227.
- Kral, R.. 2002. *Bulbostylis*, pp.131-136. IN: *Flora of North America*, vol. 23. Oxford University Press. *californica* Torrey & Gray = *Brickellia californica* (Torrey & Gray) Gray [Asteraceae]
- capillaris** (Linnaeus) Kunth ex C.B. Clarke [Kral 2002; M&H; W&S]
- Scirpus capillaris* Linnaeus
- Stenophyllus capillaris* (Linnaeus) Britton
- funkii** (Steudel) C.B. Clarke [Kral 2002; M&H; W&S]
- Isolepis funkii* Steudel
- Stenophyllus funkii* (Steudel) Britton
- juncoides* (Vahl) Kükenthal : Reported by Kral (1971, 2002), but authentic specimens are unknown; may yet be found in Bootheel region; awaits verification.
- Schoenus juncoides* Vahl
- schaffneri** (Boeckeler) C.B. Clarke [Kral 2002; M&H]
- Scirpus schaffneri* Boeckeler

**Carex** sedge, caric-sedge

- Allred, K.W. 2000. New plant distribution records. *The New Mexico Botanist* 14:4. [*Carex planostachys*]
- Alexander, P. 2017. iNaturalist observation of *Carex leucodonta* T. Holm, <https://www.inaturalist.org/observations/9256402>, accessed 24 Feb 2020.
- Ball, P.W. & A.A. Reznicek. 2002. *Carex*, pp. 254-572. IN: *Flora of North America*, vol. 23. Oxford University Press.
- Cochrane, T.S. 1981. Noteworthy collections (New Mexico). *Madroño* 28:186-187. [*Carex leptopoda*]
- Coop, J. 2002. Plant distribution reports. *The New Mexico Botanist* 24:7. [*Carex phaeocephala*]
- Coop, J. 2003. Plant distribution reports. *The New Mexico Botanist* 25:7. [*Carex brunnescens*, *Carex conoidea*]
- Gillespie, E.L. 2005. Phylogeography of *Carex eburnea* (Cyperaceae) and the systematics of the *Carex eburnea* complex. Thesis Appalachian State University
- Hartman, R.L. 1973. New plant records for New Mexico. *Southwestern Naturalist* 18(2):241-242. [*Carex elynoides*, *Carex oreocharis*, *Carex praticola*]
- Hartman, R.L., B. Reif, B.E. Nelson, & B. Jacobs. 2006. New vascular plant records for New Mexico. *Sida* 22(2):1225-1233. [*Carex deweyana*, *Carex rosea*]
- Heil, K. & S. O'Kane. 2007. Plant distribution reports. *The New Mexico Botanist* 41:7. [*Carex nigricans*, *Carex praeceptorium*]



- Hermann, F.J. 1970. Manual of the Carices of the Rocky Mountains and Colorado Basin. USDA Agric. Handb. No. 374.
- Hermann, F.J. 1974. Manual of the Genus *Carex* in Mexico and Central America. USDA Agric. Handb. No. 467.
- Hipp, A. 2003. Plant distribution reports. The New Mexico Botanist 28:8. [*Carex egglestonii*]
- Jones, S.D., C.T. Bryson, and J.E. Ubelaker. 1993. *Carex blanda* and *Kyllinga odorata* (Cyperaceae) new to New Mexico and a significant range extension of *Cyperus retrorsus*. Sida 15(3):552-553.
- Keller, C.F. 2005. Plant distribution reports. The New Mexico Botanist 32:7. [*Carex pyrenaica*]
- Keller, C.F. 2010. Plant distribution reports. The New Mexico Botanist 52:4. [*Carex luzulina ablata*]
- Legler, B.S. 2010. Additions to the vascular flora of New Mexico. J. Bot. Res. Inst. Texas 4(2):777-784. [*Carex microglochis*, *Carex nelsonii*]
- Mackenzie, K.K. 1915. Two new sedges from the southwestern United States. Smithsonian Misc. Collect. 65(7):1-3. [*Carex wootonii*, *Carex rusbyi*]
- Mackenzie, K.K. 1931-1935. North American Flora. 18. Cyperaceae, Tribe 2, Caricae. New York Botanical Garden.
- McGrath, J. 1999. New plant distribution records. The New Mexico Botanist 12:8. [*Carex diandra*]
- McGrath, J. 2000. New plant distribution records. The New Mexico Botanist 15:7. [*Carex geyeri*, *Carex jonesii*]
- McGrath, J. 2002. Plant distribution reports. The New Mexico Botanist 24:7. [*Carex illota*]
- McGrath, J. 2003. Plant distribution reports. The New Mexico Botanist 25:7. [*Carex macloviana*]
- McGrath, J. 2005. Plant distribution reports (*Carex deweyana*). The New Mexico Botanist 33:7.
- McGrath, J., M. Licher, W.R. Norris & G. Rink. 2015. A review of *Carex* in New Mexico: Initial findings. The New Mexico Botanist 63: 1-8.
- Murray, D.F. 1969. Taxonomy of *Carex* sect. *Atratae* (Cyperaceae) in the southern Rocky Mountains. Brittonia 21:55-76.
- Mygatt, J. 2009. Plant distribution reports [*Carex tahoensis*]. The New Mexico Botanist 46:7.
- Norris, W.R. 2012. Plant distribution reports [*Carex gynocrates*, *Carex limosa*, *Carex tetrastachys*, *Carex vesicaria*]. The New Mexico Botanist 56:2.
- Norris, W.R. 2012. Plant distribution reports [*Carex scopulorum*, *Carex senta*]. The New Mexico Botanist 57:3.
- Peterson, R.S. 2000. New plant distribution records. The New Mexico Botanist 15:7. [*Carex angustior*, *Carex sprengelii*]
- Peterson, R.S. 2010. Plant distribution reports. The New Mexico Botanist 50:3. [*Carex lachenalii*]
- Reznicek, A.A. 1993. Revision of *Carex* section *Ovales* (Cyperaceae) in Mexico. Contr. Univ. Michigan Herb. 19:97-137.
- Rink, G. & Licher, M. 2015 Cyperaceae. Sedge Family. Part 1: Family Description, Key to Genera, and *Carex* L. Canotia 11: 1-97
- Roalson, E.H., S.D. Jones, & K.W. Allred. 1995. *Carex amplifolia* and *Carex rossii* (Cyperaceae), new to New Mexico and a key to section *Montanae* in New Mexico. Sida 16(3):592-594.
- Sivinski, R.C. 2001. New plant distribution records. The New Mexico Botanist 20:8. [*Carex albonigra*]
- Standley, L.A. 1985. Systematics of the *Acutae* group of *Carex* (Cyperaceae) in the Pacific Northwest. Syst. Bot. Monogr. 7:1-106.
- Weber, W.A., B.C. Johnston, & D. Wilken. 1979. Additions to the flora of Colorado. VI. Phytologia 41(7):486-500. [*Carex rostrata* vs. *Carex utriculata*]
- Worthington, R.D. 1999. New plant distribution records. The New Mexico Botanist 10:7. [*Carex muriculata*]
- Worthington, R.D. 2002. New plant distribution records. The New Mexico Botanist 22:7. [*Carex lativena*]
- Worthington, R.D. 2003. Plant distribution records. The New Mexico Botanist 26:7. [*Carex chihuahuensis*]
- Worthington, R.D. 2004. Plant distribution reports. The New Mexico Botanist 29:7. [*Carex microdonta*]
- Worthington, R. 2005. Plant distribution reports (*Arnica latifolia*, *Carex bebbii*, *Carex capitata*, *Carex garberi*). The New Mexico Botanist 32:7.
- Worthington, R. 2011. Plant distribution reports (*Carex frankii*). The New Mexico Botanist 53:4.  
*ablata* L.H. Bailey = *Carex luzulina* Olney var. *ablata* L.H. Bailey  
*aenea* of authors, not Fernald = *Carex siccata* Dewey  
***agrostoides* Mackenzie**  
 Carex alma of NM reports  
*Carex chihuahuensis* Mackenzie  
***albonigra* Mackenzie** [Ball & Reznicek 2002; M&H; Sivinski 2001]  
 alma of NM reports = *Carex agrostoides* Mackenzie; *Carex agrostoides* Mackenzie was formerly considered a synonym of *Carex alma* L.H. Bailey, leading to its being reported for NM.  
*alpina* Liljeblad var. *stevenii* T.Holm = *Carex stevenii* (T. Holm) Kalela  
***amplifolia* F. Boott** [Ball & Reznicek 2002; Roalson et al. 1995]  
*angustior* Linnaeus = *Carex echinata* Mur.  
**“*apachense*” ined.** Note: this is a provisional name pending analysis and publication; no nomenclatural novelty is intended herein.

- aquatilis** Wahlenberg var. **aquatilis** [Ball & Reznicek 2002; M&H; W&S]  
*Carex variabilis* Bailey
- atherodes** Sprengel [Ball & Reznicek 2002; M&H; W&S]
- athrostachya** Olney [M&H]  
*Carex tenuirostris* Olney
- atrata* of NM reports = *Carex chalciolepis* T. Holm
- aurea** Nuttall [Ball & Reznicek 2002; M&H; W&S]
- aureolensis** Steudel [Ball & Reznicek 2002]  
*Carex frankii* sensu M&H
- bebbii** (L.H. Bailey) Olney ex Fernald [Worthington 2005]  
*Carex tribuloides* W. Herbert var. **bebbii** L.H. Bailey
- bella** Bailey [Ball & Reznicek 2002; M&H; Murray 1969; W&S]  
*bicknellii* Britton : Reported as expected by M&H; no authentic specimens are known; awaits verification.
- bipartita* Allioni var. *austromontana* F.J. Hermann = *Carex lachenalii* Schkuhr
- blanda** Dewey [Ball & Reznicek 2002; Jones et al. 1993]
- bolanderi** Olney [Ball & Reznicek 2002; M&H; W&S]  
*Carex deweyana* Schweinitz var. **bolanderi** (Olney) W. Boott
- brevior** (Dewey) Mackenzie ex Lunell [Ball & Reznicek 2002; M&H; W&S]  
*Carex festucacea* Schkuhr var. **brevior** (Dewey) Fernald  
*Carex straminea* Willdenow var. **brevior** Dewey
- brevipes** W. Boott ex B.D. Jackson [FNM I]  
*Carex deflexa* Hornemann var. **boothii** L.H. Bailey  
*Carex globosa* F. Boott var. **brevipes** W. Boott ex Mackenzie  
*Carex rossii* W. Boott var. **brevipes** (W. Boott ex B.D. Jackson) Kukenthal
- brittoniana* Bailey = *Carex tetrastachya* Scheele
- brunnescens** (Persoon) Poirét subsp. **brunnescens** [Coop 2003]  
*Carex curta* Goodenough var. **brunnescens** Persoon
- buxbaumii** Wahlenberg [McGrath et al. 2015]
- camporum* Mackenzie = *Carex praegracilis* W. Boott
- canescens** Linnaeus subsp. **canescens** [Ball & Reznicek 2002; M&H]
- capillaris** Linnaeus [Ball & Reznicek 2002; M&H; W&S]  
*Carex capillaris* Linnaeus var. **elongata** Olney  
*Carex capillaris* Linnaeus var. **major** Drejer  
*capillaris* Linnaeus var. **elongata** Olney = *Carex capillaris* Linnaeus  
*capillaris* Linnaeus var. **major** Drejer = *Carex capillaris* Linnaeus
- capitata* Linnaeus : Reported by Worthington (2005), but the specimen in question belongs to *Carex gynocrates* Wormskjold ex Drejer
- chalciolepis** T. Holm [Ball & Reznicek 2002; M&H; Murray 1969]  
*Carex atrata* of NM reports  
*Carex atrata* Linnaeus var. **chalciolepis** (Holm) Kukenthal  
*Carex heteroneura* W. Boott var. **chalciolepis** (Holm) F.J. Hermann
- chihuahuensis* Mackenzie = *Carex agrostoides* Mackenzie
- conoidea** Willdenow [Coop 2003]
- crandalli* Gandoger = *Carex micropoda* C.A. Meyer
- curta* Goodenough var. **brunnescens** Persoon = *Carex brunnescens* (Persoon) Poirét
- deflexa* Hornemann var. **boothii** L.H. Bailey = *Carex brevipes* W. Boott ex B.D. Jackson
- deweyana** Schweinitz var. **deweyana** [Hartman 2006; McGrath 2005]
- deweyana* Schweinitz var. **bolanderi** (Olney) W. Boott = *Carex bolanderi* Olney
- diandra** Schrank [McGrath 1999]
- dioica* Linnaeus var. **gynocrates** (Wormskjold ex Drejer) Ostenfeld = *Carex gynocrates* Wormskjold ex Drejer
- disperma** Dewey [Ball & Reznicek 2002; M&H; W&S]  
*Carex tenella* Schkuhr
- douglasii** F. Boott [Ball & Reznicek 2002; M&H; W&S]
- drummondiana* Dewey = *Carex rupestris* Bellardi
- duriuscula** C.A. Meyer [M&H]  
*Carex eleocharis* Bailey

- Carex stenophylla* auctores  
*Carex stenophylla* Wahlenberg var. *eleocharis* (Bailey) Breitung
- ebenea** Rydberg [Ball & Reznicek 2002; M&H; W&S]
- eburnea** Boott [FNM I]
- echinata** Murray var. *echinata* [Peterson 2000]  
*Carex angustior* Linnaeus
- egglestonii** Mackenzie [Hipp 2003]
- eleocharis* Bailey = *Carex duriuscula* C.A. Meyer
- elynoides** Holm [Ball & Reznicek 2002; Hartman 1973; M&H]  
*Carex filifolia* Nuttall var. *miser* Bailey
- emoryi** Dewey [Ball & Reznicek 2002; M&H; W&S]  
*Carex stricta* Lamarck var. *emoryi* Bailey
- festiva* Dewey = *Carex macloviana* d'Urville
- festiva* sensu W&S = *Carex microptera* Mackenzie
- festivella* Mackenzie = *Carex microptera* Mackenzie
- festucacea* var. *brevior* (Dewey) Fernald = *Carex brevior* (Dewey) Mackenzie
- filifolia** Nuttall var. **filifolia** [Ball & Reznicek 2002; M&H; W&S]
- filifolia* Nuttall var. *miser* Bailey = *Carex elynoides* Holm
- foenea* Fernald var. *tuberculata* F.J. Hermann = *Carex siccata* Dewey
- foenea* of authors, not Fernald = *Carex siccata* Dewey
- frankii* sensu M&H & as reported by Worthington (2011), non Kunth = *Carex aureolensis* Steudel
- garberi Fernald : Reported by Worthington (2005), but the specimen in question belongs to *Carex aurea* Nuttall
- geophila** Mackenzie [Ball & Reznicek 2002; M&H; W&S]
- geyeri** Boott [McGrath 2000]
- globosa* Boott var. *brevipes* W. Boott ex Mackenzie = *Carex brevipes* W. Boott ex B.D. Jackson
- gravida** L.H. Bailey [Ball & Reznicek 2002; M&H; W&S]  
*Carex gravida* Bailey var. *lunelliana* (Mackenzie) F.J. Hermann  
*Carex lunelliana* Mackenzie
- gravida* Bailey var. *lunelliana* (Mackenzie) F.J. Hermann = *Carex gravida* L.H. Bailey
- gynocrates** Wormskjold ex Drejer [Norris 2012]  
*Carex dioica* Linnaeus var. *gynocrates* (Wormskjold ex Drejer) Ostenfield  
*Carex dioica* Linnaeus subsp. *gynocrates* (Wormskjold ex Drejer) Hulthen
- halleri Gunn. [= *Carex norvegica* Retzius] : Not known from NM; our material referred to *Carex stevenii* Holm [S.D. Jones, pers. comm.].
- hassei Bailey : Not yet known from NM, but sometimes reported incorrectly as a synonym of *Carex aurea* Nuttall
- haydeniana** Olney [FNM I]  
*Carex macloviana* D'Urville subsp. *haydeniana* (Olney) R.L. Taylor & MacBryde
- heliophila** Mackenzie [Ball & Reznicek 2002; M&H; W&S]  
*Carex inops* Bailey subsp. *heliophila* (Mackenzie) Crins  
*Carex pennsylvanica* Lamarck var. *digyna* Boeckeler  
*Carex pennsylvanica* Lamarck subsp. *heliophila* (Mackenzie) W.A. Weber
- heteroneura* W. Boott var. *chalciolepis* (Holm) F.J. Hermann = *Carex chalciolepis* T. Holm
- hystericina** Muhlenberg ex Willdenow [Ball & Reznicek 2002; M&H; W&S]
- illota** L.H. Bailey [McGrath 2002]
- inops* Bailey subsp. *heliophila* (Mackenzie) Crins = *Carex heliophila* Mackenzie
- interior** Bailey [M&H; W&S]
- jonesii** Bailey [McGrath 2000]
- kelloggii** W. Boott [M&H; W&S] Note: Not reported for NM by Ball & Reznicek (2002), but occurring in the western 1/3 of NM.  
*Carex lenticularis* Michaux var. *lipocarpa* (Holm) L. Standley  
*Carex lenticularis* Michaux var. *pallida* (W. Boott) Dorn  
*Carex vulgaris* Fries var. *lipocarpa* Holm
- lachenalii** Schkuhr [Peterson 2010]

- Carex bipartita* Allioni var. *austromontana* F.J. Hermann  
*lanuginosa* auctores non Michaux = *Carex pellita* Muhlenberg ex Willdenow  
*latebrosa* Mackenzie = *Carex praegracilis* W. Boott  
*lativena* S.D. & G.D. Jones = *Carex planostachys* Kunze  
*lenticularis* Michaux var. *lipocarpa* (Holm) L. Standley = *Carex kelloggii* W. Boott  
*lenticularis* Michaux var. *pallida* (W. Boott) Dorn = *Carex kelloggii* W. Boott  
**leptalea** Wahlenberg [Ball & Reznicek 2002; M&H]  
 leptopoda Mackenzie : Reported by Cochrane (1981), but without locality nor specimen citation; no specimens are known; awaits verification.  
**leucodonta** T. Holm [Alexander 2017]  
*liddonii* Boott = *Carex petasata* Dewey  
*limnophila* F.J. Hermann = *Carex microptera* Mackenzie  
**limosa** Linnaeus [M&H; Norris 2012]  
*limosa* Linnaeus var. *irrigua* Wahlenburg = *Carex magellanica* Lamarck subsp. *irrigua* (Wahlenburg) Hiitonen  
*lunelliana* Mackenzie = *Carex gravida* L.H. Bailey  
**luzulina** Olney var. **ablata** (L.H. Bailey) F.J. Hermann [Keller 2010]  
*Carex ablata* L.H. Bailey  
**macloviana** d'Urville [McGrath 2003]  
*Carex festiva* Dewey  
*macloviana* D'Urville subsp. *festivella* (Mackenzie) A. Love & D. Love = *Carex microptera* Mackenzie  
*macloviana* D'Urville subsp. *haydeniana* (Olney) R.L. Tayloe & MacBryde – *Carex haydeniana* Olney  
*macloviana* D'Urville var. *limnophila* (F.J. Hermann) Dorn = *Carex microptera* Mackenzie  
*macloviana* D'Urville var. *microptera* (Mackenzie) B. Boivin = *Carex microptera* Mackenzie  
*macloviana* D'Urville subsp. *pachystachya* (Chamisso ex Steudel) Hulten = *Carex pachystachya* Chamisso ex Steudel  
*macloviana* D'Urville subsp. *subfusca* (W. Boott) T. Koyama = *Carex subfusca* W. Boott  
**magellanica** Lamarck subsp. **irrigua** (Wahlenburg) Hiitonen [McGrath et al. 2015]  
*Carex limosa* Linnaeus var. *irrigua* Wahlenburg  
*Carex paupercula* Michaux  
 meadii Dewey : Reported as expected by M&H; not likely to occur in NM.  
*media* of NM authors = *Carex stevenii* (T. Holm) Kalela  
*media* R. Brown var. *stevenii* (Holm) Fernald = *Carex stevenii* (T. Holm) Kalela  
**microdonta** Torrey & Hooker [Ball & Reznicek 2002; Worthington 2004]  
**microgloch** Wahlenberg subsp. **microgloch** [Legler 2010]  
**micropoda** C.A. Meyer [Keller 2005]  
*Carex crandalli* Gandoger  
*Carex pyrenaica* Wahlenberg subsp. *micropoda* (C.A. Meyer) Hultén  
**microptera** Mackenzie [Ball & Reznicek 2002; M&H]  
*Carex festivella* Mackenzie  
*Carex limnophila* F.J. Hermann  
*Carex macloviana* D'Urville var. *microptera* (Mackenzie) B. Boivin  
*Carex macloviana* D'Urville var. *limnophila* (F.J. Hermann) Dorn  
*Carex macloviana* D'Urville subsp. *festivella* (Mackenzie) A. Love & D. Love  
**muriculata** F.J. Hermann [Ball & Reznicek 2002; Worthington 1999]  
**nebrascensis** Dewey [Ball & Reznicek 2002; M&H; W&S]  
**nelsonii** Mackenzie [Legler 2010]  
*neomexicana* Mackenzie = *Carex occidentalis* Bailey  
 nigricans Meyer : Reported by Heil & O'Kane (2007), but the specimen in question belongs to *Carex jonesii* Bailey  
*norvegica* Retzius subsp. *stevenii* (T. Holm) E. Murray = *Carex stevenii* (T. Holm) Kalela  
**nova** Bailey [Ball & Reznicek 2002; M&H; Murray 1969; W&S]  
**obtusata** Liljeblad [Ball & Reznicek 2002; M&H; W&S]  
**occidentalis** Bailey [Ball & Reznicek 2002; M&H; W&S]  
*Carex neomexicana* Mackenzie

- oederi* auctores non Retzius = *Carex viridula* Michaux  
*oederi* Retzius subsp. *viridula* (Michaux) Kukenthal = *Carex viridula* Michaux  
**oreocharis** Holm [Hartman 1973; M&H]  
*paupercula* Michaux = *Carex magellanica* Lamarck subsp. *irrigua* (Wahlenburg) Hiitonen  
**pachystachya** Chamisso ex Steudel [FNM I]  
*Carex macloviana* D'Urville subsp. *pachystachya* (Chamisso ex Steudel) Hulten  
**pellita** Muhlenberg ex Willdenow [Ball & Reznicek 2002; M&H; W&S]  
*Carex lanuginosa* auctores non Michaux  
*pennsylvanica* Lamarck var. *digyna* Boeckeler = *Carex heliophila* Mackenzie  
**petasata** Dewey [M&H; Mackenzie 1915]  
*Carex liddonii* Boott  
**phaeocephala** Piper [Coop 2002]  
**pityophila** Mackenzie [Ball & Reznicek 2002; M&H; W&S]  
**planostachys** Kunze [Allred 2000]  
*Carex lativena* S.D. & G.D. Jones  
**praeceptorum** Mackenzie [Tallent 1987]  
**praegracilis** W. Boott [Ball & Reznicek 2002; M&H; W&S]  
*Carex camporum* Mackenzie  
*Carex latebrosa* Mackenzie  
**praticola** Rydberg [Hartman 1973; M&H]  
*pyrenaica* Wahlenberg : Reported by Keller (2005), but our North American plants are referable to *Carex micropoda* C.A. Meyer [Ball & Reznicek 2002]  
*pyrenaica* Wahlenberg subsp. *micropoda* (C.A. Meyer) Hultén = *Carex micropoda* C.A. Meyer  
**radiata** (Wahlenberg) Small [FNM I]  
*Carex stellulata* Goodenough var. *radiata* Wahlenberg  
*rosea* Schkuhr ex Willdenow : Reported by Hartman et al. (2006), but the plants in question belong to *Carex radiata* (Wahlenberg) Small, as verified by A. Reznicek.  
**rossii** F. Boott [Ball & Reznicek 2002; Roalson et al. 1995]  
**“aff. rossii” ined.** Note: This is a provisional name used by D.B. Poindexter in work in progress; no nomenclatural novelty is intended herein.  
*rossii* W. Boott var. *brevipes* (W. Boott ex B.D. Jackson) Kukenthal = *Carex brevipes* W. Boott ex B.D. Jackson  
*rostrata* Stokes : Not known from NM; our material mostly referable to *Carex utriculata* F. Boott [Ball & Reznicek 2002; Weber et al. 1979].  
*rostrata* of NM reports = *Carex utriculata* F. Boott  
**rupestris** Bellardi ex Allioni [Hermann 1970]  
*Carex rupestris* Bellardi ex Allioni var. *drummondiana* (Dewey) Bailey  
*Carex drummondiana* Dewey  
*rusbyi* Mackenzie = *Carex vallicola* Dewey  
**saxatilis** Linnaeus [McGrath et al. 2015]  
**scoparia** Schkuhr ex Willdenow var. **scoparia** [M&H; W&S]  
**scopulorum** Holm var. **scopulorum** [Norris 2012]  
**senta** F. Boott [M&H; Norris 2012]  
**siccata** Dewey [Ball & Reznicek 2002; M&H; W&S]  
*Carex aenea* of authors, not Fernald  
*Carex foenea* of authors, not Willdenow  
*Carex foenea* Fernald var. *tuberculata* F.J. Hermann  
*simpliciuscula* Wahlenberg = *Kobresia simpliciuscula* (Wahlenberg) Mackenzie  
**simulata** Mackenzie [Ball & Reznicek 2002; M&H; W&S]  
*spissa* of NM reports = *Carex ultra* L.H. Bailey  
*spissa* L.H. Bailey var. *ultra* (L.H. Bailey) Kükenthal = *Carex ultra* L.H. Bailey  
**sprengelii** Dewey [Peterson 2000]  
*stellulata* Goodenough var. *radiata* Wahlenberg = *Carex radiata* (Wahlenberg) Small  
*stenophylla* auctores = *Carex duriuscula* C.A. Meyer  
*stenophylla* Wahlenberg var. *eleocharis* (Bailey) Breitung = *Carex duriuscula* C.A. Meyer  
**stevanii** (T. Holm) Kalela [Ball & Reznicek 2002; M&H; Murray 1969; W&S]

- Carex alpina* Liljeblad var. *stevernii* T.Holm  
*Carex media* of NM authors  
*Carex media* R. Brown var. *stevernii* (Holm) Fernald  
*Carex norvegica* Retzcius subsp. *stevernii* (Holm) E. Murray  
***stipata*** Muhlenberg ex Willdenow var. ***stipata*** [Ball & Reznicek 2002; M&H; W&S]  
 stricta Lamarck : Reported by Ball & Reznicek (2002) and others, but not occurring in  
 NM; see McGrath et al. (2015).  
*straminea* Willdenow var. *brevior* Dewey = *Carex brevior* (Dewey) Mackenzie ex Lunell  
*stricta* Lamarck var. *emoryi* Bailey = *Carex emoryi* Dewey  
***subfusca*** W. Boott [Ball & Reznicek 2002; Reznicek 1993; W&S]  
*Carex macloviana* D'Urville subsp. *subfusca* (W. Boott) T. Koyama  
***tahoensis*** Smiley [Mygatt 2009]  
*tenella* Schkuhr = *Carex disperma* Dewey  
***tenera*** Dewey var. ***tenera*** [Abrams 1940-1960; McGrath 2012]  
*tenuirostris* Olney = *Carex athrostachya* Olney  
 tetrastachya Scheele : Reported by M&H, but authentic specimens are unknown; awaits  
 verification.  
*Carex brittoniana* Bailey  
*tribuloides* W. Herbert var. *bebbii* L.H.Bailey = *Carex bebbii* (L.H. Bailey) Olney ex  
 Fernald  
***ultra*** L.H. Bailey  
*Carex spissa* L.H. Bailey var. *ultra* (L.H. Bailey) Kükenthal  
***utriculata*** F. Boott [Ball & Reznicek 2002; M&H; W&S]  
*Carex rostrata* of NM reports  
***vallicola*** Dewey [Ball & Reznicek 2002; M&H; W&S]  
*Carex rusbyi* Mackenzie  
*Carex vallicola* Dewey var. *rusbyi* (Mackenzie) F.J. Hermann  
*vallicola* Dewey var. *rusbyi* (Mackenzie) F.J. Hermann = *Carex vallicola* Dewey  
*variabilis* Bailey = *Carex aquatilis* Wahlenberg  
***vesicaria*** Linnaeus [M&H; Norris 2012]  
***viridula*** Michaux var. ***viridula*** [Ball & Reznicek 2002; M&H]  
*Carex oederi* auctores  
*Carex oederi* Retzcius subsp. *viridula* (Michaux) Kükenthal  
*vulgaris* Fries var. *lipocarpa* Holm = *Carex kelloggii* W. Boott  
***vulpinoidea*** Michaux [Ball & Reznicek 2002; M&H]  
***wootonii*** Mackenzie [Ball & Reznicek 2002; M&H; W&S]  
 xerantica Bailey : Reported by M&H, but authentic specimens are unknown; not likely to  
 ever occur in NM.

### ***Cladium***

saw-grass

- Allred, K.W. 2003. Plant distribution reports. The New Mexico Botanist 26:7. [*Cladium californicum*]  
 Tucker, G.C. 2002. *Cladium*, pp. 240-242. IN: Flora of North America, vol. 23. Oxford University Press.  
***californicum*** (S. Watson) O'Neill [Allred 2003; M&H; W&S]  
*Cladium mariscus* (Linnaeus) Pohl var. *californicum* S. Watson  
*mariscus* (Linnaeus) Pohl var. *californicum* S. Watson = *Cladium californicum* (S. Watson)  
 O'Neill

### ***Cyperus***

flat-sedge

- Adams, T. 1998. New plant distribution records. The New Mexico Botanist 7:6. [*Cyperus bipartitus*]  
 Alexander, P. 2018. iNaturalist observation for *Cyperus andinus* (as *C. seslerioides*).  
<https://www.inaturalist.org/observations/16154558>, accessed 24 Feb 2020  
 Allred, K.W. 1999. New plant distribution records. The New Mexico Botanist 13:7. [*Cyperus rotundus*]  
 Bauters, K., I. Larridon, M. Reyniers, P. Asselman, A. Vrijdagas, A. Muasya, D. Simpson, & P.  
 Goetghebeur. 2014. A new classification for *Lipocarpa* and *Volkiella* as infrageneric taxa of  
*Cyperus* s.l. (Cypereae, Cyperoidae, Cyperaceae): insights from species tree reconstruction  
 supplemented with morphological and floral developmental data. Phytotaxa 166(1): 33-48.  
 Carter, R. & S.D. Jones. 1997. Notes on the *Cyperus retroflexus* complex (Cyperaceae) with three  
 nomenclatural proposals. Rhodora 99:319-334.  
 Dai, L., G.C. Tucker, & D.A. Simpson. 2010. *Cyperus*, pp. 219-241. IN: Flora of China, vol. 23. Missouri  
 Botanical Garden Press.  
 Friedland, S. 1941. The American species of *Hemicarpha*. Amer. J. Bot. 28:855-861. [*Cyperus*  
*subsquarrosus*]

- Goetghebeus, P. & A. Van den Borre. 1999. *Lipocarpha*, pp. 405-407. IN: Flora of Missouri, vol. 1. The Missouri Botanical Garden Press.
- Horvat, M.L. 1941. A revision of the subgenus *Mariscus* found in the U.S.A. Catholic Univ. Amer., Biol. Ser. 33:1-147. [*Cyperus niger*]
- Jones, S.D., C.T. Bryson, and J.E. Ubelaker. 1993. *Carex blanda* and *Kyllinga odorata* (Cyperaceae) new to New Mexico and a significant range extension of *Cyperus retrorsus*. Sida 15(3):552-553.
- Jones, S.D., A.A. Reznicek, & G.D. Jones. 1993. *Cyperus setigerus* (Cyperaceae) new for New Mexico. Sida 15(4):655-656.
- Jones, S.D., J.K. Wipff, & R. Carter. 1996. Nomenclatural combinations in *Cyperus* (Cyperaceae). Phytologia 80(4):288-290.
- Kessler, J.W. 1984. *Cyperus ovalaris* (Michaux) Torrey var. *cylindricus* (Ell.) Torrey new to New Mexico. Sida 10:258. [*Cyperus retrorsus*]
- Larridon, I., K. Bauters, M. Reynders, W. Huygh, & P. Goetghebeur. 2014. Taxonomic changes in C<sub>4</sub> *Cyperus* (Cyperaceae, Cyperoidae, Cyperaceae): combining the sedge genera *Ascolepis*, *Kyllinga* and *Pycreus* into *Cyperus* s.l. Phytotaxa 166(1): 1-32.
- Schippers, P., S.J. Ter Borg, & J.J. Bos. 1995. A revision of the infraspecific taxonomy of *Cyperus esculentus* (yellow nutsedge) with an experimentally evaluated character set. Syst. Bot. 20(4):461-481.
- Tucker, G.C. 1984. A revision of the genus *Kyllinga* Rottboell (Cyperaceae) in Mexico and Central America. Rhodora 86:507-538.
- Tucker, G.C. 1985. *Cyperus flavicomus*, the correct name for *Cyperus albomarginatus*. Rhodora 87:539-541.
- Tucker, G.C. 1994. Revision of the Mexican species of *Cyperus* (Cyperaceae). Syst. Bot. Monogr. 43:1-213.
- Tucker, G.C. 1996. New plant distribution records. The New Mexico Botanist 4:8. [*Cyperus strigosus*]
- Tucker, G.C. 2002. *Kyllinga*, pp. 193-194. IN: Flora of North America, vol. 23. Oxford University Press.
- Tucker, G.C. 2002. *Lipocarpha*, pp. 195-197. IN: Flora of North America, vol. 23. Oxford University Press. [*Cyperus subsquarrosus*]
- Tucker, G.C., B.G. Marcks, & J.R. Carter. 2002. *Cyperus*, pp. 141-191. IN: Flora of North America, vol. 23. Oxford University Press.
- Worthington, R.D. 2009. Plant distribution reports [*Cyperus pseudothyrsiflorus*]. The New Mexico Botanist 48:7.

**acuminatus** Torrey & Hooker ex Torrey [M&H; W&S] Note: Not reported for NM by Tucker et al. (2002), but listed for all states surrounding NM.

*Cyperus cyrtolepis* Torrey & Hooker

aggregatus (Willdenow) Endlicher : Reported by M&H, Tucker (1994), Tucker et al. (2002), but authentic specimens are unknown.

*Cyperus flavus* (Hahl) Nees

*Cyperus huarmensis* (Kunth) M.C. Johnston

*Mariscus aggregatus* Willdenow

*albomarginatus* (Martius & Schrader ex Nees) Steudel = *Cyperus flavicomus* Michaux

**andinus** Palla ex Kuhnthal [Alexander 2018]

aristulata (Coville) Bauters : Reported by Friedland (1941) & Tucker (2002), but authentic specimens are unknown.

*Hemicarpha micrantha* (Vahl) Pax var. *aristulata* Coville

*Lipocarpha aristulata* (Coville) G. Tucker

*aristatus* Rottboell = *Cyperus squarrosus* Linnaeus

**bipartitus** Torrey [Adams 1998; Tucker et al. 2002]

*Cyperus rivularis* Kunth

compressus Linnaeus : Reported by Tucker (1994), but authentic specimens are unknown; not likely to occur in NM.

*cylindricus* (Elliott) Britton = *Cyperus retrorsus* Chapman

*cyrtolepis* Torrey & Hooker = *Cyperus acuminatus* Torrey & Hooker

\**difformis* Linnaeus : Reported by Tucker (1994) & Tucker et al. (2002), but authentic specimens are unknown; it is increasing in southern Arizona, and may yet be found in NM; awaits verification.

dipsaceus Liebmann : Reported by Tucker (1994) and Tucker et al. (2002), based on Wright's number 1947, from "N. Mex." (the type of *Cyperus wrightii* Britton); his collection, however, is from the Huachuca Mountains of southern Arizona; awaits verification.

*Cyperus wrightii* Britton

echinatus (Linnaeus) Wood : Kartesz (1999) reports this species for NM, apparently based on a misinterpretation of *Cyperus ovalaris* sensu stricto in Tucker (1984); awaits verification.

- elegans* Linnaeus : Reported by Tucker (1994) & Tucker et al. (2002), but authentic specimens are unknown.
- erythrorhizos*** Muhlenberg [M&H; Tucker et al. 2002; W&S]
- esculentus*** Linnaeus [M&H; Tucker et al. 2002; W&S]  
 chufa, yellow nut-sedge  
*Cyperus esculentus* var. *leptostachyus* Boeckeler  
*Cyperus esculentus* Linnaeus var. *macrostachyus* Boeckeler  
*esculentus* var. *leptostachyus* Boeckeler = *Cyperus esculentus* Linnaeus  
*esculentus* Linnaeus var. *macrostachyus* Boeckeler = *Cyperus esculentus* Linnaeus  
*fendlerianus* Boeckeler var. *debilis* (Britton) Kükenthal = *Cyperus sphaerolepis* Boeckeler  
***fendlerianus*** Boeckeler [M&H; Tucker et al. 2002; W&S]  
*ferax* L.C.M. Richard = *Cyperus odoratus* Linnaeus var. *squarrosus* (Britton) Jones, Wipff, & Carter  
*ferruginescens* Boeckeler = *Cyperus odoratus* Linnaeus var. *squarrosus* (Britton) Jones, Wipff, & Carter  
*filiculmis* sensu western authors [= *Cyperus lupulinus* (Sprengel) B.G. Marcks] : Reported as expected by M&H; awaits verification; the true *Cyperus filiculmis* Vahl is a species of the eastern coastal plains. [Tucker 1994].
- flavicomus*** Michaux [M&H; Tucker 1985; Tucker et al. 2002]  
*Cyperus albomarginatus* (Martius & Schrader ex Nees) Steudel
- floribundus*** (Kükenthal) J. Rich, Carter & S.D. Jones [FNM I]  
*Cyperus uniflorus* Torrey & Hooker var. *floribundus* Kükenthal
- \*glomeratus** Linnaeus [FNM I]  
*flavus* (Hahl) Nees = *Cyperus aggregatus* (Willdenow) Endlicher  
*hemidrummondii* Goetghebeur : Reported by M&H, W&S, but authentic specimens are unknown.  
*Lipocarpa drummondii* (Nees) G. Tucker  
*Hemicarpha drummondii* Nees  
*Hemicarpha micrantha* (Vahl) Pax var. *drummondii* (Nees) Friedland  
*huarmensis* (Kunth) M.C. Johnston = *Cyperus aggregatus* (Willdenow) Endlicher  
*inflexus* Muhlenberg = *Cyperus squarrosus* Linnaeus  
*laevigatus* Linnaeus : Reported as expected by M&H; not likely to occur in NM.  
*lupulinus* (Sprengel) B.G. Marcks : Reported as expected by M&H (as *Carex filiculmis*); not likely to occur in NM.
- \*michelianus** (Linnaeus) Link [FNM I]  
*myosuroides* Villars = *Kobresia myosuroides* (Villars) Fiori & Paoli
- niger*** Ruiz & Pavón [Horvat 1941; Tucker et al. 2002]  
*Cyperus niger* Ruiz & Pavón var. *capitatus* (Britton) O'Neill  
*Cyperus niger* Ruiz & Pavón var. *castaneus* (S. Watson) Kükenthal  
*niger* Ruiz & Pavón var. *capitatus* (Britton) O'Neill = *Cyperus niger* Ruiz & Pavón  
*niger* Ruiz & Pavón var. *castaneus* (S. Watson) Kükenthal = *Cyperus niger* Ruiz & Pavón
- odoratus*** Linnaeus [M&H; Tucker et al. 2002; W&S]  
*Cyperus ferax* L.C.M. Richard  
*Cyperus ferruginescens* Boeckeler  
*Cyperus odoratus* Linnaeus var. *squarrosus* (Britton) Jones, Wipff, & Carter  
*Cyperus speciosus* Vahl  
*Cyperus speciosus* Vahl var. *squarrosus* Britton
- pallidicolor*** (Kükenthal) G. Tucker [Tucker et al. 2002]  
*Cyperus subambiguus* Kükenthal var. *pallidicolor* Kükenthal
- parishii*** Britton [M&H; Tucker et al. 2002; W&S]  
*Cyperus sphaelatus* Britton  
*pseudothyrsiflorus* (Kükenthal) R. Carter & S.D. Jones : Reported by Worthington (2009), but the specimen in question belongs to *Carex pallidicolor* (Kükenthal) G. Tucker.  
*Cyperus uniflorus* Torrey & Hooker var. *pseudothyrsiflorus* Kükenthal
- retroflexus*** Buckley [Carter & Jones 1997; M&H; Tucker et al. 2002; W&S]  
*Cyperus uniflorus* Torrey & Hooker, non Thunberg  
*Cyperus uniflorus* Torrey & Hooker var. *pumilus* Britton  
*Cyperus retroflexus* Buckley var. *pumilis* (Britton) R. Carter & S.D. Jones



**retrorsus** Chapman [Kessler 1984]

*Cyperus cylindricus* (Elliott) Britton

*rivularis* Kunth = *Cyperus bipartitus*

\***rotundus** Linnaeus [Allred 1999; Tucker et al. 2002]

*rusbyi* Britton = *Cyperus sphaerolepis* Boeckeler

**schweinitzii** Torrey [Tucker et al. 2002]

*seslerioides* Kunth : Reported as expected by M&H; authentic specimens are unknown; occurs in Mexico; our plants called this belong to *Cyperus andinus* Palla ex Kukenthal.

**sesquiflorus** (Torrey) Mattfeld & Kükenthal [Jones 1993]

*Kyllinga odorata* Vahl

**setigerus** Torrey & Hooker [Jones et al. 1993; Tucker et al. 2002]

*speciosus* Vahl = *Cyperus odoratus* Linnaeus var. *squarrosus* (Britton) Jones, Wipff, & Carter

*speciosus* Vahl var. *squarrosus* Britton = *Cyperus odoratus* Linnaeus var. *squarrosus* (Britton) Jones, Wipff, & Carter

*spectabilis* Link : Reported by Kartesz (1999), but authentic specimens unknown.

*sphacelatus* Britton = *Cyperus parishii* Britton

**sphaerolepis** Boeckeler [M&H; Tucker 1994; Tucker et al. 2002; W&S]

*Cyperus fendlerianus* Boeckeler var. *debilis* (Britton) Kükenthal

*Cyperus rusbyi* Britton

**squarrosus** Linnaeus [M&H; Tucker et al. 2002; W&S]

*Cyperus aristatus* Rottboell Note: This name is illegitimate, being superfluous at the time of publication.

*Cyperus inflexus* Muhlenberg

**strigosus** Linnaeus [Tucker 1996; Tucker et al. 2002]

*subambiguus* Kükenthal var. *pallidicolor* Kükenthal = *Cyperus pallidicolor* (Kükenthal) G.C. Ticker

**subsquarrosus** (Muhlenberg) Bauters [Friedland 1941; Tucker 2002]

*Hemicarpha micrantha* (Vahl) Britton

*Lipocarpha micrantha* (Vahl) G.C. Tucker

*Scirpus micranthus* Vahl

*tetragonus* Elliott : Reported by Tucker et al. (2002), but authentic specimens are unknown.

*uniflorus* Torrey & Hooker, non Thunberg = *Cyperus retroflexus* Buckley var. *pumilus* (Britton) R. Carter & S.D. Jones

*uniflorus* Torrey & Hooker var. *floribundus* Kükenthal = *Cyperus floribundus* (Kükenthal) J.R. Carter & S.D. Jones

*uniflorus* Torrey & Hooker var. *pseudothyrsiflorus* Kükenthal = *Cyperus pseudothyrsiflorus* (Kükenthal) R. Carter & S.D. Jones

*uniflorus* Torrey & Hooker var. *pumilus* Britton = *Cyperus retroflexus* Buckley var. *pumilus* (Britton) R. Carter & S.D. Jones

*wrightii* Britton = *Cyperus dipsaceus* Liebmann

**Eleocharis** spike-rush

Allred, K.W. 1999. New plant distribution records. The New Mexico Botanist 13:7. [*Eleocharis geniculata*]

Harms, L.J. 1972. Cytotaxonomy of the *Eleocharis tenuis* complex. Amer. J. Bot. 59:483-487.

Hartman, R.L. 1973. New plant records for New Mexico. Southwestern Naturalist 18(2):241-242.

[*Eleocharis compressa*]

Larson, B.M.H. & P.M. Catling. 1996. The separation of *Eleocharis obtusa* and *Eleocharis ovata* (Cyperaceae) in eastern Canada. Can. J. Bot. 74:238-242.

Rothrock, P.E. 2009. *Eleocharis*, pp. 101-142. IN: Sedges of Indiana and the adjacent states, the non-*Carex* species. Indiana Academy of Science.

Sivinski, R.C., T. Lowrey, & C. Keller. 1995 [1996]. Additions to the floras of Colorado and New Mexico. Phytologia 79(5):319-324. [*Eleocharis bella*]

Smith, S.G. 2001. Taxonomic innovations in North American *Eleocharis* (Cyperaceae). Novon 11(2):241-257. [*Eleocharis acicularis porcata*]

Smith, S.G., J.J. Bruhl, M.S. Gonzalez-Elizondo, & F.J. Menapace. 2002. *Eleocharis*, pp. 60-120. IN: Flora of North America, vol. 23. Oxford University Press.

**acicularis** (Linnaeus) Roemer & Schultes [Smith 2001; Smith et al. 2002]

*Eleocharis acicularis* (Linnaeus) Roemer & Schultes var. *porcata* S.G. Smith

*Scirpus acicularis* Linnaeus

- acicularis* (Linnaeus) Roemer & Schultes var. *bella* Piper = *Eleocharis bella* (Piper) Svenson
- acicularis* (Linnaeus) Roemer & Schultes var. *porcata* S.G. Smith = *Eleocharis acicularis* (Linnaeus) Roemer & Schultes
- acicularis* (Linnaeus) Roemer & Schultes var. *radicans* (Poiret) Britton = *Eleocharis radicans* (A. Dietrich) Kunth
- acutisquamata* Buckley = *Eleocharis compressa* Sullivant var. *acutisquamata* (Buckley) S.G. Smith
- albida* Torrey : Reported by Smith et al. (2002), but this seems unlikely and no specimens are known.
- arenicola* Torrey = *Eleocharis montevidensis* Kunth
- atropurpurea*** (Retzius) J. & C. Presl [M&H; Smith et al. 2002]  
*Scirpus atropurpureus* Retzius
- bella*** (Piper) Svenson [Sivinski et al. 1995; Smith et al. 2002]  
*Eleocharis acicularis* (Linnaeus) Roemer & Schultes var. *bella* Piper  
*cancellata* S. Watson : Reported as expected by M&H; authentic specimens unknown.  
*caribaea* auctores non (Rottboell) S.F. Blake = *Eleocharis geniculata* (Linnaeus) Roemer & Schultes
- coloradoensis*** (Britton) Gilly [M&H; Smith et al. 2002]  
*Eleocharis parvula* sensu M&H  
*Eleocharis parvula* (Roemer & Schultes) Link ex Bluff, Nees & Schauer var. *anachaeta* (Torrey) Svenson  
*Scirpus coloradoensis* Britton
- compressa*** Sullivant var. ***acutisquamata*** (Buckley) S.G. Smith [Hartman 1973; M&H; Smith et al. 2002]  
*Eleocharis acutisquamata* Buckley
- cylindrica* Buckley : Reported questionably by Kartesz (1999), but not by Smith et al. (2002); authentic specimens unknown.
- engelmannii*** Steudel [M&H; Smith et al. 2002; W&S]  
*Eleocharis engelmannii* Steudel var. *monticola* (Fernald) Svenson  
*Eleocharis monticola* Fernald  
*Eleocharis obtusa* (Willdenow) Schultes var. *engelmannii* (Steudel) Gilly  
*engelmannii* Steudel var. *monticola* (Fernald) Svenson = *Eleocharis engelmannii* Steudel
- erythropoda*** Steudel [Smith et al. 2002]
- flavescens*** (Poiret) Urban var. ***flavescens*** [FNM I]
- geniculata*** (Linnaeus) Roemer & Schultes [Allred 1999; Smith et al. 2002]  
*Eleocharis caribaea* auctores not (Rottboell) S.F. Blake  
*Scirpus geniculatus* Linnaeus
- glauescens* (Willdenow) Schultes = *Eleocharis palustris* (Linnaeus) Roemer & Schultes
- macrostachya*** Britton [M&H; Smith et al. 2002]  
*montana* (Kunth) Roemer & Schultes : Reported by M&H & W&S, but authentic specimens are unknown; plants called this belong to *Eleocharis palustris* (Linnaeus) Roemer & Schultes and *Eleocharis parishii* Britton.  
*Eleocharis montana* (Kunth) Roemer & Schultes var. *nodulosa* (Roth) Svenson  
*Scirpus montanus* Kunth
- montana* (Kunth) Roemer & Schultes var. *nodulosa* (Roth) Svenson = *Eleocharis montana* (Kunth) Roemer & Schultes
- montevidensis*** Kunth [M&H; Smith et al. 2002]  
*Eleocharis arenicola* Torrey
- monticola* Fernald = *Eleocharis engelmannii* Steudel
- obtusa*** (Willdenow) Schultes [M&H]  
*Eleocharis ovata* (Roth) Roemer & Schultes var. *obtusa* (Willdenow) Kükenthal  
*Scirpus obtusus* Willdenow
- obtusa* (Willdenow) Schultes var. *engelmannii* (Steudel) Gilly = *Eleocharis engelmannii* Steudel
- ovata* (Roth) Roemer & Schultes var. *obtusa* (Willdenow) Kükenthal = *Eleocharis obtusa* (Willdenow) Schultes
- palustris*** (Linnaeus) Roemer & Schultes [M&H; Smith et al. 2002; W&S]  
*Eleocharis glaucescens* (Willdenow) Schultes

*Scirpus palustris* Linnaeus

**parishii** Britton [M&H; Smith et al. 2002]

*parvula* sensu M&H = *Eleocharis coloradoensis* (Britton) Gilly

*parvula* (Roemer & Schultes) Link ex Bluff, Nees & Schauer var. *anachaeta* (Torrey) Svenson = *Eleocharis coloradoensis* (Britton) Gilly

*pauciflora* (Lightfoot) Link = *Eleocharis quinqueflora* (F.X. Hartman) O. Schwarz

*pauciflora* (Lightfoot) Link var. *suksdorfiana* (Beauvois) Svenson = *Eleocharis suksdorfiana* Beauverd

**quinqueflora** (F.X. Hartman) O. Schwarz [M&H; Smith et al. 2002; W&S]

*Eleocharis pauciflora* (Lightfoot) Link

*Scirpus pauciflorus* Lightfoot

*Scirpus quinqueflorus* F.X. Hartman

*radicans* (A. Dietrich) Kunth : Reported as expected by M&H; authentic specimens unknown.

*Eleocharis acicularis* (Linnaeus) Roemer & Schultes var. *radicans* (Poiret) Britton

**rostellata** (Torrey) Torrey [M&H; Smith et al. 2002; W&S]

*Scirpus rostellatus* Torrey

*suksdorfiana* Beauverd : Sometimes confused with our plants of *Eleocharis quinqueflora* (F.X. Hartman) O. Schwarz and reported for NM, but no authentic specimens known.

*Eleocharis pauciflora* (Lightfoot) Link var. *suksdorfiana* (Beauvois) Svenson *uniglumis* (Link) Schultes : Reported by Smith et al. (2002), but authentic specimens are unknown.

*Scirpus uniglumis* Link

*Elytrospermum californicum* C.A.Meyer = *Schoenoplectus californicum* (C.A. Meyer) Palla

**Eriophorum** cotton-grass

Ball, P.W. & D.E. Wujek. 2002. *Eriophorum*, pp. 21-27. IN: Flora of North America, vol. 23. Oxford University Press.

Legler, B.S. 2010. Additions to the vascular flora of New Mexico. J. Bot. Res. Inst. Texas 4(2):777-784.

[*Eriophorum scheuchzeri*]

Keller, C.F. 2012. Plant distribution reports [*Eriophorum gracile*]. The New Mexico Botanist 56:1.

Peterson, R.S. 2010. Plant distribution reports. The New Mexico Botanist 50:3. [*Eriophorum altaicum*]

*altaicum* Meinshausen = *Eriophorum scheuchzeri* Hoppe

**angustifolium** Honckeney subsp. **angustifolium** [M&H; W&S]

*Eriophorum polystachion* Linnaeus, p.p.

*gracile* W.D.J. Koch ex Roth : Reported by Keller (2012), but the plant in question belongs to depauperate *Eriophorum angustifolium* Honckeney.

*polystachion* Linnaeus, p.p. = *Eriophorum angustifolium* Roth

**scheuchzeri** Hoppe [Legler 2010]

*Eriophorum altaicum* Meinshausen

**Fimbristylis** fimbry

Kral, R. 1971. A treatment of *Abildgaardia*, *Bulbostylis* and *Fimbristylis* (Cyperaceae) for North America. Sida 4:57-227.

Kral, R.. 2002. *Fimbristylis*, pp.121-131. IN: Flora of North America, vol. 23. Oxford University Press.

*baldwiniana* (Schultes) Torrey : Reported as expected by M&H; awaits verification.

*interior* Britton = *Fimbristylis puberula* (Michaux) Vahl var. *interior* (Britton) Kral

**puberula** (Michaux) Vahl var. **interior** (Britton) Kral [Kral 2002; M&H]

*Fimbristylis interior* Britton

*Fimbristylis spadicea* sensu M&H

*spadicea* sensu M&H = *Fimbristylis puberula* (Michaux) Vahl var. *interior* (Britton) Kral

*vahlilii* (Lamarck) Link : Reported as expected by M&H; authentic specimens are unknown.

**Fuirena** umbrella-sedge

Kral, R. 1978. A synopsis of *Fuirena* (Cyperaceae) for the Americas north of South America. Sida 7:309-354.

Kral, R. 2002. *Fuirena*, pp. 32-37. IN: Flora of North America, vol. 23. Oxford University Press.

**simplex** Vahl var. **aristulata** (Torrey) Kral [Kral 2002]

*Fuirena squarrosa* Michaux var. *aristulata* Torrey

**simplex** Vahl var. **simplex** [Kral 1978; M&H]

*squarrosa* Michaux var. *aristulata* Torrey = *Fuirena simplex* Vahl var. *aristulata* (Torrey) Kral

*Hemicarpha drummondii* Nees = *Cyperus hemidrummondii* Goetghebeur  
*micrantha* (Vahl) Pax var. *aristulata* Coville = *Cyperus aristulata* (Coville) Bauters  
*micrantha* (Vahl) Pax var. *drummondii* (Nees) Friedland = *Cyperus hemidrummondii*  
 Goetghebeur  
*micrantha* (Vahl) Pax var. *minor* (Schrader) Friedland = *Cyperus subsquarrosus*  
 (Muhlenberg) Bauters

*Isolepis funckii* Steudel = *Bulbostylis funckii* (Steudel) C.B. Clarke

**Kobresia** kobresia

Ball, P.W. 2002. *Kobresia*, pp. 252-253. IN: Flora of North America, vol. 23. Oxford University Press.

Ball, P.W. & A.A. Reznicek. 2002. *Carex*, pp. 254-572. IN: Flora of North America, vol. 23. Oxford University Press.

Legler, B.S. 2010. Additions to the vascular flora of New Mexico. J. Bot. Res. Inst. Texas 4(2):777-784.

[*Kobresia simpliciuscula*]

Wilson, B. L et al. 2014, pp. 406-409. IN: Field guide to the sedges of the Pacific Northwest, second edition. Oregon State University Press

*bellardii* (Allioni) Degland = *Kobresia myosuroides* (Villars) Fiori & Paoli

**myosuroides** (Villars) Fiori & Paoli [Ball 2002; M&H; W&S]

*Carex myosuroides* Villars

*Kobresia bellardii* (Allioni) Degland

**simpliciuscula** (Wahlenberg) Mackenzie [Legler 2010]

*Carex simpliciuscula* Wahlenberg

*Kyllinga odorata* Vahl = *Cyperus sesquiflorus* (Torrey) Mattfeld & Kükenthal

*Lipocarpa aristulata* (Coville) G. Tucker = *Cyperus aristulata* (Coville) Bauters

*drummondii* (Nees) G. Tucker = *Cyperus hemidrummondii* Goetghebeur

*micrantha* (Vahl) G. Tucker = *Cyperus subsquarrosus* (Muhlenberg) Bauters

*Mariscus aggregatus* Willdenow = *Cyperus aggregatus* (Willdenow) Endlicher

**Schoenoplectus** bulrush

Raynal, J. 1976. Notes cyperologiques: 26. Le genre *Schoenoplectus*. II. L'amphicarpié et la sect. *Supini*. Adansonia, series 2, 16:119-155.

Rothrock, P.E. 2009. *Schoenoplectus*, pp. 181-199. IN: Sedges of Indiana and the adjacent states, the non-*Carex* species. Indiana Academy of Science.

Schuyler, A.E. 1974. Typification and application of the names *Scirpus americanus* Persoon, *S. olneyi* Gray, and *S. pungens* Vahl. Rhodora 76(805):51-52.

Smith, S.G. 1995. New combinations in North American *Schoenoplectus*, *Bolboschoenus*, *Isolepis*, and *Trichophorum* (Cyperaceae). Novon 5:97-102.

Smith, S.G. 2002. *Schoenoplectus*, pp. 44-60. IN: Flora of North America, vol. 23. Oxford University Press.

**acutus** (Muhlenberg ex Bigelow) A. & D. Löve var. **acutus** [M&H]

hardstem bulrush

**acutus** (Muhlenberg ex Bigelow) A. & D. Löve var. **occidentalis** (S. Watson)

Smith [M&H; Smith 2002; W&S]

hardstem bulrush

*Scirpus acutus* Muhlenberg ex Bigelow var. *occidentalis* (S. Watson) Beetle

*Scirpus lacustris* Linnaeus var. *occidentalis* S. Watson

*Scirpus occidentalis* (S. Watson) Chase

**americanus** (Persoon) Volkart ex Schinz & R. Keller [M&H; Smith 2002; W&S]

*Scirpus americanus* Persoon

*Scirpus olneyi* Gray

*americanus* of NM authors, not Persoon = *Schoenoplectus pungens* (Vahl) Palla

*californicus* (C.A. Meyer) Palla : Reported by M&H, but authentic specimens unknown;

NM plants called this belong to *Schoenoplectus tabernaemontani* (C.C.

Gmelin) Palla and *Juncus balticus* Willdenow subsp. *ater* (Rydberg)

Snogerup

*Elytrospermum californicum* C.A.Meyer

*Scirpus californicus* (C.A. Meyer) Steudel

**pungens** (Vahl) Palla [M&H; Smith 2002; W&S]

three-square bulrush

*Schoenoplectus pungens* (Vahl) Palla var. *longispicatus* (Britton) S.G. Smith

*Scirpus americanus* of NM authors, not Persoon

*Scirpus americanus* (Persoon) Volkart ex Schinz & R. Keller var. *longispicatus*

Britton

*Scirpus pungens* Vahl

- pungens* (Vahl) Palla var. *longispicatus* (Britton) S.G. Smith = *Schoenoplectus pungens* (Vahl) Palla
- tabernaemontani*** (C.C. Gmelin) Palla [M&H; Smith 2002]  
 softstem bulrush  
*Scirpus tabernaemontani* C.C. Gmelin  
*Scirpus validus* Vahl  
*validus* Vahl = *Schoenoplectus tabernaemontani* (C.C. Gmelin) Palla
- Schoenus** bog-rush  
 McGrath, J. 2011. Plant distribution reports. The New Mexico Botanist 54:10. [*Schoenus nigricans*]  
 Tucker, Gordon C. 2002. *Schoenus*, pp. 239-240. IN: Flora of North America, vol. 23. Oxford University Press.  
*juncoides* Vahl = *Bulbostylis juncoides* (Vahl) Kükenthal  
***nigricans*** Linnaeus [McGrath 2011]
- Scirpus** bulrush  
 Allred, K.W. 1999. New plant distribution records. The New Mexico Botanist 13:7. [*Scirpus pendulus*]  
 Koyama, T. 1962. The genus *Scirpus* Linn. Some North American aphyllous species. Can. J. Bot. 40:913-937.  
 Koyama, T. 1963. The genus *Scirpus* Linn. Critical species in the section *Pterolepis*. Can. J. Bot. 41:1107-1131.  
 Rothrock, P.E. 2009. *Schoenoplectus*, pp. 200-219. IN: Sedges of Indiana and the adjacent states, the non-*Carex* species. Indiana Academy of Science.  
 Schuyler, A.E. 1966. The taxonomic delineation of *Scirpus lineatus* and *Scirpus pendulus*. Notulae Naturae, Acad. Nat. Sci. Philadelphia 3:1-3.  
 Schuyler, A.E. 1974. Typification and application of the names *Scirpus americanus* Persoon, *S. olneyi* Gray, and *S. pungens* Vahl. Rhodora 76(805):51-52.  
 Smith, S.G. 1995. New combinations in North American *Schoenoplectus*, *Bolboschoenus*, *Isolepis*, and *Trichophorum* (Cyperaceae). Novon 5:97-102.  
 Smith, S.G. & G. Yatskiyevich. 1996. Notes on the genus *Scirpus* sensu lato in Missouri. Rhodora 98:168-179.  
 Whittemore, A.T. & A.E. Schuyler. *Scirpus*, pp. 8-21. IN: Flora of North America, vol. 23. Oxford University Press.
- acutus* Muhlenberg ex Bigelow s.s. : Not known from NM (Smith 1995)  
*acicularis* Linnaeus = *Eleocharis acicularis* (Linnaeus) Roemer & Schultes  
*acutus* of NM authors = *Schoenoplectus acutus* (Muhlenberg ex Bigelow) A. & D. Löve var. *occidentalis* (S. Watson) Smith  
*acutus* Muhlenberg ex Bigelow var. *occidentalis* (S. Watson) Beetle = *Schoenoplectus acutus* (Muhlenberg ex Bigelow) A. & D. Löve var. *occidentalis* (S. Watson) Smith  
*americanus* of NM authors = *Schoenoplectus pungens* (Vahl) Palla  
*americanus* Persoon s.s. = *Schoenoplectus americanus* (Persoon) Volkart ex Schinz & R. Keller  
*americanus* (Persoon) Volkart ex Schinz & R. Keller var. *longispicatus* Britton = *Schoenoplectus pungens* (Vahl) Palla  
*atropurpureus* Retzius = *Eleocharis atropurpurea* (Retzius) J. & C. Presl  
*atrovirens* sensu W&S = *Scirpus pallidus* (Britton) Fernald  
*atrovirens* Muhlenberg var. *pallidus* Britton = *Scirpus pallidus* (Britton) Fernald  
*brittonianus* Piper = *Bolboschoenus maritimus* (Linnaeus) Palla subsp. *paludosus* (A. Nelson) T. Koyama  
*californicus* (C.A. Meyer) Steudel = *Schoenoplectus californicus* (C.A. Meyer) Palla  
*campestris* Britton = *Bolboschoenus maritimus* (Linnaeus) Palla subsp. *paludosus* (A. Nelson) T. Koyama  
*capillaris* Linnaeus = *Bulbostylis capillaris* (Linnaeus) Kunth ex C.B. Clarke  
*coloradoensis* Britton = *Eleocharis coloradoensis* (Britton) Gilly  
*fluviatilis* (Torrey) Gray = *Bolboschoenus fluviatilis* (Torrey) V. Soják  
*geniculatus* Linnaeus = *Eleocharis geniculata* (Linnaeus) Roemer & Schultes  
*lacustris* Linnaeus var. *occidentalis* S. Watson = *Schoenoplectus acutus* (Muhlenberg ex Bigelow) A. & D. Löve var. *occidentalis* (S. Watson) Smith  
*maritimus* Linnaeus var. *fluviatilis* Torrey = *Bolboschoenus fluviatilis* (Torrey) V. Soják  
*maritimus* Linnaeus var. *paludosus* (A. Nelson) Koyama = *Bolboschoenus maritimus* (Linnaeus) Pallas subsp. *paludosus* (A. Nelson) T. Koyama  
*micanthus* Vahl = *Lipocarpa micrantha* (Vahl) G.C. Tucker  
***microcarpus*** J. & C. Presl [M&H; W&S]

- montanus* Kunth = *Eleocharis montana* (Kunth) Roemer & Schultes  
*obtusus* Willdenow = *Eleocharis obtusa* (Willdenow) Schultes  
*occidentalis* (S. Watson) Chase = *Schoenoplectus acutus* (Muhlenberg ex Bigelow) Löve & Löve var. *occidentalis* (S. Watson) S.G. Smith  
*olneyi* Gray = *Schoenoplectus americanus* (Persoon) Volkart ex Schinz & R. Keller  
***pallidus*** (Britton) Fernald [M&H]  
    *Scirpus atrovirens* sensu W&S  
    *Scirpus atrovirens* Muhlenberg var. *pallidus* Britton  
*paludosus* A. Nelson = *Bolboschoenus maritimus* (Linnaeus) Pallas subsp. *paludosus* (A. Nelson) T. Koyama  
*palustris* Linnaeus = *Eleocharis palustris* (Linnaeus) Roemer & Schultes  
*pauciflorus* Lightfoot = *Eleocharis quinqueflora* (F.X. Hartman) O. Schwarz  
***pendulus*** Muhlenberg [Allred 1999]  
*pungens* Vahl = *Schoenoplectus pungens* (Vahl) Palla  
*quinqueflorus* F.X. Hartman = *Eleocharis quinqueflora* (F.X. Hartman) O. Schwarz  
*rostellatus* Torrey = *Eleocharis rostellata* (Torrey) Torrey  
*schaffneri* Boeckeler = *Bulbostylis schaffneri* (Boeckeler) C.B. Clarke  
*tabernaemontani* C.C. Gmelin = *Schoenoplectus tabernaemontani* (C.C. Gmelin) Palla  
*uniglumis* Link = *Eleocharis uniglumis* (Link) Schultes  
*validus* Vahl = *Schoenoplectus tabernaemontani* (C.C. Gmelin) Palla  
*Stenophyllus capillaris* (Linnaeus) Britton = *Bulbostylis capillaris* (Linnaeus) C. B. Clarke  
*funkii* (Steudel) Britton = *Bulbostylis funkii* (Steudel) C.B. Clarke

Family DRACAENACEAE = RUSCACEAE

Family GRAMINEAE = POACEAE

### Family HEMEROCALLIDACEAE [1/1/1]

Judd, W.S., C.S. Campbell, E.A. Kellogg, P.F. Stevens, & M.J. Donoghue. 2016. Plant Systematics: A Phylogenetic Approach, 4<sup>th</sup> ed. Sinauer Associates, Inc., Sunderland, Massachusetts. 677 pp.

#### **Hemerocallis** daylily

Straley, G.B. & F.H. Utech. 2002. *Hemerocallis*, pp. 219-220. IN: Flora of North America, vol. 26. Oxford University Press, New York.

\****fulva*** (Linnaeus) Linnaeus [FNM I]

*Hemerocallis lilioasphodelus* Linnaeus var. *fulvus* Linnaeus

*lilioasphodelus* Linnaeus var. *fulvus* Linnaeus = *Hemerocallis fulva* (Linnaeus) Linnaeus

### Family HYACINTHACEAE [0/0/0]

*Hyacinthus racemosus* Linnaeus = *Muscari neglectum* Gussone ex Tenore

#### **Muscari** grape-hyacinth

Straley, G.B. & F.H. Utech. 2002. *Muscari*, pp. 316-318. IN: Flora of North America, vol. 26. Oxford University Press, New York.

\**neglectum* Gussone ex Tenore : reported by M&H, Straley & Utech (2002), and others, but the specimen in question [*Blassingame* 3897 HPC] belongs to *Allium cernuum* Roth; no other specimens are known.

*Hyacinthus racemosus* Linnaeus

### Family HYDROCHARITACEAE [4/7/7]

[Najadaceae]

Haynes, R.R. 2000. Hydrocharitaceae, pp. 26-38. IN: Flora of North America, vol. 22. Oxford University Press, New York.

Judd, W.S., C.S. Campbell, E.A. Kellogg, P.F. Stevens, & M.J. Donoghue. 2016. Plant Systematics: A Phylogenetic Approach, 4<sup>th</sup> ed. Sinauer Associates, Inc., Sunderland, Massachusetts. 677 pp.

Shaffer-Fehre, M. 1991. The position of *Najas* within the subclass Alismatidae (Monocotyledones) in the light of new evidence from seed coat structures in the Hydrocharitoideae (Hydrocharitales). Bot. J. Linn. Soc. 107:189-209.

*Anacharis canadensis* (Michaux) Planchon = *Elodea canadensis* Michaux

*densa* (Planchon) Victorin = *Egeria densa* Planchon

*nuttallii* Planchon = *Elodea nuttallii* (Planchon) St. John

*occidentalis* (Pursh) Victorin = *Elodea nuttallii* (Planchon) St. John

*Caulinia guadalupensis* Sprengel = *Najas guadalupensis* (Sprengel) Magnus

**Egeria** waterweed

Cook, C.D.K. & K. Urmi-Konig. 1984. A revision of the genus *Egeria* (Hydrocharitaceae). Aquatic Bot. 13:485-504.

\***densa** Planchon [M&H]

*Anacharis densa* (Planchon) Victorin

*Elodea densa* (Planchon) Caspary

*Philotria densa* (Planchon) Small

**Elodea** waterweed

Catling, P.M. & W. Wojtas. 1986. The waterweeds (*Elodea* and *Egeria*, Hydrocharitaceae) in Canada. Canad. J. Bot. 64:1525-1541.

**bifoliata** St. John [M&H]

*Elodea longivaginata* St. John

**canadensis** Michaux [M&H]

*Anacharis canadensis* (Michaux) Planchon

*Elodea planchonni* Caspary

*Philotria canadensis* (Michaux) Britton

*densa* (Planchon) Caspary = *Egeria densa* Planch

*longivaginata* St. John = *Elodea bifoliata* St. John

**nuttallii** (Planchon) St. John [M&H]

*Anacharis nuttallii* Planchon

*Anacharis occidentalis* (Pursh) Victorin

*planchonni* Caspary = *Elodea canadensis* Michaux

**Hydrilla** hydrilla

Ashigh, J., J. Wanstall, & F. Sholedice. 2010. Troublesome weeds of New Mexico. College of Agricultural, Consumer and Environmental Sciences, New Mexico State University. Available online at <http://aces.nmsu.edu/pubs/weeds/welcome.html>; accessed 20 June 2016.

**verticillata** (Linnaeus f.) Royle [Ashijh et al. 2010]

*Serpicula verticillata* Linnaeus f.

*Najas* = *Najas*

**Najas** water-nymphs

Clausen, R.T. 1936. Studies in the genus *Najas* in the northern United States. Rhodora 38:333-345.

Stuckey, R.L. 1985. Distributional history of *Najas marina* (spiny naiad) in North America. Bartonia 52: 2-16.

*gracilis* (Morong) Small = *Najas marina* Linnaeus

**guadalupensis** (Sprengel) Magnus [M&H; W&S]

*Caulinia guadalupensis* Sprengel

**marina** Linnaeus [M&H]

*Najas gracilis* (Morong) Small

*Philotria canadensis* (Michaux) Britton = *Elodea canadensis* Michaux

*densa* (Planchon) Small = *Egeria densa* Planchon

*Serpicula verticillata* Linnaeus f. = *Hydrilla verticillata* (Linnaeus f.) Royle

*Vallisneria americana* Michaux : Reported by M&H, but no specimens or other reports are known from NM.

*Vallisneria spiralis* auctores

*spiralis* auctores = *Vallisneria americana* Michaux

**Family HYPOXIDACEAE** [1/1/1]

Judd, W.S., C.S. Campbell, E.A. Kellogg, P.F. Stevens, & M.J. Donoghue. 2016. Plant Systematics: A Phylogenetic Approach, 4<sup>th</sup> ed. Sinauer Associates, Inc., Sunderland, Massachusetts. 677 pp.

**Hypoxis** star-grass

Herdon, A. 1992. Nomenclatural notes on North American *Hypoxis* (Hypoxidaceae). Rhodora 94:43-47.

Herdon, A. 2002. *Hypoxis*, pp. 201-204. IN: Flora of North America, vol. 26. Oxford University Press, New York.

Sivinski, R.C., T. Lowrey, & C. Keller. 1995 [1996]. Additions to the floras of Colorado and New Mexico. Phytologia 79(5):319-324.

**hirsuta** (Linnaeus) Coville [Sivinski et al. 1995]

*Ornithogalum hirsutum* Linnaeus

**Family IRIDACEAE** [2/8/8]

*Hydastylus longipes* Bicknell = *Sisyrinchium longipes* (Bicknell) Kearney & Peebles

**Iris** iris

Foster, R.C. 1937. A cyto-taxonomic survey of the North American species of *Iris*. Contr. Gray herb. 119:3-82.

Henderson, N.C. 2002. *Iris*, pp. 371-395. IN: Flora of North America, vol. 26. Oxford University Press, New York.

Mygatt, J. 2007. Plant distribution reports [*Iris pseudacorus*]. The New Mexico Botanist 39:7.

*arizonica* Dykes = *Iris missouriensis* Nuttall

**missouriensis** Nuttall [Henderson 2002; M&H; W&S]

*Iris arizonica* Dykes

\***pseudacorus** Linnaeus [Mygatt 2007]

*Orelirion arizonicum* (Rothrock) Bicknell = *Sisyrinchium arizonicum* Rothrock

**Sisyrinchium** blue-eyed-grass

Cholewa, A.F. & D.M. Henderson. 2002. *Sisyrinchium*, pp. 351-371. IN: Flora of North America, vol. 26. Oxford University Press, New York.

Goldblatt, P., P. Rudall, & J.E. Henrich. 1990. The genera of the *Sisyrinchium* alliance (Iridaceae: Iridoideae): Phylogeny and relationships. Syst. Bot. 15(3):497-510.

Henderson, D.M. 1976. A biosystematic study of Pacific northwestern blue-eyed-grasses (*Sisyrinchium*, Iridaceae). Brittonia 28:149-176.

Hess, W.J. 1975. Notes on the flora of the Mogollon Mountains, New Mexico. Sida 6:48-51. [*Sisyrinchium longipes*]

Mosquin, T. 1970. Chromosome numbers and a proposal for classification in *Sisyrinchium* (Iridaceae). Madroño 20:269-275.

Worthington, R. 2012. Plant distribution reports (*Sisyrinchium chilense*). The New Mexico Botanist 56:2.

**arizonicum** Rothrock [Cholewa & Henderson 2002; M&H; W&S]

*Orelirion arizonicum* (Rothrock) Bicknell

campestre Bicknell : Reported by M&H and W&S, but Cholewa & Henderson show the range of this species as central Kansas and eastward; our plants probably belong to *Sisyrinchium montanum*; awaits verification.

**chilense** Hooker [Worthington 2012]

*Sisyrinchium ensigerum* E.P. Bicknell

*Sisyrinchium scabrum* Chamisso & Schlechtendal

**demissum** Greene [Cholewa & Henderson 2002; M&H; W&S]

elmeri Greene : NM reports of this species belong to *Sisyrinchium longipes* (Bicknell)

Kearney & Peebles; *Sisyrinchium elmeri* Greene is endemic to California.

*ensigerum* E.P. Bicknell = *Sisyrinchium chilense* Hooker

**idahoense** Bicknell var. **occidentale** (Bicknell) D.M. Henderson [Cholewa & Henderson 2002; M&H; W&S]

*Sisyrinchium occidentale* Bicknell

**longipes** (Bicknell) Kearney & Peebles [Cholewa & Henderson 2002; Hess 1975]

*Hydastylus longipes* Bicknell

**montanum** Greene var. **montanum** [Cholewa & Henderson 2002; M&H]

*occidentale* Bicknell = *Sisyrinchium idahoense* Bicknell var. *occidentale* (Bicknell) D.M. Henderson

*scabrum* Chamisso & Schlechtendal = *Sisyrinchium chilense* Hooker

**Family JUNCACEAE** [2/28/29]

Cronquist, A. 1977. Juncaceae, pp. 47-67. IN: Intermountain Flora, vol. 6. New York Botanical Garden.

*Juncoides comosa* (E. Meyer) E. Sheldon = *Luzula comosa* E. Meyer var. *comosa*

*campestris* (Linnaeus) Coville = *Luzula campestris* (Linnaeus) A.P. de Candolle

*intermedium* (Thuiller) Rydberg = *Luzula multiflora* (Ehrhart) Lejeune subsp. *multiflora*

*parviflorum* (Ehrhart) Coville = *Luzula parviflora* (Ehrhart) Desvoux

*spicatum* (Linnaeus) Kuntze = *Luzula spicata* (Linnaeus) A.P. de Candolle

**Juncus** rush

Brooks, R.E. & S.E. Clemants. 2000. *Juncus*, p. 211-255. IN: Flora North America, vol. 22. Oxford University Press.

Hermann, F.J. 1975. Manual of the rushes (*Juncus* spp.) of the Rocky Mountains and Colorado Basin. USDA For. Serv. Gen. Tech. Rep. RM-18. 107 pp.

Hurd, E.G., S. Goodrich, & N.L. Shaw. 1997. Field guide to Intermountain rushes. USDA For. Ser. Gen. Tech. Rep. INT-306.

Kirschner, J. 2002. Species Plantarum, Part 7. Juncaceae 2: *Juncus* subg. *Juncus*. Australian Biological Resources Study, Canberra



- Kirschner, J. 2002. Species Plantarum, Part 8. Juncaceae 3: *Juncus* subg. *Agathryon*. Australian Biological Resources Study, Canberra
- Legler, B.S. 2010. Additions to the vascular flora of New Mexico. J. Bot. Res. Inst. Texas 4(2):777-784. [*Juncus alpinoarticulatus*, *Juncus biglumis*, *Juncus parryi*, *Juncus triglumis*]
- McGrath, J. 1999. New plant distribution records. The New Mexico Botanist 12:8. [*Juncus hallii*]
- Zika, P. F. 2012. *Juncus*, pp. 1361-1374. IN: The Jepson Manual, Vascular Plants of California, Ed 2, University of California Press, Berkeley.

**acuminatus** Michaux [Brooks & Clemants 2000; M&H]  
*albescens* (Lange) Fernald = *Juncus triglumis* Linnaeus var. *albescens* Lange  
**alpinoarticulatus** Chaix [Legler 2010]  
*Juncus alpinus* Villars  
*alpinus* Villars = *Juncus alpinoarticulatus* Chaix  
*arcticus* Willdenow var. *balticus* of NM reports = *Juncus balticus* Willdenow subsp. *ater* (Rydberg) Snogerup  
*arcticus* Willdenow var. *mexicanus* (Willdenow ex J.A. & J.H. Schultes) Balslev = *Juncus mexicanus* Willdenow ex J.A. & J.H. Schultes  
*arcticus* Willdenow var. *montanus* (Engelmann) Welsh = *Juncus balticus* Willdenow subsp. *ater* (Rydberg) Snogerup  
*arizonicus* Wiegand = *Juncus interior* Wiegand  
**articulatus** Linnaeus [Brooks & Clemants 2000; M&H]  
*ater* Rydberg = *Juncus balticus* Willdenow subsp. *ater* (Rydberg) Snogerup  
*badius* Suksdorf = *Juncus nevadensis* S. Watson  
*balticus* of NM reports = *Juncus balticus* Willdenow subsp. *ater* (Rydberg) Snogerup  
**balticus** Willdenow subsp. **ater** (Rydberg) Snogerup [Brooks & Clemants 2000; M&H; W&S]  
*Juncus articus* Willdenow var. *montanus* (Engelmann) Welsh  
*Juncus ater* Rydberg  
*Juncus balticus* of NM reports  
*Juncus balticus* Willdenow var. *montanus* Engelmann  
*balticus* Willdenow var. *montanus* Engelmann = *Juncus balticus* Willdenow subsp. *ater* (Rydberg) Snogerup  
*balticus* Willdenow var. *mexicanus* (Willdenow) Kuntze = *Juncus mexicanus* Willdenow ex Roemer & Schultes  
*biflorus* Elliot = *Juncus marginatus* Michaux  
**biglumis** Linnaeus [Legler 2010]  
*brachyphyllus* Wiegand : Reported by various authors, but no authentic specimens known from the state.  
*brunnescens* Rydberg = *Juncus saximontanus* A. Nelson  
**bufonius** Linnaeus [Brooks & Clemants 2000; M&H; W&S]  
**castaneus** J.E. Smith [Brooks & Clemants 2000; M&H; W&S]  
**\*compressus** Jacquin [TCFNM]  
**confusus** Coville [M&H; W&S]  
*dichotomus* Elliott : Reported by M&H, but no authentic specimens known from NM.  
**\*diffusissimus** Buckley  
**drummondii** E. Meyer [Brooks & Clemants 2000; M&H; W&S]  
**dudleyi** Wiegand [Brooks & Clemants 2000; M&H; W&S]  
*Juncus tenuis* Willdenow var. *dudleyi* (Wiegand) F.J. Hermann  
*effusus* Linnaeus var. *solutus* Fernald & Wiegand : Reported by M&H, but NM specimens called this belong to *Juncus arcticus* Willdenow subsp. *ater* (Rydberg) Snogerup.  
*ensifolius* Wikström var. *brunnescens* (Rydberg) Cronquist = *Juncus saximontanus* A. Nelson  
*ensifolius* Wikström var. *montanus* (Engelmann) C.L. Hitchcock = *Juncus saximontanus* A. Nelson  
*filiformis* Linnaeus : Reported by M&H, but all specimens called this are referred to either *Juncus balticus* Willdenow subsp. *ater* (Rydberg) Snogerup or *Juncus mexicanus* Willdenow ex Roemer & Schultes; not known from NM.  
**hallii** Engelmann [McGrath 1999]  
*interior* Wiegand var. *arizonicus* (Wiegand) F. J. Herm. = *Juncus interior* Wiegand  
**interior** Wiegand [Brooks & Clemants 2000; M&H; W&S]

- Juncus arizonicus* Wiegand  
*Juncus interior* Wiegand var. *arizonicus* (Wiegand) F. J. Hermann  
*Juncus interior* Wiegand var. *neomexicanus* (Wiegand) F.J. Hermann  
*Juncus neomexicanus* Wiegand  
*interior* Wiegand var. *neomexicanus* (Wiegand) F.J. Hermann = *Juncus interior* Wiegand  
***longistylis*** Torrey [Brooks & Clemants 2000; M&H; W&S]  
*longistylis* Torrey var. *scabratus* F.J. Hermann [= *Juncus macrophyllus* Coville] : Reported  
as expected by M&H, but no authentic specimens are known.  
*macer* S.F. Gray = *Juncus tenuis* Willdenow  
***marginatus*** Rostkovius [M&H]  
*Juncus biflorus* Elliot  
*Juncus marginatus* Rostkovius var. *biflorus* (Elliot) A. Wood  
*Juncus marginatus* Rostkovius var. *setosus* Coville  
*Juncus setosus* (Coville) Small  
*marginatus* Rostkovius var. *biflorus* (Elliot) A. Wood = *Juncus marginatus* Rostkovius  
*marginatus* Rostkovius var. *setosus* Coville = *Juncus marginatus* Rostkovius  
***mertensianus*** Bongard [Brooks & Clemants 2000; M&H; W&S]  
*mertensianus* var. *badius* (Suksdorf) F.J. Hermann = *Juncus nevadensis* S. Watson  
***mexicanus*** Willdenow ex J.A. & J.H. Schultes [Brooks & Clemants 2000; M&H; W&S]  
*Juncus arcticus* Willdenow var. *mexicanus* (Willdenow ex J.A. & J.H. Schultes)  
Balslev  
*Juncus balticus* Willdenow var. *mexicanus* (Willdenow ex J.A. & J.H. Schultes)  
Kuntze  
*neomexicanus* Wiegand = *Juncus interior* Wiegand  
***nevadensis*** S. Watson [Brooks & Clemants 2000; M&H; W&S]  
*Juncus badius* Suksdorf  
*Juncus mertensianus* var. *badius* (Suksdorf) F.J. Hermann  
*Juncus nevadensis* S. Watson var. *badius* (Suksdorf) C.L. Hitchcock  
*Juncus truncatus* Rydberg  
*nevadensis* S. Watson var. *badius* (Suksdorf) C.L. Hitchcock = *Juncus nevadensis* S.  
Watson  
***nodosus*** Linnaeus [Brooks & Clemants 2000; M&H; W&S]  
*nodosus* Linnaeus var. *megacephalus* Torrey = *Juncus torreyi* Coville  
*parous* Rydberg = *Juncus saximontanus* A. Nelson  
***parryi*** Englemann [Legler 2010]  
*parviflorus* Ehrhart = *Luzula parviflora* (Ehrhart) Desvaux  
***saximontanus*** A. Nelson [Brooks & Clemants 2000; M&H; W&S]  
*Juncus brunnescens* Rydberg  
*Juncus ensifolius* Wikström var. *brunnescens* (Rydberg) Cronquist  
*Juncus ensifolius* Wikström var. *montanus* Engelm (C.L. Hitchcock)  
*Juncus parous* Rydberg  
*Juncus tracyi* Rydberg  
*Juncus xiphioides* E. Meyer var. *montanus* Engelm  
*setosus* (Coville) Small = *Juncus marginatus* Rostkovius  
*spicatus* Linnaeus = *Luzula spicata* (Linnaeus) A.P. de Candolle  
***tenuis*** Willdenow [Brooks & Clemants 2000; M&H; W&S]  
*Juncus macer* S.F. Gray  
*tenuis* Willdenow var. *dudleyi* (Wiegand) F.J. Hermann = *Juncus dudleyi* Wiegand  
***torreyi*** Coville [Brooks & Clemants 2000; M&H; W&S]  
*Juncus nodosus* Linnaeus var. *megacephalus* Torrey  
*tracyi* Rydberg = *Juncus saximontanus* A. Nelson  
***triglumis*** Linnaeus var. *albescens* Lange [Brooks & Clemants 2000; M&H; W&S]  
*Juncus albescens* (Lange) Fernald  
***triglumis*** Linnaeus var. *triglumis* [Legler 2010]  
*truncatus* Rydberg = *Juncus nevadensis* S. Watson  
*xiphioides* of NM reports = *Juncus saximontanus* A. Nelson  
*xiphioides* E. Meyer var. *montanus* Engelm = *Juncus saximontanus* A. Nelson

**Luzula** wood-rush

Correll, D.S. & H.B. Correll. 1972. Aquatic and Wetland Plants of Southwestern United States. Stanford Univ. Press. [*Luzula multiflora*]

Kirschner, J. 2002. *Luzula*, pp. 18-228. IN: Species Plantarum, Part 6. JUNCACEAE 1. Australian Biological Resources Study, Canberra

Swab, J.C. 2000. *Luzula*, p. 255-267. IN: Flora North America, vol. 22. Oxford University Press.

Zika, P. F. 2012. *Luzula*, pp. 1374-1375. IN: The Jepson Manual, Vascular Plants of California, Ed 2, University of California Press, Berkeley.

**comosa** E. Meyer var. **laxa** Buchenau [Swab 2000; M&H; W&S]

comosa E. Meyer var. comosa : Not known from NM; our material referred to *Luzula comosa* E. Meyer var. laxa Buchenau

*Juncooides comosa* (E. Meyer) E. Sheldon

*Juncooides campestris* (Linnaeus) Coville var. *congesta* S. Watson

*Luzula comosa* E. Meyer var. *congesta* S. Watson

*Luzula congesta* (Thuiller) Lejeune

campestris (Linnaeus) A.P. de Candolle var. campestris : Not known from NM.

campestris (Linnaeus) A.P. de Candolle var. *multiflora* (Ehrhart) Celak. = *Luzula multiflora* (Ehrhart) Lejeune

*congesta* (Thuiller) Lejeune = *Luzula comosa* E. Meyer

*intermedia* (Thuiller) A. Nelson = *Luzula multiflora* (Ehrhart) Lejeune

*multiflora* (Ehrhart) Lejeune : Reported by Correll & Correll (1972), but no authentic specimens known from NM.

*Juncooides intermedium* (Thuiller) Rydberg

*Luzula campestris* (Linnaeus) A.P. de Candolle var. *multiflora* (Ehrhart) Celak.

*Luzula intermedia* (Thuiller) A. Nelson

**parviflora** (Ehrhart) Desvaux [Swab 2000; M&H; W&S]

*Juncooides parviflorum* (Ehrhart) Coville

*Juncus parviflorus* Ehrhart

**spicata** (Linnaeus) A.P. de Candolle [Swab 2000; M&H; W&S]

*Juncooides spicatum* (Linnaeus) Kuntze

*Juncus spicatus* Linnaeus

**Family JUNCAGINACEAE** [1/2/2]

Haynes, R.r. & C.B. Hellquist. 2000. Juncaginaceae, pp. 43-46. IN: Flora North America, vol. 22. Oxford University Press.

**Triglochin** arrow-grass

Löve, A. & D. Löve. 1958. Biosystematics of *Triglochin maritima* agg. Naturaliste Canad. 85:156-165.

*concinna* Davy = *Triglochin maritima* Linnaeus

*concinna* Davy var. *debilis* (Jones) J.T. Howard = *Triglochin maritima* Linnaeus

**maritima** Linnaeus [M&H; W&S]

*Triglochin concinna* Davy

*Triglochin concinna* Davy var. *debilis* (Jones) J.T. Howard

**palustris** Linnaeus [M&H; W&S]

**Family LILIACEAE** [7/11/12]

[Calochortaceae]

Judd, W.S., C.S. Campbell, E.A. Kellogg, P.F. Stevens, & M.J. Donoghue. 2016. Plant Systematics: A Phylogenetic Approach, 4<sup>th</sup> ed. Sinauer Associates, Inc., Sunderland, Massachusetts. 677 pp.

Utech, F.H. 2002. Liliaceae, pp. 50-347. IN: Flora of North America, vol. 26. Oxford University Press, New York.

*Allium*...go to AMARYLLIDACEAE

*Androstephium*...go to THEMIDACEAE

*Anthericum*...go to ANTHERICACEAE

*Anticlea*...go to MELANTHIACEAE

*Asparagus*...go to ASPARAGACEAE

*Asphodelus* ...go to ASPHODELACEAE

*Atamosco*...go to AMARYLLIDACEAE

**Calochortus** mariposa-lily

Allred, K.W. 1999. New plant distribution records. The New Mexico Botanist 13:7. [*Calochortus flexuosus*]

Bleakly, D. 2000. A key to *Calochortus* in New Mexico. The New Mexico Botanist 16:4.

Fiedler, P.L. & R.K. Zebell. 2002. *Calochortus*, pp. 119-141. IN: Flora of North America, vol. 26. Oxford University Press, New York.

Ownbey, M. 1940. A monograph of the genus *Calochortus*. Ann. Missouri Bot. Gard. 27:371-553.

Ownbey, M. 1969. *Calochortus*. Univ. Wash. Publ. Biol. 17(1):765-779.

**ambiguus** (M..E. Jones) M. Ownbey [Fiedler & Zebell 2002; M&H]

*Calochortus watsonii* M.E. Jones var. *ambiguus* M.E.Jones

**aureus** S. Watson [Fiedler & Zebell 2002; M&H; W&S]

*Calochortus nuttallii* Torrey & Gray var. *aureus* (S. Watson) M. Ownbey

**flexuosus** S. Watson [Allred 1999; Fiedler & Zebell 2002]

**gunnisonii** S. Watson var. *gunnisonii* [Fiedler & Zebell 2002; M&H; W&S]

**+gunnisonii** S. Watson var. *perpulcher* Cockerell [Fiedler & Zebell 2002; M&H; Ownbey 1940]

*nuttallii* Torrey & Gray var. *aureus* (S. Watson) M. Ownbey = *Calochortus aureus* S. Watson

**nuttallii** Torrey [Fiedler & Zebell 2002; M&H; W&S]

*watsonii* M.E. Jones var. *ambiguus* M.E.Jones = *Calochortus ambiguus* (M.E. Jones) M. Ownbey

*Cooperia*...go to AMARYLLIDACEAE

*Dasylyrion*...go to RUSCACEAE

*Dichelostemma*...go to THEMIDACEAE

*Dipterostemon*...go to THEMIDACEAE

*Disporum trachycarpum* (S. Watson) Bentham & Hooker f. = *Prosartes trachycarpa* S. Watson

*Echeandia* ...go to ANTHERICACEAE

**Erythronium** fawn-lily

Allen, G.A. & K.R. Robertson. 2002. *Erythronium*, pp. 153-164. IN: Flora of North America, vol. 26. Oxford University Press, New York.

Applegate, E.I. 1935. The genus *Erythronium*: A taxonomic and distributional study of the western North American species. Madroño 3:58-113.

Todsen, T.K. 1996. New plant distribution records. The New Mexico Botanist 2:6. [*Erythronium grandiflorum*]

**grandiflorum** Pursh subsp. *grandiflorum* [Allen & Robertson 2002; Todsen 1996]

**Fritillaria** fritillaria

Beetle, D.E. 1944. A monograph of the North American species of *Fritillaria*. Madroño 7:133-159.

Ness, B. 2002. *Fritillaria*, pp. 164-171. IN: Flora of North America, vol. 26. Oxford University Press, New York.

**atropurpurea** Nuttall [M&H; Ness 2002; W&S] Note: Known only from an 1892 collection from the Carrizo (Chuska) Mountains.

*pudica* (Pursh) Sprengel : Reported by Abrams (1940-1960) for NM, but this not substantiated by any other source or specimen; awaits verification.

**Gagea** alp-lily

Peterson, A., I.G. Levicev, & J. Peterson. 2008. Systematics of *Gagea* and *Lloydia* (Liliaceae) and infrageneric classification of *Gagea* based on molecular and morphological data. Molecular Phylogenetics & Evolution 46(2):446-465.

Reveal, J.L. & F.H. Utech. 2002. *Lloydia*, pp. 198. IN: Flora of North America, vol. 26. Oxford University Press, New York.

Zarrei, M., P. Wilkin, M.F. Fayl, M.J. Ingrouille, S. Zarre, & M.W. Chase. 2009. Molecular systematics of *Gagea* and *Lloydia* (Liliaceae; Liliales): implications of analyses of nuclear ribosomal and plastid DNA sequences for infrageneric classification. Ann. Bot. 104:125-142.

**serotina** (Linnaeus) Ker-Gawler [M&H; Reveal & Utech 2002; W&S]

*Anthericum serotinum* Linnaeus

*Lloydia serotina* (Linnaeus) Salisbury ex Reichenbach

*Heupoxis*...go to HYPOXIDACEAE

*Leucocrinum*...go to ANTHERICACEAE

**Lilium** lily

Skinner, M.W. 2002. *Lilium*, pp. 172-197. IN: Flora of North America, vol. 26. Oxford University Press, New York.

*andinum* Nuttall = *Lilium philadelphicum* Linnaeus

**philadelphicum** Linnaeus [M&H; Skinner 2002; W&S]

*Lilium andinum* Nuttall

*Lilium montanum* A. Nelson

*Lilium philadelphicum* Linnaeus var. *andinum* (Nuttall) Ker-Gawler

*Lilium umbellatum* Pursh

*montanum* A. Nelson = *Lilium philadelphicum* Linnaeus  
*philadelphicum* Linnaeus var. *andinum* (Nuttall) Ker-Gawler = *Lilium philadelphicum*  
 Linnaeus

*umbellatum* Pursh = *Lilium philadelphicum* Linnaeus

*Lloydia serotina* (Linnaeus) Salisbury ex Reichenbach = *Gagea serotina* (Linnaeus) Ker Gawler

*Maianthemum* ...go to RUSCACEAE

*Milla*...go to THEMIDACEAE

*Muscari*...go to HYACINTHACEAE

*Nolina*...go to RUSCACEAE

*Nothoscordum*...go to ALLIACEAE

*Polygonatum*...go to RUSCACEAE

**Prosartes** fairybells

Jones, Q. 1951. A cytotaxonomic study of the genus *Disporum* in North America. Contr. Gray Herb. 173:1-39.

Shinwari, Z.K., R. Terauchi, F.H. Utech, & S. Kawano. 1994. Recognition of the New World *Disporum* Section *Prosartes* (Liliaceae) based on the sequence of the rbcL gene. Taxon 43(3):353-366.

Utech, F.H. 2002. *Prosartes*, pp. 142-145. IN: Flora of North America, vol. 26. Oxford University Press, New York.

Utech, F.H., Z.K. Shinwari, & S. Kawano. 1995. Biosystematic studies in *Disporum* (Liliaceae-Asparagoideae-Polygonatae). VI. Recognition of the North American section *Prosartes* as an autonomous genus. Mem. Fac. Sci. Kyoto Univ., Ser. Biol. 16:1-41.

**trachycarpa** S. Watson [M&H; Utech 2002; W&S]

*Disporum trachycarpum* (S. Wateon) Bentham & Hooker f.

*Salomonina*...go to RUSCACEAE

*Schoenocaulon*...go to MELANTHIACEAE

*Smilacina*...go to RUSCACEAE

**Streptopus** twisted-stalk

Fassett, N.C. 1935. A study of *Streptopus*. Rhodora 37:88-113.

Utech, F.H. 2002. *Streptopus*, pp. 145-147. IN: Flora of North America, vol. 26. Oxford University Press, New York.

**amplexifolius** (Linnaeus) A.P. de Candolle [M&H; Utech 2002; W&S]

*Uvularia amplexifolia* Linnaeus

*Streptopus amplexifolius* (Linnaeus) A.P. de Candolle var. *americanus* J.A. Schultes

*Streptopus amplexifolius* (Linnaeus) A.P. de Candolle var. *chalmazatus* Fassett

*amplexifolius* (Linnaeus) A.P. de Candolle var. *americanus* J.A. Schultes = *Streptopus amplexifolius* (Linnaeus) A.P. de Candolle

*amplexifolius* (Linnaeus) A.P. de Candolle var. *chalmazatus* Fassett = *Streptopus amplexifolius* (Linnaeus) A.P. de Candolle

*Toxicoscordion*...go to MELANTHIACEAE

*Vagnera*...go to RUSCACEAE

*Veratrum* ...go to MELANTHIACEAE

*Yucca*...go to AGAVACEAE

*Zephyranthes*...go to AMARYLLIDACEAE

*Zigadenus*...go to MELANTHIACEAE

### Family MELANTHIACEAE [4/7/7]

Judd, W.S., C.S. Campbell, E.A. Kellogg, P.F. Stevens, & M.J. Donoghue. 2016. Plant Systematics: A Phylogenetic Approach, 4<sup>th</sup> ed. Sinauer Associates, Inc., Sunderland, Massachusetts. 677 pp.

**Anticlea** death-camas

Hess, W.J. & R.C. Sivinski. 1995. A new species of *Zigadenus* (Liliaceae) from New Mexico, with additional comments on the section *Anticlea*. Sida 16(3):389-400. [*Anticlea* (*Zigadenus*) *mogollonensis*]

Schwartz, F.C. 2002. *Zigadenus*, pp. 81-88. IN: Flora of North America, vol. 26. Oxford University Press, New York.

Zomlefer, W.B. 2003. Documented chromosome numbers 2003: 1. Chromosome number of *Toxicoscordion nuttallii* (Liliaceae: Melanthiaceae) and clarification of the genus. Sida 20(3):1085-1092.

Zomlefer, W.B. and W.S. Judd. 2002. Resurrection of segregates of the polyphyletic genus *Zigadenus* s.l. (Liliales: Melanthiaceae) and resulting new combinations. Novon 12:299-308.

**elegans** (Pursh) Rydberg [M&H; Schwartz 2002; W&S]

*Zigadenus coloradoensis* Rydberg

- Zigadenus dilatatus* Greene  
*Zigadenus elegans* Pursh  
+***mogollonensis*** (Hess & Sivinski) Zomlefer & Judd [Hess & Sivinski 1995; Schwartz 2002]  
*Zigadenus mogollonensis* Hess & Sivinski  
*porrifolia* (Greene) Rydberg = *Anticlea virescens* (Kunth) Rydberg  
***virescens*** (Kunth) Rydberg [M&H; Schwartz 2002; W&S]  
*Anticlea porrifolia* (Greene) Rydberg  
*Helonias virescens* Kunth  
*Zigadenus porrifolius* Greene  
*Zigadenus virescens* (Kunth) Macbride  
*Helonias paniculata* Nuttall = *Toxicoscordion paniculatum* (Nuttall) Rydberg  
*virescens* Kunth = *Anticlea virescens* (Kunth) Rydberg  
***Schoenocaulon*** *schoenocaulon*  
Frame, D.. 2002. *Schoenocaulon*, pp. 79-81. IN: Flora of North America, vol. 26. Oxford University Press, New York.  
***texanum*** Scheele [Frame 2002; M&H]  
***Toxicoscordion*** *death-camas*  
Schwartz, F.C. 2002. *Zigadenus*, pp. 81-88. IN: Flora of North America, vol. 26. Oxford University Press, New York.  
Zomlefer, W.B. 2003. Documented chromosome numbers 2003: 1. Chromosome number of *Toxicoscordion nuttallii* (Liliaceae: Melanthiaceae) and clarification of the genus. *Sida* 20(3):1085-1092.  
Zomlefer, W.B. and W.S. Judd. 2002. Resurrection of segregates of the polyphyletic genus *Zigadenus* s.l. (Liliales: Melanthiaceae) and resulting new combinations. *Novon* 12:299-308.  
*falcatum* Rydberg = *Toxicoscordion venenosum* (S. Watson) Rydberg var. *gramineum* (Rydberg) Brasher  
*gramineum* Rydberg = *Toxicoscordion venenosum* (S. Watson) Rydberg var. *gramineum* (Rydberg) Brasher  
***paniculatum*** (Nuttall) Rydberg [M&H; Schwartz 2002; W&S]  
*Helonias paniculata* Nuttall  
*Zigadenus paniculatus* (Nuttall) S. Watson  
***venenosum*** (S. Watson) Rydberg var. ***gramineum*** (Rydberg) Brasher [M&H; W&S]  
*Toxicoscordion gramineum* Rydberg  
*Toxicoscordion falcatum* Rydberg  
*Zigadenus falcatus* Rydberg  
*Zigadenus gramineus* Rydberg  
*Zigadenus intermedius* Rydberg  
*Zigadenus venenosus* S. Watson var. *gramineus* (Rydberg) Walsh ex M.E. Peck  
*Zigadenus venenosus* S. Watson var. *gramineus* (Rydberg) Walsh ex C.L. Hitchcock  
***Veratrum*** *western skunk-cabbage*  
McNeal, D.W. Jr. & A.D. Shaw. 2002. *Veratrum*, pp. 72-76. IN: Flora of North America, vol. 26. Oxford University Press, New York.  
***californicum*** Durand var. ***californicum*** [M&H; McNeal & Shaw 2002; W&S]  
*Veratrum speciosum* Rydberg  
*Veratrum tenuipetalum* A. Heller  
*speciosum* Rydberg = *Veratrum californicum* Durand  
*tenuipetalum* A. Heller = *Veratrum californicum* Durand  
*Zigadenus coloradoensis* Rydberg = *Anticlea elegans* (Pursh) Rydberg  
*dilatatus* Greene = *Anticlea elegans* (Pursh) Rydberg  
*elegans* Pursh = *Anticlea elegans* (Pursh) Rydberg  
*falcatus* Rydberg = *Toxicoscordion venenosum* (S. Watson) Rydberg var. *gramineum* (Rydberg) Brasher  
*gramineus* Rydberg = *Toxicoscordion venenosum* (S. Watson) Rydberg var. *gramineum* (Rydberg) Brasher  
*intermedius* Rydberg = *Toxicoscordion venenosum* (S. Watson) Rydberg var. *gramineum* (Rydberg) Brasher  
*mogollonensis* Hess & Sivinski = *Anticlea mogollonensis* (Hess & Sivinski) Zomlefer & Judd  
*paniculatus* (Nuttall) S. Watson = *Toxicoscordion paniculatum* (Nuttall) Rydberg

*porrifolius* Greene = *Anticlea virescens* (Kunth) Rydberg  
*venenosus* S. Watson var. *gramineus* (Rydberg) Walsh ex M.E. Peck = *Toxicoscordion venenosum* (S. Watson) Rydberg var. *gramineum* (Rydberg) Brasher  
*venenosus* S. Watson var. *gramineus* (Rydberg) Walsh ex C.L. Hitchcock = *Toxicoscordion venenosum* (S. Watson) Rydberg var. *gramineum* (Rydberg) Brasher  
*virescens* (Kunth) Macbride = *Anticlea virescens* (Kunth) Rydberg

Family *NAJADACEAE* = *HYDROCHARITACEAE*

Family *NOLINACEAE* = *RUSCACEAE*

**Family ORCHIDACEAE** [14/32/35]

- Arenas, S. & M. Angel. 1988. Updated list of the orchids of Mexico. *Orquidea* 11:233-276.  
 Coleman, R.A. 2002. *The Wild Orchids of Arizona and New Mexico*. Cornell University Press, Ithaca, NY. 248 p.  
 Correll, D.S. 1950. Native orchids of North America north of Mexico. *Chronica Botanica* 26:1-399.  
 Dressler, R.L. 1993. Phylogeny and classification of the orchid family. Dioscorides Press, Portland, Oregon.  
 Luer, C.A. 1975. *The native orchids of the United States and Canada, excluding Florida*. New York Botanical Garden.  
 Todsén, T. 2000. Artificial key to the orchids of New Mexico. *The New Mexico Botanist* 14:1-2.
- Achroanthus porphyrea* (Ridley) Wootton & Standley = *Malaxis wendtii* Salazar  
*montana* (Rothrock) Greene = *Malaxis soulei* L.O. Williams
- Arethusa spicata* Walter = *Hexalectris spicata* (Walter) Barnhart
- Calypso** fairy-slipper  
 Sheviak, C.J. & P.M. Catling. 2002. *Calypso*, pp. 622-623. IN: *Flora of North America*, vol. 26. Oxford University Press, New York.  
*americana* R. Brown = *Calypso bulbosa* (Linnaeus) Oakes var. *americana* (R. Brown) Luer  
**bulbosa** (Linnaeus) Oakes var. *americana* (R. Brown ex Aiton f.) Luer [Coleman 2002; M&H; Sheviak & Catling 2002; W&S]  
*Calypso americana* R. Brown ex Aiton f.  
*Cytherea bulbosa* House
- Cladorhiza maculata* Rafinesque = *Corallorhiza maculata* (Rafinesque) Rafinesque  
*Coeloglossum bracteatum* (Muhlenberg) Parlatore = *Dactylorhiza viride* (Linnaeus) Bateman, Pridgeon, & Chase  
*viride* (Linnaeus) Hartman = *Dactylorhiza viride* (Linnaeus) Bateman, Pridgeon, & Chase  
*viride* (Linnaeus) Hartman var. *virescens* (Muhlenberg ex Willdenow) Luer = *Dactylorhiza viride* (Linnaeus) Bateman, Pridgeon, & Chase
- Corallorhiza** coral-root  
 Freudenstein, J. 1997. A monograph of *Corallorhiza*, Orchidaceae. *Harvard Papers in Botany* 10:5-51.  
 Magrath, L.K. & J.V. Freudenstein. 2002. *Corallorhiza*, pp. 633-638. IN: *Flora of North America*, vol. 26. Oxford University Press, New York.  
 Todsén, T.K. 1970. *Spiranthes parasitica* and *Corallorhiza wisteriana* (Orchidaceae) new to New Mexico. *Southw. Natural.* 14(4):447-452.  
 Todsén, T.K. 1971. Color variation of *Corallorhiza* in New Mexico. *Southw. Naturalist* 16(1):121-122.  
*arizonica* S. Watson = *Hexalectris arizonica* (S. Watson) Kennedy & L. Watson  
**maculata** (Rafinesque) Rafinesque var. **maculata** [Freudenstein 1997; M&H; Magrath & Freudenstein 2002; W&S]  
*Cladorhiza maculata* Rafinesque  
*Corallorhiza multiflora* Nuttall  
**maculata** Rafinesque var. **occidentalis** (Lindley) Ames [Freudenstein 1997; Magrath & Freudenstein 2002]  
*Corallorhiza multiflora* Nuttall var. **occidentalis** Lindley  
**maculata** Rafinesque var. **mexicana** (Lindley) Freudenstein [Coleman 2002]  
*Corallorhiza mexicana* Lindley  
*mexicana* Lindley = *Corallorhiza maculata* Rafinesque var. *mexicana* (Lindley) Freudenstein  
*multiflora* Nuttall s.s. = *Corallorhiza maculata* Rafinesque  
*multiflora* Nuttall var. **occidentalis** Lindley = *Corallorhiza maculata* Rafinesque var. **occidentalis** (Lindley) Ames  
**odontorhiza** (Willdenow) Poirét var. **odontorhiza** [Magrath & Freudenstein 2002]  
*Cymbidium odontorhizon* Willdenow

- striata* Lindley var. *flavida* Todsén = *Corallorhiza striata* Lindley var. *vreelandii* (Rydberg) L.O. Williams
- striata*** Lindley var. ***striata*** [Luer 1975; Magrath & Freudenstein 2002]
- striata*** Lindley var. ***vreelandii*** (Rydberg) L.O. Williams [Coleman 2002; Freudenstein 1997; M&H; W&S]  
*Corallorhiza striata* Lindley var. *flavida* Todsén  
*Corallorhiza vreelandii* Rydberg
- trifida*** Chatelain [Coleman 2002; Freudenstein 1997; M&H; Magrath & Freudenstein 2002]  
*vreelandii* Rydberg = *Corallorhiza striata* Lindley var. *vreelandii* (Rydberg) L.O. Williams
- wisteriana*** Conrad [Coleman 2002; Freudenstein 1997; M&H; Magrath & Freudenstein 2002; Todsén 1970]
- Cymbidium odontorrhizon* Willdenow = *Corallorhiza odontorrhiza* (Willdenow) Poiret var. *odontorrhiza*
- Cypripedium** ladies-slipper
- Sheviak, C.J. 1995. *Cypripedium parviflorum* Salisbury, Part 2: The large-flowered plants and patterns of variation. Amer. Orchid Soc. Bull. 64(June):606-612.
- Sheviak, D.J. 2002. *Cypripedium*, pp. 499-507. IN: Flora of North America, vol. 26. Oxford University Press, New York.
- calceolus* Linnaeus var. *pubescens* (Willdenow) Correll = *Cypripedium parviflorum* Salisbury var. *pubescens* (Willdenow) Knight
- parviflorum*** Salisbury var. ***pubescens*** (Willdenow) Knight [Coleman 2002; M&H; Sheviak 1995, 2002; W&S]  
*Cypripedium calceolus* Linnaeus var. *pubescens* (Willdenow) Correll  
*Cypripedium pubescens* Willdenow  
*Cypripedium veganum* Cockerell
- pubescens* Willdenow = *Cypripedium parviflorum* Salisbury var. *pubescens* (Willdenow) Knight
- veganum* Cockerell = *Cypripedium parviflorum* Salisbury var. *pubescens* (Willdenow) Correll
- Cytherea bulbosa* House = *Calypso bulbosa* (Linnaeus) Oakes var. *americana* (R. Brown) Luer
- Dactylorhiza** frog-orchid, orchis
- Bateman, R.M., A.M. Pridgeon, & M.W. Chase. 1997. Phylogenetics of subtribe Orchidinae based on nuclear ITS sequences. 2. Infrageneric relationships and reclassification to achieve monophyly of *Orchis* sensu stricto. Lindleyana 12(3):113-141.
- Bateman, R.M., P.M. Hollingsworth, J. Preston, L. Yi-Bo, A.M. Pridgeon, & M.W. Chase. 2003. Molecular phylogenetics and evolution of Orchidinae and selected Habenariinae (Orchidaceae). Bot. J. Linnean Soc. 142: 1-40.
- Cribb, P.J., M.W. Chase. 2001. Conservation of *Dactylorhiza* (1481). Proposal to conserve the name *Dactylorhiza* Necker ex Nevski over *Coeloglossum* Hartm. (Orchidaceae). Taxon 50: 581-582.
- Pridgeon, A.M., R.M. Bateman, A.V. Cox, J.R. Hapeman, & M.W. Chase. 1997. Phylogenetics of subtribe Orchidinae (Orchidoideae, Orchidaceae) based on nuclear ITS sequences: 1. Intergeneric relationships and polyphyly of *Orchis* sensu lato. Lindleyana 12(2):89-109.
- Sheviak, C.J. & P.M. Catling. 2002. *Coeloglossum*, pp. 580. IN: Flora of North America, vol. 26. Oxford University Press, New York.
- viride*** (Linnaeus) Bateman, Pridgeon, & Chase [Coleman 2002; M&H; Sheviak & Catling 2002; W&S]  
*Coeloglossum bracteatum* (Muhlenberg) Parlatore  
*Coeloglossum viride* (Linnaeus) Hartman var. *virescens* (Muhlenberg ex Willdenow) Luer  
*Habenaria bracteata* (Muhlenberg) R. Brown  
*Habenaria viridis* (Linnaeus) R. Brown var. *bracteata* (Muhlenberg ex Willdenow) Gray  
*Orchis virescens* Muhlenberg ex Willdenow  
*Satyrium viride* Linnaeus
- Epipactis** helleborine
- Brown, P.M. & G.W. Argus. 2002. *Epipactis*, pp. 584-586. IN: Flora of North America, vol. 26. Oxford University Press, New York.
- Sivinski, R.C. 1993. Noteworthy collections (New Mexico). Madroño 40:273-274. [*Epipactis helleborine*]
- gigantea*** Douglas ex Hooker [Brown & Argus 2002; Coleman 2002; M&H; W&S]  
***\*helleborine*** (Linnaeus) Crantz [Brown & Argus 2002; Coleman 2002; Sivinski 1993]  
*Serapias helleborine* Linnaeus



- Goodyera** rattlesnake-plantain  
Kallunki, J.A. 2002. *Goodyera*, pp. 514-517. IN: Flora of North America, vol. 26. Oxford University Press, New York.
- decipiens* (Hooker) F. T. Hubbard = *Goodyera oblongifolia* Rafinesque
- oblongifolia** Rafinesque [Coleman 2002; Kallunki 2002; M&H; W&S]  
*Goodyera decipiens* (Hooker) F. T. Hubbard  
*Peranium decipiens* (Hooker) Piper  
*Peranium menziesii* (Lindley) Morong
- repens** (Linnaeus) R. Brown ex Aiton f. [Coleman 2002; Kallunki 2002; M&H; W&S]  
*Goodyera repens* (Linnaeus) R. Brown ex Aiton f. var. *ophioides* Fernald  
*Peranium ophioides* (Fernald) Rydberg  
*Satyrium repens* Linnaeus  
*repens* (Linnaeus) R. Brown ex Aiton f. var. *ophioides* Fernald = *Goodyera repens* (Linnaeus) R. Brown
- Habenaria bracteata** (Muhlenberg) R. Brown = *Dactylorhiza viride* (Linnaeus) Bateman, Pridgeon, & Chase
- brevifolia* Greene = *Platanthera brevifolia* (Greene) Kraenzlin  
*dilatata* (Pursh) Hooker = *Platanthera dilatata* (Pursh) Lindley ex Beck var. *dilatata*  
*hyperborea* (Linnaeus) R. Brown = *Platanthera hyperborea* (Linnaeus) Lindley  
*limosa* (Lindley) Hemsley = *Platanthera limosa* Lindley  
*neomexicana* Tidestrom =? *Platanthera hyperborea* (Linnaeus) Lindley var. *purpurascens* (Rydberg) Luer  
*saccata* Greene (= *Platanthera stricta* Lindley) : This species does not occur in NM (Luer 1975; Todsens pers. comm.); NM material that has gone by this name is assigned to *Platanthera hyperborea* (Linnaeus) Lindley var. *purpurascens* (Rydberg) Luer  
*sparsiflora* S. Watson var. *brevifolia* (Greene) Correll = *Platanthera brevifolia* (Greene) Kraenzlin  
*sparsiflora* S. Watson var. *laxiflora* (Rydberg) Correll = *Platanthera sparsiflora* (S. Watson) Schlechter  
*sparsiflora* S. Watson var. *sparsiflora* = *Platanthera sparsiflora* (S. Watson) Schlectendal  
*thurberi* A. Gray = *Platanthera limosa* Lindley  
*viridis* (Linnaeus) R. Brown var. *bracteata* (Muhlenberg ex Willdenow) Gray = *Dactylorhiza viride* (Linnaeus) Bateman, Pridgeon, & Chase  
*unalascensis* (Sprengel) S. Watson = *Piperia unalascensis* (Sprengel) Rydberg
- Hexalectris** crested-coral-root  
Burgess, T.L. & D.K. Northington. 1981. Plants of the Guadalupe Mountains and Carlsbad Caverns National Parks. Chihuahuan Desert Research Institute Contr. No. 107:1-174. [*Hexalectris nitida*]  
Catling, P.M. & V.S. Engel. 1993. Systematics and distribution of *Hexalectris spicata* var. *arizonica* (Orchidaceae). *Lindleyana* 8(3):119-125.  
Goldman, D.H., R.A. Coleman, L.K. Magrath, & P.M. Catling. 2002. *Hexalectris*, pp. 603-607. IN: Flora of North America, vol. 26. Oxford University Press, New York.  
Howell, D.J. 1986. Status report: *Hexalectris nitida* L.O. Wms. in Johnston. Office of Endangered Species, Fish and Wildlife Service, Albuquerque, New Mexico.  
Kennedy, A.H. & L.E. Watson. 2010. Species delimitations and phylogenetic relationships within the fully myco-heterotrophic *Hexalectris* (Orchidaceae). *Syst. Bot.* 35(1):64-76.  
Lowrey, T. 2013. Plant distribution reports. *The New Mexico Botanist* 59:1. [*Hexalectris colemanii*]  
Todsens, T.K. 2000. New plant distribution records. *The New Mexico Botanist* 14:4. [*Hexalectris revoluta*]  
**arizonica** (S. Watson) Kennedy & L. Watson [Catling & Engel 1993; Coleman 2002; Goldman et al. 2002]  
*Corallorhiza arizonica* S. Watson  
*Hexalectris spicata* (Walter) Barnhart var. *arizonica* (S. Watson) Catling & Engel
- colemanii** (Catling) Kennedy & L. Watson [Lowrey 2013]  
*Hexalectris revoluta* Correll var. *colemanii* Catling
- nitida** L.O. Williams [Burgess & Northington 1981; Coleman 2002; Goldman 2002; Howell 1986]  
*revoluta* Correll : Questionably reported by Todsens (2000); awaits verification.  
*revoluta* Correll var. *colemanii* Catling = *Hexalectris colemanii* (Catling) Kennedy & L. Watson
- spicata* (Walter) Barnhart : NM reports of this belong to *Hexalectris arizonica* (S. Watson) Kennedy & L. Watson; awaits verification.

*Arethusa spicata* Walter

*spicata* (Walter) Barnhart var. *arizonica* (S. Watson) Catling & Engel = *Hexalectris arizonica* (S. Watson) Kennedy & L. Watson

*Ibidium cernuum* (Linnaeus) House [= *Spiranthes cernua* (Linnaeus) L.C.M. Richard] : Not occurring in NM, but replaced by *Spiranthes magnicamporum* Sheviak [Luer 1975; Sheviak 1982].

*strictum* House = *Spiranthes romanzoffiana* Chamisso

*Limnorchis borealis* (Chamisso) Rydberg = *Platanthera dilatata* (Pursh) Lindley ex Beck var. *dilatata*

*brevifolia* (Greene) Rydberg = *Platanthera brevifolia* (Greene) Kraenzlin

*dilatata* Rydberg = *Platanthera dilatata* (Pursh) Lindley ex Beck var. *dilatata*

*ensifolia* Rydberg = *Platanthera sparsiflora* (S. Watson) Schlechter

*hyperborea* (Linnaeus) Rydberg = *Platanthera hyperborea* (Linnaeus) Lindley

*laxiflora* Rydberg = *Platanthera sparsiflora* (S. Watson) Schlechter

*purpurascens* Rydberg = *Platanthera purpurascens* (Rydberg) Sheviak & Jennings

*sparsiflora* (S. Watson) Rydberg = *Platanthera sparsiflora* (S. Watson) Schlectendal

*stricta* (Lindley) Rydberg [= *Platanthera stricta* Lindley] : Reported as a synonym in M&H, but not occurring in NM [Luer 1975].

*thurberi* (Gray) Rydberg = *Platanthera limosa* Lindley

*viridiflora* (Chamisso) Rydberg [= *Platanthera hyperborea* (Linnaeus) Lindley var. *viridiflora* (Chamisso) Luer] : Reported as a synonym in M&H, and attributed to NM by various authors, but not occurring in NM [Luer 1973].

*Listera borealis* Morong = *Neottia cordata* (Linnaeus) Richard

*cordata* (Linnaeus) R. Brown = *Neottia cordata* (Linnaeus) Richard

*cordata* (Linnaeus) R. Brown var. *nephrophylla* (Rydberg) Hult n = *Neottia cordata* (Linnaeus) Richard

*nephrophylla* Rydberg = *Neottia cordata* (Linnaeus) Richard

**Malaxis** adder's-mouth

Catling, P.M. & L.K. Magrath. 2002. *Malaxis*, pp. 627-632. IN: Flora of North America, vol. 26. Oxford University Press, New York.

Todsen, T.K. 1997. Naming a southwestern *Malaxis* (Orchidaceae). *Sida* 17(3):637-638.

*abieticola* Salazar & Arenas [Catling & Magrath 2002; Coleman 2002; Luer 1975; M&H]

*Malaxis tenuis* (S. Watson) Ames, not Reichenbach f.

*corymbosa* (S. Watson) Kuntze : Reported as expected by M&H; awaits verification.

*ehrenbergii* (Reichenbach f.) Kuntze : Not occurring in NM; our material referable to *Malaxis porphyrea* [Todsens 1997].

*macrostachya* (Lexarza) Kuntze : Not occurring in NM; our material is referred to *Malaxis soulei* L.O. Williams (Todsens, pers. comm.).

*porphyrea* (Ridley) Kuntze [Coleman 2002; M&H; Todsens 1997; W&S]

*Achroanthes porphyrea* (Ridley) Wootton & Standley

*Malaxis ehrenbergii* auctores, misapplied

*Microstylis porphyrea* Ridley

*soulei* L.O. Williams [Arenas & Angel 1988; Catling & Magrath 2002; Coleman 2002; M&H; W&S]

*Achroanthes montana* (Rothrock) Greene

*tenuis* (S. Watson) Ames, not Reichenbach f. = *Malaxis abieticola* Salazar & Arenas

*wendtii* Salazar : Reported by Todsens (1995), but identification corrected to *Malaxis porphyrea* (Ridley) Kuntze [Todsens, pers. comm.].

*Microstylis porphyrea* Ridley = *Malaxis porphyrea* (Ridley) Kuntze

**Microthelys** Mexican ladies-tresses

Coleman, R.A. & M. Baker. 2006. *Microthelys rubrocallosa*, a new addition to the orchid flora of the United States. *Orchids*, Jan 2006:56-57. [*Microthelys rubrocallosa*]

Jenkins, P. 2005. Plant distribution reports. *The New Mexico Botanist* 34:7. [*Microthelys rubrocallosa*]

*rubrocallosa* (B.L. Robinson & Greenman) Garay [Coleman & Baker 2006; Jenkins 2005]

*Schiedeella rubrocallosa* (B.L. Robinson & Greenman) Balogh

*Spiranthes porphyricola* Schlechter

*Spiranthes rubrocallosa* B.L. Robinson & Greenman

**Neottia** twayblade

Magrath, L.K. & R.A. Coleman. 2002. *Listera*, pp. 586-592. IN: Flora of North America, vol. 26. Oxford University Press, New York.

- borealis** (Morong) Szlachetko [Legler 2010]  
*Listera borealis* Morong
- cordata** (Linnaeus) Richard [Magrath & Coleman 2002; M&H; W&S]  
*Listera cordata* (Linnaeus) R. Brown  
*Listera cordata* (Linnaeus) R. Brown var. *nephrophylla* (Rydberg) Hultén  
*Listera nephrophylla* Rydberg  
*Neottia nephrophylla* (Rydberg) Szlachetko  
*Ophrys cordata* Linnaeus  
*Ophrys nephrophylla* (Rydberg) Szlachetko  
*nephrophylla* (Rydberg) Szlachetko = *Neottia cordata* (Linnaeus) Richard  
*Ophrys nephrophylla* (Rydberg) Szlachetko = *Listera cordata* (Linnaeus) R. Brown var.  
*nephrophylla* (Rydberg) Hultén
- Orchis dilatata* Pursh = *Platanthera dilatata* (Pursh) Lindley ex Beck  
*obtusata* Banks ex Pursh = *Platanthera obtusata* (Banks ex Pursh) Lindley  
*virescens* Muhlenberg ex Willdenow = *Dactylorhiza viride* (Linnaeus) Bateman, Pridgeon,  
& Chase
- Peramium decipiens* (Hooker) Piper = *Goodyera oblongifolia* Rafinesque  
*menziesii* (Lindley) Morong = *Goodyera oblongifolia* Rafinesque  
*ophioides* (Fernald) Rydberg = *Goodyera repens* (Linnaeus) R. Brown ex Aiton f.
- Piperia** rein-orchid  
Ackerman, J.C. & R. Morgan. 2002. *Piperia*, pp. 571-577. IN: Flora of North America, vol. 26. Oxford University Press, New York.  
Sivinski, R.C. & K. Lightfoot, eds. 1994. Inventory of rare and endangered plants of New Mexico. New Mexico Forestry and Resources Conservation Division, Misc. Publ. No. 3. [*Piperia unalascensis*]  
*dilatata* (Pursh) Szlachetko = *Platanthera dilatata* (Pursh) Lindley ex Beck  
**unalascensis** (Sprengel) Rydberg [Ackerman & Morgan 2002; Coleman 2002; Sivinski & Lightfoot 1994]  
*Habenaria unalascensis* (Sprengel) S. Watson  
*Spiranthes unalascensis* Sprengel
- Platanthera** bog-orchid  
Correll, D.S. & H.B. Correll. 1972. Aquatic and Wetland Plants of Southwestern United States. Stanford Univ. Press. [*Platanthera sparsiflora laxiflora*]  
Heil, K. 2007. Plant distribution reports [*Platanthera dilatata*]. The New Mexico Botanist 39:7.  
Heil, K.D. 2009. Plant distribution reports [*Platanthera obtusata*]. The New Mexico Botanist 46:7.  
Luer, C.A. 1975. The native orchids of the United States and Canada, excluding Florida. New York Botanical Garden.  
Sears, C.J. 2008. Morphological discrimination of *Platanthera aquilonis*, *P. huronensis*, and *P. dilatata* (Orchidaceae) herbarium specimens. Rhodora 110(944): 389-405.  
Sheviak, C.J. 1999. The identities of *Platanthera hyperborea* and *P. huronensis*, with the description of a new species North America. Lindleyana 14(4):193-203. [*Platanthera aquilonis*]  
Sheviak, C.J. 2002. *Platanthera*, pp. 551-571. IN: Flora of North America, vol. 26. Oxford University Press, New York.  
Sheviak, C.J. & W.F. Jennings. 2006. A new *Platanthera* (Orchidaceae) from the Intermountain West. Rhodora 108(933): 19-31.
- aquilonis** Sheviak [Coleman 2002; Sheviak 1999, 2002]  
*Platanthera hyperborea* sensu NM works
- brevifolia** (Greene) Kraenzlin [Coleman 2002; M&H; Sheviak 2002; W&S]  
*Habenaria brevifolia* Greene  
*Habenaria sparsiflora* S. Watson var. *brevifolia* (Greene) Correll  
*Limnorchis brevifolia* (Greene) Rydberg  
*Platanthera sparsiflora* (S. Watson) Schlechter var. *brevifolia* (Greene) Luer
- dilatata** (Pursh) Lindley ex Beck [Heil 2007]  
*Habenaria dilatata* (Pursh) Hooker  
*Limnorchis borealis* (Chamisso) Rydberg  
*Limnorchis dilatata* (Pursh) Rydberg  
*Orchis dilatata* Pursh  
*Piperia dilatata* (Pursh) Szlachetko
- huronensis** (Nuttall) Lindley [Coleman 2002; Correll & Correll 1972; Luer 1975; Sheviak 2002]  
*Orchis huronensis* Nuttall
- hyperborea* (Linnaeus) Lindley var. *gracilis* (Lindley) Luer = *Platanthera sparsiflora* (S. Watson) Schlechter

*hyperborea* sensu NM works = *Platanthera aquilonis* Sheviak; the true *P. hyperborea* (Linnaeus) Lindley is an Icelandic plant (Sheviak 1999).

*Habenaria hyperborea* (Linnaeus) R. Brown

*Limnorchis hyperborea* (Linnaeus) Rydberg

*Orchis hyperborea* Linnaeus

*hyperborea* (Linnaeus) Lindley var. *purpurascens* (Rydberg) Luer = *Platanthera purpurascens* (Rydberg) Sheviak & Jennings

*hyperborea* (Linnaeus) Lindley var. *viridiflora* (Chamisso) Luer : Reported as a synonym in M&H, and attributed to NM by various authors, but not occurring in NM [Luer 1975].

**limosa** Lindley [Coleman 2002; M&H; Sheviak 2002; W&S]

*Habenaria limosa* (Lindley) Hemsley

*Habenaria thurberi* A. Gray

*Limnorchis thurberi* (Gray) Rydberg

**obtusata** (Banks ex Pursh) Lindley [Heil 2009]

*Orchis obtusata* Banks ex Pursh

**purpurascens** (Rydberg) Sheviak & Jennings [Coleman 2002; Luer 1975; Sheviak 2002; W&S]

*Habenaria neomexicana* Tidestrom Note: Luer (1975) placed this name in synonymy under *Platanthera stricta* Lindley, which otherwise does not occur in NM.; placed here tentatively.

*Limnorchis purpurascens* Rydberg

*Platanthera hyperborea* (Linnaeus) Lindley var. *purpurascens* (Rydberg) Luer  
*sparsiflora* (S. Watson) Schlechter var. *brevifolia* (Greene) Luer = *Platanthera brevifolia* (Greene) Kraenzlin

*sparsiflora* (S. Watson) Schlechter var. *ensifolia* (Rydberg) Luer = *Platanthera sparsiflora* (S. Watson) Schlechter

**sparsiflora** (S. Watson) Schlechter [Coleman 2002; Luer 1975; M&H; Sheviak 2002; W&S]

*Habenaria laxiflora* Rydberg

*Habenaria sparsiflora* S. Watson

*Habenaria sparsiflora* S. Watson var. *laxiflora* (Rydberg) Correll

*Limnorchis ensifolia* Rydberg

*Limnorchis sparsiflora* (S. Watson) Rydberg

*Platanthera hyperborea* (Linnaeus) Lindley var. *gracilis* (Lindley) Luer  
*Platanthera sparsiflora* (S. Watson) Schlechter var. *ensifolia* (Rydberg) Luer  
*stricta* Lindley : Reported as a synonym in M&H, but not occurring in NM; plants known as this are referred to *Platanthera purpurascens* (Rydberg) Sheviak & Jennings [Coleman 2002; Luer 1975].

*tescammis* Sheviak & Jennings : Sometimes reported informally for NM (see iNaturalist.org), but not substantiated; awaits verification.

## **Schiedeella**

Indian-braids

Balogh, P. 1982. Generic redefinition in subtribe Spiranthinae (Orchidaceae). Amer. J. Bot. 69:1119-1132.

Brown, P.M. 2002. *Schiedeella*, pp. 530. IN: Flora of North America, vol. 26. Oxford University Press, New York.

Brown, P.M. & R.A. Coleman. 2000. *Schiedeella arizonica*: A new species from the southwestern United States. North American Native Orchid Journal 6:3-17.

Garay, L.A. 1982. Generic revision of the Spiranthinae. Bot. Mus. Leafl. Harvard Univ. 28:311-313.

Hess, W.J. 2000. New plant distribution records. The New Mexico Botanist 15:7. [*Spiranthes parasitica*]

Todsen, T.K. 1970. *Spiranthes parasitica* and *Corallorhiza wisteriana* (Orchidaceae) new to New Mexico. Southw. Natural. 14(4):447-452. [*Schiedeella parasitica*]

**arizonica** P.M. Brown [Brown 2002; Brown & Coleman 2000; Coleman 2002; Hess 2000; M&H; Todsen 1970]

*Schiedeella parasitica* of NM authors

*Spiranthes parasitica* of NM authors

*parasitica* of NM authors = *Schiedeella arizonica* P.M. Brown

*rubrocallosa* (B.L. Robinson & Greenman) Balogh = *Microthelys rubrocallosa* (B.L.

Robinson & Greenman) Garay

*Satyrium repens* Linnaeus = *Goodyera repens* (Linnaeus) R. Brown ex Aiton f.

*viride* Linnaeus = *Dactylorhiza viride* (Linnaeus) Bateman, Pridgeon, & Chase

*Serapias helleborine* Linnaeus = *Epipactis helleborine* (Linnaeus) Crantz

**Spiranthes** ladies-tresses

- Balogh, P. 1982. Generic redefinition in subtribe Spiranthinae (Orchidaceae). *Amer. J. Bot.* 69:1119-1132.
- Garay, L.A. 1982. Generic revision of the Spiranthinae. *Bot. Mus. Leafl. Harvard Univ.* 28:311-313.
- Sheviak, C.J. & P.M. Brown. 2002. *Spiranthes*, pp. 530-545. IN: *Flora of North America*, vol. 26. Oxford University Press, New York.
- Sivinski, R.C. & K. Lightfoot, eds. 1994. Inventory of rare and endangered plants of New Mexico. *Mexico Forestry and Resources Conservation Division, Misc. Publ. No. 3.* [*Spiranthes magnicamporum*]
- cernua of NM authors, not (Linnaeus) L.C.M. Richard s.s. : Reported by M&H, but not known in NM; replaced by *Spiranthes magnicamporum* Sheviak [Coleman 2002; Luer 1975; Sheviak 1982].
- magnicamporum** Sheviak [Coleman 2002; Luer 1975; Sheviak & Brown 2002; Sivinski & Lightfoot 1994]
- Spiranthes cernua* of NM works
- michuacana (La Llave & Lexarza) Hemsley : Reported as expected by M&H; awaits verification.
- parasitica* of NM authors = *Schiedeella arizonica* P.M Brown
- porphyricola* Schlecter = *Microthelys rubrocallosa* (B.L. Robinson & Greenman) Garay
- romanzoffiana** Chamisso [Coleman 2002; M&H; Sheviak & Brown 2002; W&S]
- Ibidium strictum* House
- rubrocallosa* B.L. Robinson & Greenman = *Microthelys rubrocallosa* (B.L. Robinson & Greenman) Garay
- unalascensis* Sprengel = *Piperia unalascensis* (Sprengel) Rydberg
- vernalis Engelmann & Gray : Reported as expected by M&H; awaits verification.

**Family POACEAE (GRAMINEAE)** [125/418/466]

- Allred, K.W. 1990. New Mexico grass types and a selected bibliography of New Mexico grass taxonomy. *Great Basin Natural.* 50(1):73-82.
- Allred, K.W. 2005. A Field Guide to the Grasses of New Mexico, 3<sup>rd</sup> ed. *Agric. Exp. Sta. New Mexico State University.* 388 pp.
- Allred, K.W., S.L. Hatch, & R. Soreng. 1986. Verified checklist of the grasses of New Mexico. *New Mexico Agr. Exp. Sta. Res. Rep.* 579. 45 pp.
- Barkworth, M.E., L.K. Anderton, K.M. Capels, S. Long, & M.B. Piep. 2007. *Manual of Grasses for North America.* Intermountain Herbarium and Utah State University Press. 626 pp.
- Clayton, W.E. & S.A. Revnioize. 1986. *Genera Graminum.* Kew Bull. Additional Series No. 13.
- Hitchcock, A.S. & A. Chase. 1951. *Manual of the Grasses of the United States.* 2nd ed. USDA Misc. Publ. 200. 1051 p.
- Holmgren, A.H. & N.H. Holmgren. 1977. Poaceae, pp. 174-464. IN: *Intermountain Flora*, vol. 6. New York Botanical Garden.
- Peterson, P.M., R.D. Webster, & J. Valdes-Reyna. 1997. Genera of New World Eragrostideae (Poaceae: Chloridoideae). *Smithsonian Contr. Bot.* 87.
- Peterson, P.M., K. Romaschenko, R.J. Soreng, & J. Valdes Reyna. 2019. A key to the North American genera of Stipeae (Poaceae, Pooideae) with descriptions and taxonomic names for species of *Eriocoma*, *Neotrinia*, *Oloptum*, and five new genera: *Barworthia*, *×Eriosella*, *Pseudoeriacoma*, *Ptilagrosiella*, and *Thorneochloa*. *PhytoKeys* 126: 89-125.
- Romaschenko K, P.M. Peterson, R.J. Soreng, N. Garcia-Jacas, & A. Susanna A. 2010. Phylogenetics of Stipeae (Poaceae: Pooideae) based on plastid and nuclear DNA sequences. p. 513-539. IN: O. Seberg, G. Petersen, A.S. Barfod, & J.I. Davis (eds.) *Diversity, phylogeny, and evolution in the monocotyledons.* Aarhus University Press, Denmark.
- Saarela, J.M., R.D. Bull, M.J. Paradis, S.N. Ebata, P.M. Peterson, R.J. Soreng, & B. Paszko. 2017. Molecular phylogenetics of cool-season grasses in the subtribes Agrostidineae, Anthoxanthinae, Aveninae, Brizinae, Calothecinae, Koeleriinae and Phalaridinae (Poaceae, Pooideae, Poaeae, Poaeae chloroplast group 1). *PhytoKeys* 87: 1-139.
- Soreng, R.J., P.M. Peterson, K. Romaschenko, G. Davidse, F.O. Zuloaga, E.J. Judziewicz, T.S. Filgueiras, J.I. Davis, & O. Morrone. 2015. A worldwide phylogenetic classification of the Poaceae (Gramineae). *Journal of Systematics and Evolution* 53(2):117-137.
- Soreng, R.J., P.M. Peterson, K. Romaschenko, G. Davidse, J.K. Teisher, L.G. Clark, P. Barbera, L.J. Gillespie, & F.O. Zuloaga. 2017. A worldwide phylogenetic classification of the Poaceae (Gramineae) II: An update and a comparison of two 2015 classifications. *Journal of Systematics and Evolution* 55(4): 259-290.
- Tucker, G.C. 1990. The genera of Arundinoideae (Gramineae) in the southeastern United States. *J. Arnold Arbor.* 71:145-177.
- Watson, L. & M.J. Dallwitz. 1992. *The grass genera of the world.* CAB International, Wallingford, United Kingdom, 1038 pp.
- Wootton, E.O. & P.C. Standley. 1912. The grasses and grasslike plants of New Mexico. *New Mex. Agr. Exp. Sta. Bull. No. 81.* 175 pp.

*Acampoclados sessilispicus* (Buckley) Nash = *Eragrostis sessilispica* Buckley  
*Achnatherum aridum* (M.E. Jones) Barkworth = *Eriocoma arida* (M.E. Jones) Romaschenko  
 × *bloomeri* (Bolander) Barkworth = *Eriocoma* × *bloomeri* (Bolander) Romaschenko  
*curvifolium* (Swallen) Barkworth = *Eriocoma curvifolia* (Swallen) Romaschenko  
*eminens* (Cavanilles) Barkworth = *Pseudoeriocoma eminens* (Cavanilles) Romaschenko  
*hymenoides* (Roemer & J.A. Schultes) Barkworth = *Eriocoma hymenoides* (Roemer & J.A. Schultes) Rydberg

*lettermanii* (Vasey) Barkworth = *Eriocoma lettermanii* (Vasey) Romaschenko  
*lobatum* (Swallen) Barkworth = *Eriocoma lobata* (Swallen) Romaschenko  
*nelsonii* (Scribner) Barkworth = *Eriocoma nelsonii* (Scribner) Romaschenko  
*perplexum* Hoge & Barkworth = *Eriocoma perplexa* (Hoge & Barkworth) Romaschenko  
*pinetorum* (M.E. Jones) Barkworth = *Eriocoma pinetorum* (M.E. Jones) Romaschenko  
*robustum* (Vasey) Barkworth = *Eriocoma robusta* (Vasey) Barkworth  
*scribneri* (Vasey) Barkworth = *Eriocoma scribneri* (Vasey) Romaschenko  
*speciosum* (Trinius & Ruprecht) Barkworth = *Pappostipa speciosa* (Trinius & Ruprecht) Romaschenko

**Aegilops**

goatgrass

Gupta, P.K. & B.R. Baum. 1986. Nomenclature and related taxonomic issues in wheats, triticales and some of their wild relatives. *Taxon* 35(1):144-149.

\**cylindrica* Host [Allred 2005; M&H]

*Triticum cylindricum* (Host) Cesati

**Aegopogon**

fragile-grass

Peterson, P.M., K. Romaschenko, & G. Johnson. 2010. A phylogeny and classification of the *Muhlenbergiinae* (Poaceae: Chloridoideae: Cynodonteae) based on plastid and nuclear DNA sequences. *Amer. J. Bot.* 97(9):1532-1554.

*cenchrroides* Humboldt & Bonpland ex Willdenow var. *abortivus* Fournier = *Aegopogon tenellus* (A.P. de Candolle) Trinius

*rigidisetus* Steudel = *Bouteloua rigidiseta* (Steudel) A.S. Hitchcock

\**tenellus* (A.P. de Candolle) Trinius [Allred 2005]

*Aegopogon cenchrroides* Humboldt & Bonpland ex Willdenow var. *abortivus* Fournier

*Aegopogon tenellus* (A.P. de Candolle) Trinius var. *abortivus* (Fournier) Beetle

*Lamarckia tenella* A.P. de Candolle

*Muhlenbergia geminiflora* (Kunth) P.M. Peterson

*tenellus* (A.P. de Candolle) Trinius var. *abortivus* (Fournier) Beetle = *Aegopogon tenellus* (A.P. de Candolle) Trinius

× *Agropyron littoralis* (Small) C.E. Hubbard = *Polypogon interruptus* Kunth

*lutosus* (Poiret) Fournier = *Polypogon interruptus* Kunth

**Agropyron**

crested wheatgrass

Asay, K.H., K.B. Jensen, C. Hsiao, & D.R. Dewey. 1992. Probable origin of standard crested wheatgrass, *Agropyron desertorum* (Fischer ex Link) Schultes. *Can. J. Plant Sci.* 72:763-772.

Baum, B.R., J.R. Estes, & P.K. Gupta. 1987. Assessment of the genomic system of classification in the Triticeae. *Amer. J. Bot.* 74:1388-1395.

Bowden, W.M. 1965. Cytotaxonomy of the species and interspecific hybrids of the genus *Agropyron* in Canada and neighboring areas. *Can. J. Bot.* 43:1421-1448.

Dewey, D.R. 1983. Historical and current taxonomic perspectives of *Agropyron*, *Elymus*, and related genera. *Crop Sci.* 23:637-642.

Dewey, D.R. 1986. Taxonomy of the crested wheatgrasses (*Agropyron*). p. 31-44. IN: Johnson, K.L. (ed.) *Crested wheatgrass: its values, problems and myths; a symposium*. Utah State University.

Estes, J.R. & R.J. Tysl. 1982. The generic concept and generic circumscription in the Triticeae: an end paper. IN J.R. Estes, R.J. Tysl, & J.N. Brunken (eds.), *Grasses and Grasslands*. p. 145-164. Univ. Oklahoma Press. Norman, Oklahoma.

Great Plains Flora Association. 1977. *Atlas of the Flora of the Great Plains*. Iowa State Univ. Press. 600 pp. [*Agropyron cristatum* subsp. *pectiniforme*]

Holmgren, A.H. & N.H. Holmgren. 1977. Tribe 3. Triticeae, pp. 292-336. IN: *Intermountain Flora*, vol. 6. New York Botanical Garden.

Runemark, H. & W.K. Heneen. 1968. *Elymus* and *Agropyron*, a problem of generic delimitation. *Bot. Notiser* 121:51-79.

× *andinum* (Scribner & Smith) Rydberg : An unstabilized hybrid of *Elymus trachycaulus* subsp. *violaceus* × *Elymus scribneri* (Bowden 1965).

*arizonicum* Scribner & Smith = *Elymus arizonicus* (Scribner & Smith) Gould

*bakeri* E. Nelson = *Elymus bakeri* (E. Nelson) Löve

*barbulatum* Schur = *Elymus hispidus* (Opiz) Melderis subsp. *barbulatus* (Schur) Melderis

- caninum* sensu M&H and W&S = *Elymus trachycaulus* (Link) Shinners subsp. *trachycaulus*  
**\**cristatum*** (Linnaeus) Gaertner [Allred 2005; M&H]  
*Agropyron cristatum* (Linnaeus) Gaetn. subsp. *desertorum* (Fischer ex Link) Löve  
*Agropyron cristatum* (Linnaeus) Gaertner subsp. *pectinatum* (Bieberstein) Tzvelev  
*Agropyron desertorum* (Fischer ex Link) Schultes  
*Agropyron pectiniforme* Roemer & Schultes  
*Bromus cristatus* Linnaeus  
*cristatum* (Linnaeus) Gaertner subsp. *desertorum* (Fischer ex Link) Löve = *Agropyron cristatum* (Linnaeus) Gaertner  
*cristatum* (Linnaeus) Gaertner subsp. *fragile* (Roth) Löve = *Agropyron fragile* (Roth) P. Candargy  
*cristatum* (Linnaeus) Gaertner subsp. *pectinatum* (Bieberstein) Tzvelev = *Agropyron cristatum* (Linnaeus) Gaertner  
*dasystachyum* (Hooker) Scribner = *Elymus lanceolatus* (Scribner & Smith) Gould  
*dasystachyum* (Hooker) Scribner var. *riparium* (Scribner & Smith) Bowden = *Elymus lanceolatus* (Scribner & Smith) Gould  
*desertorum* (Fischer ex Link) Schultes = *Agropyron cristatum* (Linnaeus) Gaertner  
*elongatum* = *Elymus ponticus* (Podpěra) N. Snow  
**\**fragile*** (Roth) P. Candargy [Allred 2005; M&H]  
*Agropyron cristatum* (Linnaeus) Gaertner subsp. *fragile* (Roth) Löve  
*Agropyron sibiricum* (Willdenow) Beauvois  
*Triticum fragile* Roth  
*hispidum* Opiz = *Elymus hispidus* (Opiz) Melderis subsp. *hispidus*  
*inermis* (Scribner & Smith) Rydberg = *Elymus spicatus* (Pursh) Gould  
*intermedium* (Host) Beauvois = *Elymus hispidus* (Opiz) Melderis subsp. *hispidus*  
*latiglume* = *Elymus trachycaulus* (Link) Gould subsp. *violaceus* (Hornm.) A. & D. Löve  
*lanceolatum* Scribner & Smith = *Elymus lanceolatus* (Scribner & Smith) Gould  
*molle* (Scribner & Smith) Rydberg = *Pascopyrum smithii* (Rydberg) Barkworth & Dewey  
*novae-angliae* Scribner = *Elymus trachycaulus* (Link) Gould subsp. *trachycaulus*  
*occidentale* Scribner = *Pascopyrum smithii* (Rydberg) Barkworth & Dewey  
*palmeri* (Scribner & Smith) Rydberg = *Pascopyrum smithii* (Rydberg) Barkworth & Dewey  
*pauciflorum* (Schweinitz) A.S. Hitchcock = *Elymus trachycaulus* (Link) Gould subsp. *trachycaulus*  
*pectiniforme* Roemer & Schultes = *Agropyron cristatum* (Linnaeus) Gaertner  
×*pseudorepens* Scribner & Smith = *Elymus* ×*pseudorepens* (Scribner & Smith) Barkworth & Dewey  
*repens* (Linnaeus) Beauvois = *Elymus repens* (Linnaeus) Gould  
*richardsonii* (Trinius) Schrader = *Elymus trachycaulus* (Link) Shinners subsp. *subsecundus* (Link) A. & D. Löve  
*riparium* Scribner & Smith = *Elymus lanceolatus* (Scribner & Smith) Gould  
×*saundersii* (Vasey) A.S. Hitchcock : Unstabilized hybrids of *Elymus longifolius* × *Elymus trachycaulus* [Allred 2005].  
×*saxicola* Scribner & Smith : Unstabilized hybrids of *Elymus longifolius* × *Elymus spicatus* [Allred 2005].  
*scribneri* Vasey = *Elymus scribneri* (Vasey) M.E. Jones  
*sibiricum* (Willdenow) Beauvois = *Agropyron fragile* (Roth) P. Candargy  
*smithii* Rydberg var. *molle* (Scribner & Smith) M.E. Jones = *Pascopyrum smithii* (Rydberg) Barkworth & Dewey  
*smithii* Rydberg var. *palmeri* (Scribner & Smith) Heller = *Pascopyrum smithii* (Rydberg) Barkworth & Dewey  
*smithii* Rydberg var. *smithii* = *Pascopyrum smithii* (Rydberg) Barkworth & Dewey  
*spicatum* (Pursh) Scribner & Smith = *Elymus spicatus* (Pursh) Gould  
*spicatum* (Pursh.) Scribner & Smith var. *arizonicum* (Scribner & Smith) Jones = *Elymus arizonicus* (Scribner & Smith) Gould  
*subsecundum* (Link) Hitchcock = *Elymus trachycaulus* (Link) Shinners subsp. *subsecundus* (Link) A. & D. Löve  
*tenerum* Vasey = *Elymus trachycaulus* (Link) Malt subsp. *trachycaulus*  
*trachycaulum* (Link) Malte = *Elymus trachycaulus* (Link) Shinners subsp. *trachycaulus*

- trichophorum* (Link) Richter = *Elymus hispidus* (Opiz) Melderis subsp. *barbulatus* (Schur) Melderis  
*triticeum* Gaertner = *Eremopyrum triticeum* (Gaertner) Nevski  
*unilaterale* Cassidy = *Elymus trachycaulus* (Link) Shinnars subsp. *subsecundus* (Link) A. & D. Löve  
*violaceum* (Hornemann) Lange = *Elymus trachycaulus* (Link) Shinnars subsp. *violaceus* (Hornemann) A. & D. Löve

**Agrostis**

- bentgrass**  
 Bjorkman, S.O. 1960. Studies in *Agrostis* and related genera. Symb. Bot. Upsal. 17:1-112.  
 Cronquist, A., A.H. Holmgren, N.H. Holmgren, J.L. Reveal, & P.K. Holmgren. 1977. Vol. 6 (Monocotyledons). New York Botanical Garden. 584 pp. [*Agrostis humilis*]  
 Kik, C., J. Van Andel, & W. Joenje. 1990. Life-history variation in ecologically contrasting populations of *Agrostis stolonifera*. J. Ecology 78:962-973.  
 Reeder, C.G. & J.R. Reeder. 1986. *Agrostis elliotiana* (Gramineae) new to Arizona and New Mexico. Phytologia 60:453-458.  
 Reeder, C.G. & J.R. Reeder. 1989. A further note on *Agrostis elliotiana*. Phytologia 67(2):134-138.  
 Swallen, J.R. 1948. *Agrostis variabilis* Rydberg, a valid species. Leafl. W. Bot. 5:123-125.  
*airoides* Torrey = *Sporobolus airoides* (Torrey) Torrey  
*alba* of numerous authors = *Agrostis gigantea* Roth and *Agrostis stolonifera* Linnaeus  
*bakeri* Rydberg = *Agrostis idahoensis* Nash  
*composita* Poirét = *Sporobolus compositus* (Poirét) Merrill  
*cryptandra* Torrey = *Sporobolus cryptandrus* (Torrey) A. Gray  
*elliottiana* Schultes [Allred 2005; Reeder & Reeder 1986]  
*Agrostis exigua* Thurber  
*Agrostis rosei* sensu W&S, not Scribner & Merrill  
**exarata** Trinius var. **minor** Hooker [Allred 2005; M&H; W&S]  
*exigua* Thurber = *Agrostis elliotiana* Schultes  
*filiformis* Torrey = *Muhlenbergia mexicana* (Linnaeus) Trinius  
**\*gigantea** Roth [Allred 2005; M&H; W&S]  
**redtop**  
*Agrostis alba* of numerous authors  
*hiemalis* sensu W&S = *Agrostis scabra* Willdenow  
*humilis* Vasey = *Podagrostis humilis* (Vasey) Bjorkman  
**idahoensis** Nash [Allred 2005; M&H; W&S]  
*Agrostis bakeri* Rydberg  
*interruptus* Linnaeus = *Apera interrupta* (Linnaeus) Beauvois  
*latifolia* Trevisan ex Goepfingger = *Cinna latifolia* (Trevisan ex Goepfingger) Grisebach  
*mexicana* Linnaeus = *Muhlenbergia mexicana* (Linnaeus) Trinius  
*minutissima* Steudel = *Muhlenbergia minutissima* (Steudel) Swallen  
*palustris* Hudson = *Agrostis stolonifera* Linnaeus  
**perennans** (Walter) Tuckerman [M&H; FNM]  
*Cornucopiae perennans* Walter  
*pyramidata* Lamarck = *Sporobolus pyramidatus* (Lamarck) A.S. Hitchcock  
*racemosa* Michaux = *Muhlenbergia racemosa* (Michaux) Britton, Sterns, & Poggenburg  
*rosei* sensu W&S = *Agrostis elliotiana* Schultes  
**scabra** Willdenow [Allred 2005; M&H; W&S]  
*Agrostis hiemalis* sensu W&S  
*semiverticillata* (Forsskål) C. Christensen = *Polypogon viridis* (Gouan) Breistroffer  
**\*stolonifera** Linnaeus [Allred 2005; M&H; W&S]  
*Agrostis alba* of numerous authors  
*Agrostis palustris* Hudson  
*Agrostis stolonifera* Linnaeus var. *palustris* (Hudson) Farwell  
*stolonifera* Linnaeus var. *palustris* (Hudson) Farwell = *Agrostis stolonifera* Linnaeus  
*torreyi* Kunth = *Muhlenbergia torreyi* (Kunth) A.S. Hitchcock  
**variabilis** Rydberg [Allred 2005]  
*viridis* Gouan = *Polypogon viridis* (Gouan) Breistroffer

**Aira**

- silver-hairgrass**  
 Adams, T. 1998. New plant distribution records. The New Mexico Botanist 8:10. [*Aira elegans*]  
*aquatica* Linnaeus = *Catabrosa aquatica* (Linnaeus) Beauvois



- \**caryophyllea* Linnaeus var. *capillaris* (Mertens & W.D.J. Koch) Mutel [Adams 1998]  
*Aira elegans* Willdenow ex Kunth  
*Aira elegantissima* Schur  
*cespitosa* Linnaeus = *Deschampsia cespitosa* (Linnaeus) Beauvois  
*danthonioides* Trinius = *Deschampsia danthonioides* (Trinius) Munro ex Benth  
*elegans* Willdenow ex Kunth = *Aira caryophyllea* Linnaeus var. *capillaris* (Mert. & W.D.J. Koch) Mutel  
*Aira elegantissima* Schur = *Aira caryophyllea* Linnaeus var. *capillaris* (Mert. & W.D.J. Koch) Mutel  
*macrantha* Ledebour = *Koeleria macrantha* (Ledebour) J.A. Schultes  
*obtusata* Michaux = *Sphenopholis obtusata* (Michaux) Scribner  
*purpurea* Walter = *Triplasis purpurea* (Walter) Chapman  
*spicata* Linnaeus = *Koeleria spicata* (Linnaeus) Barberá, Quintanar, Soreng, & P.M. Peterson

**Alopecurus** foxtail

- Dogan, M. 1999. A concise taxonomic revision of the genus *Alopecurus* L. (Gramineae). Turk. J. Bot. 23:245-262  
Sieber, V.K. & B.G. Murray. 1979. The cytology of the genus *Alopecurus* (Gramineae). Bot. J. Linn. Soc. 79:343-355.

*aequalis* Sobolewsky [Allred 2005; M&H; W&S]

*Alopecurus aristulatus* Michaux

*agrestis* Linnaeus = *Alopecurus myosuroides* Hudson

*aristulatus* Michaux = *Alopecurus aequalis* Sobolewsky

*carolinianus* Walter [Allred 2005; M&H]

\**geniculatus* Linnaeus [Allred 2005; M&H]

*monspeliensis* Linnaeus = *Polypogon monspeliensis* (Linnaeus) Desfontaines

\**myosuroides* Hudson [Allred 2005; M&H; W&S]

*Alopecurus agrestis* Linnaeus

\**pratensis* Linnaeus [Allred 2005]

*Amphilophis barbinodis* (Lagasca) Nash in Small = *Bothriochloa barbinodis* (Lagasca) Herter

*ischaemum* (Linnaeus) Nash = *Bothriochloa ischaemum* (Linnaeus) Keng

*saccharoides* as used by various authors = *Bothriochloa laguroides* (A.P. de Candolle)

Herter subsp. *torreyana* (Steudel) Allred & Gould

*wrightii* (Hackel) Nash = *Bothriochloa wrightii* (Hackel) Henrard

**Andropogon** bluestem

Barnes, P.W. 1986. Variation in the big bluestem (*Andropogon gerardii*)-sand bluestem (*Andropogon hallii*) complex along a local dune/meadow gradient in the Nebraska sandhills. Amer. J. Bot. 73(2):172-184.

Campbell, C.S. 1986. Phylogenetic reconstructions and two new varieties in the *Andropogon virginicus* complex (Poaceae: Andropogoneae). Syst. Bot. 11(2):280-292.

Gould, F.W. 1959. Transfers from *Andropogon* to *Bothriochloa* (Gramineae). Southw. Natural. 3:212.

Gould, F.W. 1967. The grass genus *Andropogon* in the United States. Brittonia 19:70-76.

Wipff, J.K. 1996. Nomenclatural combinations in the *Andropogon gerardii* complex (Poaceae: Andropogoneae). Phytologia 80(1):343-347.

*alta* Hitchcock = *Bothriochloa alta* (Hitchcock) Henrard

*argenteus* A.P. de Candolle: Often considered a synonym of *Bothriochloa barbinodis*

(Lagasca) Herter (and, if so, *argenteus* would have priority), but the two are not synonymous; *argenteus* has large pedicelled spikelets equal to the sessile ones.

*barbinodis* Lagasca = *Bothriochloa barbinodis* (Lagasca) Herter

*bladhi* Retzius = *Bothriochloa bladhi* (Retzius) S.T. Blake

*chrysocomus* Nash = *Andropogon gerardi* Vitman subsp. *chrysocomus* (Nash) Wipff

*cirratus* Hackel = *Schizachyrium cirratum* (Hackel) Wootton & Standley

*contortus* Linnaeus = *Heteropogon contortus* (Linnaeus) Beauvois ex Roemer & J.A. Schultes

*feensis* Fournier = *Schizachyrium sanguineum* (Retzius) Alston var. *hirtiflorum* (Nees) Hatch

*furcatus* Muhlenberg = *Andropogon gerardi* Vitman subsp. *gerardi*

*gerardi* Vitman subsp. *chrysocomus* (Nash) Wipff [Allred 2005; W&S]

big bluestem

- Andropogon chrysocomus* Nash  
**gerardi** Vitman subsp. **gerardi** [Allred 2005; M&H; W&S]  
 big bluestem  
*Andropogon furcatus* Muhlenberg  
**gerardi** Vitman subsp. **hallii** (Hackel) Wipff [Allred 2005; M&H; W&S]  
 big bluestem  
*Andropogon gerardi* Vitman var. *paucipilus* (Nash) Fernald  
*Andropogon hallii* Hackel var. *flaveolus* (Hackel) Hackel Note: There may be problems with the typification of this epithet and it may belong the subsp. *chrysocomus* instead.  
*Andropogon hallii* Hackel  
*Andropogon hallii* Hackel var. *muticus* Hackel  
*gerardi* Vitman var. *paucipilus* (Nash) Fernald = *Andropogon gerardi* Vitman subsp. *hallii* (Hackel) Wipff  
*glomeratus* (Walter) Britton, Sterns, & Poggenburg var. *pumilus* sensu Kartesz (1999) = *Andropogon glomeratus* (Walter) Britton, Sterns, & Poggenburg var. *scabriglumus* Campbell  
**glomeratus** (Walter) Britton, Sterns, & Poggenburg var. **scabriglumus** Campbell [Allred 2005; Campbell 1986; M&H]  
 bushy bluestem  
*Andropogon glomeratus* (Walter) Britton, Sterns, & Poggenburg var. *pumilus* sensu Kartesz  
*hallii* Hackel = *Andropogon gerardi* Vitman subsp. *hallii* (Hackel) Wipff  
*hallii* Hackel var. *flaveolus* (Hackel) Hackel = *Andropogon gerardi* Vitman subsp. *hallii* (Hackel) Wipff Note: There may be problems with the typification of this epithet and it may belong the subsp. *chrysocomus* instead.  
*hallii* Hackel var. *muticus* Hackel = *Andropogon gerardi* Vitman subsp. *hallii* (Hackel) Wipff  
*hirtiflorus* (Nees) Kunth var. *feensis* (Fournier) Hackel = *Schizachyrium sanguineum* (Retzius) Alston var. *hirtiflorum* (Nees) Hatch  
*hirtiflorus* (Nees) Kunth var. *hirtiflorus* = *Schizachyrium sanguineum* (Retzius) Alston var. *hirtiflorum* (Nees) Hatch  
*ischaemum* Linnaeus = *Bothriochloa ischaemum* (Linnaeus) Keng  
*ischaemum* Linnaeus var. *songaricus* Ruprecht ex Fischer & C.A.Meyer = *Bothriochloa ischaemum* (Linnaeus) Keng  
*melanocarpus* Elliott = *Heteropogon melanocarpus* (Elliott) Bentham  
*neomexicanus* Nash = *Schizachyrium scoparium* (Michaux) Nash var. *neomexicanum* (Nash) Hitchcock  
*nutans* Linnaeus = *Sorghastrum nutans* (Linnaeus) Nash  
*perforatus* Fournier = *Bothriochloa barbinodis* (Lagasca) Herter  
*ravennae* Linnaeus = *Tripodium ravennae* (Linnaeus) H. Scholz  
*saccharoides* as used by various authors = *Bothriochloa laguroides* (A.P. de Candolle) Herter subsp. *torreyana* (Steudel) Allred & Gould  
*saccharoides* Swartz var. *barbinodis* (Lagasca) Hackel = *Bothriochloa barbinodis* (Lagasca) Herter  
*scoparium* Michaux var. *frequens* C.E. Hubbard = *Schizachyrium scoparium* (Michaux) Nash var. *scoparium*  
*scoparium* Michaux var. *neomexicanus* (Nash) Hitchcock = *Schizachyrium scoparium* (Michaux) Nash var. *neomexicanum* (Nash) Hitchcock  
*scoparium* Michaux var. *scoparium* = *Schizachyrium scoparium* (Michaux) Nash var. *scoparium*  
*springfieldii* Gould = *Bothriochloa springfieldii* (Gould) Parodi  
*torreyanus* Steudel = *Bothriochloa laguroides* (A.P. de Candolle) Herter subsp. *torreyana* (Steudel) Allred & Gould  
*wrightii* Hackel = *Bothriochloa wrightii* (Hackel) Henrard  
*Anisantha diandra* (Roth) Tutin = *Bromus diandrus* Roth  
*rigida* (Roth) Hylander = *Bromus diandrus* Roth  
*rubens* (Linnaeus) Nevski = *Bromus madritensis* Linnaeus subsp. *rubens* (Linnaeus) Husnot  
*sterilis* (Linnaeus) Nevski = *Bromus sterilis* Linnaeus  
*tectorum* (Linnaeus) Nevski = *Bromus tectorum* Linnaeus

*Antheophora belangeri* Steudel = *Hilaria belangeri* (Steudel) Nash

***Anthoxanthum*** vernalgrass

Hartman, R.L. 1973. New plant records for New Mexico. *Southwestern Naturalist* 18(2):241-242.

Hedberg, I. 1990. Morphological, cytotoxic and evolutionary studies in *Anthoxanthum odoratum* L. s.l. *Sommerfeltia* 11:97-107.

Schouten, Y. & J.F. Veldkamp. 1985. A revision of *Anthoxanthum* including *Hierochloe* (Gramineae) in Malesia and Thailand. *Blumea* 30:319-351.

*nitens* (Weber) Y. Schouten & Veldkamp = *Hierochloe odorata* (Linnaeus) Beauvois

**\**odoratum*** Linnaeus [Allred 2005; M&H]

***Apera*** silky-bent

Bjorkman, S.O. 1960. Studies in *Agrostis* and related genera. *Symb. Bot. Upsal.* 17:1-112.

**\**interrupta*** (Linnaeus) Beauvois [Allred 2005]

*Agrostis interrupta* Linnaeus

***Aristida*** threeawn

Allred, K.W. 1984. Morphologic variation and classification of the North American *Aristida purpurea* complex (Gramineae). *Brittonia* 36:382-395.

Allred, K.W. 1994. A new name for *Aristida hamulosa* (Gramineae). *Phytologia* 77(5):411-413.

Allred, K.W. & J. Valdés-Reyna. 1995. Novelties and notes in North American *Aristida* (Gramineae). *Novon* 5(3):209-222.

Allred, K.W. & J. Valdés-Reyna. 1997. The *Aristida pansa* complex and a key to the Divaricatae group of North America (Gramineae: Aristideae). *Brittonia* 49(1):54-66.

Trent, J.S. & K.W. Allred. 1990. A taxonomic comparison of *Aristida ternipes* and *Aristida hamulosa* (Gramineae). *Sida* 14(2):251-261.

***adscensionis*** Linnaeus [Allred 2005; M&H; W&S]

six-weeks threeawn

*Aristida bromoides* Kunth

***arizonica*** Vasey [Allred 2005; M&H; W&S]

*barbata* Fournier = *Aristida havardii* Vasey

*bromoides* Kunth = *Aristida adscensionis* Linnaeus

*brownii* Warnock = *Aristida purpurea* Nuttall var. *wrightii* (Nash) Allred forma *brownii* (Warnock) Allred & Valdes-R.

*dissita* I.M. Johnston = *Aristida pansa* Wooton & Standley forma *dissita* (I.M. Johnston) Allred & Valdes-R.

***divaricata*** Humboldt & Bonpland ex Willdenow [Allred 2005; M&H; W&S]

*divergens* Vasey = *Aristida ternipes* Cavanilles var. *ternipes*

*fendleriana* Steudel = *Aristida purpurea* Nuttall var. *fendleriana* (Steudel) Vasey

*gentilis* Henrard = *Aristida ternipes* Cavanilles var. *gentilis* (Henrard) Allred

*glauca* (Nees) Walpers = *Aristida purpurea* Nuttall var. *nealleyi* (Vasey) Allred

*hamulosa* Henrard = *Aristida ternipes* Cavanilles var. *gentilis* (Henrard) Allred

***havardii*** Vasey [Allred 2005; M&H; W&S]

*Aristida barbata* Fournier

*longiseta* Steudel var. *longiseta* = *Aristida purpurea* Nuttall var. *longiseta* (Steudel) Vasey

*longiseta* Steudel var. *rariflora* Hitchcock = *Aristida purpurea* Nuttall var. *longiseta* (Steudel) Vasey

*longiseta* Steudel var. *robusta* Merrill = *Aristida purpurea* Nuttall var. *longiseta* (Steudel) Vasey

*micrantha* Nash = *Aristida purpurea* Nuttall var. *purpurea*

**\**oligantha*** Michaux [Allred 2005; M&H]

oldfield threeawn

*Aristida ramosissima* Engelmann ex A. Gray var. *chaseana* Henrard

*orcuttiana* Vasey = *Aristida schiedeana* Trinius & Ruprecht var. *orcuttiana* (Vasey) Allred & Valdés-R.

***pansa*** Wooton & Standley forma ***dissita*** (I.M. Johnston) Allred & Valdes-R. [Allred 2005; M&H]

*Aristida dissita* I.M. Johnston

*Aristida pansa* Wooton & Standley var. *dissita* (I.M. Johnston) Beetle

*pansa* Wooton & Standley var. *dissita* (I.M. Johnston) Beetle = *Aristida pansa* Wooton & Standley forma *dissita* (I.M. Johnston) Allred & Valdes-R.

***pansa*** Wooton & Standley forma ***pansa*** [Allred 2005; M&H; W&S]

*Aristida pansa* Wooton & Standley var. *pansa*

*pansa* Wooton & Standley var. *pansa* = *Aristida pansa* Wooton & Standley forma *pansa*

- purpurea** Nuttall var. **fendleriana** (Steudel) Vasey [Allred 2005; M&H; W&S]  
*Aristida fendleriana* Steudel
- purpurea** Nuttall var. **laxiflora** Merrill = *Aristida purpurea* Nuttall var. **purpurea**
- purpurea** Nuttall var. **longiseta** (Steudel) Vasey [Allred 2005; M&H; W&S]  
*Aristida longiseta* Steudel  
*Aristida longiseta* Steudel var. **rariflora** Hitchcock  
*Aristida longiseta* Steudel var. **robusta** Merrill
- purpurea** Nuttall var. **nealleyi** (Vasey) Allred [Allred 2005; M&H; W&S]  
*Aristida glauca* (Nees) Walpers  
*Aristida stricta* Michaux var. **nealleyi** Vasey  
*Aristida vaseyi* Wooton & Standley
- purpurea** Nuttall var. **perplexa** Allred & Valdes-R. [Allred & Valdes-R. 1995]
- purpurea** Nuttall var. **purpurea** [Allred 2005; M&H; W&S]  
*Aristida micrantha* Nash  
*Aristida purpurea* Nuttall var. **laxiflora** Merrill  
*Aristida roemeriana* Scheele
- purpurea** Nuttall var. **wrightii** (Nash) Allred [Allred 2005; M&H; W&S]  
*Aristida wrightii* Nash
- purpurea** Nuttall var. **wrightii** (Nash) Allred forma **brownii** (Warnock) Allred & Valdes-R. [Allred & Valdes-R. 1995.]  
*Aristida brownii* Warnock
- ramosissima** Engelm ex A. Gray var. **chaseana** Henrard = *Aristida oligantha* Michaux  
**roemeriana** Scheele = *Aristida purpurea* Nuttall var. **purpurea**
- schiedeana** Trinius & Ruprecht var. **orcuttiana** (Vasey) Allred & Valdés-R. [Allred & Valdes-R. 1995; M&H; W&S]  
*Aristida orcuttiana* Vasey
- stricta** Michaux var. **nealleyi** Vasey = *Aristida purpurea* Nuttall var. **nealleyi** (Vasey) Allred
- ternipes** Cavanilles var. **gentilis** (Henrard) Allred [Allred 2005; M&H]  
*Aristida gentilis* Henrard  
*Aristida hamulosa* Henrard  
*Aristida ternipes* Cavanilles var. **hamulosa** (Henrard) Trent
- ternipes** Cavanilles var. **hamulosa** (Henrard) Trent = *Aristida ternipes* Cavanilles var. **gentilis** (Henrard) Allred
- ternipes** Cavanilles var. **minor** (Vasey) Hitchcock = *Aristida ternipes* Cavanilles var. **ternipes**
- ternipes** Cavanilles var. **ternipes** [Allred 2005; M&H]  
spidergrass  
*Aristida divergens* Vasey  
*Aristida ternipes* Cavanilles var. **minor** (Vasey) Hitchcock  
**vaseyi** Wooton & Standley = *Aristida purpurea* Nuttall var. **nealleyi** (Vasey) Allred  
**wrightii** Nash = *Aristida purpurea* Nuttall var. **wrightii** Nash
- Arrhenatherum** oatgrass  
**\*elatius** (Linnaeus) Beauvois ex J. & C. Presl [Allred 2005; M&H]  
*Avena elatior* Linnaeus
- Arundo** giant reed  
Felger, R.S. & F.S. Molina. 2019. Giant reed in the Yoeme world of Sonora and Arizona. The Plant Press, Arizona Native Plant Society, Winter 2019: 11-15.  
Hardion, L., R. Verlaque, A. Baumel, M. Juin & B. Vila. 2012. Revised systematics of Mediterranean *Arundo* (Poaceae) based on AFLP fingerprints and morphology. Taxon 61(6): 1217-1226.  
Hardion, L. 2013. Evolution et systématique du genre *Arundo* L. (Poaceae), et conservation d'une endémique figure : interactions Homme/Biodiversité en Méditerranée. Thèse: Systematique, phylogenie et taxonomie. Aix-Marseille Université.  
**australis** Cavanilles s.s. = *Phragmites australis* (Cavanilles) Trinius ex Steudel subsp. **australis**  
**canadensis** Michaux = *Calamagrostis canadensis* (Michaux) Beauvois  
**\*donax** Linnaeus [Allred 2005; M&H; W&S]  
**selloana** J.A. & J.H. Schultes = *Cortaderia selloana* (J.A. & J.H. Schultes) Ascherson & Graebner

- Atheropogon curtipendulus* Fournier = *Bouteloua curtipendula* (Michaux) Torrey var.  
curtipendula  
*filiformis* Fournier = *Bouteloua repens* (Kunth) Scribner & Merrill  
*radicosus* Fournier = *Bouteloua radicata* (Fournier) Griffiths
- Avena** oats  
Baum, B.R. 1977. Oats: wild and cultivated. Biosystematics Research Institute, Canada Dept. Agr., Monography No. 14.  
Marshall, D. & S. Jain. 1968. Phenotypic plasticity of *Avena fatua* and *A. barbata*. Amer. Naturalist 102:457-467.  
Scholz, H. 1991. Die Systematik der *Avena sterilis* und *A. fatua* (Gramineae): eine kritische Studie. [The systematics of *Avena sterilis* and *A. fatua* (Gramineae): a critical study.] Willdenowia 20(1-2):103-112.  
\**barbata* Pott ex Link [Allred 2005]  
*elatiar* Linnaeus = *Arrhenatherum elatius* (Linnaeus) Beauvois ex J. & C. Presl  
\**fatua* Linnaeus [Allred 2005; M&H; W&S]  
*fatua* Linnaeus var. *sativa* (Linnaeus) Haussknecht = *Avena sativa* Linnaeus  
*hookeri* Scribner = *Helictotrichon hookeri* (Scribner) Henrard  
*mortoniana* Scribner = *Helictotrichon mortonianum* (Scribner) Henrard  
\**sativa* Linnaeus [Allred 2005; M&H]  
*Avena fatua* Linnaeus var. *sativa* (Linnaeus) Haussknecht  
*spicata* Linnaeus = *Danthonia spicata* (Linnaeus) Beauvois ex Roemer & J.A. Schultes  
*striata* Michaux = *Schizachne purpurascens* (Torrey) Swallen
- Avenula** oatgrass  
Allred, K.W. 2003. Plant distribution reports. The New Mexico Botanist 28:8. [*Helictotrichon hookeri*]  
Gervais, C. 1973. Contribution à l'étude cytologique et taxonomique des avoines vivaces (e.g. *Helictotrichon* Bess. et *Avenochloa* Holub). Denkschr. Schweiz. Naturf. Ges. 88:3-166.  
C. Romero-Zarco. 2011. *Helictochloa* Romero-Zarco (Poaceae), a new genus of oat grass. Candollea 66(1): 87-103.  
*hookeri* (Scribner) Holub [Allred 2003; Hitchcock & Chase 1951]  
*Avena hookeri* Scribner  
*Helictotrichon hookeri* (Scribner) Henrard
- Beckmannia** sloughgrass  
Koyama, T. & S. Kawano. 1964. Critical taxa of grasses with North American and eastern Asiatic distribution. Canad. J. Bot. 42:859-884.  
Reeder, J.R. 1953. Affinities of the grass genus *Beckmannia* Host. Bull. Torrey Bot. Club 80(3):187-196.  
*eruciformis* (Linnaeus) Host = *Beckmannia syzigachne* (Steudel) Fernald subsp. *baicalensis* (N.I. Kusnezow) T. Koyama & Kawano  
*eruciformis* var. *baicalensis* N.I. Kusnezow = *Beckmannia syzigachne* (Steudel) Fernald subsp. *baicalensis* (N.I. Kusnezow) T. Koyama & Kawano  
*syzigachne* (Steudel) Fernald subsp. *baicalensis* (N.I. Kusnezow) T. Koyama & Kawano [Allred 2005; M&H; W&S]  
*Beckmannia eruciformis* (Linnaeus) Host  
*Beckmannia eruciformis* var. *baicalensis* N.I. Kusnezow
- Blepharidachne** desertgrass  
Hunziker, A. & A.M. Anton. 1979. A synoptical revision of *Blepharidachne* (Poaceae). Brittonia 31:446-453.  
*bigelovii* (S. Watson) Hackel [Allred 2005]  
*Eremochloe bigelovii* S. Watson  
*Blepharoneuron* = *Muhlenbergia tricholepis* (Torrey) Columbus
- Bothriochloa** bluestem  
Allred, K.W. 1983. Systematics of the *Bothriochloa saccharoides* complex (Poaceae: Andropogoneae). Syst. Bot. 8:168-184.  
Gould, F.W. 1959. Transfers from *Andropogon* to *Bothriochloa* (Gramineae). Southw. Natural. 3:212.  
Gould, F.W. 1967. The grass genus *Andropogon* in the United States. Brittonia 19:70-76.  
Scrivanti, L.R. & A.M. Anton. 2011. Nueva combinación en *Bothriochloa* Kuntze (Poaceae). Candollea 66(1): 155-158.  
Scrivanti, L.R., G.A. Normann, & A.M. Anton. 2013. Delimiting species boundaries within the *Bothriochloa saccharoides* complex (Poaceae) through morphometric analysis. Phytotaxa 89(1): 24-42.  
Vega, A.S. 2000. Revisión taxonómica de las especies Americanas del género *Bothriochloa* (Poaceae: Panicoideae: Andropogoneae). Darwiniana 38(1-2):127-186.  
*alta* (Hitchcock) Henrard [Allred 2005]

*Andropogon altus* Hitchcock

**barbinodis** (Lagasca) Herter [Allred 2005; M&H; W&S]

cane bluestem

*Amphilophis barbinodis* (Lagasca) Nash

*Andropogon barbinodis* Lagasca

*Andropogon perforatus* Fournier

*Andropogon saccharoides* Swartz var. *barbinodis* (Lagasca) Hackel

\***bladhii** (Retzius) S.T. Blake [Allred 2005]

Australian bluestem

*Andropogon bladhii* Retzius

*Bothriochloa caucasica* (Trinius) C.E. Hubbard

*Bothriochloa intermedia* (R. Brown) A. Camus

*caucasica* (Trinius) C.E. Hubbard = *Bothriochloa bladhii* (Retzius) S.T. Blake

*intermedia* (R. Brown) A. Camus = *Bothriochloa bladhii* (Retzius) S.T. Blake

\***ischaemum** (Linnaeus) Keng [Allred 2005]

yellow bluestem

*Amphilophis ischaemum* (Linnaeus) Nash

*Andropogon ischaemum* Linnaeus

*Andropogon ischaemum* Linnaeus var. *songaricus* Ruprecht ex Fischer & C.A. Meyer

*Bothriochloa ischaemum* (Linnaeus) Keng var. *songarica* (Ruprecht ex Fischer & Meyer) Celerier & Harlan

*ischaemum* (Linnaeus) Keng var. *songarica* (Ruprecht ex Fischer & Meyer) Celerier & Harlan = *Bothriochloa ischaemum* (Linnaeus) Keng

*laguroides* (A.P. de Candolle) Herter subsp. *torreyana* (Steudel) Allred & Gould = *Bothriochloa torreyana* (Steudel) Scrivanti & Anton

*reevesii* (Gould) Gould : Reported for NM by Vega (2000), from Guadalupe Co., but the specimen cited ([Arsène & Benedict 16669](#), MO) is *Bothriochloa springfieldii* (Gould) Parodi.

*saccharoides* (Swartz) Rydberg subsp. *americana* Scrivanti = *Bothriochloa torreyana* (Steudel) Scrivanti

**springfieldii** (Gould) Parodi [Allred 2005]

*Andropogon springfieldii* Gould

**torreyana** (Steudel) Scrivanti & Anton [Allred 2005; M&H; W&S]

silver bluestem

*Amphilophis saccharoides* auctores non (Swartz) Nash

*Andropogon saccharoides* auctores non Swartz Note: The true *Andropogon saccharoides* Swartz is native to the West Indies.

*Andropogon torreyanus* Steudel

*Bothriochloa laguroides* (A.P. de Candolle) Herter subsp. *torreyana* (Steudel) Allred & Gould

*Bothriochloa saccharoides* (Swartz) Rydberg subsp. *americana* Scrivanti

**wrightii** (Hackel) Henrard [Allred 2005; M&H; W&S]

*Amphilophis wrightii* (Hackel) Nash

*Andropogon wrightii* Hackel

## **Bouteloua** grama

Columbus, J.T. 1993. The affinities of *Bouteloua aristidoides* and *B. (Chondrosium) eriopoda* and the *Bouteloua-Chondrosium* generic delimitation problem (Gramineae: Cynodonteae). *Amer. J. Bot.* 80(suppl.):138.

Columbus, J.T. 1999. An expanded circumscription of *Bouteloua* (Gramineae: Chloridoideae): new combinations and names. *Aliso* 18(1):61-65.

Columbus, J.T. 1999. Morphology and leaf blade anatomy suggest a close relationship between *Bouteloua aristidoides* and *B. (Chondrosium) eriopoda* (Gramineae: Chloridoideae). *Syst. Bot.* 23(4):467-478.

Esparza-Sandoval, S. & Y. Herrera-Arrieta. 1996. Revision de *Bouteloua barbata* Lagasca (Poaceae: Eragrostideae). *Phytologia* 80(2):73-91.

Gould, F.W. 1979. The genus *Bouteloua*. *Ann. Missouri Bot. Gard.* 66:348-416.

Griffiths, D. 1912. The grama grasses: *Bouteloua* and related genera. *Contr. U.S. Natl. Herb.* 14(3):343-428.

Kartesz, J.T. & K.N. Gandhi. 1990. Nomenclatural notes for the North American flora. IV. *Phytologia* 69(4):301-312. [*Bouteloua gracilis*]

- Reeder, J.R. 1986. Type specimen of *Bouteloua ramosa* Scribner ex Vasey (Gramineae). Taxon 35(1):149-153.
- Reeder, J.R. & C.G. Reeder. 1980. Systematics of *Bouteloua breviseta* and *B. ramosa* (Gramineae). Syst. Bot. 5(3):312-321.
- Reeder, J.R. & C.G. Reeder. 1990. *Bouteloua eludens*: elusive indeed, but not rare. Desert Plants 10(1):19-22,31.
- Strahan, R. 2007. Plant distribution reports [*Bouteloua rigidiseta*]. The New Mexico Botanist 37:7.
- aristidoides** (Kunth) Grisebach var. **aristidoides** [Allred 2005; M&H; W&S]  
 needle grama  
*Bouteloua gracilis* Vasey  
*Dinebra aristidoides* Kunth
- aristidoides** (Kunth) Grisebach var. **arizonica** Jones [Allred 2005]  
 needle grama
- barbata** Lagasca var. **barbata** [Allred 2005; M&H; W&S]  
 sixweeks grama  
*Chondrosium barbatum* (Lagasca) W.D. Clayton
- barbata** Lagasca var. **rothrockii** (Vasey) Gould [Allred 2005]  
*Bouteloua rothrockii* Vasey
- breviseta** Vasey [Allred 2005; M&H; W&S]  
 gyp grama  
*Chondrosium brevisetum* (Vasey) Clayton
- chondrosioides (Kunth) Bentham ex S. Watson : Reported by M&H, but no validating specimens located [Allred 2005; T. Columbus, pers. comm.].
- curtipendula** (Michaux) Torrey in Marcy var. **caespitosa** Gould & Kapadia [Allred 2005]  
 sideoats grama
- curtipendula** (Michaux) Torrey var. **curtipendula** [Allred 2005; M&H; W&S]  
 sideoats grama  
*Atheropogon curtipendulus* Fournier
- dactyloides** (Nuttall) J.T. Columbus [Allred 2005; M&H; W&S]  
 buffalograss  
*Buchloe dactyloides* (Nuttall) Engelmann  
*Bulbilis dactyloides* (Nuttall) Rafinesque  
*Sesleria dactyloides* Nuttall
- eludens** Griffiths [Allred 2005]
- eripoda** (Torrey) Torrey [Allred 2005; M&H; W&S]  
 black grama  
*Chondrosium eripodum* Torrey
- filiformis* (Fournier) Griffiths = *Bouteloua repens* (Kunth) Scribner & Merrill
- gracilis** (Willdenow ex Kunth) Lagasca ex Griffiths [Allred 2005; M&H; W&S]  
 blue grama  
 “*Bouteloua gracilis*” Lagasca nom. nud.  
*Bouteloua oligostachya* (Nuttall) Torrey ex A. Gray  
*Chondrosium gracile* Willdenow ex Kunth
- gracilis* Vasey (not Willdenow ex Kunth) = *Bouteloua aristidoides* (Kunth) Grisebach var. aristidoides
- hirsuta** Lagasca [Allred 2005; M&H; W&S]  
 hairy grama  
*Chondrosium foenum* Torrey  
*Chondrosium hirsutum* (Lagasca) Kunth
- oligostachya* (Nuttall) Torrey ex A. Gray = *Bouteloua gracilis* (Willdenow ex Kunth) Lagasca ex Griffiths
- parryi** (Fournier) Griffiths [Allred 2005; M&H; W&S]  
*Chondrosium parryi* Fournier
- procumbens* (Durand) Griffiths = *Bouteloua simplex* Lagasca
- radicosa** (Fournier) Griffiths [Allred 2005; M&H; W&S]  
*Atheropogon radicosus* Fournier

*ramosa* Vasey : Reported by M&H, but no validating specimens located [Allred 2005; Reeder & Reeder 1980].

***repens*** (Kunth) Scribner & Merrill [Allred 2005; M&H]

*Atheropogon filiformis* Fournier

*Bouteloua filiformis* (Fournier) Griffiths

*Dinebra repens* Kunth

***rigidiset*** (Steudel) A.S. Hitchcock [Strahan 2007]

*Aegopogon rigidisetus* Steudel

*rothrockii* Vasey = *Bouteloua barbata* Lagasca var. *rothrockii* (Vasey) Gould

***simplex*** Lagasca [Allred 2005; M&H; M&H; W&S]

mat grama

*Bouteloua procumbens* (Durand) Griffiths

*Chondrosium simplex* (Lagasca) Kunth

***trifida*** Thurber ex S. Watson [Allred 2005; M&H]

*Bouteloua trifida* Thurber ex S. Watson var. *burkii* (Scribner ex S. Watson)

Vasey ex L.H. Dewey

*Chondrosium trifidum* (Thurber ex S. Watson) Clayton

*trifida* Thurber ex S. Watson var. *burkii* (Scribner ex S. Watson) Vasey ex L.H. Dewey =

*Bouteloua trifida* Thurber ex S. Watson

***warnockii*** Gould & Kapadia [Allred 2005; M&H]

*Brachiaria arizonica* (Scribner & Merrill) S.T. Blake = *Urochloa arizonica* (Scribner & Merrill) Morrone & Zuloaga

*ciliatissima* (Buckley) Chase = *Urochloa ciliatissima* (Buckley) R.D. Webster

*fasciculata* (Swartz) Parodi = *Urochloa fusca* (Swartz) Hansen & Wunderlin

*texana* (Buckley) S.T. Blake = *Urochloa texana* (Buckley) R.D. Webster

***Briza*** quaking grass

Allred, K.W. 2004. Plant distribution reports. The New Mexico Botanist 29:7. [*Briza maxima*]

Forbes, A. 1998. New plant distribution records. The New Mexico Botanist 8:10. [*Briza minor*]

\****maxima*** Linnaeus [Allred 2004]

\****minor*** Linnaeus [Forbes 1998]

*Brizopyrum obtusiflorum* Fournier = *Kalinia obtusiflora* (Fournier) H.L. Bell & Columbus

*Bromopsis anomala* (Ruprecht ex Fournier) Holub = *Bromus anomala* Ruprecht ex Fournier

*ciliatus* (Linnaeus) Holub = *Bromus ciliatus* Linnaeus

*frondosa* (Shear) Holub = *Bromus frondosus* Shear

*inermis* (Leysser) Holub = *Bromus inermis* Leysser

*lanatipes* (Shear) Holub = *Bromus lanatipes* Shear

*porteri* (Coulter) Holub = *Bromus porteri* Coulter

*pumpellianus* (Scribner) Holub = *Bromus pumpellianus* Scribner

*richardsonii* (Link) Holub = *Bromus richardsonii*

***Bromus*** brome

Allred, K.W. 1993. *Bromus*, section *Pnigma*, in New Mexico, with a key to the bromegrasses of the state. *Phytologia* 74:319-345.

Barkworth, M.E., L.K. Anderston, J. McGrew, & D.E. Giblin. 2006. Geography and morphology of the *Bromus carinatus* (Poaceae: Bromeae) complex. *Madroño* 53(3):233-243.

Elliott, F.C. 1949. *Bromus inermis* and *B. pumpellianus* in North America. *Evolution* 3:142-149.

Gill, G.S. & S.A. Carstairs. 1988. Morphological, cytological and ecological discrimination of *Bromus rigidus* from *Bromus diandrus*. *Weed Research* 28:399-405.

Hatch, S.L. 1977. New grass distribution records for New Mexico and the United States. *Great Basin Naturalist* 37(4):530-531. [*Bromus diandrus*, *Bromus mollis*]

Kon, K.R. & W.M. Blacklow. 1989. The biology of Australian weeds 19. *Bromus diandrus* Roth and *B. rigidus* Roth. *Plant Protection Quarterly* 4(2):51-59.

Legler, B.S. 2010. Additions to the vascular flora of New Mexico. *J. Bot. Res. Inst. Texas* 4(2):777-784. [*Bromus squarrosus*]

Pavlick, L. 1995. *Bromus* L. of North America. Royal British Columbia Museum.

Pavlick, L. & L.K. Anderson. 2007. *Bromus*, pp. 193-237. IN: *Flora of North America*, vol. 24. Oxford University Press.

Peterson, P.M., J. Cayouette, Y.S.N. Fernandez, B. Coulman, & R.E. Chapman. 2001. Recognition of *Bromus richardsonii* and *B. ciliatus*: Evidence from morphology, cytology, and DNA fingerprinting (Poaceae: Bromeae). *Aliso* 20(1):21-36.

Peterson, R. 1997. New plant distribution records. The New Mexico Botanist 6:8. [*Bromus sterilis*]

Pinto-Escobar, P. 1976. Nota sobre el ejemplar tipo de "*Bromus catharticus*" Vahl. *Caldasia* 11(54):9-16.

Sales, F. 1993. Taxonomy and nomenclature of *Bromus* sect. *Genea*. *Edinburgh J. Botany* 50(1):1-31.



- Saarela, J.M. 2008. Taxonomy of *Bromus* (Poaceae: Pooideae: Bromeae) sections *Bromopsis*, *Bromus*, and *Genea* in British Columbia, Canada. J. Bot. Res. Inst. Texas 2(1): 323–372.
- Saarela, J.M., P.M. Peterson, & J. Valdes-Reyna. 2014. A taxonomic revision of *Bromus* (Poaceae: Pooideae: Bromeae) in Mexico and Central America. Phytotaxa 185(1):1-147.
- Soderstrom, T.R. & J.H. Beaman. 1968. The genus *Bromus* (Gramineae) in Mexico and Central America. Publ. Mus. Mich. St. Univ., Biol. Ser. 3(5):465-520.
- Wagnon, H.K. 1952. A revision of the genus *Bromus*, section *Bromopsis*, of North America. Brittonia 7:415-480.

***anomalous*** Ruprecht ex Fournier [Allred 2005; M&H]

*Bromopsis anomala* (Ruprecht ex Fournier) Holub

*anomalous* var. *lanatipes* (Shear) Hitchcock = *Bromus lanatipes* (Shear) Rydberg  
arenarius Labillardiere : Reported by Pavlick & Anderton (2007), but the specimen in question (Wynhoff X-2, ASU) belongs to *Bromus japonicus* Houttuyn.

*arizonicus* (Shear) Stebbins = *Bromus carinatus* Hooker & Arnott

*arvensis* Linnaeus var. *japonicus* (Houttuyn) Fiori = *Bromus squarrosus* Linnaeus

\****briziformis*** Fischer & Meyer [Allred 2005]

*canadensis* Michaux = *Bromus ciliatus* Linnaeus

***carinatus*** Hooker & Arnott [Allred 2005; M&H; W&S]

*Bromus arizonicus* (Shear) Stebbins

*Bromus carinatus* Hooker & Arnott var. *arizonicus* Shear

*Bromus carinatus* Hooker & Arnott var. *californicus* Shear

*Bromus carinatus* Hooker & Arnott var. *marginatus* (Nees) Barkworth & Anderton

*Bromus marginatus* Nees ex Steudel

*Bromus marginatus* Nees ex Steudel var. *seminudus* Shear

*Bromus polyanthus* Scribner

*Bromus polyanthus* Scribner var. *paniculatus* Shear

*Bromus sitchensis* Trinius var. *carinatus* (Hooker & Arnott) Brainerd & Otting

*Bromus sitchensis* Trinius var. *polyanthus* (Scribner) Brainerd & Otting

*Ceratochloa carinata* (Hooker & Arnott) Tutin

*Ceratochloa marginata* (Nees ex Steudel) B.D. Jackson

*Ceratochloa polyantha* (Scribner) Tzvelev

*carinatus* Hooker & Arnott var. *arizonicus* Shear = *Bromus carinatus* Hooker & Arnott

*carinatus* Hooker & Arnott var. *californicus* Shear = *Bromus carinatus* Hooker & Arnott

*carinatus* Hooker & Arnott var. *marginatus* (Nees) Barkworth & Anderton = *Bromus carinatus* Hooker & Arnott

\****catharticus*** Vahl [Allred 2005; M&H; W&S]

rescuegrass

*Bromus unioloides* Kunth

*Bromus willdenovii* Kunth

*Ceratochloa cathartica* (Vahl) Herter

***ciliatus*** Linnaeus [Allred 2005; M&H; M&H; W&S]

fringed brome

*Bromopsis ciliata* (Linnaeus) Holub

*Bromus canadensis* Michaux

*commutatus* Schrader = *Bromus squarrosus* Linnaeus

*cristatus* Linnaeus = *Agropyron cristatum* (Linnaeus) Gaertner

\****diandrus*** Roth [Allred 2005; Hatch 1977]

ripgut brome

*Anisantha diandra* (Roth) Tutin

*Anisantha rigida* (Roth) Hylander

*Bromus diandrus* Roth var. *rigidus* (Roth) Sales

*Bromus rigidus* Roth

*diandrus* Roth var. *rigidus* (Roth) Sales = *Bromus diandrus* Roth

***frondosus*** (Shear) Wootton & Standley [Allred 2005; M&H; W&S]

*Bromopsis frondosa* (Shear) Holub

*Bromus porteri* (Coulter) Nash var. *frondosus* Shear

*hordeaceus* Linnaeus var. *glabrescens* (Coss.) Shear = *Bromus squarrosus* Linnaeus

\**hordeaceus* Linnaeus = *Bromus squarrosus* Linnaeus

- hordeaceus* Linnaeus subsp. *molliformis* (Lloyd) Maire & Weiller = *Bromus squarrosus* Linnaeus
- \**inermis* Leysser [Allred 2005; M&H; W&S]  
smooth brome  
*Bromopsis inermis* (Leysser) Holub  
*inermis* Leysser var. *purpurascens* (Hooker) Wagnon = *Bromus pumpellianus* Scribner
- \**japonicus* Houttuyn = *Bromus squarrosus* Linnaeus  
*japonicus* Houttuyn var. *porrectus* Hackel = *Bromus squarrosus* Linnaeus  
*kalmii* Gray var. *porteri* Coulter = *Bromus porteri* (Coulter) Nash
- lanatipes*** (Shear) Rydberg [Allred 2005; M&H; W&S]  
*Bromopsis lanatipes* (Shear) Holub  
*Bromus anomalus* Ruprecht ex Fournier var. *lanatipes* (Shear) Hitchcock  
*Bromus porteri* (Coulter) Nash var. *lanatipes* Shear
- \****madritensis*** Linnaeus [Allred 2005; Hatch 1977; M&H]  
*Anisantha rubens* (Linnaeus) Nevski  
*Bromus madritensis* Linnaeus subsp. *rubens* (Linnaeus) Husnot  
*Bromus rubens* Linnaeus
- madritensis* Linnaeus subsp. *rubens* (Linnaeus) Husnot = *Bromus madritensis* Linnaeus  
*marginatus* Nees ex Steudel = *Bromus carinatus* Hooker & Arnott  
*marginatus* Nees ex Steudel var. *seminudus* Shear = *Bromus carinatus* Hooker & Arnott  
*molliformis* Lloyd = *Bromus squarrosus* Linnaeus  
*mollis* Linnaeus = *Bromus squarrosus* Linnaeus  
*microglumis* Wagnon = *Bromus richardsonii* Link  
*polyanthus* Scribner = *Bromus carinatus* Hooker & Arnott  
*polyanthus* Scribner var. *paniculatus* Shear = *Bromus carinatus* Hooker & Arnott
- porteri*** (Coulter) Nash [Allred 2005; W&S]  
*Bromus kalmii* Gray var. *porteri* Coulter  
*Bromopsis porteri* (Coulter) Holub  
*porteri* (Coulter) Nash var. *frondosus* Shear = *Bromus frondosus* (Shear) Wootton & Standley  
*porteri* var. *lanatipes* Shear = *Bromus lanatipes* (Shear) Rydberg
- pumpellianus*** Scribner [Allred 2005]  
*Bromopsis pumpellianus* (Scribner) Holub  
*Bromus inermis* Leysser var. *purpurascens* (Hooker) Wagnon
- purgans* Linnaeus : Reported by M&H, but no validating specimens located [Allred 2005].
- \**racemosus* Linnaeus = *Bromus squarrosus* Linnaeus
- richardsonii*** Link [Pavlick & Anderton 2007]  
*Bromopsis microglumis* (Wagnon) Holub  
*Bromus microglumis* Wagnon
- rigidus* Roth = *Bromus diandrus* Roth  
*rubens* Linnaeus = *Bromus madritensis* Linnaeus subsp. *rubens* (Linnaeus) Husnot
- \**secalinus* Linnaeus = *Bromus squarrosus* Linnaeus  
*sitchensis* Trinius var. *carinatus* (Hooker & Arnott) Brainerd & Otting = *Bromus carinatus* Hooker & Arnott  
*sitchensis* Trinius var. *polyanthus* (Scribner) Brainerd & Otting = *Bromus carinatus* Hooker & Arnott
- \****squarrosus*** Linnaeus [Allred 2005; M&H; W&S]  
*Bromus arvensis* Linnaeus var. *japonicus* (Houttuyn) Fiori  
*Bromus commutatus* Schrader  
*Bromus hordeaceus* Linnaeus  
*Bromus hordeaceus* Linnaeus var. *glabrescens* (Coss.) Shear  
*Bromus hordeaceus* Linnaeus subsp. *molliformis* (Lloyd) Maire & Weiller  
*Bromus japonicus* Houttuyn  
*Bromus japonicus* Houttuyn var. *porrectus* Hackel  
*Bromus mollis* Linnaeus  
*Bromus molliformis* Lloyd  
*Bromus racemosus* Linnaeus  
*Bromus secalinus* Linnaeus
- \****sterilis*** Linnaeus [Allred 2005; Peterson 1997; M&H]

*Anisantha sterilis* (Linnaeus) Nevski

\***tectorum** Linnaeus [Allred 2005; M&H]

cheatgrass

*Anisantha tectorum* (Linnaeus) Nevski

trinii Desvaux : Reported as expected by M&H; awaits verification.

*unioloides* Kunth = *Bromus catharticus* Vahl

*willdenovii* Kunth = *Bromus catharticus* Vahl

*Buchloe dactyloides* (Nuttall) Engelman = *Bouteloua dactyloides* (Nuttall) J.T. Columbus

*Bulbilis dactyloides* (Nuttall) Rafinesque = *Bouteloua dactyloides* (Nuttall) J.T. Columbus

**Calamagrostis** reedgrass

Greene, C.W. 1984. Sexual and apomictic reproduction in *Calamagrostis* (Gramineae) from eastern North America. *Amer. J. Bot.* 71:285-293.

Kawano, S. 1965. *Calamagrostis purpurascens* R. Brown and its identity. *Acta Phytotax. Geobot.* 21:73-89.

Nygren, A. 1954. Investigations on North American *Calamagrostis*. I. *Hereditas* 40:377-397.

Nygren, A. 1958. Investigations on North American *Calamagrostis*. II. *Lantbrukshogskolans Ann.* 24:363-368.

Peterson, P.M., R.J. Soreng, K. Romaschenko, P. Barbera, A. Quintanar, & C. Aedo. 2019. New combinations and new names in American *Cinnagrostis*, *Peyritchia*, and *Deschampsia*, and three new genera: *Greeneochloa*, *Laegaardia*, and *Paramochloa* (Poeae, Poaceae). *Phytoneuron* 2019-39: 1-23.

\**acutiflora* (Schrad.) A.P. de Candolle : known only in cultivation in New Mexico.

*andina* Nuttall = *Muhlenbergia andina* (Nuttall) A.S. Hitchcock

**canadensis** (Michaux) Beauvois [Allred 2005; M&H; W&S]

*Arundo canadensis* Michaux

*Calamagrostis scribneri* Beal

*gigantea* Nuttall = *Sporobolus arenicola* P.M. Peterson

*hyperborea* var. *americana* (Vasey) Kearney = *Calamagrostis stricta* (Timm) Koeler subsp.

*inexpansa* (Gray) C.W. Greene

*inexpansa* Gray = *Calamagrostis stricta* (Timm) Koeler subsp. *inexpansa* (Gray) C.W. Greene

*longifolia* Hooker = *Sporobolus rigidus* (Buckley) P.M. Peterson

*neglecta* of numerous authors = *Calamagrostis stricta* (Timm) Koeler subsp. *inexpansa* (Gray) C.W. Greene

**purpurascens** R. Brown var. **purpurascens** [Allred 2005; M&H]

**scopulorum** M.E. Jones [Allred 2005; M&H]

*scribneri* Beal = *Calamagrostis canadensis* (Michaux) Beauvois

**stricta** (Timm) Koeler subsp. **inexpansa** (Gray) C.W. Greene [Allred 2005; M&H; W&S]

*Calamagrostis hyperborea* Lange var. *americana* (Vasey) Kearney

*Calamagrostis inexpansa* Gray

*Calamagrostis neglecta* of numerous authors

*tenuifolia* Kunth = *Muhlenbergia tenuifolia* (Kunth) Trinius

*Calamovilfa gigantea* (Nuttall) Scribner & Merrill = *Sporobolus arenicola* P.M. Peterson

*longifolia* (Hooker) Scribner = *Sporobolus rigidus* (Buckley) P.M. Peterson

*Calycodon montanum* Nuttall = *Muhlenbergia montana* (Nuttall) A.S. Hitchcock

*Capriola dactylon* (Linnaeus) Kuntze = *Cynodon dactylon* (Linnaeus) Persoon

**Catabrosa** brookgrass

**aquatica** (Linnaeus) Beauvois var. **aquatica** [Allred 2005]

*Aira aquatica* Linnaeus

*Catabrosa aquatica* (Linnaeus) Beauvois var. *uniflora* S.F. Gray

*aquatica* (Linnaeus) Beauvois var. *uniflora* S.F. Gray = *Catabrosa aquatica* (Linnaeus) Beauvois var. *aquatica*

**Catapodium** rigid-fescue

Allred, K.W. 1998. New plant distribution records. *The New Mexico Botanist* 8:10. [*Catapodium rigidum*]

Soreng, R.J., P.M. Peterson, K. Romaschenko, G. Davidse, F.O. Zuloaga, E.J. Judziewicz, T.S. Filgueiras,

J.I. Davis, O. Morrone. 2015. A worldwide phylogenetic classification of the Poaceae

(Gramineae). *J. Syst. Evol.* 53(2):117-137.

\***rigidum** (Linnaeus) C.E. Hubbard ex Dony [Allred 1998]

*Desmazeria rigida* (Linnaeus) Tutin

*Poa rigida* Linnaeus

*Scleropoa rigida* (Linnaeus) Grisebach

*Cathestecum erectum* Vasey & Hackel : Reported as expected by M&H; awaits verification.

**Cenchrus** sandbur

DeLisle, D.G. 1963. Taxonomy and distribution of the genus *Cenchrus*. Iowa State Coll. J. Sci. 37:259-351.  
 Chemisquy, M.A., L.M. Giussani, M.A. Scataglini, E.A. Kellogg, & O. Morrone. 2010. Phylogenetic studies favour the unification of *Pennisetum*, *Cenchrus* and *Odontelytrum* (Poaceae): a combined nuclear, plastid and morphological analysis, and nomenclatural combinations in *Cenchrus*. Ann. Bot. 106:107-130.

*carolinianus* Walter = *Cenchrus longispinus* (Hackel) Fernald

*ciliaris* Linnaeus = *Pennisetum ciliare* (Linnaeus) Link

\**echinatus* Linnaeus [Allred 2005; M&H]

*echinatus* Linnaeus forma *longispinus* Hackel = *Cenchrus longispinus* (Hackel) Fernald

*granularis* Linnaeus = *Mnesithea granularis* (Linnaeus) de Koning & Sosef

*incertus* M.A. Curtis = *Cenchrus spinifex* Cavanilles

*longisetus* M.C. Johnston = *Pennisetum villosum* R. Brown ex Fresenius

***longispinus*** (Hackel) Fernald [Allred 2005; W&S]

*Cenchrus carolinianus* Walter

*Cenchrus echinatus* Linnaeus forma *longispinus* Hackel

*Cenchrus pauciflorus* Benthham in part

*parviflorus* Poiret = *Cenchrus parviflora* (Poiret) Kerguelen

*pauciflorus* Benthham = *Cenchrus spinifex* Cavanilles and *Cenchrus longispinus* (Hackel) Fernald

*racemosus* Linnaeus = *Tragus racemosus* (Linnaeus) Allioni

*setaceus* (Forsskål) Morrone = *Pennisetum setaceum* (Forsskål) Chiovenda

***spinifex*** Cavanilles [Allred 2005; M&H]

*Cenchrus incertus* M.A. Curtis

*Cenchrus pauciflorus* Benthham in part

*Ceratochloa carinata* (Hooker & Arnott) Tutin = *Bromus carinatus* Hooker & Arnott

*cathartica* (Vahl) Herter = *Bromus catharticus* Vahl

*marginata* (Nees ex Steudel) B.D. Jackson = *Bromus carinatus* Hooker & Arnott

*polyantha* (Scribner) Tzvelev = *Bromus carinatus* Hooker & Arnott

*Chasmanthium latifolium* (Michaux) Yates : A single specimen supposedly from NM was seen by Yates (1966); this is clearly an error in the label information.

*Chaetochloa composita* (Kunth) Scribner = *Setaria macrostachya* Kunth

*glauca* auctores = *Setaria pumila* (Poiret) R & S

*grisebachii* ampla Scribner & Merrill = *Setaria grisebachii* Fournier

*italica* (Linnaeus) Scribner = *Setaria italica* (Linnaeus) Beauvois

*leucopila* Scribner & Merrill = *Setaria leucopila* (Scribner & Merrill) K. Schumann

*viridis* (Linnaeus) Scribner = *Setaria viridis* (Linnaeus) Beauvois

**Chloris** windmillgrass

Allred, K.W. 1996. New plant distribution records. The New Mexico Botanist 4:6. [*Chloris submutica*]

Anderson, D.E. 1974. Taxonomy of the genus *Chloris* (Gramineae). Brigham Young Univ. Sci. Bull. Biol. Ser. 19(2):1-133.

Barkworth, M.E. 2003. *Chloris*, pp. 204-218. IN: Flora of North America, vol. 25. Oxford University Press.

Hilu, K.W. & L.A. Alice. 2001. A phylogeny of the Chloridoideae (Poaceae) based on *matK* sequences. Syst. Bot. 26:386-405.

*alba* Presl var. *aristulata* Torrey = *Chloris subdolichostachya* C. Mueller

*brevispica* Nash = *Chloris subdolichostachya* C. Mueller

*crinita* Lagasca = *Leptochloa crinita* (Lagasca) P.M. Peterson & N. Snow

***cucullata*** Bischoff [Allred 2005; M&H; W&S]

*divaricata* R. Brown : Reported from Eddy County by Barkworth (2003), but validating specimen yet to be found.

*dubia* Kunth = *Disakispermum dubium* (Kunth) P.M. Peterson & N. Snow

*elegans* Kunth = *Chloris virgata* Swartz

**“subdolichostachya”** C. Mueller [Allred 2005; M&H; W&S] Note : Plants referred to this species are most likely the result of hybridization among *Chloris cucullata*, *Chloris verticillata*, and *C. andropogonoides*; recognition as a valid species is problematic.

*Chloris alba* Presl var. *aristulata* Torrey

*Chloris brevispica* Nash

\**submutica* Kunth [Anderson 1974; Allred 2005, 1996]

*verticillata* Nuttall [Allred 2005; M&H; W&S]

\**virgata* Swartz [Allred 2005; M&H; W&S]

*Chloris elegans* Kunth

- Chondrosium barbatum* (Lagasca) W.D. Clayton = *Bouteloua barbata* Lagasca  
*brevisetum* (Vasey) Clayton = *Bouteloua breviseta* Vasey  
*eriopodum* Torrey = *Bouteloua eriopoda* (Torrey) Torrey  
*gracilie* Willdenow ex Kunth = *Bouteloua gracilis* (Willdenow ex Kunth) Lagasca ex Griffiths  
*foenum* Torrey = *Bouteloua hirsuta* Lagasca  
*hirsutum* (Lagasca) Kunth = *Bouteloua hirsuta* Lagasca  
*parryi* Fournier = *Bouteloua parryi* (Fournier) Griffiths  
*simplex* (Lagasca) Kunth = *Bouteloua simplex* Lagasca  
*trifidum* (Thurber ex S. Watson) Clayton = *Bouteloua trifida* Thurber ex S. Watson

**Cinna** woodreed

- Brandenburg, D.B., W.H. Blackwell, & J.W. Thieret. 1991. Revision of the genus *Cinna* (Poaceae). *Sida* 14(4):581-596.  
 Brandenburg, D.M. & J.W. Thieret. 2000. *Cinna* and *Limnodea* (Poaceae): Not congeneric. *Sida* 19:195-200.  
 Keller, C.F. 2004. Plant distribution reports. The New Mexico Botanist 29:7. [*Cinna latifolia*]

***latifolia*** (Trevisan ex Goepfing) Grisebach [Allred 2005; Brandenburg et al. 1991; Keller 2004; M&H; W&S]

*Agrostis latifolia* Trevisan ex Goepfing

- \**Coix lacryma-jobi* Linnaeus (Job's-tears) : Included by Allred (2005) only as an ornamental and not known to escape.

*Clomena peruviana* Beauvois = *Muhlenbergia peruviana* (Beauvois) Steudel

- \**Cortaderia selloana* (J.A. & J.H. Schultes) Ascherson & Graebner (pampasgrass) : Included by Allred (2005) only as an ornamental and not known to escape.

*Arundo selloana* J.A. & J.H. Schultes

*Cornucopiae perennans* Walter = *Agrostis perennans* (Walter) Tuckerman

**Cottea** Cottagrass

***pappophoroides*** Kunth [Allred 2005; M&H]

*Critesion arizonicum* (Covas) Löve = *Hordeum arizonicum* Covas

*brachyantherum* (Nevski) Barkworth & Dewey = *Hordeum brachyantherum* Nevski

*jubatatum* (Linnaeus) Nevski = *Hordeum jubatum* Linnaeus

*murinum* (Linnaeus) Löve subsp. *leporinum* (Link) Löve = *Hordeum murinum* Linnaeus subsp. *leporinum* (Link) Arcangeli

*pusillum* (Nuttall) Löve = *Hordeum pusillum* Nuttall

*Crypsis alopecuroides* (Piller & Mitterpacher) Schrader = *Sporobolus alopecuroides* (Piller & Mitterpacher) P.M. Peterson

*schoenoides* (Linnaeus) Lamarck = *Sporobolus schoenoides* (Linnaeus) P.M. Peterson

*squarrosa* Nuttall = *Munroa squarrosa* (Nuttall) Torrey

**Cynodon** Bermudagrass

Alderson, J. & W.C. Sharp. 1995. *Grass Varieties in the United States*. CRC Press, Boca Raton, Florida. 296 pp.

DeWet, J.M.J. & J.R. Harlan. 1970. Biosystematics of *Cynodon* L.C. Rich (Gramineae). *Taxon* 19:565-569.

Mitch, L.W. 1989. History and taxonomy of bermudagrass. *Proc. Calif. Weed Conference* 41:181-188.

\****dactylon*** (Linnaeus) Persoon [Allred 2005; M&H; W&S]

*Capriola dactylon* (Linnaeus) Kuntze

*Panicum dactylon* Linnaeus

**Cynosurus** dog's-tail grass

Hartman, R.L., B. Reif, B.E. Nelson, & B. Jacobs. 2006. New vascular plant records for New Mexico. *Sida* 22(2):1225-1233. [*Cynosurus echinatus*]

*aegyptius* Linnaeus = *Dactyloctenium aegyptium* (Linnaeus) Willdenow

\****echinatus*** Linnaeus [Hartman et al. 2006]

*indicus* Linnaeus = *Eleusine indica* (Linnaeus) Gaertner

**Dactylis** orchardgrass

Stebbins, G.L. & D. Zohary. 1959. Cytogenetic and evolutionary studies in the genus *Dactylis*. *Univ. Calif. Publ. Bot.* 31:1-40.

\****glomerata*** Linnaeus [Allred 2005; M&H; W&S]

**Dactyloctenium** crowfoot

\****aegyptium*** (Linnaeus) Willdenow [Allred 2005]

*Cynosurus aegyptius* Linnaeus

**Danthonia** danthonia

- Baeza-P., C.M. 1996. Los generos *Danthonia* A.P. de Candolle y *Rytidosperma* Steudel (Poaceae) en America: una revision. *Sendtnera* 3:11-93.
- Clay, K. 1983. Variation in the degree of cleistogamy within and among species of the grass *Danthonia*. *Amer. J. Bot.* 70:835-843.
- Darbyshire, S.J. 2003. "*Danthonia*," pp. 301-306. IN: *Flora of North America*, vol. 25. Oxford University Press.
- Darbyshire, S.J. & J. Cayouette. 1989. The biology of Canadian weeds. 92. *Danthonia spicata* (Linnaeus) Beauvois in Roem. & Schult. *Canad. J. Plant Sci.* 69:1217-1233.
- californica Bolander : Reported by Allred (1993), Darbyshire (2003), & M&H, but no validating specimens have ever been found; these reports refer to *Danthonia parryi* Scribner.

**intermedia** Vasey [Allred 2005; M&H]

**parryi** Scribner [Allred 2005; M&H; W&S]

**spicata** (Linnaeus) Beauvois ex Roemer & J.A. Schultes [Allred 2005; M&H; W&S]  
*Avena spicata* Linnaeus

*Dasyochloa* = Munroa

**Deschampsia** hairgrass

Kawano, S. 1963. Cytogeography and evolution of the *Deschampsia caespitosa* complex. *Can. J. Bot.* 41:719-742.

*alpicola* Rydberg = *Deschampsia caespitosa* (Linnaeus) Beauvois

**caespitosa** (Linnaeus) Beauvois [Allred 2005; M&H; W&S]

*Aira caespitosa* Linnaeus

*Deschampsia alpicola* Rydberg

\***danthonioides** (Trinius) Munro ex Bentham [Allred 2005]

*Aira danthonioides* Trinius

*Desmazeria rigida* (Linnaeus) Tutin = *Catapodium rigidum* (Linnaeus) C.E. Hubbard ex Dony

**Dichantherium** rosettegrass

Aliscioni, S.S., L.M. Giussani, F.O. Zuloaga, & E.A. Kellogg. 2003. A molecular phylogeny of *Panicum* (Poaceae: Paniceae): tests of monophyly and phylogenetic placement within the Panicoideae. *Amer. J. Bot.* 90:796-821.

Brown, W.V. & B.N. Smith. 1975. The genus *Dichantherium* (Gramineae). *Bull. Torrey Bot. Club* 102:10-13.

Clark, C.A. & F.W. Gould. 1975. Some epidermal characteristics of paleas of *Dichantherium*, *Panicum*, and *Echinochloa*. *Amer. J. Bot.* 62:743-748.

Freckmann, R.W. & M.G. Lelong. 2002. Nomenclatural changes and innovations in *Panicum* and *Dichantherium* (Poaceae: Paniceae). *Sida* 20(1):161-174.

Gould, F.W. & C.A. Clark. 1978. *Dichantherium* (Poaceae) in the United States and Canada. *Ann. Missouri Bot. Gard.* 65:1088-1132.

Spellenberg, R.W. 1975. Synthetic hybridization and taxonomy of western North American *Dichantherium*, group *Lanuginosa* (Poaceae). *Madroño* 23:134-153.

Thomas, J.R. 2015. Revision of *Dichantherium* section *Lanuginosa* (Poaceae). *Phytoneuron* 2015-50: 1-58.

Webster, R.D. 1988. Genera of the North American Paniceae (Poaceae: Panicoideae). *Syst. Bot.* 13(4):576-609.

Zuloaga, F.O., R.P. Ellis, & O. Morrone. 1993. A revision of *Panicum* subg. *Dichantherium* sect.

*Dichantherium* (Poaceae: Panicoideae: Paniceae) in Mesoamerica, the West Indies, and South America. *Ann. Missouri Bot. Gard.* 80:119-190.

**acuminatum** (Swartz) Gould & Clark var. **acuminatum** [Allred 2005; M&H]

*Panicum acuminatum* Swartz

*Panicum huachucae* Ashe var. *fasciculatum* (Torrey) F.T. Hubbard

*Panicum huachucae* Ashe var. *huachucae*

*Panicum lanuginosum* Elliott

*Panicum lanuginosum* Elliott var. *lindheimeri* (Nash) Fernald

*Panicum lindheimeri* Nash

*Panicum tennesseense* Ashe

*linearifolium* of earlier NM works = *Dichantherium perlongum* (Nash) Freckmann

**oligosanthes** (Schultes) Gould var. **scribnerianum** (Nash) Gould [Allred 2005; M&H; W&S]

*Panicum helleri* Nash

*Panicum oligosanthes* Schultes var. *helleri* (Nash) Fernald

*Panicum oligosanthes* Schultes var. *scribnerianum* (Nash) Fernald

*Panicum scribnerianum* Nash

*oliganthes* (Schultes) Gould var. *wilcoxianum* (Vasey) Gould & Clark = *Dichantherium wilcoxianum* Vasey

***perlongum*** (Nash) Freckmann [Allred 2005]

*Dichantherium linearifolium* of earlier NM works

*Panicum perlongum* Nash

***wilcoxianum*** (Vasey) Freckmann [Allred 2005; M&H]

*Dichantherium oliganthes* (Schultes) Gould var. *wilcoxianum* (Vasey) Gould & Clark

*Panicum wilcoxianum* Vasey

***Digitaria*** crabgrass

Gould, F.W. 1963. Cytotaxonomy of *Digitaria sanguinalis* and *D. adscendens*. *Brittonia* 15:241-244.

Henrard, J.T. 1950. Monograph of the genus *Digitaria*. Universitaire Pers, Leiden.

Medico, J.M.L. D.S. Tosto, G.H. Rua, Z.E. Rúgolo de Agrasar, M.A. Scatagliini, & A.S. Vega. 2017.

Phylogeny of *Digitaria* Sections *Trichachne* and *Trichophorae* (Poaceae, Panicoideae, Paniceae): A morphological and molecular Analysis. *Syst. Bot.* 42(1): 37-53.

Vega, A.S., G.H. Rua, L.T. Fabbri, Z.E. Rugolo de Agrasar. 2009. A morphology-based cladistic analysis of *Digitaria* (Poaceae, Panicoideae, Paniceae). *Syst. Bot.* 34(2): 312-323.

Webster, R.D. 1987. Taxonomy of *Digitaria* section *Digitaria* in North America (Poaceae: Paniceae). *Sida* 12(1):209-222.

Webster, R.D. & S.L. Hatch. 1981. Taxonomic relationships of Texas specimens of *Digitaria ciliaris* and *D. bicornis* (Poaceae). *Sida* 9:34-42.

Wipff, J.K. & S.L. Hatch. 1988. Nomenclatural changes in *Taeniatherum* and *Digitaria* (Poaceae). *Sida* 13(1):119-121.

*californica* (Bentham) Henrard = *Trichachne californica* (Bentham) Chase

**\**ciliaris*** (Retzius) Koeler [Allred 2005]

*Panicum ciliaris* Retzius

*cognata* (Schultes) Pilger subsp. *pubiflora* (Vasey) Wipff = *Leptoloma pubiflorum* (Vasey) Wipff & Shaw

**\**eriantha*** Steudel [Allred 2005]

**\**ischaemum*** (Schreber) Schreber ex Muhlenberg [Allred 2005]

pangolagrass

*Panicum ischaemum* Schreber

*pubiflora* (Vasey) Wipff = *Leptoloma pubiflorum* (Vasey) Wipff & Shaw

**\**sanguinalis*** (Linnaeus) Scopoli [Allred 2005; M&H; W&S]

*Panicum sanguinale* Linnaeus

*Syntherisma sanguinale* (Linnaeus) Dulac

***Dinebra*** sprangletop

Peterson, P.M., K. Romaschenko, N. Snow, and G.P. Johnson. 2012. A molecular phylogeny and classification of *Leptochloa* (Poaceae: Chloridoideae: Chlorideae) sensu lato and related genera. *Ann. Bot-London* 109: 1317–1330.

Peterson, P.M., K. Romaschenko, & Y. Herrera Arrieta. 2015. A molecular phylogeny and classification of the Eleusininae with a new genus, *Micrachne* (Poaceae: Chloridoideae: Cynodonteae). *Taxon* 64:445-467.

*aristoides* Kunth = *Bouteloua aristidoides* (Kunth) Grisebach var. *aristidoides*

*repens* Kunth = *Bouteloua repens* (Kunth) Scribner & Merrill

***panicea*** (Retzius) P.M. Peterson & N. Snow subsp. ***brachiata*** (Steudel) P.M.

Peterson & N. Snow [Allred 2005; M&H; W&S]

*Leptochloa brachiata* Steudel

*Leptochloa filiformis* (Persoon) Beauvois

*Leptochloa mucronata* of NM authors

*Leptochloa panicea* (Retzius) Ohwi subsp. *brachiata* (Steudel) N. Snow

***viscida*** (Scribner) P.M. Peterson & N. Snow [Allred 2005; M&H]

*Diplachne viscida* Scribner

*Leptochloa viscida* (Scribner) Beal

***Diplachne*** sprangletop

Peterson, P.M., K. Romaschenko, N. Snow, and G.P. Johnson. 2012. A molecular phylogeny and classification of *Leptochloa* (Poaceae: Chloridoideae: Chlorideae) sensu lato and related genera. *Ann. Bot-London* 109: 1317–1330.

Peterson, P.M., K. Romaschenko, & Y. Herrera Arrieta. 2015. A molecular phylogeny and classification of the Eleusininae with a new genus, *Micrachne* (Poaceae: Chloridoideae: Cynodonteae). *Taxon* 64:445-467.

Snow, N., P.M. Peterson, K. Romaschenko, & B.K. Simon. 2018. Monograph of *Diplachne*. PhytoKeys 93: 1-102.

*fascicularis* Lamarck = *Diplachne fusca* (Linnaeus) Beauvois ex Roemer & J.A. Schultes subsp. *fascicularis* (Lamarck) P.M. Peterson & N. Snow

***fusca*** (Linnaeus) Beauvois ex Roemer & J.A. Schultes subsp. ***fascicularis*** (Lamarck) P.M. Peterson & N. Snow [Allred 2005; M&H; W&S]

*Diplachne fascicularis* Lamarck

*Leptochloa fascicularis* (Lamarck) Gray

*Leptochloa fusca* (Linnaeus) Kunth subsp. *fascicularis* (Lamarck) N. Snow

*viscida* Scribner = *Dinebra viscida* (Scribner) P.M. Peterson & N. Snow

***fusca*** (Linnaeus) Beauvois ex Roemer & J.A. Schultes subsp. ***uninervia*** (J. Presl) P.M. Peterson & N. Snow [Allred 2005; M&H]

*Leptochloa uninervia* (J. Presl) A.S. Hitchcock & Chase

*Megastachya uninervia* J. Presl

***Disakisperma*** sprangletop

Peterson, P.M., K. Romaschenko, N. Snow, and G.P. Johnson. 2012. A molecular phylogeny and classification of *Leptochloa* (Poaceae: Chloridoideae: Chlorideae) sensu lato and related genera. Ann. Bot-London 109: 1317–1330.

Peterson, P.M., K. Romaschenko, & Y. Herrera Arrieta. 2015. A molecular phylogeny and classification of the Eleusininae with a new genus, *Micrachne* (Poaceae: Chloridoideae: Cynodontae). Taxon 64:445-467.

Snow, N, P. Peterson, K. Romaschenko. 2013. Systematics of *Disakisperma* (Poaceae, Chloridoideae, Chlorideae). PhytoKeys 26:21-70. doi: 10.3897/phytokeys.26.5649

***dubium*** (Kunth) Peterson & Snow [Allred 2005; M&H; W&S]

*Chloris dubia* Kunth

*Disakisperma mexicana* Steudel

*Leptochloa dubia* (Kunth) Nees

***Distichlis*** saltgrass

Beetle, A.A. 1943. The North American variations of *Distichlis spicata*. Bull. Torrey Bot. Club 70:638-650.

Bell, H.L. and J.T. Columbus. 2008. Proposal for an expanded *Distichlis* (Poaceae, Chloridoideae): support from molecular, morphological, and anatomical characters. Systematic Botany 33(3): 536-55.

***spicata*** (Linnaeus) Greene [Allred 2005; W&S]

*Distichlis spicata* (Linnaeus) Greene var. *stricta* (Torrey) Beetle

*Distichlis stricta* (Torrey) Rydberg

*Uniola spicata* Linnaeus

*Uniola stricta* Torrey

*spicata* (Linnaeus) Greene var. *stricta* (Torrey) Beetle = *Distichlis spicata* (Linnaeus) Greene

*stricta* (Torrey) Rydberg = *Distichlis spicata* (Linnaeus) Greene

*Eatonia intermedia* Rydberg = *Sphenopholis intermedia* (Rydberg) Rydberg

***Echinochloa*** barnyardgrass

Costea, M. & F.J. Tardif. 2002. Taxonomy of the most common weedy European *Echinochloa* species (Poaceae: Panicoideae) with special emphasis on characters of the lemma and caryopsis. Sida 20(2):525-548.

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\****colona*** (Linnaeus) Link [Allred 2005; M&H; W&S]

jungle-rice

*Panicum colonum* Linnaeus

\****crusgalli*** (Linnaeus) Beauvois [Allred 2005; M&H; W&S]

*Echinochloa crusgalli* (Linnaeus) Beauvois var. *mitis* (Pursh) Peterman

*Echinochloa crusgalli* (Linnaeus) Beauvois var. *zelayensis* (Kunth) Hitchcock

*Echinochloa zelayensis* (Kunth) Schultes

*Panicum crusgalli* Linnaeus

*crusgalli* (Linnaeus) Beauvois var. *mitis* (Pursh) Peterm. = *Echinochloa crusgalli* (Linnaeus) Beauvois

*crusgalli* (Linnaeus) Beauvois var. *zelayensis* (Kunth) Hitchcock = *Echinochloa crusgalli* (Linnaeus) Beauvois



- cruspavonis* (Kunth) Schultes var. *macera* (Wiegand) Gould [Allred 2005]  
*Echinochloa zelayensis* (Kunth) Schultes var. *macra* Wiegand  
*muricata* (Beauvois) Fernald var. *microstachya* Wiegand [Allred 2005]  
*muricata* (Beauvois) Fernald var. *muricata* [Allred 2005]  
*Setaria muricata* Beauvois  
*zelayensis* (Kunth) Schultes s.s. = *Echinochloa crusgalli* (Linnaeus) Beauvois  
*zelayensis* (Kunth) Schultes var. *macra* Wiegand = *Echinochloa cruspavonis* (Kunth)  
 Schultes var. *macera* (Wiegand) Gould

**Eleusine**

## goosegrass

- Phillips, S.M. 1972. A survey of the genus *Eleusine* Gaertner (Gramineae) in Africa. Kew Bull. 27:251-270.  
 Hilu, K.W. & J.L. Johnson. 1997. Systematics of *Eleusine* Gaertn. (Poaceae, Chloridoideae): Chloroplast DNA and total evidence. Ann. Missouri Bot. Gard. 84:841-847.

\**indica* (Linnaeus) Gaertner [Allred 2005; M&H]

*Cynosurus indicus* Linnaeus

**Elionurus**

## balsamscale

- Peterson, P.M., R.J. Soreng, & G. Davidse. 1998. (1365) Proposal to conserve the name *Elionurus* (Poaceae, Andropogoneae) with that spelling. Taxon 47(3):737-738.

*barbiculmis* Hackel [Allred 2005; M&H; W&S]

- ×*Elyhordeum macounii* (Vasey) Barkworth & Dewey : Unstabilized hybrids of *Elymus trachycaulus* × *Hordeum jubatum*. [Boyle & Holmgren 1955].  
 ×*Elymotrigia saxicola* (Scribner & Smith) Barkworth & Dewey : Unstabilized hybrids of *Elymus longifolius* × *Elymus spicatus*. [Dewey 1964].

**Elymus**

## wheatgrass, wildrye

- Aung, T. & P.D. Walton. 1990. Morphology and cytology of the reciprocal hybrids between *Elymus trachycaulus* and *Elymus canadensis*. Genome 33:123-130.  
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 Barkworth, M.E., J.J.N. Campbell, & B. Salomon. 2007. *Elymus*, p. 288-343. IN: Flora of North America, vol. 24. Oxford University Press. [*Elymus villosus*]  
 Barkworth, M.E. & D.R. Dewey. 1985. Genomically based genera in the perennial Triticeae of North America: identification and membership. Amer. J. Bot. 72:767-776.  
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 Church, G.L. 1967. Taxonomic and genetic relationships of eastern North American species of *Elymus* with setaceous glumes. Rhodora 69:121-162. [*Elymus hystrix*]  
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*alaskanus* (Scribner & Merrill) A. Löve subsp. *latiglumis* (Scribner & J.G. Smith) A. Löve  
 = *Elymus trachycaulus* (Link) Gould subsp. *violaceus* (Hornemann) A. & D. Löve  
*ambiguus* Vasey & Scribner = *Leymus ambiguus* (Vasey & Scribner) D.R. Dewey

- arizonicus** (Scribner & Smith) Gould [Allred 2005; M&H; W&S]  
*Agropyron arizonicum* Scribner & Smith  
*Agropyron spicatum* (Pursh.) Scribner & Smith var. *arizonicum* (Scribner & Smith) Jones  
*Elytrigia arizonica* (Scribner & Smith) Dewey  
*Pseudoroegneria arizonica* (Scribner & Smith) Löve
- ×**bakeri** (E. Nelson) A. Löve [Allred 2005; M&H; W&S]  
*Agropyron bakeri* E. Nelson  
*Elymus trachycaulus* (Link) Gould subsp. *bakeri* (E. Nelson) A. Löve
- brachystachyus* Scribner & Ball = *Elymus canadensis* Linnaeus  
*brevifolius* (J.G. Smith) M.E. Jones = *Elymus elymoides* (Rafinesque) Swezey subsp. *brevifolius* (J.G. Smith) Barkworth  
*canadensis* Linnaeus var. *brachystachyus* (Scribner & Ball) Farwell = *Elymus canadensis* Linnaeus  
*canadensis* Linnaeus var. *interruptus* (Buckley) Church = *Elymus interruptus* Buckley
- canadensis** Linnaeus [Allred 2005; M&H; W&S]  
 Canada wildrye  
*Elymus brachystachyus* Scribner & Ball  
*Elymus canadensis* Linnaeus var. *brachystachyus* (Scribner & Ball) Farwell  
*Elymus canadensis* Linnaeus var. *robustus* (Scribner & Smith) Mackenzie & Bush  
*Elymus robustus* Scribner & Smith  
*canadensis* Linnaeus var. *robustus* (Scribner & Smith) Mackenzie & Bush = *Elymus canadensis* Linnaeus  
*cinereus* Scribner & Merrill = *Leymus cinereus* (Scribner & Merrill) Löve  
*elongatus* (Host) Runemark = *Elymus ponticus* (Podpěra) N. Snow
- elymoides** (Rafinesque) Swezey subsp. **elymoides** [Allred 2005]  
 squirreltail  
*Sitanion elymoides* Rafinesque  
*Sitanion hystrix* (Nuttall) J. S. Smith in part
- elymoides** (Rafinesque) Swezey subsp. **brevifolius** (J.G. Smith) Barkworth [Allred 2005; M&H; W&S]  
 squirreltail  
*Elymus brevifolius* (J.G. Smith) M.E. Jones  
*Elymus longifolius* (J.G. Smith) Gould  
*Sitanion brevifolium* J.G. Smith  
*Sitanion caespitosum* J.G. Smith  
*Sitanion hystrix* (Nuttall) J.S. Smith in part  
*Sitanion longifolium* J.G. Smith  
*Sitanion molle* J.G. Smith  
*Sitanion pubiflorum* J.G. Smith  
*Sitanion rigidum* sensu W&S
- glaucus** Buckley [Allred 2005; M&H; W&S]
- \***hispidus** (Opiz) Melderis subsp. **barbulatus** (Schur) Melderis [Allred 2005]  
 pubescent wheatgrass  
*Agropyron barbulatum* Schur  
*Agropyron trichophorum* (Link) Richter  
*Elymus hispidus* (Opiz) Melderis var. *ruthenicus* (Grisebach) Dorn  
*Elytrigia trichophora* (Link) Nevski
- \***hispidus** (Opiz) Melderis subsp. **hispidus** [Allred 2005; M&H]  
 intermediate wheatgrass  
*Agropyron hispidum* Opiz  
*Agropyron intermedium* (Host) Beauvois  
*Elytrigia intermedia* (Host) Nevski  
*Thinopyron intermedium* (Host) Barkworth & Dewey
- hispidus* (Opiz) Melderis var. *ruthenicus* (Grisebach) Dorn = *Elymus hispidus* (Opiz) Melderis subsp. *barbulatus* (Schur) Melderis
- \***hystrix** Linnaeus [Campbell 2006; Church 1967] Note: This was most likely a one-time introduction that has not persisted; there are no records since that time.

## bottlebrush-grass

*Hystrix patula* Moench***interruptus*** Buckley [Allred 2005; Campbell 2002; M&H]*Elymus canadensis* Linnaeus var. *interruptus* (Buckley) Church*juncea* Fischer = *Psathyrostachys juncea* (Fischer) Nevski***lanceolatus*** (Scribner & Smith) Gould [Allred 2005; M&H]*Agropyron dasystachyum* (Hooker) Scribner [not *Elymus dasystachyus* Trinius ex Ledebour]*Agropyron dasystachyum* (Hooker) Scribner var. *riparium* (Scribner & Smith) Bowden*Agropyron lanceolatum* Scribner & Smith*Agropyron riparium* Scribner & Smith*Elymus riparius* (Scribner & Smith) Gould*Elytrigia dasystachya* (Hooker) Nevski*lanceolatus* (Scribner & Smith) Gould subsp. *lanceolatus* (Scribner & Smith) Barkworth = *Elymus lanceolatus* (Scribner & Smith) Gould*longifolius* (J.G. Smith) Gould = *Elymus elymoides* (Rafinesque) Swezey subsp. *brevifolius* (J.G. Smith) Barkworth×*macounii* Vasey : Unstabilized hybrids of *Elymus trachycaulus* × *Hordeum jubatum*. (Boyle & Holmgren 1955).×*mossii* (Lepage) Barkworth & D.R. Dewey : This hybrid taxon is reported for NM by Kartesz (1999), erroneously citing Allred (1993); not known from NM.**\**ponticus*** (Podpěra) N. Snow [Allred 2005]

## tall wheatgrass

*Agropyron elongatum* (Host) Beauvois*Elymus elongatus* (Host) Runemark*Elytrigia elongata* (Host) Nevski*Elytrigia pontica* (Podpěra) Holub*Elymus elongatus* (Host) Runemark subsp. *ponticus* (Podpěra) Melderis*Lophopyrum ponticum* (Podpěra) Löve*Thinopyrum elongatum* (Host) Barkworth & Dewey*Thinopyrum ponticum* (Podpěra) Barkworth & Dewey*Triticum elongatum* Host*Triticum ponticum* Podpěra×***pseudorepens*** (Scribner & Smith) Barkworth & Dewey [Allred 2005] Note: This name has been applied to unstabilized hybrid plants of *Elymus trachycaulus* × *Elymus lanceolatus* or *Elymus repens*.*Agropyron pseudorepens* Scribner & Smith*racemosus* Lamarck = *Leymus racemosus* (Lamarck) Tzvelev**\**repens*** (Linnaeus) Gould [Allred 2005; M&H]

## quackgrass

*Agropyron repens* (Linnaeus) Beauvois*Elytrigia repens* (Linnaeus) Nevski*Triticum repens* Linnaeus*riparius* (Scribner & Smith) Gould = *Elymus lanceolatus* (Scribner & Smith) Gould*robustus* Scribner & Smith = *Elymus canadensis* Linnaeus*salina* M.E. Jones = *Leymus salina* (M.E. Jones) A. Löve×*saundersii* Vasey : Unstabilized hybrids of *Elymus elymoides* × *Elymus trachycaulus*. [Dewey 1964].×*saxicolus* Scribner & Smith : Unstabilized hybrids of *Elymus elymoides* × *Elymus spicatus*. [Dewey 1964].***scribneri*** (Vasey) M.E. Jones [Allred 2005; M&H; W&S]*Agropyron scribneri* Vasey*simplex* Scribner & Williams = *Leymus triticoides* (Buckley) Pilger*smithii* (Rydberg) Gould = *Pascopyrum smithii* (Rydberg) Barkworth & Dewey***spicatus*** (Pursh) Gould [Allred 2005; M&H; W&S]

## bluebunch wheatgrass

*Agropyron inerme* (Scribner & Smith) Rydberg*Agropyron spicatum* (Pursh) Scribner & Smith

- Elytrigia spicata* (Pursh) Dewey  
*Festuca spicata* Pursh  
*Pseudoroegneria spicata* (Pursh) Löve  
*trachycaulus* (Link) Gould var. *andinus* (Scribner & Smith) Dorn = *Elymus trachycaulus*  
 (Link) Gould subsp. *trachycaulus*  
*trachycaulus* (Link) Gould subsp. *novae-angliae* (Scribner) Tzvelev = *Elymus trachycaulus*  
 (Link) Gould subsp. *trachycaulus*  
***trachycaulus*** (Link) Gould subsp. ***subsecundus*** (Link) A. & D. Löve [Allred 2005;  
 M&H; W&S]  
*Agropyron caninum* sensu M&H and W&S  
*Agropyron richardsonii* (Trinius) Schrader  
*Agropyron subsecundum* (Link) Hitchcock  
*Agropyron unilaterale* Cassidy  
*Triticum subsecundum* Link  
***trachycaulus*** (Link) Gould subsp. ***trachycaulus*** [Allred 2005; M&H; W&S]  
*Agropyron caninum* sensu M&H, sensu W&S  
*Agropyron novae-angliae* Scribner  
*Agropyron pauciflorum* (Schweinitz) Hitchcock  
*Agropyron tenerum* Vasey  
*Agropyron trachycaulum* (Link) Malte  
*Elymus trachycaulus* (Link) Gould var. *andinus* (Scribner & Smith) Dorn  
*Elymus trachycaulus* (Link) Gould subsp. *novae-angliae* (Scribner) Tzvelev  
*Triticum trachycaulum* Link  
***trachycaulus*** (Link) Gould subsp. ***violaceus*** (Hornemann) A. & D. Löve [Allred  
 2005; W&S]  
*Agropyron latiglume* (Scribner & Smith) Rydberg  
*Agropyron violaceum* (Hornemann) Lange  
*Elymus alaskanus* (Scribner & Merrill) A. Löve subsp. *latiglumis* (Scribner &  
 J.G. Smith) A. Löve  
*Triticum violaceum* Hornemann  
*triticoideus* Buckley = *Leymus triticoideus* (Buckley) Pilger  
*triticoideus* Buckley var. *simplex* (Scribner & Williams) Hitchcock = *Leymus triticoideus*  
 (Buckley) Pilger  
**\**villosus*** Muhlenberg ex Willdenow [Barkworth et al. 2007]  
***virginicus*** Linnaeus [Allred 2005; M&H]  
*Elymus virginicus* Linnaeus var. *glabriflorus* (Vasey) Bush  
*Elymus virginicus* Linnaeus var. *submuticus* Hooker  
*virginicus* Linnaeus var. *glabriflorus* (Vasey) Bush = *Elymus virginicus* Linnaeus  
*virginicus* Linnaeus var. *submuticus* Hooker = *Elymus virginicus* Linnaeus  
*Elyonurus* = *Elionurus*  
*Elytrigia arizonica* (Scribner & Smith) Dewey = *Elymus arizonicus* (Scribner & Smith) Gould  
*dasystachya* (Hooker) Nevski = *Elymus lanceolatus* (Scribner & Smith) Gould  
*elongata* (Host) Nevski = *Elymus ponticus* (Podpěra) N. Snow  
*intermedia* (Host) Nevski = *Elymus hispidus* (Opiz) Melderis subsp. *hispidus*  
*pontica* (Podpěra) Holub = *Elymus ponticus* (Podpěra) N. Snow  
*repens* (Linnaeus) Nevski = *Elymus repens* (Linnaeus) Gould  
*smithii* (Rydberg) Nevski = *Pascopyrum smithii* (Rydberg) Barkworth & Dewey  
*spicata* (Pursh) Dewey = *Elymus spicatus* (Pursh) Gould  
*trichophora* (Link) Nevski = *Elymus hispidus* (Opiz) Melderis subsp. *barbulatus* (Schur)  
 Melderis  
***Enneapogon*** pappusgrass  
 Chase, A. 1946. *Enneapogon desvauxii* and *Pappophorum wrightii*, an agrostological detective story.  
 Madroño 8:187-189.  
***desvauxii*** Desvaux ex Beauvois [Allred 2005; M&H; W&S]  
*Pappophorum wrightii* S. Watson  
*Epicampes rigens* Benthams = *Muhlenbergia rigens* (Benthams) Hitchcock  
*stricta* Presl = *Muhlenbergia longiligula* Hitchcock  
***Eragrostis*** lovegrass  
 Allred, K.W. 2001. New plant distribution records. The New Mexico Botanist 19:3. [*Eragrostis frankii*]

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- arida* Hitchcock = *Eragrostis pectinacea* (Michaux) Nees var. *miserrima* (Fournier) J. Reeder
- \**barrelieri* Daveau [Allred 2005; M&H]
- beyrichii* J.G. Smith = *Eragrostis secundiflora* Presl subsp. *oxylepis* (Torrey) S.D. Koch
- chloromelas* Steudel = *Eragrostis curvula* (Schrader) Nees var. *conferta* Stapf
- \**cilianensis* (Allioni) Vignolo-Lutati ex Janchen [Allred 2005; M&H; W&S]
- stinkgrass
- Eragrostis megastachya* (Koeler) Link
- Poa cilianensis* Allioni
- ciliaris* (Linnaeus) R. Brown : Reported erroneously for NM in Peterson (2003); no specimens of this species are known from the state.
- \**curtipedicellata* Buckley [Allred 2005; M&H]
- \**curvula* (Schrader) Nees var. *conferta* Stapf [Allred 2005]
- Boer lovegrass
- Eragrostis chloromelas* Steudel
- \**curvula* (Schrader) Nees var. *curvula* [Allred 2005; M&H]
- weeping lovegrass
- Poa curvula* Schrader
- diffusa* Buckley = *Eragrostis pectinacea* (Michaux) Nees var. *pectinacea*
- erosa* Scribner [Allred 2005; M&H]
- fendlerianus* Steudel = *Poa fendleriana* (Steudel) Vasey subsp. *fendleriana*
- \**frankii* C.A. Meyer ex Steudel [Allred 2001]
- hypnoides* (Lamarck) Britton, Sterns, & Poggenburg [Allred 2005; Hershey & Leyendecker 1944; M&H]
- Poa hypnoides* Lamarck
- intermedia* A.S. Hitchcock [Allred 2005; M&H]
- \**lehmanniana* Nees [Allred 2005; M&H]
- Lehmann lovegrass
- limbata* Fournier = *Eragrostis mexicana* Vasey subsp. *mexicana*
- lugens* Nees : Reported by M&H and W&S, but no validating specimens located; all specimens seen are referred to *Eragrostis intermedia* A.S. Hitchcock [Allred 2005].
- lutescens* Scribner [Allred 2005]
- megastachya* (Koeler) Link = *Eragrostis cilianensis* (Allioni) Vign. ex Janchen
- mexicana* (Hornemann) Link subsp. *mexicana* [Allred 2005; M&H; W&S]
- Eragrostis limbata* Fournier
- Eragrostis neomexicana* Vasey
- Poa mexicana* Hornemann
- minor Host : Reported by M&H (as *Eragrostis poaeoides* P. Beauvois ex Roemer & Schultes), but no validating specimens located [Allred 2005].
- Eragrostis poaeoides* Beauvois ex Roemer & Schultes
- neomexicana* Vasey = *Eragrostis mexicana* (Hornemann) Link subsp. *mexicana*
- obtusiflora* (Fournier) Scribner = *Kalinia obtusiflora* (Fournier) H.L. Bell & Columbus
- oxylepis* (Torrey) Torrey = *Eragrostis secundiflora* Presl subsp. *oxylepis* (Torrey) S.D. Koch

- palmeri** S. Watson [Allred 2005]  
**pectinacea** (Michaux) Nees var. **miserrima** (Fournier) J. Reeder [Allred 2005; M&H]  
*Eragrostis arida* Hitchcock  
*Eragrostis purshii* Schrader var. **miserrima** Fournier  
*Eragrostis tephrosanthos* Schultes
- pectinacea** (Michaux) Nees var. **pectinacea** [Allred 2005; M&H; W&S]  
*Eragrostis diffusa* Buckley  
*Eragrostis purshii* Schrader
- pilosa* (Linnaeus) Beauvois : Reported by M&H and W&S, but no validating specimens located [Allred 2005].  
*Poa pilosa* Linnaeus
- poaeoides* Beauvois ex Roemer & Schultes = *Eragrostis minor* Host  
*purshii* Schrader s.s. = *Eragrostis pectinacea* (Michaux) Nees  
*purshii* Schrader var. **miserrima** Fournier = *Eragrostis pectinacea* (Michaux) Nees var. **miserrima** (Fournier) J. Reeder
- secundiflora* Presl var. **capitata** (Fournier) Beetle = *Eragrostis secundiflora* Presl subsp. **oxylepis** (Torrey) S.D. Koch
- secundiflora** Presl subsp. **oxylepis** (Torrey) S.D. Koch [Allred 2005; W&S]  
*Eragrostis beyrichii* J.G. Smith  
*Eragrostis oxylepis* (Torrey) Torrey  
*Eragrostis secundiflora* Presl var. **capitata** (Fournier) Beetle  
*Poa oxylepis* Torrey
- sessilispica** Buckley [Allred 2005; W&S]  
*Acamptocladus sessilispicus* (Buckley) Nash
- spectabilis** (Pursh) Steudel [Allred 2005; M&H]  
*Poa spectabilis* Pursh
- \*superba** Peyritsch [Allred 2005]  
 Wilman lovegrass  
*tephrosanthos* Schultes = *Eragrostis pectinacea* (Michaux) Nees var. **miserrima** (Fournier) J. Reeder
- trichodes** (Nuttall) Wood [Allred 2005; W&S]  
*Poa trichodes* Nuttall
- Eremochloe bigelovii* S. Watson = *Blepharidachne bigelovii* (S. Watson) Hackel
- Eremopyrum** annual wheatgrass  
 Bowden, W.M. 1962. Cytotaxonomy of the native and adventive species of *Hordeum*, *Eremopyrum*, *Secale*, *Sitanion*, and *Triticum* in Canada. Can. J. Bot. 40:1675-1711.  
 Frederiksen, S. 1991. Taxonomic studies in *Eremopyrum* (Poaceae). Nordic J. Bot. 11:271-285.  
 Hatch, S.L. 1977. New grass distribution records for New Mexico and the United States. Great Basin Naturalist 37(4):530-531. [*Eremopyrum triticeum*]
- \*triticeum** (Gaertner) Nevski [Allred 2005; Hatch 1977]  
*Agropyron triticeum* Gaertner
- Erianthus ravennae* (Linnaeus) Beauvois = *Tripsidium ravennae* (Linnaeus) H. Scholz
- Eriochloa** cupgrass  
 Shaw, R.B. & R.D. Webster. 1987. The genus *Eriochloa* (Poaceae: Paniceae) in North and Central America. Sida 12:165-207.
- acuminata** (Presl) Kunth var. **acuminata** [Allred 2005; M&H]  
*Eriochloa gracilis* (Fournier) Hitchcock  
*Piptatherum acuminatum* Presl
- acuminata** (Presl) Kunth var. **minor** (Vasey) R.B. Shaw [Allred 2005; M&H; W&S]  
*Eriochloa gracilis* (Fournier) A.S. Hitchcock var. **minor** (Vasey) Hitchcock  
*Eriochloa polystachya* sensu W&S  
*Eriochloa punctata* (Linnaeus) Desvaux ex W. Hamilton var. **minor** Vasey
- contracta** A.S. Hitchcock [Allred 2005; M&H]  
*gracilis* (Fournier) Hitchcock var. **gracilis** = *Eriochloa acuminata* (Presl) Kunth var. **acuminata**  
*gracilis* (Fournier) Hitchcock var. **minor** (Vasey) Hitchcock = *Eriochloa acuminata* (Presl) Kunth var. **minor** (Vasey) R.B. Shaw
- lemmonii** Vasey & Scribner [Allred 2005]

*polystachya* sensu W&S = *Eriochloa acuminata* (Presl) Kunth var. *minor* (Vasey) R.B. Shaw

*punctata* (Linnaeus) Desvaux ex W. Hamilton var. *minor* Vasey = *Eriochloa acuminata* (Presl) Kunth var. *minor* (Vasey) R.B. Shaw

***Eriocoma*** needlegrass

Allred, K.W. & K. Heil. 2000. New plant distribution records. The New Mexico Botanist 15:7. [*Stipa arida*, *Stipa speciosa*]

Barkworth, M.E. 1993. North American Stipeae (Gramineae): Taxonomic changes and other comments. Phytologia 74(1):1-25.

Hartman, R.L., B. Reif, B.E. Nelson, & B. Jacobs. 2006. New vascular plant records for New Mexico. Sida 22(2):1225-1233. [*Achnatherum nelsonii nelsonii*]

Hatch, S.L. & D.A. Bearden. 1983. *Stipa curvifolia* (Poaceae) – Studies on a rare taxon. Sida 10(2):184-187.

Jacobs, S.W.L., R. Bayer, J. Everett, M.O. Arriaga, M.E. Barkworth, A. Sabin-Badereau, M.A. Torres, F. Vazquez, & N. Bagnall. 2006. Systematics of the tribe Stipeae using molecular data. Aliso 23:349-361.

Johnson, B.L. 1945. Natural hybrids between *Oryzopsis hymenoides* and several species of *Stipa*. Amer. J. Bot. 32:599-608.

Peterson, P.M., K. Romaschenko, R.J. Soreng, & J. Valdes Reyna. 2019. A key to the North American genera of Stipeae (Poaceae, Pooideae) with descriptions and taxonomic names for species of *Eriocoma*, *Neotrinia*, *Oloptum*, and five new genera: *Barworthia*, *×Eriosella*, *Pseudoeriocoma*, *Ptilagrostiella*, and *Thorneochloa*. PhytoKeys 126: 89-125.

Romaschenko K, P.M. Peterson, R.J. Soreng, N. Garcia-Jacas, & A. Susanna A. 2010. Phylogenetics of Stipeae (Poaceae: Pooideae) based on plastid and nuclear DNA sequences. p. 513-539. IN: O. Seberg, G. Petersen, A.S. Barfod, & J.I. Davis (eds.) Diversity, phylogeny, and evolution in the monocotyledons. Aarhus University Press, Denmar.

Romaschenko, K., P.M. Peterson, R.J. Soreng, N. Garcia-Jacas, O. Futorna, & A. Susanna. 2012. Systematics and evolution of the needle grasses (Poaceae: Pooideae: Stipeae) based on analysis of multiple chloroplast loci, ITS, and lemma micromorphology. Taxon 61(1):18-44.

***arida*** (M.E. Jones) Romaschenko [Allred & Heil 2000]

*Achnatherum aridum* (M.E. Jones) Barkworth

*Stipa arida* Jones

*Stipa mormonum* Mez

×*bloomeri* (Bolander) Romaschenko : Not definitely known from NM; to be expected in the Four Corners region

*Achnatherum ×bloomeri* (Bolander) Barkworth

*Oryzopsis bloomeri* (Bolander) Ricker

*Stipa bloomeri* Bolander

×*Stiporyzopsis bloomeri* (Bolander) B.L. Johnson

***curvifolia*** (Swallen) Romaschenko [Allred 2005; M&H]

*Achnatherum curvifolium* (Swallen) Barkworth

*Stipa curvifolia* Swallen

*cuspidata* Nuttall = *Eriocoma hymenoides* (Roemer & J.A. Schultes) Rydberg

***hymenoides*** (Roemer & J.A. Schultes) Rydberg [Allred 2005; M&H; W&S]

Indian ricegrass

*Achnatherum hymenoides* (Roemer & J.A. Schultes) Barkworth

*Eriocoma cuspidata* Nuttall

*Oryzopsis hymenoides* (Roemer & Schultes) Ricker ex Piper

*Stipa hymenoides* Roemer & Schultes

***lettermanii*** (Vasey) Romaschenko [Allred 2005; M&H; W&S]

*Achnatherum lettermanii* (Vasey) Barkworth

*Stipa lettermanii* Vasey

***lobata*** (Swallen) Romaschenko [Allred 2005; M&H]

*Achnatherum lobatum* (Swallen) Barkworth

*Stipa lobata* Swallen

***nelsonii*** (Scribner) Romaschenko [Allred 2005; Hartman et al. 2006]

*Achnatherum nelsonii* (Scribner) Barkworth

*Stipa nelsonii* Scribner

***perplexa*** (Hoge & Barkworth) Romaschenko [Allred 2005; M&H; W&S]

*Achnatherum perplexum* Hoge & Barkworth

*Stipa columbiana* of NM reports

*Stipa minor* of NM reports

*Stipa perplexa* (Hoge & Barkworth) J. Wipff & S.D. Jones  
pinetorum (M.E. Jones) Romaschenko : Reported for NM by Kartesz (1999) without documentation; awaits verification.

*Stipa pinetorum* M.E. Jones

**robusta** (Vasey) Romaschenko [Allred 2005; M&H; W&S]  
sleepygrass

*Achnatherum robustum* (Vasey) Barkworth

*Stipa robusta* (Vasey) Scribner

*Stipa vaseyi* Scribner

*Stipa viridula* Trinius var. *robusta* Vasey

**scribneri** (Vasey) Romaschenko [Allred 2005; M&H; W&S]

*Achnatherum scribneri* (Vasey) Barkworth

*Stipa scribneri* Vasey

**Erioneuron** tridens

Valdés-R., J. & S.L. Hatch. 1995. Anatomical study of *Erioneuron* and *Dasyochloa* (Poaceae: Chloridoideae: Eragrostideae) in North America. Sida 16(3):413-426.

Valdés-R. & S.L. Hatch. 1997. A revision of *Erioneuron* and *Dasyochloa* (Poaceae: Eragrostideae). Sida 17(4):645-666.

**avenaceum** (Kunth) Tateoka [Allred 2005; M&H; W&S]

*Erioneuron avenaceum* (Kunth) Tateoka var. *grandiflorum* (Vasey) Gould

*Erioneuron grandiflorum* (Vasey) Tateoka

*Tridens avenaceus* (Kunth) Hitchcock

*Tridens grandiflorus* (Vasey) Wootton & Standley

*Triodia avenacea* Kunth

*Triodia grandiflora* Vasey

*avenaceum* (Kunth) Tateoka var. *grandiflorum* (Vasey) Gould = *Erioneuron avenaceum* (Kunth) Tateoka

*avenaceum* (Kunth) Tateoka var. *nealleyi* (Vasey) Gould = *Erioneuron nealleyi* (Vasey) Tateoka

*grandiflorum* (Vasey) Tateoka = *Erioneuron avenaceum* (Kunth) Tateoka

**nealleyi** (Vasey) Tateoka [Allred 2005; M&H; W&S]

*Erioneuron avenaceum* (Kunth) Tateoka var. *nealleyi* (Vasey) Gould

*Tridens nealleyi* (Vasey) Wootton & Standley

*Triodia nealleyi* Vasey

**pilosum** (Buckley) Nash [Allred 2005; M&H; W&S]

*Tridens pilosus* (Buckley) Hitchcock

*Triodia pilosa* (Buckley) Merrill

*Uralepis pilosa* Buckley

*pulchellum* (Kunth) Tateoka = *Munroa pulchella* (Kunth) L.D. Amarilla

**Festuca** fescue

Aiken, S.G. & S.J. Darbyshire. 1990. Fescue grasses of Canada. Agriculture Canada Publ. 1844/E.

Allred, K.W. 1999. New plant distribution records. The New Mexico Botanist 13:7. [*Festuca brachyphylla*, *Festuca calligera*, *Festuca earlei*, *Festuca trachyphylla*]

Allred, K.W. 2005. Perennial *Festuca* (Gramineae) of New Mexico. Desert Plants 21(2):3-12.

Argus, G.W. & S.G. Aiken. 1987. Noteworthy collections (New Mexico). Madroño 34:268-269. [*Festuca minutiflora*]

Auquier, P. & M. Kerguélen. 1977. Un groupe embrouillé de *Festuca* (Poaceae): les taxons désignés par l'épithète "glauca" en europe occidentale et dans les régions voisines. Lejeunia (Nouv. sr.) 89:1-82.

Catalán, P., P. Torrecilla, J.A. López-Rodríguez, J. Müller, & C.A. Stace. 2007. A systematic approach to subtribe Loliinae (Poaceae: Pooideae) based on phylogenetic evidence. Aliso 23(1):380-405.

Darbyshire, S.J. 1993. Realignment of *Festuca* subgenus *Schedonorus* with the genus *Lolium* (Poaceae). Novon 3:239-243.

Darbyshire, S.J. & L.E. Pavlick. 1997. Nomenclatural notes on North American grasses. Phytologia 82(2):73-78.

Darbyshire, S.J. & S.I. Warwick. 1992. Phylogeny of North American *Festuca* (Poaceae) and related genera using chloroplast DNA restriction site variation. Can. J. Bot. 70:2415-2429.

Frederiksen, S. 1977. The *Festuca brachyphylla* group in Greenland. Bot. Notiser 130:269-277.

Frederiksen, S. 1979. *Festuca minutiflora* Rydberg, a neglected species. Bot. Notiser 132:315-318.

Frederiksen, S. 1982. *Festuca brachyphylla*, *F. saximontana* and related species in North America. Nord. J. Bot. 2:525-536.

Legler, B.S. 2010. Additions to the vascular flora of New Mexico. J. Bot. Res. Inst. Texas 4(2):777-784. [*Festuca hallii*]



- Reveal, J.L., E.E. Terrell, J.H. Wiersma, & H. Scholz. 1991. Proposal to reject *Festuca elatior* L. with comments on the typification of *F. pratensis* and *F. arundinacea*. *Taxon* 40:135-137.
- Soreng, R.J. E.E. Terrell. 1997. Taxonomic notes on *Schedonorus*, a segregate genus from *Festuca* or *Lolium*, with a new nothogenus, *Schedololium*, and new combinations. *Phytologia* 83(2):85-88.
- Terrell, E.E. 1967. Meadow fescue: *Festuca elatior* L. or *F. pratensis* Hudson? *Brittonia* 19:129-132.
- Terrell, E.E. 1968. Notes on *Festuca arundinacea* and *F. pratensis* in the United States. *Rhodora* 70:564-568.

Wilkinson, M.J. & C.A. Stace. 1991. A new taxonomic treatment of the *Festuca ovina* L. aggregate (Poaceae) in the British Isles. *Bot. J. Linn. Soc.* 106:347-397.

**arizonica** Vasey [Allred 2005; M&H; W&S]

*Festuca ovina* Linnaeus var. *arizonica* Hackel

*arundinacea* Schreber = *Schedonorus arundinaceus* (Schreber) Dumortier

\**arvensis* Auquier, Kerguelén, & Markgraf-Dannenberg (blue fescue) : Included by Allred (2005) only as an ornamental and not known to escape.

*Festuca glauca* Lamarck

*Festuca ovina* Linnaeus var. *glauca* (Lamarck) W.D.J. Koch

*Festuca ovina* Linnaeus var. *ovina* auctores

*barbata* Loeffling ex Linnaeus = *Schismus barbatus* (Loeffling ex Linnaeus) Thellung

*brachyphylla* J.A. Schultes ex J.A. & J.H. Schultes subsp. *brachyphylla* : Reported in Roalson & Allred (1995), but this subspecies not known in NM; replaced by subsp. *coloradensis* Frederiksen [Allred 2005; Frederiksen 1982].

*Festuca ovina* Linnaeus var. *brachyphylla* (Schultes) Piper

*Festuca ovina* Linnaeus var. *brevifolia* (R. Brown) S. Watson

**brachyphylla** J.A. Schultes ex J.A. & J.H. Schultes subsp. *coloradensis*

Frederiksen [Allred 2005; M&H; W&S]

*Festuca ovina* Linnaeus var. *brachyphylla* of NM reports

*Festuca ovina* Linnaeus var. *brevifolia* of NM reports

*brevipila* Tracy = *Festuca trachyphylla* (Hackel) Krajina

*bromoides* Linnaeus = *Vulpia bromoides* (Linnaeus) S.F. Gray

**calligera** Piper [Allred 2005]

*crinata* Linnaeus = *Rostraria cristata* (Linnaeus) Trinius

*dertonensis* (Allioni) Ascherson & Graebner = *Vulpia bromoides* (Linnaeus) S.F. Gray

**earlei** Rydberg [Allred 2005]

*elatior* Linnaeus = *Schedonorus arundinaceus* (Schreber) Dumortier

*elatior* of many authors = *Schedonorus pratensis* (Hudson) P. Beauvois

*glauca* Lamarck = *Festuca arvensis* Auquier, Kerguelén, & Markgraf-Dannenberg

**hallii** (Vasey) Piper [Legler 2010]

*Melica hallii* Vasey

**idahoensis** Elmer [Allred 2005; M&H]

*Festuca ovina* Linnaeus var. *ingrata* Hackel ex Beal

*kingii* (S. Watson) Cassidy = *Leucopoa kingii* (S. Watson) W.A. Weber

*macrostachya* Torrey & Gray = *Scleropogon brevifolius* Philippi

*megalura* Nuttall = *Vulpia myuros* (Linnaeus) K.C. Gmelin forma *megalura* (Nuttall) Stace & Cotton

*microstachya* Nuttall = *Vulpia microstachya* (Nuttall) Munro ex Bentham var. *microstachya*

*microstachya* Nuttall var. *pauciflora* Scribner ex Beal = *Vulpia microstachya* (Nuttall)

Munro ex Bentham var. *pauciflora* (Scribner ex Beal) Lonard

**minutiflora** Rydberg [Allred 2005; Argus & Aiken 1987]

*Festuca ovina* Linnaeus var. *minutiflora* (Rydberg) J.T. Howell

*myuros* Linnaeus = *Vulpia myuros* (Linnaeus) K.C. Gmelin forma *myuros*

*octoflora* Walter var. *glauca* (Willdenow) Fernald = *Vulpia octoflora* (Walter) Rydberg var. *tenella* (Willdenow) Fernald

*octoflora* Walter var. *hirtella* Piper = *Vulpia octoflora* (Walter) Rydberg var. *hirtella* (Piper) Henrard

*octoflora* Walter var. *octoflora* = *Vulpia octoflora* (Walter) Rydberg var. *octoflora*

*octoflora* Walter var. *tenella* (Willdenow) Fernald = *Vulpia octoflora* (Walter) Rydberg var. *tenella* (Willdenow) Fernald

*ovina* Linnaeus var. *arizonica* Hackel = *Festuca arizonica* Vasey

*ovina* Linnaeus var. *brachyphylla* (Schultes) Piper = *Festuca brachyphylla* Schultes subsp. *brachyphylla*

- ovina* Linnaeus var. *brachyphylla* of NM reports = *Festuca brachyphylla* Schultes subsp. coloradensis Frederiksen
- ovina* Linnaeus var. *brevifolia* (R. Brown) S. Watson = *Festuca brachyphylla* Schultes subsp. *brachyphylla*
- ovina* Linnaeus var. *brevifolia* of NM reports = *Festuca brachyphylla* Schultes subsp. coloradensis Frederiksen
- ovina* Linnaeus var. *duriuscula* of many authors, not Linnaeus s.s. = *Festuca trachyphylla* (Hackel) Krajina
- ovina* Linnaeus subsp. *eu-ovina* var. *duriuscula* (Linnaeus) Koch subvar. *trachyphylla* Hackel = *Festuca trachyphylla* (Hackel) Krajina
- ovina* Linnaeus var. *glauca* (Lamarck) W.D.J. Koch = *Festuca arvernensis* Auquier, Kerguélen, & Markgraf-Dannenberg
- ovina* Linnaeus var. *ingrata* Hackel ex Beal = *Festuca idahoensis* Elmer
- ovina* Linnaeus var. *minutiflora* (Rydberg) J.T. Howell = *Festuca minutiflora* Rydberg
- ovina* Linnaeus var. *ovina* : Reported by M&H, but no validating specimens located.
- ovina* Linnaeus var. *rydbergii* Saint-Yves = *Festuca saximontana* Rydberg
- pacifica* Piper = *Vulpia microstachya* (Nuttall) Munro ex Bentham var. *pauciflora* (Scribner ex Beal) Lonard & Gould
- perennis* (Linnaeus) Columbus & J.P. Smith = *Lolium perenne* Linnaeus subsp. *perenne*
- pratensis* Hudson = *Schedonorus pratensis* (Hudson) P. Beauvois
- rubra*** Linnaeus [Allred 2005; M&H]
- saximontana*** Rydberg [Allred 2005]  
*Festuca ovina* Linnaeus var. *rydbergii* Saint-Yves
- sororia*** Piper [Allred 2005; M&H; W&S]
- spicata* Pursh = *Elymus spicatus* (Pursh) Gould
- temulenta* (Linnaeus) J.P. Smith & Columbus = *Lolium temulentum* Linnaeus
- tenella* Willdenow = *Vulpia octofloa* (Walter) Rydberg var. *tenella* (Willdenow) Fernald
- tenella* Willdenow var. *glauca* Nuttall = *Vulpia octofloa* (Walter) Rydberg var. *tenella* (Willdenow) Fernald
- thurberi*** Vasey [Allred 2005; M&H; W&S]
- \**trachyphylla*** (Hackel) Krajina [Allred 1999; Aiken & Darbyshire 1990]  
*Festuca brevipila* Tracy  
*Festuca trachyphylla* Hackel ex Druce, nomen nudum [Darbyshire & Pavlick 1997]  
*Festuca ovina* Linnaeus subsp. *eu-ovina* var. *duriuscula* (Linnaeus) Koch subvar. *trachyphylla* Hackel  
*Festuca ovina* Linnaeus var. *duriuscula* of many authors, not Linnaeus s.s.  
*trachyphylla* Hackel ex Druce [nomen nudum] = *Festuca trachyphylla* (Hackel) Krajina
- Glyceria***  
*mannagrass*  
Church, G.L. 1949. A cytotoxic study of *Glyceria* and *Puccinellia*. Amer. J. Bot. 36:155-156.  
Ruiz de Esparza, R. & J. Maze. 1997. A taxonomic study of the grass genus *Glyceria* (Mannagrass) in British Columbia. Can. Field-Natural. 111(2):194-199.  
Whipple, I.G., M.E. Barkworth, & B.S. Bushman. 2007. Molecular insights into the taxonomy of *Glyceria* (Poaceae: Meliceae) in North America. Amer. J. Bot. 94(4): 551-557.
- borealis*** (Nash) Batchelder [Allred 2005; M&H; W&S]  
*Panicularia borealis* Nash
- elata*** (Nash ex Rydberg) M.E. Jones [Allred 2005; M&H; W&S]  
*Panicularia elata* Nash ex Rydberg  
*Panicularia nervata* (Willdenow) Kuntze var. *elata* (Nash ex Rydberg) Piper
- grandis*** S. Watson [Allred 2005; M&H; W&S]  
*Panicularia grandis* (S. Watson) Nash
- nervata* Trinius = *Glyceria striata* (Lamarck) A.S. Hitchcock
- pauciflora* Presl = *Torreyochloa pallida* (Torrey) Church var. *pauciflora* (J.S. Presl) J.I. Davis
- striata*** (Lamarck) A.S. Hitchcock [Allred 2005; M&H]  
*Glyceria nervata* Trinius  
*Glyceria striata* (Lamarck) A.S. Hitchcock var. *stricta* (Scribner) Fernald  
*Panicularia nervata* (Willdenow) Kuntze  
*Poa striata* Lamarck

*striata* (Lamarck) A.S. Hitchcock var. *stricta* (Scribner) Fernald = *Glyceria striata* (Lamarck) A.S. Hitchcock

### **Graphephorum**

Barberá, P., C. Romero-Zarco, & C. Aedo. 2018. Taxonomic revision of *Trisetum* sect. *Trisetum* (Poaceae: Pooideae: Aveninae) from Eurasia and North Africa. *Ann. Missouri Bot. Gard.* 103: 350-392.

Barberá, P., R.J. Soreng, P.M. Peterson, K. Romaschenko, A. Quintanar, & C. Aedo. 2019. Molecular phylogenetic analysis resolves *Trisetum* (Poaceae: Pooideae: Koeleriinae) polyphyletic: Evidence for a new genus, *Sibirotrisetum* and resurrection of *Acrospelion*. *J. Syst. Evol.* Online early issue 20 Oct 2019: 1-10.

Finot, V.L., P.M. Peterson, R.J. Soreng, & F.O. Zuloaga. 2005. A revision of *Trisetum* and *Graphephorum* (Poaceae: Pooideae: Aveninae) in North America north of Mexico. *Sida* 21(3):1419-1453.

*flexuosum* Thurber = *Redfieldia flexuosa* (Thurber) Vasey

**wolfii** (Vasey) Vasey ex Coulter [Allred 2005; M&H]

*Trisetum subspicatum* (Linnaeus) Beauvois var. *muticum* Bolander

*Trisetum wolfii* Vasey

*Gymnopogon ambiguus* (Michaux) Britton, Sterns, & Poggenburg : Reported by Smith (2003) for NM, based on an 1853 collection from Doña Ana County; the species has not been found since and occurs naturally from central Texas eastward.

*Hackelochloa granularis* (Linnaeus) Kuntze = *Mnesithea granularis* (Linnaeus) de Koning & Sosef

### **Helictotrichon** oatgrass

Gervais, C. 1973. Contribution à l'étude cytologique et taxonomique des avoines vivaces

(e.g. *Helictotrichon* Bess. et *Avenochloa* Holub). *Denkschr. Schweiz. Naturf. Ges.* 88:3-166.

C. Romero-Zarco. 2011. *Helictochloa* Romero-Zarco (Poaceae), a new genus of oat grass. *Candollea* 66(1): 87-103.

*canescens* (Buckley) Clayton = *Trisetum canescens* Buckley

*hookeri* (Scribner) Henrard = *Avenula hookeri* (Scribner) Holub

**mortonianum** (Scribner) Henrard [Allred 2005; M&H]

*Avena mortoniana* Scribner

*Hesperochloa kingii* (S. Watson) Rydberg = *Leucopoa kingii* (S. Watson) W.A. Weber

### **Hesperostipa** needle-and-thread

Barkworth, M.E. 1978. A taxonomic study of the large-glumed species of *Stipa* (Gramineae) occurring in Canada. *Can. J. Bot.* 56(6):606-625.

Barkworth, M.E. 1993. North American Stipeae (Gramineae): Taxonomic changes and other comments. *Phytologia* 74(1):1-25.

Romaschenko, K., P.M. Peterson, R.J. Soreng, N. Garcia-Jacas, O. Futorna, & A. Susanna. 2012.

Systematics and evolution of the needle grasses (Poaceae: Pooideae: Stipeae) based on analysis of multiple chloroplast loci, ITS, and lemma micromorphology. *Taxon* 61(1):18-44.

**comata** (Trinius & Ruprecht) Barkworth subsp. **comata** [Allred 2005; M&H; W&S]

*Stipa comata* Trinius & Ruprecht

**comata** (Trinius & Ruprecht) Barkworth subsp. **intermedia** (Scribner & Tweedy)

Barkworth [Allred 2005; M&H; W&S]

*Stipa comata* Trinius & Ruprecht var. *intermedia* Scribner & Tweedy

*Stipa tweedyi* Scribner

**neomexicana** (Thurber) Barkworth [Allred 2005; M&H; W&S]

New Mexico feathergrass

*Stipa neomexicana* (Thurber ex Coulter) Scribner

*Stipa pennata* Linnaeus var. *neo-mexicana* Thurber ex Coulter

**spartea** (Trinius) Barkworth [Allred 2005; M&H; W&S]

*Stipa spartea* Trinius

### **Heteropogon** tanglehead

**contortus** (Linnaeus) Beauvois ex Roemer & J.A. Schultes [Allred 2005; M&H; W&S]

*Andropogon contortus* Linnaeus

*melanocarpus* (Elliott) Bentham : Not yet known from NM, but present in adjacent Arizona.

*Andropogon melanocarpus* Elliott

*secundus* Presl = *Trachypogon spicatus* (Linnaeus f.) Kuntze

### **Hierochloa** sweetgrass

Schouten, Y. & J.F. Veldkamp. 1985. A revision of *Anthoxanthum* including *Hierochloa* (Gramineae) in Malasia and Thailand. *Blumea* 30:319-351.

Weimarck, G. 1971. Variation and taxonomy of *Hierochloa* (Gramineae) in the Northern Hemisphere. *Bot. Not.* 124:129-175.

*hirta* (Schrank) Borbas subsp. *arctica* (Presl) Weimarck = *Hierochloe odorata* (Linnaeus) Beauvois

***odorata*** (Linnaeus) Beauvois [Allred 2005; M&H]

*Anthoxanthum nitens* (Weber) Y. Schouten & Veldkamp

*Hierochloe hirta* (Schrank) Borbas subsp. *arctica* (Presl) Weimarck

*Holcus odoratus* Linnaeus

*Savastana odorata* (Linnaeus) Scribner

***Hilaria*** curly mesquite

Columbus, J.T. 1993. *Pleuraphis* – distinct from *Hilaria* (Gramineae: Chloridoideae). Amer. J. Bot. 80(suppl.):138-139.

Columbus, J.T. & M.A. Peot. 1993. Revisionary studies in *Hilaria* (Gramineae: Chloridoideae): the annual species. Amer. J. Bot. 80(suppl.):139.

Columbus, J.T. & J.P. Smith. 2010. Nomenclatural changes for some grasses in California and the *Muhlenbergia* clade (Poaceae). Aliso 28:65-67.

Cory, V.L. 1948. Curly mesquite grass in Texas and northern Mexico. Wrightia 1(4):214-217.

Sohns, E.R. 1956. The genus *Hilaria* (Gramineae). J. Wash. Acad. Sci. 46:311-321.

Western Regional Technical Committee W-90. 1972. Galleta: taxonomy, ecology, and management of *Hilaria jamesii* on western rangelands. Utah Agr. Exp. Sta. Bull. 487. 38 p.

***belangeri*** (Steudel) Nash [Allred 2005; M&H; W&S]

*Anthephora belangeri* Steudel

*Hilaria texana* Nash

*Hilaria cenchroides* Kunth

*cenchrroides* Kunth = *Hilaria belangeri* (Steudel) Nash

***jamesii*** (Torrey) Bentham [Allred 2005; M&H; W&S]

galleta

*Pleuraphis jamesii* Torrey

***mutica*** (Buckley) Bentham [Allred 2005; M&H; W&S]

tobosa

*Pleuraphis mutica* Buckley

***rigida*** (Thurber) Bentham ex Scribner [Allred 2005]

*Pleuraphis rigida* Thurber in S. Watson

***swallenii*** Cory [Allred 2005]

*texana* Nash = *Hilaria belangeri* (Steudel) Nash

***Holcus*** velvetgrass

*bicolor* Linnaeus = *Sorghum bicolor* (Linnaeus) Moench subsp. *bicolor*

*halepensis* Linnaeus = *Sorghum halepense* (Linnaeus) Persoon

**\**lanatus*** Linnaeus [Allred 2005; M&H; W&S]

*odoratus* = *Hierochloe odorata* (Linnaeus) Beauvois

***Hopia*** vine mesquite

Zuloaga, F.O., L.M. Giussani, & O. Morrone. 2007. *Hopia*, a new monotypic genus segregated from *Panicum* (Poaceae). Taxon 56(1):145-156.

***obtusa*** (Kunth) Zuloaga & Morrone [Allred 2005; M&H; W&S]

*Panicum obtusum* Kunth

***Hordeum*** barley

Baden, C. & R. von Bothmer. 1994. A taxonomic revision of *Hordeum* sect. *Critesion*. Nordic J. Bot. 14(2):117-136.

Baum, B.R. 1980. Multivariate morphometric relationships between *Hordeum jubatum* and *Hordeum brachyantherum* in Canada and Alaska. Can. J. Bot. 58(6):604-623.

Baum, B.R. 1983. Morphometric relationships in *Hordeum vulgare* (Triticeae, Poaceae). II. *Hordeum agriocrithon*, *H. distichum*, *H. lagunculiforme*, *H. spontaneum*, and *H. vulgare*. Can. J. Bot. 61(7):2023-2031.

Baum, B.R. 1988. A taxonomic investigation of *Hordeum arizonicum* (Poaceae: Triticeae) with reference to related species. Can. J. Bot. 66:1848-1855.

Baum, B.R. & L.G. Bailey. 1990. Key and synopsis of North American *Hordeum* species. Can. J. Bot. 68:2433-2442.

Bothmer, von, R., N. Jacobsen, C. Baden, R.B. Jørgensen, and I. Linde-Laursen. 1995. An ecogeographical study of the genus *Hordeum*. 2nd edition. Systematic and Ecogeographic Studies on Crop Gene pools 7. International Plant Genetic Resources Institute, Rome.

Bothmer, R.N., N. Jacobson, R.B. Jørgensen, & E. Nicora. 1982. Revision of the *Hordeum pusillum* group. Nordic J. Bot. 2:307-321.

Bowden, W.M. 1962. Cytotaxonomy of the native and adventive species of *Hordeum*, *Eremopyrum*, *Secale*, *Sitanion*, and *Triticum* in Canada. Can. J. Bot. 40:1675-1711.

- Boyle, W.S. & A.H. Holmgren. 1955. A cytogenetic study of natural and controlled hybrids between *Agropyron trachycaulum* and *Hordeum jubatum*. *Genetics* 40:539-545.
- Jacobsen, N. & R. von Bothmer. 1995. Taxonomy in the *Hordeum murinum* complex (Poaceae). *Nordic J. Bot.* 15(5):449-458.
- Petersen, G. & O. Seberg. 2003. Phylogenetic analyses of the diploid species of *Hordeum* (Poaceae) and a revised classification of the genus. *Syst. Bot.* 28:293-306.
- \***arizonicum** Covas [Allred 2005]  
*Critesion arizonicum* (Covas) Löve
- brachyantherum** Nevski [Allred 2005; M&H; W&S]  
*Critesion brachyantherum* (Nevski) Barkworth & Dewey  
*Hordeum nodosum* auctores non Linnaeus  
*caespitosum* Scribner = *Hordeum jubatum* Linnaeus subsp. *intermedium* Bowden  
*distichon* Linnaeus = *Hordeum vulgare* Linnaeus  
*glaucum* Steudel = *Hordeum murinum* Linnaeus subsp. *glaucum* (Steudel) Tzvelev  
*jubatum* Linnaeus var. *caespitosum* (Scribner) Hitchcock = *Hordeum jubatum* Linnaeus subsp. *intermedium* Bowden
- jubatum** Linnaeus subsp. **intermedium** Bowden [Allred 2005; Baden & Bothmer 1994; M&H; W&S]  
 foxtail barley  
*Hordeum caespitosum* Scribner  
*Hordeum jubatum* Linnaeus var. *caespitosum* (Scribner) Hitchcock
- jubatum** Linnaeus subsp. **jubatum** [Allred 2005; M&H; W&S]  
 foxtail barley  
*Critesion jubatum* (Linnaeus) Nevski  
*leporinum* Link = *Hordeum murinum* Linnaeus subsp. *leporinum* (Link) Arcangeli
- \***murinum** Linnaeus subsp. **glaucum** (Steudel) Tzvelev [Allred 2005; M&H; W&S]  
 wall barley  
*Hordeum glaucum* Steudel  
*Hordeum stebbinsii* Covas
- \***murinum** Linnaeus subsp. **leporinum** (Link) Arcangeli [Allred 2005; M&H]  
 wall barley  
*Critesion murinum* (Linnaeus) Löve subsp. *leporinum* (Link) Löve  
*Hordeum leporinum* Link  
*nodosum* auctores non Linnaeus = *Hordeum brachyantherum* Nevski
- pusillum** Nuttall [Allred 2005; M&H]  
*Critesion pusillum* (Nuttall) Löve  
*Hordeum pusillum* Nuttall var. *pubens* A.S. Hitchcock  
*pusillum* Nuttall var. *pubens* A.S. Hitchcock = *Hordeum pusillum* Nuttall  
*stebbinsii* Covas = *Hordeum murinum* Linnaeus subsp. *glaucum* (Steudel) Tzvelev  
*trifurcatum* = *Hordeum vulgare* Linnaeus
- \***vulgare** Linnaeus [Allred 2005; M&H]  
*Hordeum distichon* Linnaeus  
*Hordeum trifurcatum* (Schlechtendal) Wenderoth
- Hystrix patula* Moench = *Elymus hystrix* Linnaeus
- Imperata** satintail  
**brevifolia** Vasey [Allred 2005; M&H]  
*Imperata hookeri* (Ruprecht ex Andersson) Ruprecht ex Hackel
- \**cylindrica* (Linnaeus) Beauvois var. *koenigii* (Retzius) T. Durand & Schinz (Japanese bloodgrass, 'Red Baron'): Cultivated as an ornamental landscape plant; not known to occur in the wild in NM.  
*hookeri* (Ruprecht ex Andersson) Ruprecht ex Hackel = *Imperata brevifolia* Vasey
- Ischaemum secundatum* Walter = *Stenotaphrum secundatum* (Walter) Kuntze  
*Jarava speciosa* (Trinius & Ruprecht) Peñailillo = *Pappostipa speciosa* (Trinius & Ruprecht) Romaschenko
- Kalinia**  
 Bell, H.L. & J.T. Columbus. 2012. *Kalinia*, a new North American genus for a species long misplaced in *Eragrostis* (Poaceae, Chloridoideae). *Aliso* 30(2):85-95.
- obtusiflora** (Fournier) H.L. Bell & Columbus [Allred 2005; W&S]  
*Brizopyrum obtusiflorum* Fournier  
*Eragrostis obtusiflora* (Fournier) Scribner

**Koeleria**

- Arnou, L.A. 1994. *Koeleria macrantha* and *K. pyramidata* (Poaceae): nomenclatural problems and biological distinctions. *Syst. Bot.* 19(1):6-20.
- Barberá, P., C. Romero-Zarco, & C. Aedo. 2018. Taxonomic revision of *Trisetum* sect. *Trisetum* (Poaceae: Pooideae: Aveninae) from Eurasia and North Africa. *Ann. Missouri Bot. Gard.* 103: 350-392.
- Barbera, P., R.J. Soreng, P.M. Peterson, K. Romaschenko, A. Quintanar, & C. Aedo. 2019. Molecular phylogenetic analysis resolves *Trisetum* (Poaceae: Pooideae: Koeleriinae) polyphyletic: Evidence for a new genus, *Sibirotrisetum* and resurrection of *Acrospelion*. *J. Syst. Evol.* Online early issue 20 Oct 2019: 1-10.
- Barberá, P., A. Quintanar, P.M. Peterson, R.J. Soreng, K. Romaschenko, & C. Aedo. 2019. New combinations, new names, typifications, and a new section, sect. *Hispanica*, in *Koeleria* (Poaeae, Poaceae). *Phytoneuron* 2019-46: 1-13.
- Finot, V.L., P.M. Peterson, R.J. Soreng, & F.O. Zuloaga. 2005. A revision of *Trisetum* and *Graphephorum* (Poaceae: Pooideae: Aveninae) in North America north of Mexico. *Sida* 21(3):1419-1453.
- Greuter, W. 1968. Notulae nomenclaturales et bibliographicae 1-4. *Candollea* 23:81-108.
- Hultén, E. 1959. The *Trisetum spicatum* complex. *Sv. Bot. Tidskr.* 53:203-228.
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- Rumely, J.H. 2007. *Trisetum*, p. 744-753. IN: *Flora of North America*, vol. 24. Oxford University Press.
- Shinners, L.H. 1956. Illegitimacy of Persoon's species of *Koeleria* (Gramineae). *Rhodora* 58:93-96.
- cristata* of many authors = *Koeleria macrantha* (Ledebour) Schultes
- macrantha*** (Ledebour) J.A. Schultes [Allred 2005; M&H; W&S]

Junegrass

- Aira macrantha* Ledebour
- Koeleria cristata* of many authors
- Koeleria nitida* Nuttall
- nitida* Nuttall = *Koeleria macrantha* (Ledebour) J.A. Schult
- phleoides* (Villars) Persoon = *Rostraria cristata* (Linnaeus) Trinius
- spicata*** (Linnaeus) Barberá, Quintanar, Soreng, & P.M. Peterson [Allred 2005; M&H; W&S]
- spike trisetum
- Aira spicata* Linnaeus
- Trisetum spicatum* (Linnaeus) Richter
- vaseyi*** Barberá, Quintanar, Soreng, & P.M. Peterson [Allred 2005; M&H; W&S]
- Trisetum montanum* Vasey [not *Koeleria montana* (Hausmann) Dalla Torre]
- Trisetum spicatum* (Linnaeus) Richter subsp. *montanum* (Vasey) Weber

**Lagurus**

- hare's-tail
- Allred, K. 2004. Plant distribution reports. *The New Mexico Botanist* 31:1. [*Lagurus ovatus*]
- \*ovatus** Linnaeus [Allred 2004]
- Lamarckia tenella* A.P. de Candolle = *Aegopogon tenellus* (A.P. de Candolle) Trinius

**Leersia**

- cutgrass
- Pyrah, G.L. 1969. Taxonomic and distributional studies in *Leersia* (Gramineae). *Iowa St. J. Sci.* 44:215-270.
- oryzoides** (Linnaeus) Swartz [Allred 2005; M&H]
- Phalaris oryzoides* Linnaeus

**Leptochloa**

- sprangletop
- McNeill, J. 1979. *Diplachne* and *Leptochloa* (Poaceae) in North America. *Brittonia* 31:399-404.
- Peterson, P.M., K. Romaschenko, N. Snow, and G.P. Johnson. 2012. A molecular phylogeny and classification of *Leptochloa* (Poaceae: Chloridoideae: Chlorideae) sensu lato and related genera. *Ann. Bot-London* 109: 1317-1330.
- Peterson, P.M., K. Romaschenko, & Y. Herrera Arrieta. 2015. A molecular phylogeny and classification of the Eleusininae with a new genus, *Micrachne* (Poaceae: Chloridoideae: Cynodonteae). *Taxon* 64:445-467.
- Snow, N. 1998. Nomenclatural changes in *Leptochloa* P. Beauvois sensu lato (Poaceae, Chloridoideae). *Novon* 8:77-80.
- Snow, N. & G. Davidse. 1993. *Leptochloa mucronata* (Michaux) Kunth is the correct name for *Leptochloa filiformis* (Poaceae). *Taxon* 42(2):413-417.
- Snow, N, P. Peterson, K. Romaschenko. 2013. Systematics of *Disakisperma* (Poaceae, Chloridoideae, Chlorideae). *PhytoKeys* 26:21-70. doi: 10.3897/phytokeys.26.5649
- Soreng, R.J., P.M. Peterson, K. Romaschenko, G. Davidse, F.O. Zuloaga, E.J. Judziewicz, T.S. Filgueiras, J.I. Davis, & O. Morrone. 2015. A worldwide phylogenetic classification of the Poaceae (Gramineae). *Journal of Systematics and Evolution* 53(2):117-137.
- brachiata* Steudel = *Dinebra panicea* (Retzius) P.M. Peterson & N. Snow subsp. *brachiata* (Steudel) P.M. Peterson & N. Snow

**crinita** (Lagasca) P.M. Peterson & N. Snow [Allred 2005; M&H; W&S]

*Chloris crinita* Lagasca

*Trichloris crinita* (Lagasca) Parodi

*Trichloris fasciculata* Fournier

*dubia* (Kunth) Nees = *Disakisperma dubium* (Kunth) P.M. Peterson & N. Snow

*fascicularis* (Lamarck) Gray = *Diplachne fusca* (Linnaeus) Beauvois ex Roemer & J.A.

Schultes subsp. *fascicularis* (Lamarck) P.M. Peterson & N. Snow

*filiformis* (Lamarck) Beauvois = *Dinebra panicea* (Retzius) P.M. Peterson & N. Snow subsp.

*brachiata* (Steudel) P.M. Peterson & N. Snow

*fusca* (Linnaeus) Kunth subsp. *fascicularis* (Lamarck) N. Snow = *Diplachne fusca*

(Linnaeus) Beauvois ex Roemer & J.A. Schultes subsp. *fascicularis*

(Lamarck) P.M. Peterson & N. Snow

*fusca* (Linnaeus) Kunth subsp. *uninervia* (J. Presl) N. Snow = *Diplachne fusca* (Linnaeus)

Beauvois ex Roemer & J.A. Schultes subsp. *uninervia* (J. Presl) P.M.

Peterson & N. Snow

*mucronata* of NM authors = *Dinebra panicea* (Retzius) P.M. Peterson & N. Snow subsp.

*brachiata* (Steudel) P.M. Peterson & N. Snow

*nealleyi* Vasey : Reported by W&S, but this is a species of the coastal prairies of Texas and Louisiana and not present in NM.

*panicea* (Retzius) Ohwi subsp. *brachiata* (Steudel) N. Snow = *Dinebra panicea* (Retzius)

P.M. Peterson & N. Snow subsp. *brachiata* (Steudel) P.M. Peterson & N.

Snow

*uninervia* (J. Presl) A.S. Hitchcock & Chase = *Diplachne fusca* (Linnaeus) Beauvois ex

Roemer & J.A. Schultes subsp. *uninervia* (J. Presl) P.M. Peterson & N.

Snow

*viscida* (Scribner) Beal = *Dinebra viscida* (Scribner) P.M. Peterson & N. Snow

### **Leptoloma** fall witch-grass

Henrard, J.T. 1950. Monograph of the genus *Digitaria*. Universitare Pers, Leiden.

Medico, J.M.L. D.S. Tosto, G.H. Rua, Z.E. Rúgolo de Agrasar, M.A. Scataglini, & A.S. Vega. 2017.

Phylogeny of *Digitaria* Sections *Trichachne* and *Trichophorae* (Poaceae, Panicoideae, Paniceae):

A morphological and molecular Analysis. Syst. Bot. 42(1): 37-53.

Vega, A.S., G.H. Rua, L.T. Fabbri, Z.E. Rugolo de Agrasar. 2009. A morphology-based cladistic analysis of

*Digitaria* (Poaceae, Panicoideae, Paniceae). Syst. Bot. 34(2): 312-323.

Wipff, J.K. 2001. Nomenclatural change in the *Digitaria cognata* complex (Poaceae: Paniceae). Sida 19(4):923-924.

Wipff, J.K. & S.L. Hatch. 1994. A systematic study of *Digitaria* sect. *Pennatae* (Poaceae: Paniceae) in the New World. Syst. Bot. 19:613-627.

Wipff, J.K. & R.B. Shaw. 2018. *Leptoloma syrticola* (Poaceae: Panicoideae): A new species from Texas and new combinations in *Leptoloma* and *Trichachne*.

**pubiflorum** (Vasey) Wipff & Shaw var. **pubiflorum** [Allred 2005; M&H; W&S; Wipff & Hatch 1994]

fall witchgrass

*Digitaria cognata* (Schultes) Pilger subsp. *pubiflora* (Vasey) Wipff

*Digitaria pubiflora* (Vasey) Wipff

*Leptoloma cognatum* (Schultes) Chase subsp. *pubiflorum* (Vasey) Wipff & Hatch

*Panicum autumnale* Bosc ex Sprengel var. *pubiflorum* Vasey

**pubiflorum** (Vasey) Wipff & Shaw var. **syrticola** (Wipff & Shaw) Allred

*Leptoloma syrticola* Wipff & Shaw

*Lepturus paniculatus* Nuttall = *Muhlenbergia paniculata* (Nuttall) P.M. Peterson

### **Leucopoa** spike-fescue

Hall, H.H. & S. Flowers. 1961. Vascular plants found in the Navajo Reservoir Basin, pp. 47-87. IN: D.M.

Pendergast (ed.). Ecological studies of the flora and fauna of Navajo Reservoir Basin, Colorado and New Mexico. Univ. Utah Anthropological Papers, number 55. [*Hesperochloa kingii*]

**kingii** (S. Watson) W.A. Weber [Hall & Flowers 1961]

*Festuca kingii* (S. Watson) Cassidy

*Hesperochloa kingii* (S. Watson) Rydberg

*Poa kingii* S. Watson

### **Leymus** wildrye

Allred, K.W. 2001. New plant distribution records. The New Mexico Botanist 18:3. [*Leymus racemosus* (as *Leymus cinereus*, corrected in Allred (2007))]

Allred, K.W. 2007. Plant distribution reports [*Leymus racemosus*]. The New Mexico Botanist 37:7.

- Atkins, R.J., M.E. Barkworth, & D.R. Dewey. 1984. A taxonomic study of *Leymus ambiguus* and *L. salinus* (Poaceae:Triticeae). Syst. Bot. 9:279-294.
- Barkworth, M.E. & R.J. Atkins. 1984. *Leymus* Hochst. (Gramineae: Triticeae) in North America: Taxonomy and distribution. Amer. J. Bot. 71:609-625.
- Hall, H.H. & S. Flowers. 1961. Vascular plants found in the Navajo Reservoir Basin, pp. 47-87. IN: D.M. Pendergast (ed.). Ecological studies of the flora and fauna of Navajo Reservoir Basin, Colorado and New Mexico. Univ. Utah Anthropological Papers, number 55.
- Hatch, S.L. 1976. A taxonomic evaluation of *Elymus simplex* (Poaceae). Great Basin Naturalist 36(2):239-241.
- Ward, J. 2008. Plant distribution reports [*Leymus cinereus*]. The New Mexico Botanist 45:7.
- Yen, C., J.-L. Yang, & B.R. Baum. 2009. Synopsis of *Leymus* Hochst. (Triticeae: Poaceae). J. Systematics & Evol. 47(1):67-86.

***ambiguus*** (Vasey & Scribner) D.R. Dewey [Allred 2005]

*Elymus ambiguus* Vasey & Scribner

***cinereus*** (Scribner & Merrill) Löve [Ward 2008] Note: The report of *Leymus cinereus* (Scribner & Merrill) Löve in Allred (2001) was corrected to *Leymus racemosus* (Lamarck) Tzvelev by Allred (2007).

Great Basin wildrye

*Elymus cinereus* Scribner & Merrill

*condensatus* (J. Presl) A. Löve : Reported by Hall & Flowers (1961); most likely refers to *Leymus cinereus* (Scribner & Merrill) Löve; awaits verification.

**\**racemosus*** (Lamarck) Tzvelev [Allred 2007]

*Elymus racemosus* Lamarck

***salina*** (M.E. Jones) A. Löve [Allred 2005]

*Elymus salina* M.E. Jones

***triticoides*** (Buckley) Pilger [Allred 2005; M&H; W&S]

*Elymus simplex* Scribner & Williams

*Elymus triticoides* Buckley

*Elymus triticoides* Buckley var. *simplex* (Scribner & Williams) Hitchcock

## ***Lolium*** ryegrass

Aiken, S.G., S.E. Gardiner, H.C.M. Bassett, B.L. Wilson, L.L. Conaul. 1998. Implications from SDS-PAGE analyses of seed proteins in the classification of taxa of *Festuca* and *Lolium* (Poaceae). Biochemical Systematics and Ecology 26:511-533.

Bulinska-Radomska, Z. & R.N. Lester. 1988. Intergeneric relationships of *Lolium*, *Festuca*, and *Vulpia* (Poaceae) and their phylogeny. Pl. Syst. Evol. 159:217-227.

Catalán, P., P. Torrecilla, J.A. López-Rodríguez, J. Müller, & C.A. Stace. 2007. A systematic approach to subtribe Loliinae (Poaceae: Pooideae) based on phylogenetic evidence. Aliso 23(1):380-405.

Darbyshire, S.J. 1993. Realignment of *Festuca* subgenus *Schedonorus* with the genus *Lolium* (Poaceae). Novon 3:239-243.

Soreng, R.J. E.E. Terrell. 1997. Taxonomic notes on *Schedonorus*, a segregate genus from *Festuca* or *Lolium*, with a new nothogenus, *Schedololium*, and new combinations. Phytologia 83(2):85-88.

*arundinaceum* (Schreber) S.J. Darbyshire = *Schedonorus arundinaceus* (Schreber)

Dumortier

*multiflorum* Lamarck = *Lolium perenne* Linnaeus var. *aristatum* Willdenow

*multiflorum* Lamarck subsp. *italicum* (A. Braun) Schinz & R. Keller = *Lolium perenne* Linnaeus var. *aristatum* Willdenow

**\**perenne*** Linnaeus var. ***aristatum*** Willdenow [Allred 2005; M&H]

*Lolium multiflorum* Lamarck

*Lolium multiflorum* Lamarck subsp. *italicum* (A. Braun) Schinz & R. Keller

*Lolium perenne* Linnaeus var. *italicum* (A. Braun) Parnell

*perenne* Linnaeus var. *italicum* (A. Braun) Parnell = *perenne* Linnaeus var. *italicum* (A. Braun) Parnell

*perenne* Linnaeus subsp. *italicum* (A. Braun) Schinz & R. Keller = *Lolium perenne* Linnaeus var. *aristatum* Willdenow

**\**perenne*** Linnaeus var. ***perenne*** [Allred 2005; M&H; W&S]

*Festuca perennis* (Linnaeus) Columbus & J.P. Smith

*pratense* (Hudson) S.J. Darbyshire = *Schedonorus pratensis* (Hudson) P. Beauvois  
*rigidum* Gaudin : Reported as expected by M&H; awaits verification.

**\**temulentum*** Linnaeus [Allred 2005; M&H]

*Festuca temulenta* (Linnaeus) J.P. Smith & Columbus

*Lophopyrum ponticum* (Podpěra) Löve = *Elymus ponticus* (Podpěra) N. Snow



- Lycurus alopecuroides* Grisebach = *Muhlenbergia alopecuroides* (Grisebach) Peterson & Columbus  
*phleoides* Kunth = *Muhlenbergia phleoides* (Kunth) Columbus  
*phleoides* Kunth var. *glaucofolius* Beal = *Muhlenbergia alopecuroides* (Grisebach) Peterson & Columbus  
*schaffneri* (Fournier) Mez = *Muhlenbergia depauperata* Scribner  
*setosus* (Nuttall) C. Reeder = *Muhlenbergia alopecuroides* (Grisebach) Peterson & Columbus
- Megastachya uninervia* J. Presl = *Diplachne fusca* (Linnaeus) Beauvois ex Roemer & J.A. Schultes subsp. *uninervia* (J. Presl) P.M. Peterson & N. Snow
- Melica** melica  
 Boyle, W.S. 1945. A cytotoxic study of the North American species of *Melica*. Madroño 8:1-26.  
*diffusa* Pursh var. *nitens* Scribner = *Melica nitens* (Scribner) Nuttall ex Piper  
*hallii* Vasey = *Festuca hallii* (Vasey) Piper  
*nitens* (Scribner) Nuttall ex Piper [Allred 2005; M&H]  
*Melica diffusa* Pursh var. *nitens* Scribner  
*porteri* Scribner var. *laxa* Boyle [Allred 2005]  
*porteri* Scribner var. *porteri* [Allred 2005; M&H; W&S]
- Melinis** melinis  
 McIntosh, L. 1985. Noteworthy collections (New Mexico). Madroño 32:192. [*Rhynchelytrum repens*]  
 Zizka, G. 1987. Revision der Melinideae Hitchcock (Poaceae, Panicoideae). Bibl. Bot. 138:1-149.  
 \**repens* (Willdenow) Zizka [Allred 2005]  
*Rhynchelytrum repens* (Willdenow) C.E. Hubbard  
*Rhynchelytrum roseum* (Nees) Bews  
*Saccharum repens* Willdenow
- Milium pungens* Torrey ex Sprengel = *Piptatherum pungens* (Torrey ex Sprengel) Dorn
- \**Miscanthus*  
 Hodkinson, T.R., M.W. Chase, M.D. Lledo, N. Salamin, and S.A. Renvoize. 2002. Phylogenetics of *Miscanthus*, *Saccharum*, and related genera (Saccharinae, Andropogoneae, Poaceae) based on DNA sequences from ITS nuclear ribosomal DNA and plastid trnL intron and trnL-F intergenic spaces. Journal of Plant Research 115:381-392.  
*sinensis* Andersson (Eulalia) : Included by Allred (2005) only as an ornamental and not known to escape.
- Monroa* = Munroa
- Mnesithea** pitgrass  
 Makings, E. 2010. Plant distribution reports (*Hackelochloa granularis*). The New Mexico Botanist 51:3.  
 Veldkamp, J.F., R. de Koning, & M.S.M. Sosef. 1986. Generic delimitation of *Rotboellia* and related genera (Gramineae). Blumea 31:281-307.  
 \**granularis* (Linnaeus) de Koning & Sosef [Allred 2005; Hitchcock & Chase 1951; Makings 2010]  
*Cenchrus granularis* Linnaeus  
*Hackelochloa granularis* (Linnaeus) Kuntze
- Muhlenbergia** muhly  
 Dorr, L.J. and P.M. Peterson. 1993. Typification of two Buckley grass names revisited: *Muhlenbergia texana* and *M. monticola* (Poaceae). Sida 15(4):589-591.  
 Hatch, S.L. 1977. New grass distribution records for New Mexico and the United States. Great Basin Naturalist 37(4):530-531. [*Muhlenbergia villiflora villosa*]  
 Herrera-A., Y. 1998. A revision of the *Muhlenbergia montana* (Nuttall) Hitchcock complex (Poaceae: Chloridoideae). Brittonia 50(1):23-50.  
 Johnson, S. 2002. New plant distribution records. The New Mexico Botanist 21:2. [*Muhlenbergia eludens*]  
 Morden, C.W. 1995. A new combination in *Muhlenbergia* (Poaceae). Phytologia 79(1):28-30.  
 Morden, C.W. & S.L. Hatch. 1996. Morphological variation and synopsis of the *Muhlenbergia repens* complex (Poaceae). Sida 17(2):349-365.  
 Peterson, P.M. & C.R. Annable. 1990. A revision of *Blepharoneuron* (Poaceae: Eragrostideae). Syst. Bot. 15(4):515-525.  
 Peterson, P.M. & C.R. Annable. 1991. Systematics of the annual species of *Muhlenbergia* (Poaceae-Eragrostideae). Syst. Bot. Monogr. 31:1-109.  
 Peterson, P.M., K. Romaschenko, & G. Johnson. 2010. A phylogeny and classification of the Muhlenbergiinae (Poaceae: Chloridoideae: Cynodonteae) based on plastid and nuclear DNA sequences. Amer. J. Bot. 97(9):1532-1554.  
 Pohl, R.W. 1969. *Muhlenbergia*, subgenus *Muhlenbergia* (Gramineae) in North America. Amer. Midl. Naturalist 82:512-542.

- Reeder, C.G. 1949. *Muhlenbergia minutissima* (Steudel) Swallen and its allies. J. Wash. Acad. Sci. 39:363-367.
- Reeder, C.G. & J.R. Reeder. 1995. The resurrection of a species; *Muhlenbergia straminea* (Gramineae). *Phytologia* 78(6):417-427.
- Soderstrom, T.R. 1967. Taxonomic study of subgenus *Podosemum* and section *Epicampes* of *Muhlenbergia* (Gramineae). *Contr. U.S. Natl. Herb.* 34:75-189.
- Swallen, J.R. 1947. The awnless annual species of *Muhlenbergia*. *Contrib. U.S. Nat. Her.* 29:203-208.
- acuminata* Vasey = *Muhlenbergia dubia* Fournier
- affinis* Trinius = *Muhlenbergia rigida* (Kunth) Trinius
- alopecuroides*** (Grisebach) Peterson & Columbus [Allred 2005; Reeder 1985]
- Lycurus alopecuroides* Grisebach
- Lycurus phleoides* Kunth var. *glaucifolius* Beal
- Pleopogon setosum* Nuttall
- Lycurus setosus* (Nuttall) C. Reeder
- ammophila* P.M. Peterson = *Redfieldia flexuosa* (Thurber ex A. Gray) Vasey
- andina*** (Nuttall) A.S. Hitchcock [Allred 2005; M&H; W&S]
- Calamagrostis andina* Nuttall
- Muhlenbergia comata* (Thurber) Bentham
- arenacea*** (Buckley) A.S. Hitchcock [Allred 2005; M&H; W&S]
- Sporobolus arenaceus* Buckley
- Sporobolus auriculatus* Vasey
- arenicola*** Buckley [Allred 2005; M&H; W&S]
- arizonica*** Scribner [Allred 2005]
- arseni*** A.S. Hitchcock [Allred 2005; M&H]
- asperifolia*** (Nees & Meyer ex Trinius) Parodi [Allred 2005; M&H; W&S]
- scratchgrass
- Sporobolus asperifolius* (Nees & Meyer ex Trinius) Nees
- Vilfa asperifolia* Nees & Meyer ex Trinius
- brevis*** C.O. Goodding [Allred 2005; M&H]
- \*capillaris (Lamarck) Trinius (pink muhly) : Grown as an ornamental landscape grass, not known to escape to the wild.
- comata* (Thurber) Bentham = *Muhlenbergia andina* (Nuttall) Hitchcock
- cuspidata*** (Torrey ex Hooker) Rydberg [Allred 2005; M&H; W&S]
- Vilfa cuspidata* Torrey ex Hooker
- depauperata*** Scribner [Allred 2005; M&H; W&S]
- sixweeks muhly
- Muhlenbergia schaffneri* Fournier
- Lycurus schaffneri* (Fournier) Mez
- dubia*** Fournier ex Hemsley [Allred 2005; M&H; W&S]
- Muhlenbergia acuminata* Vasey
- eludens*** C.G. Reeder [Allred 2005; Johnson 2002; M&H]
- emersleyi*** Vasey [Allred 2005; M&H; W&S]
- bullgrass
- filiculmis*** Vasey [Allred 2005; M&H]
- filiformis*** (Thurber ex S. Watson) Rydberg [Allred 2005; M&H]
- Vilfa depauperata* Torrey ex Hooker var. *filiformis* Thurber ex S. Watson
- fragilis*** Swallen [Allred 2005; M&H]
- geminiflora* (Kunth) P.M. Peterson = *Aegopogon tenellus* (A.P. de Candolle) Trinius
- glauca*** (Nees) B.D. Jackson [Allred 2005; M&H; W&S]
- Muhlenbergia lemmonii* Scribner
- Podosemum glaucum* Nees
- glomerata*** (Willdenow) Trinius [FNM I]
- Polypogon glomeratus* Willdenow
- gracillima* Torrey = *Muhlenbergia torreyi* (Kunth) Hitchcock
- lemmonii* Scribner = *Muhlenbergia glauca* (Nees) Mez
- longiligula*** A.S. Hitchcock [Allred 2005; M&H; W&S]
- Epicampes stricta* Presl
- metcalfei* M.E. Jones = *Muhlenbergia rigida* (Kunth) Trinius

- mexicana** (Linnaeus) Trinius [Allred 2005; M&H; W&S]  
*Agrostis filiformis* Torrey  
*Agrostis mexicana* Linnaeus  
*Muhlenbergia mexicana* (Linnaeus) Trinius var. *filiformis* (Torrey) Scribner  
*Muhlenbergia mexicana* (Linnaeus) Trinius forma *ambigua* (Torrey) Fernald  
*mexicana* (Linnaeus) Trinius forma *ambigua* (Torrey) Fernald = *Muhlenbergia mexicana*  
(Linnaeus) Trinius  
*mexicana* (Linnaeus) Trinius var. *filiformis* (Torrey) Scribner = *Muhlenbergia mexicana*  
(Linnaeus) Trinius
- minutissima** (Steudel) Swallen [Allred 2005; M&H; W&S]  
*Agrostis minutissima* Steudel  
*Sporobolus confusus* auctores
- montana** (Nuttall) A.S. Hitchcock [Allred 2005; M&H; W&S]  
mountain muhly  
*Calycodon montanum* Nuttall  
*Muhlenbergia subalpina* Vasey  
*Muhlenbergia trifida* Hackel
- monticola* Buckley = *Muhlenbergia tenuifolia* (Kunth) Trinius  
*mundula* I.M. Johnston = *Muhlenbergia rigens* (Benth) A.S. Hitchcock  
*neomexicana* Vasey = *Muhlenbergia pauciflora* Buckley
- paniculata** (Nuttall) P.M. Peterson [Allred 2005; M&H; W&S]  
tumblegrass  
*Lepturus paniculatus* Nuttall  
*Schedonardus paniculatus* (Nuttall) Trelease  
*parviglumis* Vasey = *Muhlenbergia spiciformis* Trinius
- pauciflora** Buckley [Allred 2005; M&H]  
New Mexico muhly  
*Muhlenbergia neomexicana* Vasey
- peruviana** (Beauvois) Steudel [Allred 2005]  
*Clomena peruviana* Beauvois  
*Muhlenbergia pulcherrima* Scribner
- phleoides** (Kunth) Columbus [Allred 2005; Reeder 1985; W&S]  
*Lycurus phleoides* Kunth
- polycaulis** Scribner [Allred 2005; M&H]
- porteri** Scribner ex Beal [Allred 2005; M&H; W&S]  
bush muhly  
*pulcherrima* Scribner = *Muhlenbergia peruviana* (Beauvois) Steudel
- pungens** Thurber ex Gray [Allred 2005; M&H; W&S]
- racemosa** (Michaux) Britton, Sterns, & Poggenburg [Allred 2005; M&H; W&S]  
green muhly  
*Agrostis racemosa* Michaux
- ramulosa** (Kunth) Swallen [Allred 2005; M&H]  
*Muhlenbergia wolfii* (Vasey) Rydberg  
*Vilfa ramulosa* Kunth
- repens** (Presl) Hitchcock [Allred 2005; M&H; W&S]  
*Sporobolus repens* Presl
- richardsonis** (Trinius) Rydberg [Allred 2005; M&H; W&S]  
*Muhlenbergia squarrosa* Rydberg  
*Vilfa richardsonis* Trinius
- rigens** (Benth) A.S. Hitchcock [Allred 2005; M&H; W&S]  
deergrass  
*Epicampes rigens* Benth  
*Muhlenbergia mundula* I.M. Johnston
- rigida** (Kunth) Trinius [Allred 2005; M&H; W&S]  
*Muhlenbergia affinis* Trinius  
*Muhlenbergia metcalfei* M.E. Jones  
*Podosemum rigida* Kunth
- schaffneri* Fournier = *Muhlenbergia depauperata* Scribner

- setifolia** Vasey [Allred 2005; M&H]  
**sinuosa** Swallen [Allred 2005; M&H]  
**spiciformis** Trinius [Allred 2005; M&H]  
*Muhlenbergia parviglumis* Vasey  
**squarrosa** (Trinius) Rydberg = *Muhlenbergia richardsonis* (Trinius) Rydberg  
**straminea** A.S. Hitchcock [Allred 2005; M&H; Reeder & Reeder 1995; W&S]  
*Muhlenbergia virescens* of NM works, not (Kunth) Trinius  
**subalpina** Vasey = *Muhlenbergia montana* (Nuttall) Hitchcock  
**sylvatica** Torrey : Reported as expected by M&H; awaits verification.  
**tenuifolia** (Kunth) Trinius [Allred 2005; M&H; W&S]  
*Calamagrostis tenuifolia* Kunth  
*Muhlenbergia monticola* Buckley  
**texana** Buckley [Allred 2005; M&H]  
**thurberi** (Scribner) Rydberg [Allred 2005; M&H; W&S]  
*Sporobolus thurberi* Scribner  
**torreyi** (Kunth) A.S. Hitchcock ex Bush [Allred 2005; M&H; W&S]  
 ring muhly  
*Agrostis torreyi* Kunth  
*Muhlenbergia gracillima* Torrey  
**tricholepis** (Torrey) Columbus [Allred 2005; M&H; W&S]  
*Blepharoneuron tricholepis* (Torrey) Nash  
*Vilfa tricholepis* Torrey  
**trifida** Hackel = *Muhlenbergia montana* (Nuttall) Hitchcock  
**utilis** (Torrey) Hitchcock : Reported by M&H, but no validating specimens located  
 [Morden & Hatch 1996].  
**villiflora** Hitchcock var. **villosa** (Swallen) Morden [Allred 2005; Hatch 1977; M&H]  
*Muhlenbergia villosa* Swallen  
**villosa** Swallen = *Muhlenbergia villiflora* Hitchcock var. **villosa** (Swallen) Morden  
**virescens** of NM works = *Muhlenbergia straminea* A.S. Hitchcock  
**wolfii** (Vasey) Rydberg = *Muhlenbergia ramulosa* (Kunth) Swallen  
**wrightii** Vasey ex Coulter [Allred 2005; M&H; W&S]

### **Munroa**

- Amarilla, L.D., J.O. Chiapella, N. Nagahama, & A.M. Anton. 2013. Inclusion of *Dasyochloa* in the  
 amphitropical genus *Munroa* (Poaceae, Chloridoideae) based on morphological evidence.  
 Darwiniana (new series) 1(2): 241-252.  
 Anton, A.M & A.T. Hunziker. 1978. El genero *Munroa* (Poaceae): Sinopsis morfologica y taxonomica. Bol.  
 Acad. Nac. Ci. 52:229-252.  
 Caro, J.A. 1981. Rehabilitación del género *Dasyochloa* (Gramineae). Dominguezia 2:1-17.  
 Sánchez, E. 1984. Estudios anatómicos en el género *Munroa* (Poaceae, Chloridoideae, Eragrostideae).  
 Darwiniana 25:43-57.  
 Valdés-R., J. & S.L. Hatch. 1995. Anatomical study of *Erioneuron* and *Dasyochloa* (Poaceae:  
 Chloridoideae: Eragrostideae) in North America. Sida 16(3):413-426.  
 Valdés-R. & S.L. Hatch. 1997. A revision of *Erioneuron* and *Dasyochloa* (Poaceae: Eragrostideae). Sida  
 17(4):645-666.

- pulchella** (Kunth) L.D. Amarilla [Allred 2005; M&H; W&S]  
 fluffgrass  
*Dasyochloa pulchella* (Kunth) Willdenow ex Rydberg  
*Erioneuron pulchellum* (Kunth) Tateoka  
*Tridens pulchellus* (Kunth) Hitchcock  
*Triodia pulchella* Kunth  
**squarrosa** (Nuttall) Torrey [Allred 2005; M&H; W&S]  
 false buffalograss  
*Crypsis squarrosa* Nuttall  
*Munroa squarrosa* (Nuttall) Torrey var. **floccuosa** Vasey ex Beal  
**squarrosa** (Nuttall) Torrey var. **floccuosa** Vasey ex Beal = *Munroa squarrosa* (Nuttall)  
 Torrey

### **Nassella** needlegrass

- Barkworth, M.W. 1990. *Nassella* (Gramineae, Stipeae): Revised interpretation and nomenclatural changes.  
 Taxon 39(4):597-614.

- Barkworth, M.E. 1993. North American Stipeae (Gramineae): Taxonomic changes and other comments. *Phytologia* 74(1):1-25.
- Barkworth, M.E. & M.A. Torres. 2001. Distribution and diagnostic characters of *Nassella* (Poaceae: Stipeae). *Taxon* 50:439-468.
- Reeder, J.R. 1994. *Stipa tenuissima* (Gramineae) in Arizona – a comedy of errors. *Madroño* 41:328-329
- Romaschenko, K., P.M. Peterson, R.J. Soreng, N. Garcia-Jacas, O. Futorna, & A. Susanna. 2012. Systematics and evolution of the needle grasses (Poaceae: Pooideae: Stipeae) based on analysis of multiple chloroplast loci, ITS, and lemma micromorphology. *Taxon* 61(1):18-44.
- Thomasson, J.R. 1981. Micromorphology of the lemma in *Stipa robusta* and *Stipa viridula* (Gramineae: Stipeae): taxonomic significance. *Southw. Natural.* 26(2):211-214.
- tenuissima* (Trinius) Barkworth** [Allred 2005; M&H; W&S]  
Mexican feathergrass  
*Stipa tenuissima* Trinius
- viridula* (Trinius) Barkworth** [Allred 2005; M&H; W&S]  
*Stipa viridula* Trinius
- Nazia aliena* auctores = *Tragus berteronianus* Schultes
- Neeragrostis* (*Eragrostis*) *repans* (Michaux) Nicora : Reported by Hatch (1980), but a check of the specimen (*Sopyn s.n.*, TAES) showed it to be *Eragrostis hypnoides* (Lamarck) Britton, Sterns, & Poggenburg
- Oryzopsis*** ricegrass
- Barkworth, M.E. 1982. Embryological characters and the taxonomy of the Stipeae (Gramineae). *Taxon* 31(2):233-243.
- Barkworth, M.E. 1993. North American Stipeae (Gramineae): Taxonomic changes and other comments. *Phytologia* 74(1):1-25.
- Johnson, B.L. 1945. Natural hybrids between *Oryzopsis hymenoides* and several species of *Stipa*. *Amer. J. Bot.* 32:599-608.
- Romaschenko, K., P.M. Peterson, R.J. Soreng, N. Garcia-Jacas, O. Futorna, & A. Susanna. 2012. Systematics and evolution of the needle grasses (Poaceae: Pooideae: Stipeae) based on analysis of multiple chloroplast loci, ITS, and lemma micromorphology. *Taxon* 61(1):18-44.
- asperifolia* Michaux** [Allred 2005; M&H; W&S]  
*bloomeri* (Bolander) Ricker = *Eriocoma bloomeri* (Bolander) Romaschenko  
*fimbriata* Hemsley = *Piptochaetium fimbriatum* (Kunth) A.S. Hitchcock  
*hymenoides* (Roemer & Schultes) Ricker ex Piper = *Eriocoma hymenoides* (Roemer & J.A. Schultes) Rydberg  
*micrantha* (Trinius & Ruprecht) Thurber = *Piptatheropsis micrantha* (Trinius & Ruprecht) Romaschenko, Peterson, & Soreng  
*pungens* (Torrey in Sprengel) A.S. Hitchcock = *Piptatheropsis pungens* (Torrey in Sprengel) Romaschenko, Peterson, & Soreng
- Panicularia borealis* Nash = *Glyceria borealis* (Nash) Batchelder  
*elata* Nash ex Rydberg = *Glyceria elata* (Nash ex Rydberg) M.E. Jones  
*grandis* (S. Watson) Nash = *Glyceria grandis* S. Watson  
*nerata* (Willdenow) Kuntze = *Glyceria striata* (Lamarck) Hitchcock  
*nerata* (Willdenow) Kuntze var. *elata* (Nash ex Rydberg) Piper = *Glyceria elata* (Nash ex Rydberg) M.E. Jones
- Panicum*** panicum
- Aliscioni, S.S., L.M. Giussani, F.O. Zuloaga, & E.A. Kellogg. 2003. A molecular phylogeny of *Panicum* (Poaceae: Paniceae): tests of monophyly and phylogenetic placement within the Panicoideae. *Amer. J. Bot.* 90:796-821.
- Allred, K.W. 2003. Plant distribution reports. *The New Mexico Botanist* 28:8. [*Panicum alatum*]
- Bess, E.C., A.N. Doust, G. Davidse, & E.A. Kellogg. 2006. *Zuloagaea*, a new genus of neotropical grass within the "bristle clade" (Poaceae: Paniceae). *Syst. Bot.* 31(4):656-670. [*Zuloagaea bulbosum*]
- Bough, M., J.C. Colosi, & P.B. Cavers. 1986. The major weedy biotypes of proso millet (*Panicum miliaceum*) in Canada. *Can. J. Bot.* 64:1188-1198.
- Clark, C.A. & F.W. Gould. 1975. Some epidermal characteristics of paleas of *Dichanthelium*, *Panicum*, and *Echinochloa*. *Amer. J. Bot.* 62:743-748.
- Fairbrothers, D.E. 1953. Relationships in the *Capillaria* group of *Panicum* in Arizona and New Mexico. *Amer. J. Bot.* 40:708-714.
- McGregor, R.L. 1984. *Panicum capillare* L. var. *occidentale* Rydberg (Poaceae): an illegitimate name. *Contr. Univ. Kansas Herb.* No. 10.
- McGregor, R.L. 1984. *Panicum capillare* L. var. *barbipulvinatum* (Nash) comb. nov. *Phytologia* 55:256.
- McGregor, R.L. 1985. *Panicum hillmanii* Chase (Poaceae): validity and distribution. *Contr. Univ. Kansas Herb.* No. 13.
- Morrone, O. & F.O. Zuloaga. 1993. Sinopsis del genero *Urochloa* (Poaceae: Panicoideae: Paniceae) para Mexico y America Central. *Darwiniana* 32:59-75.

- Reeder, J.R. 1991. A new species of *Panicum* (Gramineae) from Arizona. *Phytologia* 71:300-303.  
 [*Panicum mojavnense*]
- Spellenberg, R.S., D. Anderson, & R. Brozka. 1993. Noteworthy Collections: New Mexico. *Madroño* 40:136-138. [*Panicum mojavnense*]
- Zuloaga, F.O., R.P. Ellis, & O. Morrone. 1993. A revision of *Panicum* subg. *Dichantherium* sect. *Dichantherium* (Poaceae: Panicoideae: Paniceae) in Mesoamerica, the West Indies, and South America. *Ann. Missouri Bot. Gard.* 80:119-190.
- Zuloaga, F.O. & O. Morrone. 1996. Revision de las especies Americanas de *Panicum* subgenero *Panicum* seccion *Panicum* (Poaceae: Panicoideae: Paniceae). *Ann. Missouri Bot. Gard.* 83:200-280.  
 [*Panicum alatum*]
- Webster, R.D. 1988. Genera of the North American Paniceae (Poaceae: Panicoideae). *Syst. Bot.* 13(4):576-609.
- acuminatum* Swartz = *Dichantherium acuminatum* (Swartz) Gould & Clark var. *acuminatum*
- adhaerans* Forsskål = *Setaria adhaerens* (Forsskål) Chiovenda
- alatum* F. Zuloaga & O. Morrone var. *alatum* [Allred 2003]
- alatum* F. Zuloaga & O. Morrone var. *minus* (Andersson) Zuloaga & Morrone  
 [Zuloaga & Morrone 1996]  
*Panicum hirticaule* Presl var. *minus* Andersson
- \**amarum* Elliott [Allred 2005]
- \**antidotale* Retzius [Allred 2005]  
 blue panicum
- arizonicum* Scribner & Merrill = *Urochloa arizonica* (Scribner & Merrill) Morrone & Zuloaga
- autumnale* Bosc ex Sprengel var. *pubiflorum* Vasey = *Leptoloma pubiflorum* (Vasey) Wipff & Shaw
- barbipulvinatum* Nash = *Panicum capillare* Linnaeus subsp. *capillare*
- bulbosum* Kunth = *Zuloagaea bulbosa* (Kunth) Bess
- bulbosum* Kunth var. *minus* Vasey = *Zuloagaea bulbosa* (Kunth) Bess
- bulbosum* Kunth var. *sciaphilum* (Ruprecht) Hitchcock & Chase = *Zuloagaea bulbosa* (Kunth) Bess
- californicum* Bentham = *Trichachne californica* (Bentham) Chase
- capillare* Linnaeus var. *barbipulvinatum* (Nash) McGregor = *Panicum capillare* Linnaeus subsp. *capillare*
- capillare* Linnaeus subsp. *capillare* [Allred 2005; M&H; W&S]  
 witchgrass  
*Panicum barbipulvinatum* Nash  
*Panicum capillare* Linnaeus var. *barbipulvinatum* (Nash) McGregor  
*Panicum capillare* Linnaeus var. *brevifolium* Rydberg & Shear  
*Panicum capillare* var. *occidentale* Rydberg
- capillare* Linnaeus subsp. *hillmanii* (Chase) Freckman & Lelong [Allred 2005]  
 witchgrass  
*Panicum hillmanii* Chase
- capillare* Linnaeus var. *occidentale* Rydberg = *Panicum capillare* Linnaeus subsp. *capillare*
- capillare* Linnaeus var. *pampinosum* (A.S. Hitchcock & Chase) Gould = *Panicum hirticaule* Presl var. *pampinosum* (A.S. Hitchcock & Chase) Beetle
- ciliaris* Retzius = *Digitaria ciliaris* (Retzius) Koeler
- ciliatissimum* Buckley = *Urochloa ciliatissima* (Buckley) R.D. Webster
- colonom* Linnaeus = *Echinochloa colonom* (Linnaeus) Link
- \**coloratum* Linnaeus [Allred 2005]  
 Kleingrass
- crusgalli* Linnaeus = *Echinochloa crusgalli* (Linnaeus) Beauvois
- dactylon* Linnaeus = *Cynodon dactylon* (Linnaeus) Persoon
- \**dichotomiflorum* Michaux [Allred 2005; M&H; W&S]
- fasciculatum* Swartz var. *reticulatum* (Torrey) Beal = *Urochloa fusca* (Swartz) Hansen & Wunderlin
- filipes* Scribner = *Panicum hallii* Vasey var. *filipes* (Scribner) Waller
- fuscum* Swartz = *Urochloa fusca* (Swartz) Hansen & Wunderlin
- hallii* Vasey var. *filipes* (Scribner) Waller [Allred 2005]  
*Panicum filipes* Scribner

**hallii** Vasey var. **hallii** Vasey [Allred 2005; M&H; W&S]

**havardii** Vasey [Allred 2005; W&S]

*Panicum virgatum* Linnaeus var. *macranthum* Vasey

**helleri** Nash = *Dichanthelium oligosanthes* (Schultes) Gould var. *scribnerianum* (Nash) Gould

**hians** Elliott = *Steinchisma hians* (Elliott) Nash

**hillmanii** Chase = *Panicum capillare* Linnaeus subsp. *hillmanii* (Chase) Freckman & Lelong

**hirticaule** Presl var. **hirticaule** [Allred 2005; M&H; W&S]

Mexican witchgrass

**hirticaule** Presl var. **minus** Andersson = *Panicum alatum* F. Zuloaga & O. Morrone var. *minus* (Andersson) Zuloaga & Morrone

**hirticaule** Presl var. **pampinosum** (A.S. Hitchcock & Chase) Beetle [Zuloaga & Morrone 1996]

Mexican witchgrass

*Panicum capillare* Linnaeus var. *pampinosum* (A.S. Hitchcock & Chase) Gould

*Panicum pampinosum* A.S. Hitchcock & Chase

**hirticaule** Presl var. **stramineum** (A.S. Hitchcock & Chase) Beetle = *Panicum stramineum* A.S. Hitchcock & Chase

**hirticaule** Presl var. **verrucosum** Zuloaga & Morrone [FNM I]

Mexican witchgrass

**huachucae** Ashe var. **fasciculatum** (Torrey) F.T. Hubbard = *Dichanthelium acuminatum* (Swartz) Gould & Clark var. *acuminatum*

**huachucae** Ashe var. **huachecae** = *Dichanthelium acuminatum* (Swartz) Gould & Clark var. *acuminatum*

**ischaemum** Schreber = *Digitaria ischaemum* (Schreber) Schreber ex Muhlenberg

**italicum** Linnaeus = *Setaria italica* (Linnaeus) Beauvois

**lanuginosum** Elliott = *Dichanthelium acuminatum* (Swartz) Gould & Clark var. *acuminatum*

**lanuginosum** Elliott var. **lindheimeri** (Nash) Fernald = *Dichanthelium acuminatum* (Swartz) Gould & Clark var. *acuminatum*

**lepidulum** A.S. Hitchcock & Chase : Reported by Allred (1993) and M&H, but the specimen in question is corrected to *Panicum hallii* Vasey

**lindheimeri** Nash = *Dichanthelium acuminatum* (Swartz) Gould & Clark var. *acuminatum*

**linearifolium** of earlier NM works = *Dichanthelium perlongum* (Nash) Freckmann

**\*miliaceum** Linnaeus subsp. **miliaceum** [Allred 2005; M&H; W&S]

broomcorn millet

**\*miliaceum** Linnaeus subsp. **rudemale** (M. Kitagawa) Tzvelev [FNM I]

broomcorn millet

*Panicum miliaceum* Linnaeus var. *rudemale* M. Kitagawa

*miliaceum* Linnaeus var. *rudemale* M. Kitagawa = *Panicum miliaceum* Linnaeus subsp. *rudemale* (M. Kitagawa) Tzvelev

**mohavense** Reeder [Spellenberg et al. 1993; Reeder 1991]

**napaliense** Davidsz : Reported by Kartesz (1999) without documentation; awaiting verification.

**obtusum** Kunth = *Hopia obtusa* (Kunth) Zuloaga & Morrone

**oligosanthes** Schultes var. **helleri** (Nash) Fernald = *Dichanthelium oligosanthes* (Schultes) Gould var. *scribnerianum* (Nash) Gould

**oligosanthes** Schultes var. **scribnerianum** (Nash) Fernald = *Dichanthelium oligosanthes* (Schultes) Gould var. *scribnerianum* (Nash) Gould

**pampinosum** A.S. Hitchcock & Chase = *Panicum hirticaule* Presl var. *pampinosum* (A.S. Hitchcock & Chase) Beetle

**perlongum** Nash = *Dichanthelium perlongum* (Nash) Freckmann

**plenum** A.S. Hitchcock & Chase = *Zuloagaea bulbosa* (Kunth) Bess

**pumilum** Poiret = *Setaria pumila* (Poiret) Roemer & Schultes

**ramisetum** Scribner = *Setaria reverchonii* (Vasey) Pilger subsp. *ramiseta* (Scribner) W.E. Fox

**sanguinale** Linnaeus = *Digitaria sanguinalis* (Linnaeus) Scopoli

**scribnerianum** Nash = *Dichanthelium oligosanthes* (Schultes) Gould var. *scribnerianum* (Nash) Gould

*stramineum* A.S. Hitchcock & Chase : Reported by Allred (1993), but no validating specimens have been located (Allred 2005); Zuloaga & Morrone (1996) do not include NM in their distribution.

*Panicum hirticaule* Presl var. *stramineum* (A.S. Hitchcock & Chase) Beetle  
*tennesseense* Ashe = *Dichanthelium acuminatum* (Swartz) Gould & Clark var. *acuminatum*  
*texanum* Buckley = *Urochloa texana* (Buckley) R.D. Webster

***virgatum*** Linnaeus [Allred 2005; M&H; W&S]

switchgrass

*virgatum* Linnaeus var. *macranthum* Vasey = *Panicum havardii* Vasey

*verticillatum* Linnaeus = *Setaria verticillata* (Linnaeus) Beauvois

*viride* Linnaeus = *Setaria viridis* (Linnaeus) Beauvois

*wilcoxianum* Vasey = *Dichanthelium wilcoxianum* (Vasey) Freckmann

**Pappophorum** pappusgrass

Chase, A. 1946. *Enneapogon desvauxii* and *Pappophorum wrightii*, an agrostological detective story. *Madroño* 8:187-189.

Reeder, J.R. & L.J. Toolin. 1989. Notes on *Pappophorum* (Gramineae: Pappophoreae). *Syst. Bot.* 14(3):349-358.

*bicolor* Fournier : Reported as expected by M&H; awaits verification.

*mucronulatum* of numerous North American authors = *Pappophorum vaginatum* Buckley

***vaginatum*** Buckley [Allred 2005; M&H]

*Panicum mucronulatum* of numerous North American authors

*wrightii* S. Watson = *Enneapogon desvauxii* Beauvois

**Pappostipa**

Allred, K.W. & K. Heil. 2000. New plant distribution records. *The New Mexico Botanist* 15:7. [*Stipa speciosa*]

Cialdella, A.M., L.M. Giussani, L. Aagesen, F.O. Zuloaga, & O. Morrone. 2007. A phylogeny of *Pipochaetium* (Poaceae: Poideae: Stipeae) and related genera based on a combined analysis including *trnL-F*, *rpl16*, and morphology. *Syst. Bot.* 32(3):545-559.

Peñailillo, P. 2002. El genero *Jarava* Ruiz et Pavon (Stipeae-Poaceae): Delimitacion y nuevas combinaciones. *Gayana Botanica* 59:27-34.

Jacobs, S.W.L., R. Bayer, J. Everett, M.O. Arriaga, M.E. Barkworth, A. Sabin-Badereau, M.A. Torres, F. Vazquez, & N. Bagnall. 2006. Systematics of the tribe Stipeae using molecular data. *Aliso* 23:349-361.

Romaschenko K, Peterson PM, Soreng RJ, Garcia-Jacas N, Futorna O, Susanna A. 2008. Molecular phylogenetic analysis of the American Stipeae (Poaceae) resolves *Jarava* sensu lato polyphyletic: evidence for a new genus, *Pappostipa*. *Journal of the Botanical Research Institute of Texas* 2: 165–192.

Romaschenko, K., P.M. Peterson, R.J. Soreng, N. Garcia-Jacas, O. Futorna, & A. Susanna. 2012. Systematics and evolution of the needle grasses (Poaceae: Pooideae: Stipeae) based on analysis of multiple chloroplast loci, ITS, and lemma micromorphology. *Taxon* 61(1):18-44.

***speciosa*** (Trinius & Ruprecht) Romaschenko [Allred & Heil 2000; M&H; W&S]

*Achnatherum speciosum* (Trinius & Ruprecht) Barkworth

*Jarava speciosa* (Trinius & Ruprecht) Peñailillo

*Stipa speciosa* Trinius & Ruprecht

**Pascopyrum**

Barkworth, M.E. & D.R. Dewey. 1985. Genomically based genera in the perennial Triticeae of North America: identification and membership. *Amer. J. Bot.* 72:767-776.

Baum, B.R., J.R. Estes, & P.K. Gupta. 1987. Assessment of the genomic system of classification in the Triticeae. *Amer. J. Bot.* 74:1388-1395.

Dewey, D.R. 1975. The origin of *Agropyron smithii*. *Amer. J. Bot.* 62:524-530.

Dewey, D.R. 1983. Historical and current taxonomic perspectives of *Agropyron*, *Elymus*, and related genera. *Crop Sci.* 23:637-642.

Estes, J.R. & R.J. Tylr. 1982. The generic concept and generic circumscription in the Triticeae: an end paper. IN J.R. Estes, R.J. Tylr, & J.N. Brunken (eds.), *Grasses and Grasslands*. p. 145-164. Univ. Oklahoma Press. Norman, Oklahoma.

Melderis, A. 1978. Taxonomic notes on the tribe Triticeae (Gramineae), with special reference to the genera *Elymus* L. sensu lato, and *Agropyron* Gaertner sensu lato. *Bot. J. Linn. Soc.* 76:369-384.

Runemark, H. & W.K. Heneen. 1968. *Elymus* and *Agropyron*, a problem of generic delimitation. *Bot. Notiser* 121:51-79.

***smithii*** (Rydberg) Barkworth & Dewey [Allred 2005; M&H; W&S]

western wheatgrass

*Agropyron molle* (Scribner & Smith) Rydberg

*Agropyron occidentale* Scribner

*Agropyron palmeri* (Scribner & Smith) Rydberg



*Agropyron smithii* Rydberg  
*Agropyron smithii* Rydberg var. *molle* (Scribner & Smith) M.E. Jones  
*Agropyron smithii* Rydberg var. *palmeri* (Scribner & Smith) Heller  
*Elymus smithii* (Rydberg) Gould  
*Elytrigia smithii* (Rydberg) Nevski

***Paspalum*** paspalum

Allred, K.W. 1982. *Paspalum distichum* L. var. *indutum* Shinnery (Poaceae). Great Basin Naturalist 42:101-104.

Banks, D.J. 1966. Taxonomy of *Paspalum setaceum* (Gramineae). Sida 2:269-284.

Chase, A. 1929. The North American species of *Paspalum*. Contr. U.S. Nat. Herb. 28:1-310.

Committee on Nomenclature, IAPT. 1983. Report on Proposal 528, to reject the name *Paspalum distichum* L.: proposal rejected, the traditional usage of the name may be retained. Taxon 32(2):281.

Fosberg, F.R. 1977. *Paspalum distichum* again. Taxon 26:201-202.

Guedes, M. 1976. The case for *Paspalum distichum* and against futile name-changes. Taxon 25:512-513.

*bushii* Nash = *Paspalum setaceum* Michaux var. *stramineum* (Nash) Banks

*ciliatifolium* Michaux = *Paspalum setaceum* Michaux var. *ciliatifolium* (Michaux) Vasey

*ciliatifolium* Michaux var. *stramineum* (Nash) Fernald = *Paspalum setaceum* Michaux var.

*stramineum* (Nash) Banks

\**dilatatum* Poirlet [Allred 2005; M&H]

dallisgrass

***distichum*** Linnaeus [Allred 1982, 1993; M&H; W&S]

*Paspalum distichum* var. *indutum* Shinnery

*distichum* var. *indutum* Shinnery = *Paspalum distichum* Linnaeus

***setaceum*** Michaux var. ***ciliatifolium*** (Michaux) Vasey [Allred 2005; M&H; W&S]

*Paspalum ciliatifolium* Michaux

***setaceum*** Michaux var. ***stramineum*** (Nash) Banks [Allred 2005; M&H; W&S]

*Paspalum bushii* Nash

*Paspalum ciliatifolium* Michaux var. *stramineum* (Nash) Fernald

*Paspalum stramineum* Nash

*stramineum* Nash = *Paspalum setaceum* Michaux var. *stramineum* (Nash) Banks

\**vaginatum* Swartz (seashore paspalum) : Included by Allred (2005) only as an ornamental lawn grass and not known to escape.

***Pennisetum*** millet

Allred, K.W. 2007. Plant distribution reports [*Pennisetum villosum*]. The New Mexico Botanist 37:7.

Allred, K.W. 2008. Plant distribution reports [*Pennisetum setaceum*]. The New Mexico Botanist 43:7.

Chemisquy, M.A., L.M. Giussani, M.A. Scatagli, E.A. Kellogg, & O. Morrone. 2010. Phylogenetic studies favour the unification of *Pennisetum*, *Cenchrus* and *Odonelytrum* (Poaceae): a combined nuclear, plastid and morphological analysis, and nomenclatural combinations in *Cenchrus*. Ann. Bot. 106:107-130.

Wipff, J.K. & J.F. Veldkamp. 1999. *Pennisetum advena* sp. nov. (Poaceae: Paniceae): A common ornamental grass throughout the southern United States. Sida 18(4):1031-1036.

\**advena* Wipff & Veldkamp (purple fountaingrass) : Cultivated as an ornamental landscape grass and not yet known as an escape.

*Cenchrus advena* (Wipff & Veldkamp) Morrone

\****ciliare*** (Linnaeus) Link [Allred 2005]

buffelgrass

*Cenchrus ciliaris* Linnaeus

\****setaceum*** (Forsskål) Chiovenda [Allred 2008]

fountaingrass

*Cenchrus setaceus* (Forsskål) Morrone

*Phalaris setacea* Forsskål

\****villosum*** R. Brown ex Fresenius [Allred 2007]

fountaingrass

*Cenchrus longisetus* M.C. Johnston

***Phalaris*** canarygrass

Anderson, D.E. 1961. Taxonomy and distribution of the genus *Phalaris*. Iowa State J. Sci. 36:1-96.

Baldini, R.M. 1995. Revision of the genus *Phalaris* L. (Gramineae). Webbia 49(2):265-329.

\****angusta*** Nees ex Trinius [Allred 2005]

***arundinacea*** Linnaeus [Allred 2005; M&H; W&S]

reed canarygrass

*Phalaroides arundinacea* (Linnaeus) Rauschert

\**canariensis* Linnaeus [Allred 2005; M&H]

*caroliniana* Walter [Allred 2005; M&H; W&S]

\**minor* Retzius [Allred 2005]

*oryzoides* Linnaeus = *Leersia oryzoides* (Linnaeus) Swartz

*setacea* Forsskål = *Pennisetum setaceum* (Forsskål) Chiovenda

*Phalaroides arundinacea* (Linnaeus) Rauschert = *Phalaris arundinacea* Linnaeus

**Phleum** Timothy

Humphries, C.J. 1978. Notes on the genus *Phleum*. Bot. J. Linn. Soc. 76:337-340.

Joachimiak, A. & A. Kula. 1996. Karyosystematics of the *Phleum alpinum* polyploid complex. Plant Syst. Evol. 203:11-25.

Kula, A., B. Dudziak, E. Sliwinska, A. Grabowska-Joachimiak, A. Stewart, H. Golczyk, & A.J. Joachimiak. 2006. Cytomorphological studies on Americana nd European *Phleum commutatum* Gaud. (Poaceae). Acta Biol. Cracov., Ser. Bot. 48:99-108.

Piper, C.V. & K.S. Bort. 1915. The early agricultural history of Timothy. J. Amer. Soc. Agron. 7(1):1-14.

*alopecuroides* Piller & Mitterpacher = *Sporobolus alopecuroides* (Piller & Mitterpacher)

P.M. Peterson

**alpinum** Linnaeus [Allred 2005; M&H; W&S]

*Phleum commutatum* Gaudin

*Phleum alpinum* Linnaeus subsp. *commutatum* (Gaudin) Richter

*alpinum* Linnaeus subsp. *commutatum* (Gaudin) Richter = *Phleum alpinum* Linnaeus

*commutatum* Gaudin = *Phleum alpinum* Linnaeus

\**pratense* Linnaeus [Allred 2005; M&H; W&S]

*schoenoides* Linnaeus = *Sporobolus schoenoides* (Linnaeus) P.M. Peterson

**Phragmites** common reed

Clayton, W.D. 1968. The correct name for the common reed. Taxon 17:168-169.

Fernald, M.L. 1932. *Phragmites communis* Trinius var. *berlandieri* (Fournier) comb. nov. Rhodora 34:211-212.

Haines, A. 2010. *Phragmites americanus*, comb. et stat. nov. Stantec, Botanical Notes 13(add.):1.

Lambert, A., K. Saltonstall, R. Long, & T. Dudley. 2016. Biogeography of *Phragmites australis* lineages in the southwestern United States. Biological Invasions 18(9): 2597-2617.

Saltonstall, K., P.M. Peterson, & R.J. Soreng. 2004. Recognition of *Phragmites australis* subsp. *americanus* (Poaceae: Arundinoideae) in North America: Evidence from morphological and genetic analyses. Sida 21(2):683-692.

Saltonstall, K., & D. Hauber. 2007. Notes on *Phragmites australis* (Poaceae: Arundinoideae) in North America. J. Bot. Res. Inst. Texas 1(1): 385-388.

Saltonstall, K., H.E. Castillo, & B. Blosssey. 2014. Confirmed field hybridization of native and introduced *Phragmites australis* (Poaceae) in North America. Amer. J. Bot. 101(1): 1-5.

Saltonstall, K. & L.A. Meyerson. 2016. *Phragmites australis*: From genes to ecosystems. Biological Invasions 18: 2415-2420.

*americanus* (Saltonstall, Peterson & Soreng) A. Haines = *Phragmites australis* (Cavanilles)

Trinius ex Steudel subsp. *americanus* Saltonstall, Peterson & Soreng

**australis** (Cavanilles) Trinius ex Steudel subsp. **americanus** Saltonstall, Peterson

& Soreng [Saltonstall et al. 2004]

*Phragmites americanus* (Saltonstall, Peterson & Soreng) A. Haines

*Phragmites communis* Trinius p.p.

*Phragmites phragmites* (Linnaeus) Karsten p.p.

\***australis** (Cavanilles) Trinius ex Steudel subsp. **australis** [Saltonstall et al. 2004]

*Arundo australis* Cavanilles

*Phragmites communis* Trinius p.p.

*Phragmites karka* (Retzius) Trinius ex Steudel

*Phragmites phragmites* (Linnaeus) Karsten p.p.

**australis** (Cavanilles) Trinius ex Steudel var. **berlandieri** (Fournier) Reed [Allred 2005; M&H; Saltonstall et al. 2004; W&S]

*Phragmites berlandieri* Fournier

*Phragmites communis* Trinius p.p.

*Phragmites phragmites* (Linnaeus) Karsten p.p.

*berlandieri* Fournier = *Phragmites australis* (Cavanilles) Trinius ex Steudel var. *berlandieri* (Fournier) Reed

*communis* of NM authors = *Phragmites australis* (Cavanilles) Trinius ex Steudel

*karka* (Retzius) Trinius ex Steudel = *Phragmites australis* (Cavanilles) Trinius ex Steudel

*phragmites* of NM authors = *Phragmites australis* (Cavanilles) Trinius ex Steudel

- \**Phyllostachys aurea* Carr ex A. & C. Rivière (golden bamboo) : Included by Allred (2005) only as an ornamental and not known to escape.
- Piptatheropsis** ricegrass  
 Hartman, R.L., B. Reif, B.E. Nelson, & B. Jacobs. 2006. New vascular plant records for New Mexico. *Sida* 22(2):1225-1233. [*Piptatherum pungens*]  
 Jacobs, S.W.L., R. Bayer, J. Everett, M.O. Arriaga, M.E. Barkworth, A. Sabin-Badereau, M.A. Torres, F. Vazquez, & N. Bagnall. 2006. Systematics of the tribe Stipeae using molecular data. *Aliso* 23:349-361.  
 Romaschenko, K., P.M. Peterson, R.J. Soreng, O. Futorna, & A. Susanna. 2011. Phylogenetics of *Piptatherum* s.l. (Poaceae: Stipeae): Evidence for a new genus, *Piptatheropsis*, and resurrection of *Patis*. *Taxon* 60(6):1703-1716.
- micrantha** (Trinius & Ruprecht) Romaschenko, Peterson, & Soreng [Allred 2005; M&H; W&S]  
*Oryzopsis micrantha* (Trinius & Ruprecht) Thurber  
*Piptatherum micranthum* (Trinius & Ruprecht) Barkworth  
*Urachne micrantha* Trinius & Ruprecht
- pungens** (Torrey in Sprengel) Romaschenko, Peterson, & Soreng [Hartman 2003; Hartman et al. 2006]  
*Milium pungens* Torrey in Sprengel  
*Oryzopsis pungens* (Torrey in Sprengel) A.S. Hitchcock  
*Piptatherum pungens* (Torrey in Sprengel) Dorn
- Piptatherum acuminatum* Presl = *Eriochloa acuminata* (Presl) Kunth var. *acuminata*  
*micranthum* (Trinius & Ruprecht) Barkworth = *Piptatheropsis micrantha* (Trinius & Ruprecht) Romaschenko, Peterson, & Soreng  
*pungens* (Torrey in Sprengel) Dorn = *Piptatheropsis pungens* (Torrey in Sprengel) Romaschenko, Peterson, & Soreng
- Piptochaetium** ricegrass  
 Barkworth, M.E. 1993. North American Stipeae (Gramineae): Taxonomic changes and other comments. *Phytologia* 74(1):1-25.  
 Cialdella, A.M., L.M. Giussani, L. Aagesen, F.O. Zuloaga, & O. Morrone. 2007. A phylogeny of *Piptochaetium* (Poaceae: Poideae: Stipeae) and related genera based on a combined analysis including *trnL-F*, *rpl16*, and morphology. *Syst. Bot.* 32(3):545-559.  
 Jacobs, S.W.L., R. Bayer, J. Everett, M.O. Arriaga, M.E. Barkworth, A. Sabin-Badereau, M.A. Torres, F. Vazquez, & N. Bagnall. 2006. Systematics of the tribe Stipeae using molecular data. *Aliso* 23:349-361.  
 Romaschenko, K., P.M. Peterson, R.J. Soreng, N. Garcia-Jacas, O. Futorna, & A. Susanna. 2012. Systematics and evolution of the needle grasses (Poaceae: Pooideae: Stipeae) based on analysis of multiple chloroplast loci, ITS, and lemma micromorphology. *Taxon* 61(1):18-44.
- fimbriatum** (Kunth) Hitchcock [Allred 2005; M&H; W&S]  
 piñon ricegrass  
*Oryzopsis fimbriata* (Kunth) Hemsley  
*Stipa fimbriata* Kunth
- pringlei** (Beal) Parodi [Allred 2005; M&H; W&S]  
*Stipa pringlei* Beal
- Pleopogon setosum* Nuttall = *Muhlenbergia alopecuroides* (Grisebach) Peterson & Columbus  
*Pleuraphis jamesii* Torrey = *Hilaria jamesii* (Torrey) Benth  
*mutica* Buckley = *Hilaria mutica* (Buckley) Benth  
*rigida* Thurber = *Hilaria rigida* (Thurber) Benth ex Scribner
- Poa** bluegrass  
 Arnov, L.A. 1981. *Poa secunda* Presl versus *P. sandbergii* Vasey (Poaceae). *Syst. Bot.* 6(4):412-421.  
 Boivin, B. & D. Löve. 1960. *Poa agassizensis*, a new prairie bluegrass. *Le Naturaliste Canadien* 87:173-180.  
 Cingay, B., R.J. Soreng, & E. Cabi. 2016. Stem Anatomy of two bulbous *Poa* species (Poaceae) from the Mediterranean region of Turkey. Abstract, IN: XV OPTIMA Meeting (Organization for the Phyto-Taxonomic Investigation of the Mediterranean Area), June 6-11, 2016, Montpellier, France.  
 Gillespie, L.J., A. Archambault, & R.J. Soreng. 2006. Phylogeny of *Poa* (Poaceae) based on *trnT-trnF* sequence data: Major clades and basal relationships. *Aliso* 23:420-434.  
 Kellogg, E. 1985. A biosystematic study of the *Poa secunda* complex. *J. Arnold Arbor.* 66:201-242.  
 Kellogg, E.A. 1985. Variation and names in the *Poa secunda* complex. *J. Range Management* 38(6):516-521.  
 Kellogg, E.A. 1987. Apomixis in the *Poa secunda* complex. *Amer. J. Bot.* 74(9):1431-1437.  
 Marsh, V.L. 1952. A taxonomic revision of the genus *Poa* of United States and southern Canada. *Amer. Midl. naturalist* 47:202-250.

- Soreng, R.J. 1985. *Poa* L. in New Mexico, with a key to middle and southern Rocky Mountain species (Poaceae). Great Basin Naturalist 45:395-422.
- Soreng, R.J. 1991. Systematics of the "Epiles" group of *Poa* (Poaceae). Syst. Bot. 16(3):507-528.
- Soreng, R.J. 2001. New plant distribution records. The New Mexico Botanist 19:3. [*Poa pratensis alpigena*]
- Soreng, R.J. 2007. *Poa*, pp. 486-601. IN: Flora of North America, vol. 24. Oxford University Press. [*Poa arctica arctica*]
- Soreng, R.J. & F.R. Barrie. 1999. Proposal to conserve the name *Poa pratensis* (Gramineae) with a conserved type. Taxon 48(1):157-160.
- Soreng, R.J. & S.L. Hatch. 1983. A comparison of *Poa tracyi* and *Poa occidentalis* (Poaceae: Poaeae). Sida 10(2):123-141.
- agassizensis* Boivin & D. Löve = *Poa pratensis* Linnaeus subsp. *agassizensis* (Boivin & D. Löve) Taylor & MacBryd
- albescens* A.S. Hitchcock = *Poa fendleriana* (Steudel) Vasey subsp. *albescens* (A.S. Hitchcock) Soreng
- alpigena* Lindman = *Poa pratensis* Linnaeus subsp. *alpigena* (Lindman) Hiitonen
- alpina*** Linnaeus [Allred 2005; M&H]
- ampla* Merrill = *Poa secunda* Presl subsp. *juncifolia* (Scribner) R.J. Soreng
- \**annua*** Linnaeus [Allred 2005; M&H; W&S]
- aperta* Scribner & Merrill = *Poa arctica* R. Brown subsp. *aperta* (Scribner & Merrill) Soreng
- \**arachnifera*** Torrey [Allred 2005]
- arctica*** R. Brown subsp. ***aperta*** (Scribner & Merrill) Soreng [Allred 2005; M&H; W&S]  
*Poa aperta* Scribner & Merrill  
*Poa gracillima* of NM authors
- arctica*** R. Brown subsp. ***arctica*** [Soreng 2007]
- arctica*** R. Brown subsp. ***grayana*** (Vasey) A. & D. Löve & Kapoor [Allred 2005; W&S]  
*Poa grayana* Vasey
- arida*** Vasey [Allred 2005; M&H; W&S]  
*Poa glaucifolia* Scribner & Williams
- bigelovii*** Vasey & Scribner [Allred 2005; M&H; W&S]
- brevipaniculata* Scribner & Will. = *Poa fendleriana* (Steudel) Vasey subsp. *fendleriana*
- \**bulbosa*** Linnaeus [Allred 2005; M&H]  
*Poa bulbosa* Linnaeus var. *vivipara* Koeler
- bulbosa* Linnaeus var. *vivipara* Koeler = *Poa bulbosa* Linnaeus
- canbyi* (Scribner) Piper = *Poa secunda* Presl subsp. *secunda*
- cilianensis* Allioni = *Eragrostis cilianensis* (Allioni) Vign. ex Janchen
- \**compressa*** Linnaeus [Allred 2005; M&H; W&S]  
Canada bluegrass  
*curvula* Schrader = *Eragrostis curvula* (Schrader) Nees var. *curvula*  
*distans* Jacquin = *Puccinellia distans* (Jacquin) Parlatores  
*dura* Linnaeus = *Sclerochloa dura* (Linnaeus) Beauvois
- fendleriana*** (Steudel) Vasey subsp. ***albescens*** (A.S. Hitchcock) Soreng [Allred 2005]  
muttongrass  
*Poa albescens* A.S. Hitchcock
- fendleriana*** (Steudel) Vasey subsp. ***fendleriana*** [Allred 2005; M&H; W&S]  
muttongrass  
*Eragrostis fendlerianus* Steudel  
*Poa brevipaniculata* Scribner & Williams  
*Poa longepedunculata* Scribner
- fendleriana*** (Steudel) Vasey subsp. ***longiligula*** (Scribner & T.A. Williams) Soreng [Allred 2005; M&H; W&S]  
muttongrass  
*Poa longiligula* Scribner & Williams
- flava* Linnaeus = *Tridens flavus* (Linnaeus) A.S. Hitchcock
- glauc***a Vahl subsp. ***glauc***a [Allred 2005; M&H]
- glauc***a Vahl subsp. ***rupicola*** (Nash ex Rydberg) W.A. Weber [Allred 2005; M&H]

- Poa rupicola* Nash ex Rydberg  
*glaucifolia* Scribner & Williams = *Poa arida* Vasey  
*gracillima* of NM authors = *Poa arctica* R. Brown var. *aperta* (Scribner & Merrill) Soreng  
*grayana* Vasey = *Poa arctica* R. Brown subsp. *grayana* (Vasey) A. & D. Löve & Kapoor  
*hypnoides* Lamarck = *Eragrostis hypnoides* (Lamarck) Britton, Sterns, & Poggenburg  
*kingii* S. Watson = *Leucopoa kingii* (S. Watson) W.A. Weber  
**interior** Rydberg [Allred 2005; M&H; W&S]  
*Poa nemoralis* Linnaeus subsp. *interior* (Rydberg) W.A. Weber  
*juncifolia* Scribner = *Poa secunda* Presl subsp. *juncifolia* (Scribner) R.J. Soreng  
*laevigata* Scribner = *Poa secunda* Presl subsp. *secunda*  
**leptocoma** Trinius [Allred 2005; M&H]  
*longiligula* Scribner & Williams = *Poa fendleriana* (Steudel) Vasey var. *longiligula*  
(Scribner & Williams) Soreng  
*longepedunculata* Scribner = *Poa fendleriana* (Steudel) Vasey var. *fendleriana*  
*lucida* Vasey = *Poa secunda* Presl subsp. *secunda*  
*kingii* S. Watson = *Leucopoa kingii* (S. Watson) W.A. Weber  
*mexicana* Hornemann = *Eragrostis mexicana* (Hornemann) Link subsp. *mexicana*  
*nemoralis* Linnaeus subsp. *interior* (Rydberg) W.A. Weber = *Poa interior* Rydberg  
*nervosa* (Hooker) Vasey var. *wheeleri* (Vasey) C.L. Hitchcock = *Poa wheeleri* Vasey  
*nevadensis* Vasey ex Scribner = *Poa secunda* Presl subsp. *juncifolia* (Scribner) R.J. Soreng  
*nuttalliana* Schultes = *Puccinellia nuttalliana* (Schultes) A.S. Hitchcock  
**occidentalis** Vasey [Allred 2005; M&H; W&S]  
*oxylepis* Torrey = *Eragrostis secundiflora* Presl subsp. *oxylepis* (Torrey) S.D. Koch  
**palustris** Linnaeus [Allred 2005; M&H]  
*pattersonii* Vasey : Reported as expected by M&H; awaits verification.  
*phoenix* Scopoli = *Schedonorus arundinaceus* (Schreber) Dumortier  
*pilosa* Linnaeus = *Eragrostis pilosa* (Linnaeus) Beauvois  
**pratensis** Linnaeus subsp. **agassizensis** (Boivin & D. Löve) Taylor & MacBryde  
[Allred 2005]  
Kentucky bluegrass  
*Poa agassizensis* Boivin & D. Löve  
**pratensis** Linnaeus subsp. **alpigena** (Lindman) Hiitonen [Soreng 2001]  
Kentucky bluegrass  
*Poa alpigena* Lindman  
\***pratensis** Linnaeus subsp. **pratensis** [Allred 2005; M&H; W&S]  
Kentucky bluegrass  
**reflexa** Vasey & Scribner ex Vasey [Allred 2005; M&H; W&S]  
*rigida* Linnaeus = *Catapodium rigidum* (Linnaeus) C.E. Hubbard ex Dony  
*rupicola* Nash ex Rydberg = *Poa glauca* Vahl. subsp. *rupicola* (Nash ex Rydberg) W.A.  
Weber  
*sandbergii* Vasey = *Poa secunda* Presl subsp. *secunda*  
*scabrella* (Thurber) Vasey = *Poa secunda* Presl subsp. *secunda*  
**secunda** Presl subsp. **juncifolia** (Scribner) R.J. Soreng  
*Poa ampla* Merrill  
*Poa juncifolia* Scribner  
*Poa nevadensis* Vasey ex Scribner  
**secunda** Presl subsp. **secunda** [Allred 2005; M&H; W&S]  
*Poa canbyi* (Scribner) Piper  
*Poa laevigata* Scribner  
*Poa lucida* Vasey  
*Poa sandbergii* Vasey  
*Poa scabrella* (Thurber) Vasey  
*spectabilis* Pursh = *Eragrostis spectabilis* (Pursh) Steudel  
*stenantha* Trinius : Reported by M&H, but no validating specimens located; most likely  
refers to *Poa leptocoma* Trinius [Allred 2005].  
*striata* Lamarck = *Glyceria striata* (Lamarck) A.S. Hitchcock  
**tracyi** Vasey [Allred 2005; M&H; W&S]  
*trichodes* Nuttall = *Eragrostis trichodes* (Nuttall) Wood  
\***trivialis** Linnaeus [Allred 2005]

rough bluegrass

*wheeleri* Vasey [Allred 2005; M&H]

*Poa nervosa* (Hooker) Vasey var. *wheeleri* (Vasey) C.L. Hitchcock

*Podagrostis humilis* (Vasey) Bjorkman : Reported by Cronquist et al. (1977), but specimens are unknown; awaits verification.

*Agostis humilis* Vasey

*Podosemum glaucum* Nees = *Muhlenbergia glauca* (Nees) B.D. Jackson

*rigida* Kunth = *Muhlenbergia rigida* (Kunth) Trinius

**Polypogon** polypogon

Barkworth, M. 2004. Plant distribution reports. The New Mexico Botanist 31:1. [*Polypogon maritimus*]

Bjorkman, S.O. 1960. Studies in *Agrostis* and related genera. Symb. Bot. Upsal. 17:1-112.

*glomeratus* Willdenow = *Muhlenbergia glomerata* (Willdenow) Trinius

\**interruptus* Kunth [Allred 2005; M&H; W&S]

×*Agropogon littoralis* (Small) C.E. Hubbard

×*Agropogon lutosus* (Poirot) Fournier

*Polypogon littoralis* Small

*littoralis* Small = *Polypogon interruptus* Kunth

\**maritimus* Willdenow [Barkworth 2004]

\**monspeliensis* (Linnaeus) Desfontaines [Allred 2005; M&H; W&S]

rabbitfootgrass

*Alopecurus monspeliensis* Linnaeus

\**viridis* (Gouan) Breistroffer [Allred 2005; M&H]

*Agrostis semiverticillata* (Forsskål) Christensen

*Agrostis viridis* Gouan

*Polypogon semiverticillata* (Forsskål) Hylander

*semiverticillata* (Forsskål) Hylander = *Polypogon viridis* (Gouan) Breistroffer

**Psathyrostachys** wildrye

Baden, C. 1990. A taxonomic revision of *Psathyrostachys* (Poaceae). Nord. J. Bot. 11:3-26.

Dewey, D.R. & C. Hsiao. 1983. A cytogenetic basis for transferring russian wildrye from *Elymus* to

*Psathyrostachys*. Crop Sci. 23:123-126.

\**junceae* (Fischer) Nevski [Allred 2005]

Russian wildrye

*Elymus junceus* Fischer

**Pseudoerriocoma** needlegrass

Peterson, P.M., K. Romaschenko, R.J. Soreng, & J. Valdes Reyna. 2019. A key to the North American genera of Stipeae (Poaceae, Pooideae) with descriptions and taxonomic names for species of *Eriocoma*, *Neotrinia*, *Oloptum*, and five new genera: *Barworthia*, ×*Eriosella*, *Pseudoerriocoma*, *Ptilagrostiella*, and *Thorneochloa*. PhytoKeys 126: 89-125.

Romaschenko K., P.M. Peterson, R.J. Soreng, N. Garcia-Jacas, & A. Susanna A. 2010. Phylogenetics of Stipeae (Poaceae: Pooideae) based on plastid and nuclear DNA sequences. p. 513-539. IN: O. Seberg, G. Petersen, A.S. Barfod, & J.I. Davis (eds.) Diversity, phylogeny, and evolution in the monocotyledons. Aarhus University Press, Denmark.

Romaschenko, K., P.M. Peterson, R.J. Soreng, N. Garcia-Jacas, O. Futorna, & A. Susanna. 2012.

Systematics and evolution of the needle grasses (Poaceae: Pooideae: Stipeae) based on analysis of multiple chloroplast loci, ITS, and lemma micromorphology. Taxon 61(1):18-44.

*eminens* (Cavanilles) Romaschenko [Allred 2005; M&H; W&S]

*Achnatherum eminens* (Cavanilles) Barkworth

*Stipa eminens* Cavanilles

*Pseudoroegneria arizonica* (Scribner & Smith) Löve = *Elymus arizonicus* (Scribner & Smith)

Gould

*spicata* (Pursh) A. Löve = *Elymus spicatus* (Pursh) Gould

**Ptilagrostis** false-needlegrass

Barkworth, M.E. 1983. *Ptilagrostis* in North America and its relationship to other *Stipeae* (Gramineae). Syst. Bot. 8:395-419.

Johnston, B.C. 2006. *Ptilagrostis porteri* (Rydb.) W.A. Weber (Porter's false needlegrass): A Technical Conservation Assessment. USDA Forest Service, Rocky Mountain Region. Online at: <http://www.fs.fed.us/r2/projects/scp/assessments/ptilagrostisporteri.pdf> [accessed 20 Feb 2013].

Legler, B.S. 2010. Additions to the vascular flora of New Mexico. J. Bot. Res. Inst. Texas 4(2):777-784. [*Ptilagrostis porteri*]

Romaschenko, K., P.M. Peterson, R.J. Soreng, N. Garcia-Jacas, O. Futorna, & A. Susanna. 2012.

Systematics and evolution of the needle grasses (Poaceae: Stipeae) based on analysis of multiple chloroplast loci, ITS, and lemma micromorphology. Taxon 61(1):18-44.

- porteri** (Rydberg) W.A. Weber [Legler 2010]  
*Stipa porteri* Rydberg
- Puccinellia** alkaligrass  
 Church, G.L. 1949. A cytotaxonomic study of *Glyceria* and *Puccinellia*. Amer. J. Bot. 36:155-156.  
 Davis, J.I. 1983. Phenotypic plasticity and the selection of taxonomic characters in *Puccinellia* (Poaceae).  
 Syst. Bot. 8:341-353.  
 Sivinski, R.C. 1995. Parish's alkali grasses (*Puccinellia parishii*). Section 6, Progress Report, U.S. Fish  
 Wildlife Service.  
*airoides* (Nuttall) S. Watson & Coulter = *Puccinellia nuttalliana* (Schultes) A.S. Hitchcock  
**\*distans** (Jacquin) Parlatore [Allred 2005; M&H]  
*Poa distans* Jacquin  
**nuttalliana** (Schultes) A.S. Hitchcock [Allred 2005; M&H; W&S]  
*Poa nuttalliana* Schultes  
*Puccinellia airoides* (Nuttall) S. Watson & Coulter  
**parishii** A.S. Hitchcock [Allred 2005; M&H]  
*pauciflora* (J. Presl) Munz = *Torreyochloa pallida* (Torrey) Church var. *pauciflora* (J. Presl)  
 J.I. Davis
- Redfieldia** blowout-grass  
 Hatch, S.L. 2003. *Redfieldia*, p. 41. IN: Flora of North America, vol. 25. Oxford University Press.  
 Peterson, P.M., K. Romaschenko, & G. Johnson. 2010. A phylogeny and classification of the  
 Muhlenbergiinae (Poaceae: Chloridoideae: Cynodonteae) based on plastid and nuclear DNA  
 sequences. Amer. J. Bot. 97(9):1532-1554.  
 Reeder, J.R. 1976. Systematic position of *Redfieldia* (Gramineae). Madroño 23:434-438.  
**flexuosa** (Thurber ex A. Gray) Vasey [Allred 2005; M&H]  
*Grapphephorum flexuosum* Thurber ex A. Gray  
*Muhlenbergia ammophila* P.M. Peterson  
*Rhynchelytrum repens* (Willdenow) C.E. Hubbard = *Melinis repens* (Willdenow) Zizka  
*roseum* (Nees) Bews = *Melinis repens* (Willdenow) Zizka
- Rostraria  
 Kartesz, J.T., The Biota of North America Program (BONAP). 2015. *Taxonomic Data Center*.  
 (<http://www.bonap.net/tdc>). Chapel Hill, N.C. [maps generated from Kartesz, J.T. 2015. Floristic  
 Synthesis of North America, Version 1.0. Biota of North America Program (BONAP). (in press)]  
*cristata* (Linnaeus) Trinius : Reported by Kartesz (2015), but the specimen cited ([Parker](#)  
[465](#)) is *Sphenopholis obtusata* (Michaux) Scribner  
*Festuca cristata* Linnaeus  
*Koeleria phleoides* (Villars) Persoon
- Saccharum ravennae* (Linnaeus) Linnaeus = *Tripidium ravennae* (Linnaeus) H. Scholz  
*repens* Willdenow = *Melinis repens* (Willdenow) Zizka  
*Savastana odorata* (Linnaeus) Scribner = *Hierochloa odorata* (Linnaeus) Beauvois  
*Schedonardus paniculatus* (Nuttall) Trelease = *Muhlenbergia paniculata* (Nuttall) P.M. Peterson
- Schedonorus** fescue  
 Catalán, P., P. Torrecilla, J.A. López-Rodríguez, J. Müller, & C.A. Stace. 2007. A systematic approach to  
 subtribe Loliinae (Poaceae: Pooideae) based on phylogenetic evidence. *Aliso* 23(1):380-405.  
 Darbyshire, S.J. 1993. Realignment of *Festuca* subgenus *Schedonorus* with the genus *Lolium* (Poaceae).  
*Novon* 3:239-243.  
 Soreng, R.J. E.E. Terrell. 1997. Taxonomic notes on *Schedonorus*, a segregate genus from *Festuca* or  
*Lolium*, with a new nothogenus, ×*Schedololium*, and new combinations. *Phytologia* 83(2):85-88.  
**\*arundinaceus** (Schreber) Dumortier [Allred 2005; M&H; W&S] Note: This name is  
 conserved over *Schedonorus arundinaceus* Roemer & Schultes, an earlier homonym;  
 see *Taxon* 55: 798. 2006]
- tall fescue  
*Festuca arundinacea* Schreber  
*Festuca elatior* Linnaeus  
*Lolium arundinaceum* (Schreber) S.J. Darbyshire  
*Poa phoenix* Scopoli  
*Schedonorus phoenix* (Scopoli) Holub  
*phoenix* (Scopoli) Holub = *Schedonorus arundinaceus* (Schreber) Dumortier  
**\*pratensis** (Hudson) P. Beauvois [Allred 2005]  
*Festuca elatior* of many authors  
*Festuca pratensis* Hudson  
*Lolium pratense* (Hudson) Darbyshire

**Schismus**                   Mediterraneangrass

- Conert, H.J. & A.M. Turpe. 1974. Revision der Gattung *Schismus* (Poaceae: Arundinoideae: Danthoniae).  
Abh. Senckenberg. Naturf. Ges. 532:1-81.  
Hatch, S.L. 1977. New grass distribution records for New Mexico and the United States. Great Basin  
Naturalist 37(4):530-531. [*Schismus arabicus*]  
Rissing, S.W. 1986. Indirect effects of granivory by harvester ants: plant species composition and  
reproductive increase near ant nests. *Oecologia* (Berl.) 68:231-234.  
*arabicus* Nees = *Schismus barbatus* (Loefling ex Linnaeus) Thellung var. *arabicus* (Nees)  
J.P. Smith  
**\*barbatus** (Loefling ex Linnaeus) Thellung var. **arabicus** (Nees) J.P. Smith  
[Allred 2005; Hatch 1977]  
*Schismus arabicus* Nees  
**\*barbatus** (Loefling ex Linnaeus) Thellung var. **barbatus** [Allred 2005; M&H]  
*Festuca barbata* Loefling ex Linnaeus

**Schizachne**                   false-melic

- Swallen, J.R. 1928. The grass genus *Schizachne*. *J. Wash. Acad. Sci.* 18:203-206.  
**purpurascens** (Torrey) Swallen [Allred 2005; M&H; W&S]  
*Avena striata* Michaux  
*Trisetum purpurascens* Torrey

**Schizachyrium**            bluestem

- Camus, A. 1923. Note sur le genre "*Schizachyrium*" (Gramineae). *Ann. Soc. Linn. Lyon* 70:87-91.  
Gould, F.W. 1967. The grass genus *Andropogon* in the United States. *Brittonia* 19:70-76.  
Hatch, S.L. 1978. Nomenclatural changes in *Schizachyrium* (Poaceae). *Brittonia* 30:496.  
Hatch, S.L. 1984. A new combination in the Poaceae. *Sida* 10(4):321.  
**cirratum** (Hackel) Wootton & Standley [Allred 2005; W&S]  
*Andropogon cirratus* Hackel  
*neomexicanum* Nash = *Schizachyrium scoparium* (Michaux) Nash var. *neomexicanum*  
(Nash) Hitchcock  
**sanguineum** (Retzius) Alston var. **hirtiflorum** (Nees) Hatch [Allred 2005]  
*Andropogon feensis* Fournier  
*Andropogon hirtiflorus* (Nees) Kintz var. *hirtiflorus*  
*Andropogon hirtiflorus* (Nees) Kunth var. *feensis* (Fournier) Hackel  
*scoparium* (Michaux) Nash var. *frequens* (C.E. Hubbard) Gould = *Schizachyrium*  
*scoparium* (Michaux) Nash  
**scoparium** (Michaux) Nash var. **neomexicanum** (Nash) Hitchcock [Allred 2005;  
W&S]  
*Andropogon neomexicanus* Nash  
*Andropogon scoparius* Michaux subsp. *neomexicanus* (Nash) Gandhi & Smiens  
*Schizachyrium neomexicanum* (Nash) Nash  
**scoparium** (Michaux) Nash var. **scoparium** [Allred 2005; W&S]  
little bluestem  
*Andropogon scoparius* Michaux var. *scoparius*  
*Andropogon scoparius* Michaux var. *frequens* C.E. Hubbard  
*Schizachyrium scoparium* (Michaux) Nash var. *frequens* (C.E. Hubbard) Gould

**Sclerochloa**                hardgrass

- Brandenburg, D.M., J.R. Estes, & J.W. Thieret. 1991. Hard grass (*Sclerochloa dura*, Poaceae) in the United  
States. *Sida* 14(3):369-376.  
**\*dura** (Linnaeus) Beauvois [Allred 2005]  
*Poa dura* Linnaeus

*Scleropoa rigida* (Linnaeus) Grisebach = *Catapodium rigidum* (Linnaeus) C.E. Hubbard ex Dony

**Scleropogon**               burrograss

- Allred, K.W. 1989. Observations on seed dispersal and implantation in burrograss (*Scleropogon brevifolius*  
– Gramineae). *Sida* 13(4): 493-496.  
Beetle, A.A. 1981. Noteworthy grasses from Mexico. *Phytologia* 49(1):33-43. [*Scleropogon longisetus*]  
Peterson, P. M., and J. T. Columbus. 1997. Allelic variation in the amphitropical disjunct *Scleropogon*  
*brevifolius* (Poaceae: Eragrostideae). *BioLlania, Edición Especial* 6: 473-490.  
Reeder, J.R. & J. Toolin. 1987. *Scleropogon* (Gramineae), a monotypic genus with disjunct distribution.  
*Phytologia* 62:267-275.  
**brevifolius** Philippi [Allred 2005; M&H; W&S]  
*Festuca macrostachya* Torrey & Gray  
*Scleropogon longisetus* Beetle



*longisetus* Beetle = *Scleropogon brevifolius* Philippi

**Secale** rye

- Allred, K.W. 2002. Rye, wheat, triticale, and barley. *The New Mexico Botanist* 22:5-6.  
 Baum, B.R. & P.K. Gupta. 1990. Taxonomic examination of Triticale ( $\times$ *Triticosecale*). *Can. J. Bot.* 68:1889-1893.  
 Bowden, W.M. 1962. Cytotaxonomy of the native and adventive species of *Hordeum*, *Eremopyrum*, *Secale*, *Sitanion*, and *Triticum* in Canada. *Can. J. Bot.* 40:1675-1711.  
 Frederiksen, S. and G. Petersen. 1998. A taxonomic revision of *Secale* L. (Triticeae, Poaceae). *Nordic J. Bot.* 18:399-420.

\***cereale** Linnaeus [Allred 2005; M&H]

*Sesleria dactyloides* Nuttall = *Bouteloua dactyloides* (Nuttall) J.T. Columbus

**Setaria** bristlegrass

- Emery, W.H.P. 1957. A cytotaxonomic study of *Setaria macrostachya* (Gramineae) and its relatives in the southwestern United States and Mexico. *Bull. Torrey Bot. Club* 84:94-105.  
 Fairbrothers, D.E. 1959. Morphological variation of *Setaria faberi* and *S. viridis*. *Brittonia* 11:44-48.  
 Fox, W.E. III & S.L. Hatch. 1999. New combinations in *Setaria* (Poaceae: Paniceae). *Sida* 18(4):1037-1047.  
 Hatch, S.L. 1977. New grass distribution records for New Mexico and the United States. *Great Basin Naturalist* 37(4):530-531. [*Setaria adhaerens*, *Setaria reverchonii* subsp. *ramiseta*]  
 Kerguelen, M. 1977. Notes agrostologiques, II. *Bull. Soc. Bot. Fr.* 124:337-349. [*Setaria parviflora*]  
 Rominger, J.M. 1962. Taxonomy of *Setaria* (Gramineae) in North America. *Illinois Biol. Monogr.* 29:1-132.  
 Toolin, L. & J.R. Reeder. 2000. The status of *Setaria macrostachya* and its relationship to *S. vulpisetia* (Gramineae). *Syst. Bot.* 25(1):26-32.  
 Webster, R.D. 1993. Nomenclature of *Setaria* (Poaceae: Paniceae). *Sida* 15(3):447-490.

\***adhaerens** (Forsskål) Chiovenda [Allred 2005; Hatch 1977]

*Panicum adhaerans* Forsskål

*geniculata* (Lamarck) Beauvois = *Setaria parviflora* (Poiret) Kerguelen

*glauca* auctores = *Setaria pumila* (Poiret) Roemer & Schultes

**grisebachii** Fournier [Allred 2005; M&H; W&S]

*Chaetochloa grisebachii* (Fournier) Scribner var. *ampla* Scribner & Merrill

\***italica** (Linnaeus) Beauvois [Allred 2005; M&H]

*Chaetochloa italica* (Linnaeus) Scribner

*Panicum italicum* Linnaeus

**leucopila** (Scribner & Merrill) K. Schumann [Allred 2005]

*Chaetochloa leucopila* Scribner & Merrill

*Setaria macrostachya* sensu many North American authors

*lutescens* (Weigel) F.T. Hubbard = *Setaria pumila* (Poiret) Roemer & Schultes

**macrostachya** Kunth [Allred 2005; M&H; W&S]

*Chaetochloa composita* (Kunth) Scribner

*macrostachya* sensu many North American authors = *Setaria leucopila* (Scribner & Merrill) K. Schumann

\***magna** Grisebach [Allred 2005]

*muricata* Beauvois = *Echinochloa muricata* (Beauvois) Fernald var. *muricata*

**parviflora** (Poiret) Kerguelen [Allred 2005; M&H]

*Cenchrus parviflorus* Poiret

*Setaria geniculata* (Lamarck) Beauvois

\***pumila** (Poiret) Roemer & Schultes [Allred 2005; M&H; W&S]

*Chaetochloa glauca* auctores

*Panicum pumilum* Poiret

*Setaria glauca* auctores

*Setaria lutescens* (Weigel) F. T. Hubbard

*ramiseta* (Scribner) Pilger = *Setaria reverchonii* (Vasey) Pilger subsp. *ramiseta* (Scribner) W.E. Fox

**reverchonii** (Vasey) Pilger subsp. **ramiseta** (Scribner) W.E. Fox [Allred 2005; Hatch 1977]

*Panicum ramisetum* Scribner

*Setaria ramiseta* (Scribner) Pilger

scheelei (Steudel) Hitchcock : Reported by M&H, and thence by FNA, but no validating specimens have ever been located.

\***verticillata** (Linnaeus) Beauvois [Allred 2005; M&H]

*Panicum verticillatum* Linnaeus

villosissima (Scribner & Merrill) K. Schumann : Reported as expected by M&H; awaits verification.

\**viridis* (Linnaeus) Beauvois [Allred 2005; M&H; W&S]

*Chaetochloa viridis* (Linnaeus) Scribner

*Panicum viride* Linnaeus

vulpiseta (Lamarck) Roemer & J.A. Schultes : Some have expanded this South American taxon to include our North American *Setaria macrostachya* Kunth; we maintain the two entities in a more strict sense, with the latter in NM.

*Sitanion brevifolium* J.G. Smith = *Elymus elymoides* (Rafinesque) Swezey subsp. *brevifolium* (J.G. Smith) Barkworth

*caespitosum* J.G. Smith = *Elymus elymoides* (Rafinesque) Swezey subsp. *brevifolium* (J.G. Smith) Barkworth

*californicum* J.G. Smith [= *Elymus elymoides* (Rafinesque) Swezey subsp. *californicum* (J.G. Smith) Barkworth] : Not occurring in NM

*elymoides* Rafinesque = *Elymus elymoides* (Rafinesque) Swezey subsp. *elymoides*

*hystrix* (Nuttall) J.S. Smith = *Elymus elymoides* (Rafinesque) Swezey

*longifolium* J.G. Smith = *Elymus elymoides* (Rafinesque) Swezey subsp. *brevifolium* (J.G. Smith) Barkworth

*molle* J.G. Smith = *Elymus elymoides* (Rafinesque) Swezey subsp. *brevifolium* (J.G. Smith) Barkworth

*pubiflorum* J.G. Smith = *Elymus elymoides* (Rafinesque) Swezey subsp. *brevifolium* (J.G. Smith) Barkworth

*rigidum* sensu W&S = *Elymus elymoides* (Rafinesque) Swezey subsp. *brevifolium* (J.G. Smith) Barkworth

**Sorghastrum** Indiangrass

Davila A., P. 1990. Anatomia foliar de las especies de *Sorghastrum* Nash (Poaceae: Andropogoneae). An. Inst. Biol. Univ. Nac. Auton. Mexico, Bot. 60:59-84.

Veldkamp, J.F. 1984. The identity of *Andropogon nutans* Linnaeus (Gramineae). Taxon 33:95-97.

\**nutans* (Linnaeus) Nash [Allred 2005; M&H; W&S]

*Andropogon nutans* Linnaeus

**Sorghum** sorghum

DeWet, J.M.J. 1978. Systematics and evolution of *Sorghum* sect. *Sorghum* (Gramineae). Amer. J. Bot. 65:477-484.

Doggett, H. 1970. *Sorghum*. Longmans, London. 403 pp.

Hodkinson, T.R., M.R. Chase, M.D. Lledo, N. Salamin, & S.A. Renvoize. 2002. Phylogenetics of *Miscanthus*, *Saccharum* and related genera (Saccharinae, Andropogoneae, Poaceae) based on DNA sequences from ITS nuclear ribosomal DNA and plastid trnL intron and trnL-F intergenic spacers. J. Pl. Res. 115: 381- 392.

Spangler, R., B. Zaitchik, E. Russo, & E. Kellogg. 1999. Andropogoneae Evolution and Generic Limits in *Sorghum* (Poaceae) Using ndhF Sequence. Syst. Bot. 24(2):267-281.

Wiersma, J.H. & J. Dahlberg. 2007. The nomenclature of *Sorghum bicolor* (L.) Moench (Gramineae). Taxon 56(3):941-946.

\**bicolor* (Linnaeus) Moench subsp. *bicolor* [Allred 2005; M&H]

sorghum, milo

*Holcus bicolor* Linnaeus

*Sorghum vulgare* Persoon

\**bicolor* (Linnaeus) Moench subsp. *drummondii* (Nees ex Steudel) deWet ex Davidse [Allred 2005]

Sudan grass

*Sorghum drummondii* Nees ex Steudel

*Sorghum sudanense* (Piper) Stapf

*drummondii* Nees ex Steudel = *Sorghum bicolor* (Linnaeus) Moench subsp. *drummondii* (Nees ex Steudel) deWet ex Davidse

\**halepense* (Linnaeus) Persoon [Allred 2005; M&H; W&S]

Johnsongrass

*Holcus halepensis* Linnaeus

*sudanense* (Piper) Stapf = *Sorghum bicolor* (Linnaeus) Moench subsp. *drummondii* (Nees ex Steudel) deWet ex Davidse

*vulgare* Persoon = *Sorghum bicolor* (Linnaeus) Moench subsp. *bicolor*

**Spartina** cordgrass

Mobberley, D.G. 1956. Taxonomy and distribution of the genus *Spartina*. Iowa State Coll. J. Sci. 30:471-574.

Peterson, P.M., K. Romaschenko, Y. Herrera Arrieta, & J.M. Saarela. 2014. A molecular phylogeny and new subgeneric classification of *Sporobolus* (Poaceae: Chloridoideae: Sporobolinae). Taxon 63(6):1212-1243.

**gracilis** Trinius [Allred 2005; M&H]

*Sporobolus hookerianus* P.M. Peterson & Saarela

**pectinata** Bosc ex Link [Allred 2005]

*Sporobolus michauxianus* A.S. Hitchcock

**Sphenopholis** wedgescale

Barberá, P., R.J. Soreng, P.M. Peterson, K. Romaschenko, A. Quintanar, & C. Aedo. 2019. Molecular phylogenetic analysis resolves *Trisetum* (Poaceae: Pooideae: Koeleriinae) polyphyletic: Evidence for a new genus, *Sibirotrisetum* and resurrection of *Acrospelin*. J. Syst. Evol. Online early issue 20 Oct 2019: 1-10.

Barberá, P., A. Quintanar, P.M. Peterson, R.J. Soreng, K. Romaschenko, & C. Aedo. 2019. New combinations, new names, typifications, and a new section, sect. *Hispanica*, in *Koeleria* (Poaeae, Poaceae). Phytoneuron 2019-46: 1-13.

Erdman, K.S. 1965. Taxonomy of the genus *Sphenopholis* (Gramineae). Iowa State J. Sci. 39:289-336.

Finot, V.L., P.M. Peterson, R.J. Soreng, & F.O. Zuloaga. 2005. A revision of *Trisetum* and *Graphephorum* (Poaceae: Pooideae: Aveninae) in North America north of Mexico. Sida 21(3):1419-1453.

**intermedia** (Rydberg) Rydberg [Allred 2005; M&H; W&S]

*Eatonia intermedia* Rydberg

*Sphenopholis obtusata* (Michaux) Scribner var. *major* (Torrey) Erdman

*Sphenopholis pallens* sensu W&S

*Sphenopholis pennsylvanica* sensu W&S

**interrupta** (Buckley) Scribner [Allred 2005; M&H; W&S]

*Trisetum interruptum* Buckley

**obtusata** (Michaux) Scribner [Allred 2005; M&H; W&S]

*Aira obtusata* Michaux

*Sphenopholis robusta* (Vasey) Heller

*obtusata* (Michaux) Scribner var. *major* (Torrey) Erdman = *Sphenopholis intermedia* (Rydberg) Rydberg

*pallens* sensu W&S = *Sphenopholis intermedia* (Rydberg) Rydberg

*pennsylvanica* sensu W&S = *Sphenopholis intermedia* (Rydberg) Rydberg

*robusta* (Vasey) Heller = *Sphenopholis obtusata* (Michaux) Scribner

**Sporobolus** dropseed

Hammel, B.E. & J.R. Reeder. 1979. The genus *Crypsis* (Gramineae) in the United States. Syst. Bot. 4:267-280.

Heil, K.D. 2009. Plant distribution reports [*Sporobolus alopecuroides*]. The New Mexico Botanist 46:7.

Jones, E.K. & N.C. Fassett. 1950. Subspecific variation in *Sporobolus cryptandrus*. Rhodora 52:125-126.

Kartesz, J.T. & K.N. Gandhi. 1995. Nomenclatural notes for the North American flora. XIV. Phytologia 78(1):1-17.

Lorch, J. 1962. A revision of *Crypsis* Ait. s.l. (Gramineae). Bull. Res. Council Israel Sect. D, Bot. 11: 91-116.

McGregor, R.L. 1990. Seed dormancy and germination in the annual cleistogamous species of *Sporobolus* (Poaceae). Trans. Kansas Acad. Sci. 93(1-2):8-11.

Peterson, P.M., K. Romaschenko, Y. Herrera Arrieta, & J.M. Saarela. 2014. A molecular phylogeny and new subgeneric classification of *Sporobolus* (Poaceae: Chloridoideae: Sporobolinae). Taxon 63(6):1212-1243.

Reeder, J.R. & M.E. Ellington. 1960. *Calamovilfa*, a misplaced genus of Gramineae. Brittonia 12:71-77.

Riggins, R. 1977. A biosystematic study of the *Sporobolus asper* complex (Gramineae). Iowa State J. Res. 51:287-321.

Sivinski, R.C. & K. Heil. 2004. Plant distribution reports. The New Mexico Botanist 31:2. [*Sporobolus schoenoides*]

Thieret, J.W. 1966. Synopsis of the genus *Calamovilfa* (Gramineae). Castanea 31:145-152.

**airoides** (Torrey) Torrey [Allred 2005; M&H; W&S]

alkali sacaton

*Agrostis airoides* Torrey

*airoides* (Torrey) Torrey var. *wrightii* (Scribner) Gould = *Sporobolus wrightii* Munro ex Scribner

**\*alopecuroides** (Piller & Mitterpacher) P.M. Peterson [Heil 2009]

*Crypsis alopecuroides* (Piller & Mitterpacher) Schrader

- Phleum alopecuroides* Piller & Mitterpacher  
*arenaceus* Buckley = *Muhlenbergia arenacea* (Buckley) A.S. Hitchcock  
***arenicola*** P.M. Peterson [Allred 2005; M&H; W&S]  
*Calamagrostis gigantea* Nuttall  
*Calamovilfa gigantea* (Nuttall) Scribner & Merrill  
*asper* (Beauvois) Kunth = *Sporobolus compositus* (Poiret) Merrill  
*asperifolius* (Nees & Meyer ex Trinius) Thurber = *Muhlenbergia asperifolia* (Nees & Meyer ex Trinius) Parodi  
*auriculatus* Vasey = *Muhlenbergia arenacea* (Buckley) A.S. Hitchcock  
***compositus*** (Poiret) Merrill [Allred 2005; M&H; W&S]  
*Agrostis composita* Poiret  
*Sporobolus asper* (Beauvois) Kunth  
*confusus* auctores = *Muhlenbergia minutissima* (Steudel) Swallen  
***contractus*** A.S. Hitchcock [Allred 2005; M&H; W&S]  
*Sporobolus strictus* Merrill  
*coromandelianus* (Retzius) Kunth : This name is being applied to *Sporobolus pyramidatus* (Lamarck) A.S. Hitchcock by some authors; awaits verification of nomenclatural status.  
***cryptandrus*** (Torrey) Gray [Allred 2005; M&H; W&S]  
 sand dropseed  
*Agrostis cryptandra* Torrey  
***flexuosus*** (Thurber ex Vasey) Rydberg [Allred 2005; M&H; W&S]  
*Vilfa cryptandra* (Torrey) Torrey ex Trinius var. *flexuosa* Thurber ex Vasey  
***giganteus*** Nash [Allred 2005; M&H; W&S]  
***heterolepis*** (A. Gray) A. Gray [Allred 2005]  
*Vilfa heterolepis* A. Gray  
*hookerianus* P.M. Peterson & Saarela = *Spartina gracilis* Trinius  
*michauxianus* A.S. Hitchcock = *Spartina pectinata* Bosc ex Link  
***nealleyi*** Vasey [Allred 2005; M&H; W&S]  
**\**neglectus*** Nash [Allred 2005; M&H]  
*pulvinatus* Swallen = *Sporobolus pyramidatus* (Lamarck) A.S. Hitchcock  
***pyramidatus*** (Lamarck) A.S. Hitchcock [Allred 2005; M&H]  
*Agrostis pyramidata* Lamarck  
*Sporobolus pulvinatus* Swallen  
*repens* Presl = *Muhlenbergia repens* (Presl) A.S. Hitchcock  
***rigidus*** (Buckley) P.M. Peterson [Allred 2005; M&H; W&S]  
*Calamagrostis longifolia* Hooker  
*Calamovilfa longifolia* (Hooker) Scribner  
*Vilfa rigida* Buckley  
**\**schoenoides*** (Linnaeus) P.M. Peterson [Sivinski & Heil 2004]  
*Crypsis schoenoides* (Linnaeus) Lamarck  
*Phleum schoenoides* Linnaeus  
*strictus* Merrill = *Sporobolus contractus* A.S. Hitchcock  
***texanus*** Vasey [Allred 2005; M&H; W&S]  
*thurberi* Scribner = *Muhlenbergia thurberi* (Scribner) Rydberg  
**\**vaginiflorus*** (Torrey ex Gray) Wood [Allred 2005; M&H]  
*Vilfa vaginiflora* Torrey ex Gray  
***wrightii*** Munro ex Scribner [Allred 2005; M&H; W&S]  
 giant sacaton  
*Sporobolus airoides* (Torrey) Torrey var. *wrightii* (Scribner) Gould
- Steinchisma***  
 Soreng, R.J., P.M. Peterson, K. Romaschenko, G. Davidse, F.O. Zuloaga, E.J. Judziewicz, T.S. Filgueiras, J.I. Davis, & O. Morrone. 2015. A worldwide phylogenetic classification of the Poaceae (Gramineae). *Journal of Systematics and Evolution* 53(2):117-137.  
 Zuloaga, F.O., O. Morrone, A.S. Vega, and L.M. Giussani. 1998. Revisión y análisis cladístico de *Steinchisma* (Poaceae: Panicoideae: Paniceae). *Ann. Missouri Bot. Gard.* 85:631-656.  
**\**hians*** (Elliott) Nash [Allred 2005; M&H; W&S]  
 gaping panic-grass  
*Panicum hians* Elliott

**\*Stenotaphrum**

- Busey, P., T.K. Broschat, and B.J. Center. 1982. Classification of St. Augustinegrass. *Crop Sci.* (Madison) 22:469-473.
- Sauer, J.D. 1972. Revision of *Stenotaphrum* (Gramineae: Paniceae) with attention to its historical geography. *Brittonia* 24:202-222.
- secundatum (Walter) Kuntze (St. Augustinegrass) : Included by Allred (2005) only as an ornamental lawn grass and not known to escape.
- Ischaemum secundatum* Walter

**Stipa**

- Jacobs, S.W.L., R. Bayer, J. Everett, M.O. Arriaga, M.E. Barkworth, A. Sabin-Badereau, M.A. Torres, F. Vazquez, & N. Bagnall. 2006. Systematics of the tribe Stipeae using molecular data. *Aliso* 23:349-361.
- Romaschenko, K., P.M. Peterson, R.J. Soreng, N. Garcia-Jacas, O. Futorna, & A. Susanna. 2012. Systematics and evolution of the needle grasses (Poaceae: Pooideae: Stipeae) based on analysis of multiple chloroplast loci, ITS, and lemma micromorphology. *Taxon* 61(1):18-44.
- arida* Jones = *Eriocoma arida* (M.E. Jones) Romaschenko
- bloomeri* Bolander = *Eriocoma* × *bloomeri* (Bolander) Romaschenko
- columbiana* of NM reports = *Eriocoma perplexa* (Hoge & Barkworth) Romaschenko
- comata* Trinius & Ruprecht s.s. = *Hesperostipa comata* (Trinius & Ruprecht) Barkworth subsp. *comata*
- comata* Trinius & Ruprecht var. *intermedia* Scribner & Tweedy = *Hesperostipa comata* (Trinius & Ruprecht) Barkworth subsp. *intermedia* (Scribner & Tweedy) Barkworth
- curvifolia* Swallen = *Eriocoma curvifolia* (Swallen) Romaschenko
- eminens* Cavanilles = *Pseudoeriocoma eminens* (Cavanilles) Romaschenko
- fimbriata* Kunth = *Piptochaetium fimbriatum* (Kunth) Hitchcock
- hymenoides* Roemer & Schultes = *Eriocoma hymenoides* (Roemer & J.A. Schultes) Rydberg
- lettermanii* Vasey = *Eriocoma lettermanii* (Vasey) Romaschenko
- lobata* Swallen = *Eriocoma lobata* (Swallen) Romaschenko
- minor* of NM reports = *Eriocoma perplexa* (Hoge & Barkworth) Romaschenko
- mormonum* Mez = *Eriocoma arida* (M.E. Jones) Romaschenko
- nelsonii* Scribner var. *nelsonii* = *Eriocoma nelsonii* (Scribner) Romaschenko
- nelsonii* Scribner subsp. *dorei* Barkworth & Maze sensu stricto : Reported by Allred (1993), but not occurring in NM; replaced in NM by *Achnatherum perplexum* Hoge & Barkworth.
- neomexicana* (Thurber ex Coulter) Scribner = *Hesperostipa neomexicana* (Thurber) Barkworth
- pennata* Linnaeus var. *neo-mexicana* Thurber ex Coulter = *Hesperostipa neomexicana* (Thurber) Barkworth
- perplexa* (Hoge & Barkworth) J. Wipff & S.D. Jones = *Eriocoma perplexa* (Hoge & Barkworth) Romaschenko
- pinetorum* M.E. Jones = *Eriocoma pinetorum* (M.E. Jones) Romaschenko
- porteri* Rydberg = *Ptilagrostis porteri* (Rydberg) W.A. Weber
- pringlei* Beal = *Piptochaetium pringlei* (Beal) Parodi
- robusta* (Vasey) Scribner = *Eriocoma robusta* (Vasey) Romaschenko
- scribneri* Vasey = *Eriocoma scribneri* (Vasey) Romaschenko
- spartea* Trinius = *Hesperostipa spartea* (Trinius) Barkworth
- speciosa* Trinius & Ruprecht = *Pappostipa speciosa* (Trinius & Ruprecht) Romaschenko
- spicata* Linnaeus f. = *Trachypogon spicatus* (Linnaeus f.) Kuntze
- tenuissima* Trinius = *Nassella tenuissima* (Trinius) Barkworth
- tweedyi* Scribner = *Hesperostipa comata* (Trinius & Ruprecht) Barkworth subsp. *intermedia* (Scribner & Tweedy) Barkworth
- vaseyi* Scribner = *Eriocoma robusta* (Vasey) Romaschenko
- viridula* Trinius = *Nassella viridula* (Trinius) Barkworth
- viridula* Trinius var. *robusta* Vasey = *Eriocoma robusta* (Vasey) Romaschenko
- × *Stiporyzopsis bloomeri* (Bolander) B.L. Johnson = *Eriocoma* × *bloomeri* (Bolander) Romaschenko
- Syntherisma sanguinale* (Linnaeus) Dulac = *Digitaria sanguinalis* (Linnaeus) Scopoli
- Thinopyrum elongatum* (Host) Barkworth & Dewey = *Elymus ponticus* (Podpěra) N. Snow
- intermedium* (Host) Barkworth & Dewey = *Elymus hispidus* (Opiz) Melderis
- ponticum* (Podpěra) Barkworth & Dewey = *Elymus ponticus* (Podpěra) N. Snow

**Torreyochloa** mannagrass

- Church, G.L. 1952. The genus *Torreyochloa*. *Rhodora* 54:197-200.  
 Clausen, R.T. 1952. Suggestion for the assignment of *Torreyochloa* to *Puccinellia*. *Rhodora* 54:42-45.  
 Davis, J.I. 1991. A note on North American *Torreyochloa* (Poaceae) including a new combination.  
*Phytologia* 70:361-365.

Soreng, R.J., J.I. Davis, and J.J. Doyle. 1990 A phylogenetic analysis of chloroplast DNA restriction site variation in the *Poaceae* subfam. *Pooideae*. *Pl. Syst. Evol.* 172:83-97.

***pallida*** (Torrey) Church var. ***pauciflora*** (J.S. Presl) J.I. Davis [Allred 2005; M&H]

*Glyceria pauciflora* Presl  
*Puccinellia pauciflora* (J. Presl) Munz  
*Torreyochloa pauciflora* (Presl) Church

*pauciflora* (Presl) Church = *Torreyochloa pallida* (Torrey) Church var. *pauciflora* (J.S. Presl) J.I. Davis

**Trachypogon** crinkle-awn

- Soreng, R.J., G. Davids, P.M. Peterson, F.O. Zuloaga, T.S. Filgueiras, E.J. Judziewicz, & O.N. Morrone. 2003 and onwards. Internet Catalogue of New World Grasses: On-line taxonomic novelties and updates, distributional additions and corrections, and editorial changes to the four published volumes of the Catalogue of New World Grasses (Poaceae) published in *Contr. U.S. Natl. Herb.* vols. 39, 41, 46, and 48.

*montufari* (Kunth) Nees = *Trachypogon spicatus* (Linnaeus f.) Kuntze

*plumosus* (Humboldt & Bonpland ex Willdenow) Nees = *Trachypogon spicatus* (Linnaeus f.) Kuntze

*secundus* (Presl) Scribner = *Trachypogon spicatus* (Linnaeus f.) Kuntze

***spicatus*** (Linnaeus f.) Kuntze [Allred 2005; M&H; W&S]

*Heteropogon secundus* Presl  
*Stipa spicata* Linnaeus f.

*Trachypogon montufari* (Kunth) Nees

*Trachypogon plumosus* (Humboldt & Bonpland ex Willdenow) Nees

*Trachypogon secundus* (Presl) Scribner

**Tragus** burgrass

- Anton, A.M. 1981. The genus *Tragus* (Gramineae). *Kew Bull.* 36(1):55-61.  
 Reeder, J.R. & C. Reeder. 1978. *Tragus racemosus* in Arizona. *Madroño* 25:107-108.

**\**berteronianus*** Schultes [Allred 2005; M&H; W&S]

*Nazia aliena* auctores

*racemosus* (Linnaeus) Allioni : Reported by M&H, Hitchcock & Chase (1951), and Campbell & Little (1935), but no validating specimens have been located in any of the state's herbaria or at US.

*Cenchrus racemosus* Linnaeus

**Trichachne** cotton-top

- Henrard, J.T. 1950. Monograph of the genus *Digitaria*. *Universitaire Pers.* Leiden.  
 Medico, J.M.L., D.S. Tosto, G.H. Rua, Z.E. Rúgolo de Agrasar, M.A. Scataglini, & A.S. Vega. 2017. Phylogeny of *Digitaria* Sections *Trichachne* and *Trichophorae* (Poaceae, Panicoideae, Paniceae): A morphological and molecular Analysis. *Syst. Bot.* 42(1): 37-53.  
 Vega, A.S., G.H. Rua, L.T. Fabbri, Z.E. Rúgolo de Agrasar. 2009. A morphology-based cladistic analysis of *Digitaria* (Poaceae, Panicoideae, Paniceae). *Syst. Bot.* 34(2): 312-323.  
 Wipff, J.K. & R.B. Shaw. 2018. *Leptoloma syrticola* (Poaceae: Panicoideae): A new species from Texas and new combinations in *Leptoloma* and *Trichachne*.

***californica*** (Bentham) Chase [Allred 2005; M&H; W&S]

Arizona cottontop

*Digitaria californica* (Bentham) Henrard  
*Panicum californicum* Bentham  
*Valota saccharata* (Buckley) Chase

*Trichloris crinita* (Lagasca) Parodi = *Leptochloa crinita* (Lagasca) P.M. Peterson & N. Snow

*fasciculata* Fournier = *Leptochloa crinita* (Lagasca) P.M. Peterson & N. Snow

*Tricuspis mutica* Torrey = *Tridentopsis mutica* (Torrey) P.M. Peterson

**Tridens** tridens

- Peterson, P.M., K. Romaschenko, & Y. Herrera Arrieta. 2014. A molecular phylogeny and classification of the Cteniinae, Farragininae, Gouiniinae, Gymnopogoninae, Perotidinae, and Trichoneurinae (Poaceae: Chloridoideae: Cynodonteae). *Taxon* 63(2):275-286.

- Peterson, P.M., K. Romaschenko, & Y. Herrera Arrieta. 2016. A molecular phylogeny and classification of the Cynodonteae (Poaceae: Chloridoideae) with four new genera: *Orthacanthus*, *Triplasiella*, *Tripogonella*, and *Zaqiqah*; three new subtribes: Dactylocteniinae, Orininae, and Zaqiqahinae; and

- a subgeneric classification of *Distichlis*. Taxon 65(6): 1263-1287. Tateoka, T. 1961. A biosystematic study of *Tridens* (Gramineae). Amer. J. Bot. 48:565-573.  
 Valdés-R. & S.L. Hatch. 1997. A revision of *Erioneuron* and *Dasyochloa* (Poaceae: Eragrostidae). Sida 17(4):645-666.

***albescens*** (Vasey) Wooton & Standley [Allred 2005; M&H]

*Triodia albescens* Vasey

*avenaceus* (Kunth) Hitchcock = *Erioneuron avenaceum* (Kunth) Tateoka

*elongatus* (Buckley) Nash = *Tridentopsis mutica* (Torrey) P.M. Peterson var. *elongatus* (Buckley) P.M. Peterson & Romaschenko

*eragrostoides* (Vasey & Scribner) Nash = *Triplasiella eragrostoides* (Vasey & Scribner) P.M. Peterson & Romaschenko

**\**flava*** (Linnaeus) A.S. Hitchcock [Allred 2005; M&H]

purpletop

*Poa flava* Linnaeus

*grandiflorus* (Vasey) Wooton & Standley = *Erioneuron avenaceum* (Kunth) Tateoka

*muticus* (Torrey) Nash var. *elongatus* (Buckley) Shinnars = *Tridentopsis mutica* (Torrey)

P.M. Peterson var. *elongatus* (Buckley) P.M. Peterson & Romaschenko

*muticus* (Torrey) Nash var. *muticus* = *Tridentopsis mutica* (Torrey) P.M. Peterson

*nealleyi* (Vasey) Wooton & Standley = *Erioneuron nealleyi* (Vasey) Gould

*pilosus* (Buckley) Hitchcock = *Erioneuron pilosum* (Buckley) Nash

*pulchellus* (Kunth) Hitchcock = *Munroa pulchella* (Kunth) L.D. Amarilla

***Tridentopsis*** tridentopsis

Peterson, P.M., K. Romaschenko, & Y. Herrera Arrieta. 2014. A molecular phylogeny and classification of the Cteniinae, Farragininae, Gouiniinae, Gymnopogoninae, Perotidinae, and Trichoneurinae (Poaceae: Chloridoideae: Cynodonteae). Taxon 63(2):275-286.

Peterson, P.M., K. Romaschenko, & Y. Herrera Arrieta. 2016. A molecular phylogeny and classification of the Cynodonteae (Poaceae: Chloridoideae) with four new genera: *Orthacanthus*, *Triplasiella*, *Tripogonella*, and *Zaqiqah*; three new subtribes: Dactylocteninae, Orininae, and Zaqiqahinae; and a subgeneric classification of *Distichlis*. Taxon 65(6): 1263-1287.

Tateoka, T. 1961. A biosystematic study of *Tridens* (Gramineae). Amer. J. Bot. 48:565-573.

*eragrostoides* (Vasey & Scribner) P.M. Peterson = *Triplasiella eragrostoides* (Vasey & Scribner) P.M. Peterson & Romaschenko

***mutica*** (Torrey) P.M. Peterson var. ***mutica*** [Allred 2005; M&H]

*Tridens muticus* (Torrey) Nash

*Tricuspis mutica* Torrey

*Triodia mutica* (Torrey) Scribner

***mutica*** (Torrey) P.M. Peterson var. ***elongata*** (Buckley) P.M. Peterson &

Romaschenko [Allred 2005; M&H]

*Tridens elongatus* (Buckley) Nash

*Tridens muticus* (Torrey) Nash var. *elongatus* (Buckley) Shinnars

*Triodia elongata* (Buckley) Scribner

*Uralepis elongata* Buckley

*Triodia albescens* Vasey = *Tridens albescens* (Vasey) Wooton & Standley

*avenacea* Kunth = *Erioneuron avenaceum* (Kunth) Tateoka

*elongata* (Buckley) Scribner = *Tridentopsis mutica* (Torrey) P.M. Peterson var. *elongatus* (Buckley) P.M. Peterson & Romaschenko

*eragrostoides* Vasey & Scribner = *Triplasiella eragrostoides* (Vasey & Scribner) P.M. Peterson & Romaschenko

*grandiflora* Vasey = *Erioneuron avenaceum* (Kunth) Tateoka

*mutica* Torrey = *Tridentopsis mutica* (Torrey) P.M. Peterson

*nealleyi* Vasey = *Erioneuron nealleyi* (Vasey) Tateoka

*pilosa* (Buckley) Merrill = *Erioneuron pilosum* (Buckley) Nash

*pulchella* Kunth = *Munroa pulchella* (Kunth) L.D. Amarilla

***Tripidium***

Hodkinson, T.R., M.W. Chase, M.D. Lledo, N. Salamin, & S.A. Renvoize. 2002. Phylogenetics of *Miscanthus*, *Saccharum* and related genera (Saccharinae, Andropogoneae, Poaceae) based on DNA sequences from ITS nuclear ribosomal DNA and plastid trnL-intron and trnL-F intergenic spacers. Journal of Plant Research 115:381-392.

Peterson, R.S. 2000. New plant distribution records. The New Mexico Botanist 15:7. [*Saccharum ravennae*]

Webster, R.D. and R.B. Shaw. 1995. Taxonomy of the North American species of *Saccharum* (Poaceae: Andropogoneae). Sida 16:551-580.

Welker, C.A.D., T.T. Souza-Chies, H.M. Longhi-Wagner, M.C. Peichoto, M.R. Mckain, and E.A. Kellogg. 2015. Phylogenetic analysis of *Saccharum* s.l. (Poaceae; Andropogoneae), with emphasis on the circumscription of the South American species. *Amer. J. Bot.* 102: 248-263.

\***ravennae** (Linnaeus) H. Scholz [Peterson 2000]

Ravenna grass

*Andropogon ravennae* Linnaeus  
*Erianthus ravennae* (Linnaeus) Beauvois  
*Ripidium ravennae* (Linnaeus) Trinius  
*Saccharum ravennae* (Linnaeus) Linnaeus

**Triplasiella** triplasiella

Peterson, P.M., K. Romaschenko, & Y. Herrera Arrieta. 2016. A molecular phylogeny and classification of the Cynodonteae (Poaceae: Chloridoideae) with four new genera: *Orthacanthus*, *Triplasiella*, *Tripogonella*, and *Zaqiqah*; three new subtribes: Dactylocteniinae, Orininae, and Zaqiqahinae; and a subgeneric classification of *Distichlis*. *Taxon* 65(6): 1263-1287.

\***eragrostoides** (Vasey & Scribner) P.M. Peterson & Romaschenko [Allred 2005]

*Tridentopsis eragrostoides* (Vasey & Scribner) P.M. Peterson  
*Tridens eragrostoides* (Vasey & Scribner) Nash  
*Triodia eragrostoides* Vasey & Scribner

**Triplasis** sandgrass

Hatch, S.L. 1977. New grass distribution records for New Mexico and the United States. *Great Basin Naturalist* 37(4):530-531. [*Triplasis purpurea*]

**purpurea** (Walter) Chapman [Allred 2005; Hatch 1977; M&H]

*Aira purpurea* Walter

**Tripsacum** gamagrass

DeWet, J.M.J., D.E. Brink, & C.E. Cohen. 1983. Systematics of *Tripsacum* section *Fasciculata* (Gramineae). *Amer. J. Bot.* 70:1139-1146.

DeWet, J.M.J., J.R. Gray, & J.R. Harlan. 1976. Systematics of *Tripsacum* (Gramineae). *Phytologia* 33(3):203-227.

Mearns, E.A. 1907. Mammals of the Mexican boundary of the United States. *U.S. Natl. Mus. Bull.* 56. 530 pp.

*lanceolatum* Ruprecht ex Fournier : Reported by W&S, and thence others, but the specimen in question (*E.C. Merton 2015*, US) was collected in the vicinity of Monument No. 73, either in Arizona or Sonora, but certainly not in NM (see Mearns 1907 for itinerary and dates).

**Trisetum**

*canescens* Buckley : Reported by Rumely (2007), but no authentic specimens are known; awaits verification.

*Helictotrichon canescens* (Buckley) Clayton

*flavescens* (Linnaeus) Beauvois : Reported as expected by M&H; awaits verification.

*interruptum* Buckley = *Sphenopholis interrupta* (Buckley) Scribner

*montanum* Vasey = *Koeleria vaseyi* Barberá, Quintanar, Soreng, & P.M. Peterson

*purpurascens* Torrey = *Schizachne purpurascens* (Torrey) Swallen

*spicatum* (Linnaeus) Richter = *Koeleria spicata* (Linnaeus) Barberá, Quintanar, Soreng, & P.M. Peterson

*spicatum* (Linnaeus) Richter subsp. *montanum* (Vasey) Weber = *Koeleria vaseyi* Barberá, Quintanar, Soreng, & P.M. Peterson

*subspicatum* (Linnaeus) Beauvois var. *muticum* Bolander = *Graphephorum wolfii* (Vasey) Vasey ex Coulter

*wolfii* Vasey = *Graphephorum wolfii* (Vasey) Vasey ex Coulter

×**Triticosecale** triticale

Allred, K.W. 2002. Rye, wheat, triticale, and barley. *The New Mexico Botanist* 22:5-6.

Baum, B.R. & P.K. Gupta. 1990. Taxonomic examination of Triticale (×*Triticosecale*). *Can. J. Bot.* 68:1889-1893.

Stace, C.A. 1987. Triticale: A case of nomenclatural mistreatment. *Taxon* 36(2): 445-452.

The name ×*Triticosecale* refers to artificial hybrids of *Triticum* × *Secale*, but there is no valid specific epithet for this entity. This is a rather common, though non-persistent, waif of agriculture.

**Triticum** wheat

Allred, K.W. 2002. Rye, wheat, triticale, and barley. *The New Mexico Botanist* 22:5-6.

Baum, B.R. & P.K. Gupta. 1990. Taxonomic examination of Triticale (×*Triticosecale*). *Can. J. Bot.* 68:1889-1893.



- Bowden, W.M. 1962. Cytotaxonomy of the native and adventive species of *Hordeum*, *Eremopyrum*, *Secale*, *Sitanion*, and *Triticum* in Canada. Can. J. Bot. 40:1675-1711.
- Briggle, L.W. & L.P. Reitz. 1963. Classification of *Triticum* species and of wheat varieties grown in the United States. USDA Tech. Bull. 1278. 135 pp.
- Gupta, P.K. & B.R. Baum. 1986. Nomenclature and related taxonomic issues in wheats, triticales and some of their wild relatives. Taxon 35(1):144-149.
- \*aestivum** Linnaeus [Allred 2005; M&H]  
*cylindricum* (Host) Cesati = *Aegilops cylindrica* Host  
*elongatum* Host = *Elymus ponticus* (Podpěra) N. Snow  
*fragile* Roth = *Agropyron fragile* (Roth) P. Candargy  
*ponticum* Podpěra = *Elymus ponticus* (Podpěra) N. Snow  
*repens* Linnaeus = *Elymus repens* (Linnaeus) Gould  
*subsecundum* Link = *Elymus trachycaulus* (Link) Gould subsp. *subsecundus* (Link) A. & D. Löve  
*trachycaulum* Link = *Elymus trachycaulus* (Link) Gould subsp. *trachycaulus*  
*violaceum* Hornemann = *Elymus trachycaulus* (Link) Gould subsp. *violaceus* (Hornemann) A. & D. Löve
- Uniola spicata* Linnaeus = *Distichlis spicata* (Linnaeus) Greene  
*stricta* Torrey = *Distichlis spicata* (Linnaeus) Greene
- Urachne micrantha* Trinius & Ruprecht = *Piptatheropsis micrantha* (Trinius & Ruprecht) Romaschenko, Peterson, & Soreng
- Uralepis elongata* Buckley = *Tridentopsis mutica* (Torrey) P.M. Peterson var. *elongatus* (Buckley) P.M. Peterson & Romaschenko  
*pilosa* Buckley = *Erioneuron pilosum* (Buckley) Nash
- Urochloa** signalgrass  
Hatch, S.L. 1977. New grass distribution records for New Mexico and the United States. Great Basin Naturalist 37(4):530-531. [*Urochloa ciliatissima*, *Urochloa texana*, *U. panicoides*]  
Morrone, O. & F.O. Zuloaga. 1993. Sinopsis del genero *Urochloa* (Poaceae: Panicoideae: Paniceae) para Mexico y America Central. Darwiniana 32:59-75.  
Spellenberg, R. 1978. New plant distribution records from the southwestern United States and northern Mexico. Madroño 25:169-170. [*Urochloa panicoides*]  
Webster, R.D. 1988. Genera of the North American Paniceae (Poaceae: Panicoideae). Syst. Bot. 13(4):576-609.  
Wipff, J.K., R.I. Lonard, S.D. Jones, & S.L. Hatch. 1993. The genus *Urochloa* (Poaceae: Paniceae) in Texas, including one previously unreported species for the state. Sida 15:405-413.
- arizonica** (Scribner & Merrill) Morrone & Zuloaga [Allred 2005; M&H; W&S]  
*Brachiaria arizonica* (Scribner & Merrill) S.T. Blake  
*Panicum arizonicum* Scribner & Merrill
- ciliatissima** (Buckley) R.D. Webster [Allred 2005; Hatch 1977]  
*Brachiaria ciliatissima* (Buckley) Chase  
*Panicum ciliatissimum* Buckley
- fasciculata* (Swartz) R.D. Webster = *Urochloa fusca* (Swartz) Hansen & Wunderlin
- fusca** (Swartz) Hansen & Wunderlin [Allred 2005; M&H; W&S]  
*Brachiaria fasciculata* (Swartz) Parodi  
*Panicum fasciculatum* Swartz var. *reticulatum* (Torrey) Beal  
*Panicum fuscum* Swartz  
*Urochloa fasciculata* (Swartz) R.D. Webster
- \*panicoides** Beauvois [Allred 2005; Hatch 1977]
- texana** (Buckley) R.D. Webster [Allred 2005; Hatch 1977]  
*Brachiaria texana* (Buckley) S.T. Blake  
*Panicum texanum* Buckley
- Valota saccharata* (Buckley) Chase = *Trichachne californica* (Bentham) Chase
- Vilfa asperifolia* Nees & Meyer ex Trinius = *Muhlenbergia asperifolia* (Nees & Meyer ex Trinius) Parodi  
*cryptandra* (Torrey) Torrey ex Trinius var. *flexuosa* Thurber ex Vasey = *Sporobolus flexuosus* (Thurber ex Vasey) Rydberg  
*cuspidata* Torrey ex Hooker = *Muhlenbergia cuspidata* (Torrey ex Hooker) Rydberg  
*depauperata* Torrey ex Hooker var. *filiformis* Thurber ex S. Watson = *Muhlenbergia filiformis* (Thurber ex S. Watson) Rydberg  
*heterolepis* A. Gray = *Sporobolus heterolepis* (A. Gray) A. Gray  
*ramulosa* Kunth = *Muhlenbergia ramulosa* (Kunth) Swallen  
*richardsonis* Trinius = *Muhlenbergia richardsonis* (Trinius) Rydberg

*rigida* Buckley = *Sporobolus rigidus* (Buckley) P.M. Peterson  
*tricholepis* Torrey = *Muhlenbergia tricholepis* (Torrey) Columbus  
*vaginiflora* Torrey ex Gray = *Sporobolus vaginiflorus* (Torrey ex Gray) Wood

**Vulpia** sixweeks-fescue

- Allred, K.W. 2008. *Vulpia octoflora* (Walter) Rydberg var. *tenella* (Willdenow) Fernald: The correct name for what has been called *Vulpia octoflora* (Walter) Rydberg var. *glauca* (Nuttall) Fernald. *Phytologia* 90(3):414-415.
- Cotton, R. & C.A. Stace. 1967. Taxonomy of the genus *Vulpia* (Gramineae): I. Chromosome numbers and geographical distribution of the Old World species. *Genetica* 46:235-255.
- Darbyshire, S.J. & S.I. Warwick. 1992. Phylogeny of North American *Festuca* (Poaceae) and related genera using chloroplast DNA restriction site variation. *Can. J. Bot.* 70:2415-2429.
- Hatch, S.L. 1977. New grass distribution records for New Mexico and the United States. *Great Basin Naturalist* 37(4):530-531. [*Vulpia myuros*]
- Lonard, R.I. & F.W. Gould. 1974. The North American species of *Vulpia* (Gramineae). *Madroño* 22:217-230.
- Spellenberg, R., M. Mahrt & R. Brozka. 1991. Noteworthy collections, New Mexico. *Madroño* 38:298-301. [*Vulpia microstachya microstachya*]
- \*bromoides** (Linnaeus) S.F. Gray [Allred 2005]  
*Festuca bromoides* Linnaeus  
*Festuca dertonensis* (Allioni) Ascherson & Graebner
- microstachya** (Nuttall) Munro ex Bentham var. **microstachya** [Allred 2005]  
*Festuca microstachya* Nuttall
- microstachya** (Nuttall) Munro ex Bentham var. **pauciflora** (Scribner ex Beal)  
 Lonard & Gould [Allred 2005; M&H; W&S]  
*Festuca microstachya* Nuttall var. *pauciflora* Scribner ex Beal  
*Festuca pacifica* Piper
- myuros* (Linnaeus) C.C. Gmelin var. *hirsuta* Hackel = *Vulpia myuros* (Linnaeus) C.C. Gmelin forma *megalura* (Nuttall) Stace & Cotton
- \*myuros** (Linnaeus) C.C. Gmelin forma **megalura** (Nuttall) Stace & Cotton [Allred 2005; M&H]  
*Festuca megalura* Nuttall  
*Vulpia myuros* (Linnaeus) C.C. Gmelin var. *hirsuta* Hackel
- \*myuros** (Linnaeus) C.C. Gmelin forma **myuros** [Allred 2005; Hatch 1977; M&H]  
*Festuca myuros* Linnaeus  
*Vulpia myuros* (Linnaeus) C.C. Gmelin var. *myuros*
- myuros* (Linnaeus) C.C. Gmelin var. *myuros* = *Vulpia myuros* (Linnaeus) C.C. Gmelin forma *myuros*
- octoflora* (Walter) Rydberg var. *glauca* (Nuttall) Fernald = *Vulpia octoflora* (Walter) Rydberg var. *tenella* (Willdenow) Fernald
- octoflora** (Walter) Rydberg var. **tenella** (Willdenow) Fernald [Allred 2005; M&H]  
*Festuca octoflora* Walter var. *glauca* (Nuttall) Fernald  
*Festuca octoflora* Walter var. *tenella* (Willdenow) Fernald  
*Festuca tenella* Willdenow var. *glauca* Nuttall  
*Festuca tenella* Willdenow var. *tenella* (autonym created by var. *glauca*; the autonym has priority)  
*Vulpia octoflora* (Walter) Rydberg var. *glauca* (Nuttall) Fernald
- octoflora** (Walter) Rydberg var. **hirtella** (Piper) Henrard [Allred 2005]  
*Festuca octoflora* Walter subsp. *hirtella* Piper
- octoflora** (Walter) Rydberg var. **octoflora** [Allred 2005; M&H; W&S]  
*Festuca octoflora* Walter var. *octoflora*

**Zea** corn, maize

- Doebley, J.F. & H.H. Iltis. 1980. Taxonomy of *Zea* (Gramineae). I. A subgeneric classification with key to taxa. *Amer. J. Bot.* 67:982-993.
- Iltis, H.H. & J.F. Doebley. 1980. Taxonomy of *Zea* (Gramineae). II. Subspecific categories in the *Zea mays* complex and a generic synopsis. *Amer. J. Bot.* 67:994-1004.
- Iltis, H.H. 2000. Homeotic sexual translocations and the origin of maize (*Zea mays*, Poaceae): A new look at an old problem. *Econ. Bot.* 54:7-42.
- Westerbergh A. and J. F. Doebley. 2002. Morphological traits defining species differences in wild relatives of maize are controlled by multiple quantitative trait loci. *Evolution* 56:273-283.
- \*mays** Linnaeus subsp. **mays** [Allred 2005]

\**Zoysia japonica* Steudel (Japanese zoysiagrass) : Included by Allred (2005) only as an ornamental lawn grass and not known to escape.

\*matrella (Linnaeus) Merrill (Manilla zoysiagrass) : Included by Allred (2005) only as an ornamental lawn grass and not known to escape.

**Zuloagaea**

**bulbosa** (Kunth) Bess [Allred 2005; M&H; W&S]

bulb panic

*Panicum bulbosum* Kunth

*Panicum bulbosum* Kunth var. *minus* Vasey

*Panicum bulbosum* Kunth var. *sciaphilum* (Ruprecht) Hitchcock & Chase

*Panicum plenum* Hitchcock & Chase

**Family PONTEDERIACEAE** [1/2/2]

Horn, C. 2002. Pontederiaceae, pp. 37-46. IN: Flora of North America, vol. 26. Oxford University Press, New York.

Pellegrini, M.O.O., C.N. Horn, & R.F. Almeida. 2018. Total evidence phylogeny of Pontederiaceae (Commelinales) sheds light on the necessity of its recircumscription and synopsis of *Pontederia* L. *PhytoKeys* 108: 25-83.

Rossati, T.J. 1987. The genera of Pontederiaceae in the southeastern United States. *J. Arnold Arbor.* 68:35-71.

**Heteranthera** mud-plantain

Adams, T. 1998. New plant distribution records. *The New Mexico Botanist* 7:6. [*Heteranthera rotundifolia*]

Pellegrini, M.O.O. 2017. Two new synonyms for *Heteranthera* (Pontederiaceae, Commelinales). *Nordic Journal of Botany* 35(1): 124-128.

dubia (Jacquin) MacMillan : Reported as expected by M&H; awaits verification.

**limosa** (Swartz) Willdenow [Horn 2002; M&H; W&S]

*Pontederia limosa* Swartz

*limosa* (Swartz) Willdenow var. *rotundifolia* Kunth = *Heteranthera rotundifolia* (Kunth) Grisebach

**rotundifolia** (Kunth) Grisebach [Adams 1998; Horn 2002]

*Heteranthera limosa* (Swartz) Willdenow var. *rotundifolia* Kunth

*Pontederia limosa* Swartz = *Heteranthera limosa* (Swartz) Willdenow

**Family POTAMOGETONACEAE** [3/15/17]

[Zannichelliaceae]

Judd, W.S., C.S. Campbell, E.A. Kellogg, P.F. Stevens, & M.J. Donoghue. 2016. *Plant Systematics: A Phylogenetic Approach*, 4<sup>th</sup> ed. Sinauer Associates, Inc., Sunderland, Massachusetts. 677 pp.

Lindqvist, C., J. DeLaet, R.R. Haynes, L. Aagesen, B.R. Keener, & V.A. Albert. 2006. Molecular phylogenetics of an aquatic plant lineage, Potamogetonaceae. *Cladistics* 22: 568-588.

**Potamogeton** pondweed

Catling, P.M. & I. Dobson. 1985. The biology of Canadian weeds. 69. *Potamogeton crispus* L. *Canad. J. Plant Sci.* 65:655-668.

Correll, D.S. and H.B. Correll. 1972. *Aquatic and Wetland Plants of Southwestern United States*. Stanford Univ. Press.

Haynes, R.R. 1974. A revision of North American *Potamogeton* subsection *Pusilli* (Potamogetonaceae). *Rhodora* 76:564-649.

Haynes, R.R. & C.B. Hellquist. 2000. Potamogetonaceae, p. 47-74. IN: *Flora North America*, vol. 22. Oxford University Press. [Potamogeton pusillus pusillus]

McGrath, J. 2000. New plant distribution records. *The New Mexico Botanist* 15:7. [*Potamogeton alpinus*]

McGrath, J. 2001. New plant distribution records. *The New Mexico Botanist* 19:3. [*Potamogeton richardsonii*]

Reznicek, A.A. & R.S.W. Bobbette. 1976. The taxonomy of *Potamogeton* subsection *Hybridi* in North America. *Rhodora* 78:650-673.

Stuckey, R.L. 1979. Distributional history of *Potamogeton crispus* (curly pondweed) in North America. *Bartonia* 46:22-42.

Wiegleb, G. & Z. Kaplan. 1998. An account of the species of *Potamogeton* L. (Potamogetonaceae). *Folia Geobotanica* 33(3):241-316.

**alpinus** Balbis [McGrath 2000]

*americanus* Chamisso & Schlechtendal = *Potamogeton nodosus* Poiret

*berchtoldii* Fieber = *Potamogeton pusillus* Linnaeus var. *tenuissimus* Mertens & Koch

*berchtoldii* Fieber var. *tenuissimus* (Mertens & Koch) Fernald = *Potamogeton pusillus*

Linnaeus var. *tenuissimus* Mertens & Koch

\***crispus** Linnaeus [M&H]

**diversifolius** Rafinesque [M&H]

- filiformis* Persoon var. *alpina* (Blytt) Ascherson & Graebner = *Stuckenia filiformis* (Persoon) Börner subsp. *alpina* (Blytt) R.R. Haynes, Les, & M. Kral  
*filiformis* Persoon var. *borealis* (Rafinesque) St. John = *Stuckenia filiformis* (Persoon) Börner subsp. *alpina* (Blytt) R.R. Haynes, Les, & M. Kral  
*filiformis* Persoon var. *macounii* Morong = *Stuckenia filiformis* (Persoon) Börner subsp. *alpina* (Blytt) R.R. Haynes, Les, & M. Kral

***foliosus*** Rafinesque var. ***foliosus*** [M&H; W&S]

- Potamogeton foliosus* Rafinesque var. *genuinus* Fernald  
*Potamogeton foliosus* Rafinesque var. *macellus* Fernald  
*foliosus* Rafinesque var. *genuinus* Fernald = *Potamogeton foliosus* Rafinesque  
*foliosus* Rafinesque var. *macellus* Fernald = *Potamogeton foliosus* Rafinesque  
***gramineus*** Linnaeus [M&H; W&S]

- Potamogeton gramineus* Linnaeus var. *typicus* Ogden  
*Potamogeton gramineus* Linnaeus var. *maximus* Morong  
*gramineus* Linnaeus var. *maximus* Morong = *Potamogeton gramineus* Linnaeus  
*gramineus* Linnaeus var. *typicus* Ogden = *Potamogeton gramineus* Linnaeus

***illinoensis*** Morong [M&H]

- latifolius* (J.W. Robbins) Morong = *Stuckenia striata* (Ruiz & Pavon) Holub  
*marinus* Linnaeus forma *alpinus* Blytt = *Stuckenia filiformis* (Persoon) Börner subsp. *alpina* (Blytt) R.R. Haynes  
*marinus* Linnaeus var. *occidentalis* J.W. Robbins = *Stuckenia filiformis* (Persoon) Börner subsp. *occidentalis* (J.W. Robbins) R.R. Haynes, Les, & M. Kral

***natans*** Linnaeus [M&H; W&S]

***nodosus*** Poiret [M&H; W&S]

- Potamogeton americanus* Chamisso & Schlechtendal  
*pectinatus* Linnaeus = *Stuckenia pectinata* (Linnaeus) Börner  
*perfoliatus* Linnaeus var. *richardsonii* Bennett = *Potamogeton richardsonii* (Bennett) Rydberg  
*pinnatum* Walter = *Myriophyllum pinnatum* (Walter) pinnatum (Walter) Britton, Sterns, & Poggenburg (Haloragaceae)

***pusillus*** Linnaeus var. ***pusillus*** [Haynes & Hellquist 2000]

***pusillus*** Linnaeus var. ***tenuissimus*** Mertens & Koch [Correll & Correll 1972; M&H]

- Potamogeton berchtoldii* Fieber  
*Potamogeton berchtoldii* Fieber var. *tenuissimus* (Mertens & Koch) Fernald  
***richardsonii*** (Bennett) Rydberg [McGrath 2001]

- Potamogeton perfoliatus* Linnaeus var. *richardsonii* Bennett  
*striatus* Ruiz & Pavon = *Stuckenia striata* (Ruiz & Pavon) Holub  
*vaginatus* Turczaninow = *Stuckenia vaginata* (Turczaninow) Holub

***Stuckenia*** pondweed

- Haynes, R.R. & C.B. Hellquist. 2000. Potamogetonaceae, p. 47-74. IN: Flora North America, vol. 22. Oxford University Press.  
 Heil, K. 2007. Plant distribution reports [*Stuckenia vaginata*]. The New Mexico Botanist 39:7.  
 Hellquist, C.B. 2013. Potamogetonaceae, pp. 870-874. IN: K.D. Heil, S.L. O'Kane, Jr., L.M. Reeves, & A. Clifford. Flora of the Four Corners Region. Missouri Botanical Garden Press, St. Louis. 1098 pp. [*Stuckenia striata*]  
 Holub, J. 1997. *Stuckenia* Boerner 1912 – the correct name for *Coleogeton* (Potamogetonaceae). Preslia 69: 361-366.

***filiformis*** (Persoon) Börner subsp. ***alpina*** (Blytt) R.R. Haynes, Les, & M. Kral [Haynes & Hellquist 2000; M&H]

- Potamogeton filiformis* Persoon var. *borealis* (Rafinesque) St. John  
*Potamogeton filiformis* Persoon var. *macounii* Morong  
*Potamogeton marinus* Linnaeus forma *alpinus* Blytt  
***filiformis*** (Persoon) Börner subsp. ***occidentalis*** (J.W. Robbins) R.R. Haynes, Les, & M. Kral [Haynes & Hellquist 2000]

*Potamogeton marinus* Linnaeus var. *occidentalis* J.W. Robbins

***pectinata*** (Linnaeus) Börner [Haynes & Hellquist 2000; M&H; W&S]

- Potamogeton pectinatum* Linnaeus  
***striata*** (Ruiz & Pavon) Holub [Hellquist 2013]  
*Potamogeton latifolius* (J.W. Robbins) Morong  
*Potamogeton striatus* Ruiz & Pavon

**vaginata** (Turczaninow) Holub [Heil 2007]  
*Potamogeton vaginatus* Turczaninow

*Ruppia*...go to RUPPIACEAE

**Zannichellia** horned-pondweed

Haynes, R.R. & C.B. Hellquist. 2000. Zannichelliaceae, p. 84-85. IN: Flora North America, vol. 22. Oxford University Press.

**palustris** Linnaeus [M&H; W&S]

**Family RUPPIACEAE** [1/1/1]

Haynes, R.R. 2000. Ruppiaceae, p. 75-76. IN: Flora North America, vol. 22. Oxford University Press.  
 Judd, W.S., C.S. Campbell, E.A. Kellogg, P.F. Stevens, & M.J. Donoghue. 2016. Plant Systematics: A Phylogenetic Approach, 4<sup>th</sup> ed. Sinauer Associates, Inc., Sunderland, Massachusetts. 677 pp.

*Buccaferrera cirrhosa* Petagna = *Ruppia cirrhosa* (Petagna) Grande

**Ruppia** ditch-grass

Ito, Y., T. Ohi-Toma, C. Nepi, A. Santangelo, A. Stinca, N. Tanaka, & J. Murata. 2017. Towards a better understanding of the *Ruppia maritima* complex (Ruppiaceae): Notes on the correct application and typification of the names *R. cirrhosa* and *R. spiralis*. Taxon 66(1): 167-171.

*cirrhosa* (Petagna) Grande = *Ruppia maritima* Linnaeus

*Buccaferrera cirrhosa* Petagna

*cirrhosa* of NM reports = *Ruppia spiralis* Linnaeus ex Dumortier

*maritima* of NM reports = *Ruppia spiralis* Linnaeus ex Dumortier

**spiralis** Linnaeus ex Dumortier [Haynes 2000; M&H]

*Ruppia cirrhosa* of NM reports

*Ruppia maritima* of NM reports

**Family RUSACEAE** [4/8/8]

[Convallariaceae, Dracaenaceae, Nolinaceae]

Bogler, D. 1998. Nolinaceae, pp. 392-397. IN: K. Kubitzki (ed.). The Families and Genera of Vascular Plants. Vol. III. Flowering Plants - Monocotyledons, Liliaceae (except Orchidaceae). Springer-Verlag, New York.

Bogler, D.J. & B.B. Simpson. 1995. A chloroplast DNA study of the Agavaceae. Syst. Bot. 20(2):191-205.  
 Judd, Walter S., Christopher S. Campbell, Elizabeth A. Kellogg, Peter F. Stevens, & Michael J. Donoghue. 2016. Ruscaceae, pp.280-282. Plant Systematics, A Phylogenetic Approach, Sinauer Associates, Inc.

*Convallaria biflora* Walter = *Polygonatum biflorum* (Walter) Elliott

**Dasyliion** sotol

Bogler, D.J. 1995. Systematics of *Dasyliion*: Taxonomy and molecular phylogeny. Bol. Soc. Bot. Mexico. 56:69-76.

Bogler, D.J. 2002. *Dasyliion*, pp. 422-423. IN: Flora of North America, vol. 26. Oxford University Press, New York.

**leiophyllum** Engelmann ex Trelease [Bogler 2002; W&S]

**wheeleri** S. Watson ex Rothrock [Bogler 2002; M&H; W&S]

**Maianthemum** false Solomon's-seal

Cronquist, a. 1977. *Smilacina*, pp 482-484. IN: Intermountain Flora, Vol.6 (Monocotyledons). New York Botanical Garden

Galway, D.H. 1945. The North American species of *Smilacina*. Amer. Midl. Naturalist 33:644-666.

LaFrankie, J.V., Jr. 1986. Transfer of the species of *Smilacina* to *Maianthemum* (Liliaceae). Taxon 35:584-589.

LaFrankie, J.V.. 2002. *Maianthemum*, pp. 206-210. IN: Flora of North America, vol. 26. Oxford University Press, New York.

**racemosum** (Linnaeus) Link subsp. **amplexicaule** (Nuttall) LaFrankie [LaFrankie 2002; M&H; W&S]

*Maianthemum racemosum* (Linnaeus) Link var. *amplexicaule* (Nuttall) Dorn

*Smilacina racemosa* (Linnaeus) Desfontaines var. *amplexicaulis* (Nuttall) S.

Watson

*Vagnera amplexicaulis* (Nuttall) Greene

*racemosum* (Linnaeus) Link var. *amplexicaule* (Nuttall) Dorn = *Maianthemum racemosum*

(Linnaeus) Link subsp. *amplexicaule* (Nuttall) LaFrankie

*racemosum* (Linnaeus) Link s.s. : Not known from NM; our material is referred to subsp. *amplexicaule* (Nuttall) LaFrankie.

*Smilacina racemosa* (Linnaeus) Desfontaines var. *racemosa*

**stellatum** (Linnaeus) Link [LaFrankie 2002; M&H; W&S]

*Smilacina stellata* (Linnaeus) Desfontaines

*Vagnera stellata* (Linnaeus) Morong

***Nolina*** beargrass

Hess, W.J. 2002. *Nolina*, pp. 415-421. IN: Flora of North America, vol. 26. Oxford University Press, New York.

***micrantha*** I.M. Johnston [Hess 2002]

***microcarpa*** S. Watson [Hess 2002; M&H; W&S]

***texana*** S. Watson [Hess 2002; M&H]

*Nolina greenei* S. Watson

*greenei* S. Watson = *Nolina texana* S. Watson

***Polygonatum*** Solomon's-seal

Ownbey, R.P. 1944. The liliaceous genus *Polygonatum* in North America. Ann. Missouri Bot. Gard. 31:373-413.

Utech, F.H. 2002. *Polygonatum*, pp. 210-212. IN: Flora of North America, vol. 26. Oxford University Press, New York.

***biflorum*** (Walter) Elliott [M&H; Utech 2002]

*Convallaria biflora* Walter

*Polygonatum biflorum* (Walter) Elliott var. *commutatum* (J.A. & J.H. Schultes) Morong

*Polygonatum cobrense* (Wooton & Standley) Gates

*Polygonatum commutatum* (Roemer & Schultes) Dietrich

*Salomonium cobrensis* Wooton & Standley

*biflorum* (Walter) Elliott var. *commutatum* (J.A. & J.H. Schultes) Morong = *Polygonatum biflorum* (Walter) Elliott

*cobrense* (Wooton & Standley) Gates = *Polygonatum biflorum* (Walter) Elliott

*commutatum* (Roemer & Schultes) Dietrich = *Polygonatum biflorum* (Walter) Elliott

*Salomonium cobrensis* Wooton & Standley = *Polygonatum cobrense* (Wooton & Standley) Gates

*Smilacina racemosa* (Linnaeus) Desfontaines var. *amplexicaulis* (Nuttall) S. Watson =

*Maianthemum racemosum* (Linnaeus) Link subsp. *amplexicaule* (Nuttall) LaFrankie

*racemosa* (Linnaeus) Desfontaines var. *racemosa* = *Maianthemum racemosum* (Linnaeus) Link subsp. *racemosum*

*stellata* (Linnaeus) Desfontaines = *Maianthemum stellatum* (Linnaeus) Link

*Uvularia amplexifolia* Linnaeus = *Streptopus amplexifolia* (Linnaeus) A.P. de Candolle (Liliaceae)

*Vagnera amplexicaulis* (Nuttall) Greene = *Maianthemum racemosum* (Linnaeus) Link subsp. *amplexicaule* (Nuttall) LaFrankie

*stellata* (Linnaeus) Morong = *Maianthemum stellatum* (Linnaeus) Link

Family SPARGANIACEAE = TYPHACEAE

**Family THEMIDACEAE** [4/4/4]

Fay, M.F. & M.W. Chase. 1996. Resurrection of Themidaceae for the *Brodiaea* alliance, and recircumscription of Alliaceae, Amaryllidaceae, and Agapanthoideae. Taxon 45(3):441-451.

Judd, W.S., C.S. Campbell, E.A. Kellogg, P.F. Stevens, & M.J. Donoghue. 2016. Plant Systematics: A Phylogenetic Approach, 4<sup>th</sup> ed. Sinauer Associates, Inc., Sunderland, Massachusetts. 677 pp.

***Androstephium*** funnel-lily

Pires, J.C. & J.L. Reveal. 2002. *Androstephium*, pp. 333. IN: Flora of North America, vol. 26. Oxford University Press, New York.

***breviflorum*** S. Watson [M&H; Pires & Reveal 2002]

*Brodiaea capitata* Bentham var. *pauciflora* Torrey = *Dipterostemon capitatus* (Bentham)

Rydberg subsp. *pauciflorum* (Torrey) R.E. Preston

*congesta* Smith = *Dichelostemma congesta* (Smith) Kunth

*Dichelostemma capitatum* (Bentham) Wood subsp. *pauciflorum* (Torrey) G. Keator =

*Dipterostemon capitatus* (Bentham) Rydberg subsp. *pauciflorum* (Torrey) R.E. Preston

*congestum* (Small) Kunth : Plants of *Dipterostemon capitatus* (Bentham) Rydberg subsp. *pauciflorum* (Torrey) R.E. Preston are occasionally misidentified as this; no specimens are known of *Dichelostemma congestum* (Small) Kunth from NM.

*Brodiaea congesta* Smith

- pauciflorum* (Torrey) Standley = *Dipterostemon capitatus* (Bentham) Rydberg subsp. *pauciflorum* (Torrey) R.E. Preston  
*pulchellum* (Salisbury) Heller var. *pauciflorum* (Torrey) Hoover = *Dipterostemon capitatus* (Bentham) Rydberg subsp. *pauciflorum* (Torrey) R.E. Preston

**Dipterostemon** bluedicks

- Pires, J.C. 2002. *Dichelostemma*, pp. 328-331. IN: Flora of North America, vol. 26. Oxford University Press, New York.  
 Preston, R.E. 2017. New nomenclatural combinations for blue dicks (*Dipterostemon capitatus*); Asparagaceae: Brodiaeaceae. Phytoneuron 2017-15: 1-11.  
 Ry, B. 1996. Development of ovule, embryo sac, and endosperm in *Dipterostemon* and *Dichelostemma* (Alliaceae) relative to taxonomy. Amer. J. Bot. 83(6):790-801.

- capitatus** (Bentham) Rydberg subsp. **pauciflorus** (Torrey) R.E. Preston [M&H; Pires 2002; W&S]

- Brodiaea capitata* Bentham var. *pauciflora* Torrey  
*Dichelostemma capitatum* (Bentham) Wood  
*Dichelostemma pauciflorum* (Torrey) Standley  
*Dichelostemma pulchellum* (Salisbury) Heller var. *pauciflorum* (Torrey) Hoover  
*Dipterostemon pauciflorus* (Torrey) Rydberg  
*pauciflorus* (Torrey) Rydberg = *Dipterostemon capitatus* (Bentham) Rydberg subsp. *pauciflorum* (Torrey) R.E. Preston

**Milla** Mexican-star

- McNeal, D.W., Jr. 2002. *Milla*, pp. 346-347. IN: Flora of North America, vol. 26. Oxford University Press, New York.

- biflora** Cavanilles [M&H; McNeal 2002; W&S]

**Muilla** muilla

- Shevock, J.R. 1984. Redescription and distribution of *Muilla coronata* (Liliaceae). Aliso 10: 621-627.  
**coronata** Greene [TCFMM]

**Family TYPHACEAE** [2/7/7]

[Sparganiaceae]

- Judd, W.S., C.S. Campbell, E.A. Kellogg, P.F. Stevens, & M.J. Donoghue. 2016. Plant Systematics: A Phylogenetic Approach, 4<sup>th</sup> ed. Sinauer Associates, Inc., Sunderland, Massachusetts. 677 pp.  
 Kaul, R.B. 2000. Sparganiaceae, p. 270-277. IN: Flora North America, vol. 2. Oxford Univ. Press.  
 Smith, S.G. 2000. Typhaceae, p.278-285. IN: Flora North America, vol. 22. Oxford University Press.

**Sparganium** bur-reed

- Hellquist, C.B. 2013. *Sparganium*, pp. 958-960. IN: K.D. Heil, S.L. O’Kane, Jr., L.M. Reeves, & A. Clifford. Flora of the Four Corners Region. Missouri Botanical Garden Press, St. Louis. 1098 pp.  
 McGrath, J. 2000. Notes on *Sparganium emersum* and *S. angustifolium*. The New Mexico Botanist 15:5.

- angustifolium** Michaux [Kaul 2000; M&H]

- Sparganium multipedunculatum* (Morong) Rydberg

- emersum** Rehmman [McGrath 2000]

- eurycarpum** Engelmann ex Gray [Kaul 2000; M&H]

- minimum* of authors = *Sparganium natans* Linnaeus

- multipedunculatum* (Morong) Rydberg = *Sparganium multipedunculatum* (Morong) Rydberg

- natans** Linnaeus [Hellquist 2013]

- Sparganium minimum* of authors

**Typha** cattail

- Hotchkiss, N. 1949. Taxonomy and distribution of North American cat-tails. Amer. Midl. Natur. 41:237-254.

- Smith, S.G. 2000. Typhaceae, pp. 278-285. IN: Flora North America, vol. 22. Oxford University Press.  
 Spellenberg, R., R. Worthington, P. Knight, & R. Fletcher. 1986. Additions to the flora of New Mexico. Sida 11(4):455-470. [*Typha domingensis*]

- \*angustifolia** Linnaeus [M&H; Smith 2000]

- domingensis** Persoon [Smith 2000; Spellenberg et al. 1986]

- latifolia** Linnaeus [M&H; Smith 2000; W&S]

Family ZANNICHELLIACEAE = POTAMOGETONACEAE





## ANGIOSPERMS

## Dicotyledonous Plants

(Eudicots and other non-monocots)

**Family ACANTHACEAE** [8/10/12]Daniel, T.F. 1984. The Acanthaceae of the southwestern United States. *Desert Plants* 5(4):162-179.Daniel, T.F. 2016. Vascular plants of Arizona: Acanthaceae Acanthus or Shrimp-Plant Family. *Canotia* 12:22-54.

- Anisacanthus** desert-honeysuckle  
**thurberi** (Torrey) Gray [Daniel 1984; M&H; W&S]  
*Drejera thurberi* Torrey
- Calophanes decumbens* Gray = *Dyschoriste schiedeana* (Nees) Kuntze var. *decumbens* (Gray) Henrickson  
*oblongifolia* Torrey = *Dyschoriste schiedeana* (Nees) Kuntze var. *decumbens* (Gray) Henrickson
- Carlowrightia** carlowrightia  
**linearifolia** (Torrey) Gray [Daniel 1984; M&H; W&S]  
*Schaueria linearifolia* Torrey  
*serpyllifolia* Gray : Reported as expected by M&H; awaits verification.  
**texana** Henrickson & Daniel [Daniel 1984]  
*torreyana* of NM reports = *Carlowrightia texana* Henrickson & Daniel
- Diapedium torreyi* (Gray) Wooton & Standley = *Dicliptera resupinata* (Vahl) Jussieu
- Dicliptera** dicliptera  
**resupinata** (Vahl) Jussieu [Daniel 1984; M&H; W&S]  
*Diapedium torreyi* (Gray) Wooton & Standley  
*Dicliptera torreyi* Gray  
*Justicia resupinata* Vahl  
*torreyi* Gray = *Dicliptera resupinata* (Vahl) Jussieu
- Drejera thurberi* Torrey = *Anisacanthus thurberi* (Torrey) Gray
- Dyschoriste** snakeherb  
Chumchim, N., L.A. McDade, & A.E. Fisher. 2015. Phylogeny of *Dyschoriste* (Acanthaceae). *Aliso* 33(2): 77-89.  
Henrickson, J. 1999. Studies in the genus *Dyschoriste* (Acanthaceae): I. Plants of northern Mexico, Texas to Arizona. *Lundellia* 2:72-99.
- schiedeana** (Nees) Kuntze var. **cinerascens** Henrickson & Hilsenbeck [Henrickson 1999]  
**schiedeana** (Nees) Kuntze var. **decumbens** (Gray) Henrickson [Daniel 1984; M&H]  
*Calophanes decumbens* Gray  
*Calophanes oblongifolia* Torrey  
*decumbens* (Gray) Kuntze = *Dyschoriste schiedeana* (Nees) Kuntze var. *decumbens* (Gray) Henrickson  
*linearis* (Torrey & Gray) Kuntze : Reported by M&H, but not occurring in NM [Daniel 1984].
- Elytraria** scalystem  
**imbricata** (Vahl) Persoon [Daniel 1984; M&H; W&S]  
*Elytraria tridentata* Vahl  
*Justicia imbricata* Vahl  
*Tubiflora squamosa* (Jacquin) Kuntze  
*tridentata* Vahl = *Elytraria imbricata* (Vahl) Persoon
- Gerardia barbata* (Torrey & Gray) Blake = *Stenandrium barbatum* Torrey & Gray
- Justicia** water-willow  
Daniel, T.F. 1980. The genus *Justicia* in the Chihuahuan Desert. *Cont. Univ. Mich. Herb.* 14:61-67.  
Hilsenbeck, R.A. 1990. Systematics of *Justicia* sect. *Pentaloba* (Acanthaceae). *Pl. Syst. Evol.* 169:219-235.  
Kiel, C.A., T.F. Daniel, I. Darbyshire, & L.A. McDade. 2017. Unraveling relationships in the morphologically diverse and taxonomically challenging “justicioid” lineage (Acanthaceae: Justiceae). *Taxon* 66(3): 645-674.  
*imbricata* Vahl = *Elytraria imbricata* (Vahl) Persoon

*resupinata* Vahl = *Dicliptera resupinata* (Vahl) Jussieu

***pilosella*** (Nees) Hilsenbeck [Daniel 1984]

*Monechma pilosella* Nees

*Siphonoglossa pilosella* (Nees) Torrey

***wrightii*** Gray [Daniel 1980, 1984]

*Monechma pilosella* Nees = *Justicia pilosella* (Nees) Hilsenbeck

***Ruellia*** ruellia

Tripp, E.A. & I. Darbyshire. 2017. Phylogenetic relationships among Old World *Ruellia* L.: A new classification and reinstatement of the genus *Dinteracanthus* Schinz. Syst. Bot. 42(3): 470-483.  
metziae Tharp : Reported by M&H, but excluded from the southwestern United States by Daniel (1984).

***parryi*** Gray [Daniel 1984; M&H; W&S]

*Schaueria linearifolia* Torrey = *Carlowrightia linearifolia* (Torrey) Gray

*Siphonoglossa pilosella* (Nees) Torrey = *Justicia pilosella* (Nees) Hilsenbeck

***Stenandrium*** shaggytuft

Daniel, T.F. 1984. A revision of *Stenandrium* (Acanthaceae) in Mexico and adjacent regions. Ann. Missouri Bot. Gard. 71:1028-1043.

***barbatum*** Torrey & Gray [Daniel 1984; M&H; W&S]

*Gerardia barbata* (Torrey & Gray) Blake

***Tetramerium*** tetramerium

***nervosum*** Nees [Daniel 1984]

*Tubiflora squamosa* (Jacquin) Kuntze = *Elytraria imbricata* (Vahl) Persoon

Family ACERACEAE = SAPINDACEAE

### Family AIZOACEAE [2/2/2]

Holmgren, N.H. & P.K. Holmgren. 2012. Aizoaceae, pp 568-572. IN: Intermountain Flora, vol.2, part A. New York Botanical Garden Press, New York.

Vivrette, N.J., J.E. Bleck, & W.R. Ferren, Jr. 2003. Aizoaceae, pp. 75-91. IN: Flora of North America, vol. 4. Oxford University Press, New York.

*Mollugo*...go to MOLLUGINACEAE

***Sesuvium*** sea-purslane

Bohley, K., P.J.D. Winter, & G. Kadereit. 2017. A revision of *Sesuvium* (Aizoaceae, Sesuvioideae). Systematic Botany 42(1): 124-147.

*sessile* of NM authors = *Sesuvium verrucosum* Rafinesque

***verrucosum*** Rafinesque [Bohley et al. 2017; M&H]

*Sesuvium sessile* of NM authors, not Persoon

***Trianthema*** horse-purslane

***portulacastrum*** Linnaeus [M&H]

Family ALLIONIACEAE = NYCTAGINACEAE

Family ALSINACEAE = CARYOPHYLLACEAE

### Family AMARANTHACEAE [27/98/108]

Fuentes-Bazan, S., Perti Uotila & Thomas Borsch. 2012. A novel phylogeny-based generic classification for *Chenopodium* sensu lato, and a tribal rearrangement for *Chenopodioidae* (*Chenopodiaceae*). Willdenowia 42:5-24.

Holmgren, N.H. & Patricia Holmgren. 2012. Chenopodiaceae, pp 470-541. IN: Intermountain Flora, vol.2, part A. New York Botanical Garden Press, New York.

Holmgren, N.H. & Patricia Holmgren. 2012. Amaranthaceae, pp 547-568. IN: Intermountain Flora, vol.2, part A. New York Botanical Garden Press, New York.

Judd, Walter S., Christopher S. Campbell, Elizabeth A. Kellogg, Peter F. Stevens, & Michael J. Donoghue. 2016. Amaranthaceae, pp.450-452. Plant Systematics, A Phylogenetic Approach, Sinauer Associates, Inc.

Masson, R. & G. Kadereit. 2013. Phylogeny of Polycnemoideae (Amaranthaceae): Implications for biogeography, character evolution and taxonomy. Taxon 62(1): 100-111.

Mosyakin, S.L. 2013. New nomenclatural combinations in *Blitum*, *Oxybasis*, *Chenopodiastrium*, and *Lipandra* (Chenopodiaceae). Phytoneuron 2013-56:1-8

Robertson, K.R. 1981. The genera of Amaranthaceae in the southeastern United States. J. Arnold Arbor. 62(30):267-314.

- Robertson, K.R. & S.E. Clemants. 2003. Amaranthaceae, pp. 405-456. IN: Flora of North America, vol. 4, pt. 1. Oxford University Press, New York.
- Welsh, S.L., C.W. Crompton, & S.E. Clemants. 2003. Chenopodiaceae. IN: Flora of North America, vol. 4, pt. 1. Oxford University Press, New York.
- Acanthochiton wrightii* Torrey = *Amaranthus acanthochiton* (Torrey) Sauer
- Achyranthes lanuginosa* Nuttall = *Tidestromia lanuginosa* (Nuttall) Standley subsp. *lanuginosa repens* Linnaeus = *Alternanthera pungens* Kunth
- Acnida tamariscina* (Nuttall) Wood = *Amaranthus tuberculatus* (Moquin-Tandon) J.D. Sauer
- tuberculata* Moquin-Tandon = *Amaranthus tuberculatus* (Moquin-Tandon) J.D. Sauer
- Allenrolfea** iodinebush
- Shultz, Leila M. 2003. *Allenrolfea*, p. 321. IN: Flora of North America, vol.4, pt.1. Oxford University Press, New York.
- Holmgren, Noel H. & Patricia Holmgren. 2012. *Allenrolfea*, p. 532. IN: Intermountain Flora, vol.2, part A. New York Botanical Garden Press, New York.
- occidentalis** (S. Watson) Kuntze [M&H; W&S]
- Halostachys occidentalis* S. Watson
- Salicornia occidentalis* (S. Watson) Greene
- Alternanthera** khaki-weed
- Clemants, S.E. 2003. *Alternanthera*, pp. 447-451. IN: Flora of North America, vol. 4, pt. 1. Oxford University Press, New York.
- Holmgren, N. H. & P.K. Holmgren. 2012. *Alternanthera*, pp 566-567. IN: Intermountain Flora, vol.2, part A. New York Botanical Garden Press, New York.
- \***caracasana** Kunth [Clemants 2003; M&H; W&S]
- Alternanthera repens* of early NM reports
- \***pungens** Kunth [FNM I]
- Achyranthes repens* Linnaeus
- Alternanthera repens* (Linnaeus) Link, non J.F. Gmelin
- repens* (Linnaeus) Link, non J.F. Gmelin = *Alternanthera pungens* Kunth
- suffruticosa* Torrey = *Tidestromia suffruticosa* (Torrey) Standley
- Amaranthus** amaranth, pigweed
- Adhikary, Dinesh & Donald B. Pratt. 2015. Morphologic and taxonomic analysis of the weedy and cultivated *Amaranthus hybridus* species complex. Systematic Botany: 604-610.
- Costea, M., A. Sanders, & G. Waines. 2001. Preliminary results toward a revision of the *Amaranthus hybridus* species complex (Amaranthaceae). Sida 19(4):931-974.
- Henrickson, J. 1999. Studies in New World *Amaranthus* (Amaranthaceae). Sida 18(3):783-807.
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- Uline, E.B. & W.L. Bray. 1894. A preliminary synopsis of the North America species of *Amaranthus*. The Botanical Gazette 19:267-272, 313-320.
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- acanthochiton** J.D. Sauer [M&H; Mosyakin & Robertson 2003; W&S]
- greenstripe
- Acanthochiton wrightii* Torrey
- not *Amaranthus wrightii* S. Watson
- \***albus** Linnaeus [M&H; Mosyakin & Robertson 2003; W&S]
- Amaranthus albus* Linnaeus var. *pubescens* (Uline & Bray) Fernald
- Amaranthus graecizans* of Amer. authors, pro parte
- Amaranthus graecizans* Linnaeus var. *pubescens* Uline & Bray
- Amaranthus pubescens* (Uline & Bray) Rydberg
- albus* Linnaeus var. *pubescens* (Uline & Bray) Fernald = *Amaranthus albus* Linnaeus
- arenicola** I.M. Johnston [M&H; Mosyakin & Robertson 2003]

- bigelovii* Uline & Bray = *Amaranthus torreyi* (A. Gray) Bentham ex S. Watson  
**\*blitoides** S. Watson [M&H; Mosyakin & Robertson 2003; W&S]  
*Amaranthus graecizans* of Amer. authors, pro parte  
*bracteosus* Uline & Bray = *Amaranthus powellii* S. Watson  
**\*caudatus** Linnaeus : Reported by Tidestrom & Kittell (1941) and Kartesz (2014), but no specimens are known other than ornamentals in cultivation; awaits verification.  
**crassipes** Schlechtendal var. **warnockii** (I.M. Johnston) Henrickson [Henrickson 1999; Mosyakin & Robertson 2003; Sivinski et al. 1994]  
*Amaranthus warnockii* I.M. Johnston  
**\*cruentus** Linnaeus [M&H; W&S]  
 blood amaranth  
*Amaranthus hybridus* Linnaeus var. *paniculatus* (Linnaeus) Uline & Bray  
*Amaranthus paniculatus* Linnaeus  
**fimbriatus** (Torrey) Bentham ex S. Watson [M&H; Mosyakin & Robertson 2003]  
*Sarratia berlandieri* Moquin-Tandon var. *fimbriata* Torrey  
*gracilis* Desfontaines = *Amaranthus viridis* Linnaeus  
*graecizans* of American authors = *Amaranthus blitoides* S. Watson and *Amaranthus albus* Linnaeus  
*graecizans* Linnaeus var. *pubescens* Uline & Bray = *Amaranthus albus* Linnaeus  
**\*hybridus** Linnaeus [M&H; Mosyakin & Robertson 2003; W&S]  
*hybridus* Linnaeus var. *paniculatus* (Linnaeus) Uline & Bray = *Amaranthus cruentus* Linnaeus  
**\*hypochondriacus** Linnaeus [Mosyakin & Robertson 2003; Standley 1917]  
 Prince-of-Wales-feather  
*Amaranthus leucocarpus* S. Watson  
*leucocarpus* S. Watson = *Amaranthus hypochondriacus* Linnaeus  
**obcordatus** (Gray) Standley [M&H]  
*Amblygyna urceolata* Moquin-Tandon var. *obcordata* Gray  
*obovatus* sensu W&S = *Amaranthus powellii* S. Watson  
**palmeri** S. Watson [M&H; Mosyakin & Robertson 2003; W&S]  
*paniculatus* Linnaeus = *Amaranthus cruentus* Linnaeus  
**polygonoides** Linnaeus [Worthington 2010]  
**powellii** S. Watson [M&H; Mosyakin & Robertson 2003; W&S]  
*Amaranthus bracteosus* Uline & Bray  
*Amaranthus obovatus* S. Watson  
*pringlei* S. Watson = *Amaranthus torreyi* (A. Gray) Bentham ex S. Watson  
*pubescens* (Uline & Bray) Rydberg = *Amaranthus albus* Linnaeus  
**\*retroflexus** Linnaeus [M&H; Mosyakin & Robertson 2003; W&S]  
*rudis* Sauer = *Amaranthus tuberculatus* (Moquin-Tandon) J.D. Saur  
*tamariscina* of numerous authors, not (Nuttall) Wood = *Amaranthus tuberculatus* (Moquin-Tandon) J.D. Saur  
**torreyi** (Gray) Bentham ex S. Watson [M&H; Mosyakin & Robertson 2003; W&S]  
*Amaranthus bigelovii* Uline & Bray  
*Amaranthus pringlei* S. Watson  
*Amblygyna torreyi* Gray  
**\*tuberculatus** (Moquin-Tandon) J.D. Saur [M&H; Mosyakin & Robertson 2003]  
*Acnida tamariscina* of numerous authors, not (Nuttall) Wood  
*Acnida tuberculata* Moquin-Tandon  
*Amaranthus rudis* J.D. Saur  
**viridis** Linnaeus [M&H; Mosyakin & Robertson 2003]  
*Amaranthus gracilis* Desfontaines  
**viscidulus** Greene [Mosyakin & Robertson 2003; W&S]  
*warnockii* I.M. Johnston = *Amaranthus crassipes* Schlechtendal var. *warnockii* (I.M. Johnston) Henrickson  
**wrightii** S. Watson [M&H; Mosyakin & Robertson 2003; W&S]  
 not *Acanthochiton wrightii* Torrey  
*Amblygyna torreyi* Gray = *Amaranthus torreyi* (Gray) Bentham ex S. Watson

*urceolata* Moquin-Tandon var. *obcordata* Gray = *Amaranthus obcordatus* (Gray) Standley  
*Anabasis glomerata* Bieberstein = *Halogeton glomeratus* (Bieberstein) C.A. Meyer

**Atriplex** saltbush

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 Henrickson, J. 1988. A revision of the *Atriplex acanthocarpa* complex (Chenopodiaceae). *Southw. Naturalist* 33:451-463.  
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 Sanderson, S.C. & H.C. Stutz. 2001. Chromosome races of fourwing saltbush (*Atriplex canescens*), Chenopodiaceae. *USDA For. Serv. Proc. RMRS-P-21*. p. 75-88.  
 Spellenberg, R., R. Worthington, P. Knight, & R. Fletcher. 1986. Additions to the flora of New Mexico. *Sida* 11(4):455-470. [*Proatriplex pleiantha*]  
 Stutz, H.C. & G.-L. Chu. 1997(1998). *Atriplex pachypoda* (Chenopodiaceae), a new species from southwestern Colorado and northwestern New Mexico. *Madroño* 44(3):277-281.  
 Stutz, H.C., G.-L. Chu, & S.C. Sanderson. 1990. Evolutionary studies of *Atriplex*: phylogenetic relationships of *Atriplex pleiantha*. *Amer. J. Bot.* 77(3):364-369.  
 Stutz, H.C. & S.C. Sanderson. 1998. Taxonomic clarification of *Atriplex nuttallii* (Chenopodiaceae) and its near relatives. *Sida* 18(1):193-212.  
 Wagner, W.L. & E.F. Aldon. 1978. Manual of the saltbushes (*Atriplex* spp.) in New Mexico. *USDA, For. Ser. Gen. Tech. Rpt. RM-57*.  
 Welsh, S.L.. 2003. *Atriplex*, pp. 322-381. IN: *Flora of North America*, vol. 4, pt. 1. Oxford University Press, New York.  
 Welsh, S.L. & C. Crompton. 1995. Names and types in perennial *Atriplex* Linnaeus (Chenopodiaceae) in North America selectively exclusive of Mexico. *Great Basin Naturalist* 55(4):322-334.  
 Welsh, S.L. & J.L. Reveal. 2004. *Atriplex argentea* var. *expansa* (Chenopodiaceae), a new combination for the flora of North America. *Novon* 14: 509.  
 Zacharias, E.H. & B.G. Baldwin. 2010. A molecular phylogeny of North American Atripliceae (Chenopodiaceae), with implications for floral and photosynthetic pathway evolution. *Syst. Bot.* 35(4):839-857.
- acanthocarpa*** (Torrey) S. Watson var. ***acanthocarpa*** [Henrickson 1988; M&H; W&S; Welsh 2003]  
*Obione acanthocarpa* Torrey  
*angustior* Cockerell = *Atriplex canescens* (Pursh) Nuttall  
***argentea*** Nuttall var. ***argentea*** [M&H; W&S; Welsh 2003]  
*Atriplex argentea* Nuttall var. *caput-medusae* (Eastwood) Fosberg  
*Atriplex caput-medusae* Eastwood  
*argentea* Nuttall var. *caput-medusae* (Eastwood) Fosberg = *Atriplex argentea* Nuttall subsp. *argentea*  
***argentea*** Nuttall var. ***expansa*** (M.E. Jones) Welsh & Reveal [M&H; W&S; Welsh 2003]  
*Atriplex expansa* S. Watson var. *mohavense* M.E. Jones  
***argentea*** Nuttall var. ***rydbergii*** (Standley) Welsh [Stutz & Chu 1997; Welsh 2003]  
*Atriplex pachypoda* Stutz & Chu  
*Atriplex rydbergii* Standley  
***canescens*** (Pursh) Nuttall [M&H; W&S; Welsh 2003]  
 four-wing saltbush  
*Atriplex angustior* Cockerell  
*Atriplex canescens* (Pursh) Nuttall var. *angustifolia* (Torrey) S. Watson  
*canescens* (Pursh) Nuttall var. *angustifolia* (Torrey) S. Watson = *Atriplex canescens* (Pursh) Nuttall  
*canescens* (Pursh) Nuttall var. *garrettii* (Rydberg) L. Benson = *Atriplex garrettii* Rydberg  
*caput-medusae* Eastwood = *Atriplex argentea* Nuttall subsp. *argentea*  
*collina* Wooton & Standley = *Atriplex confertifolia* (Torrey & Frémont) S. Watson  
***confertifolia*** (Torrey & Frémont) S. Watson [M&H; W&S; Welsh 2003]  
 shadscale  
*Atriplex collina* Wooton & Standley  
*Obione confertifolia* Torrey & Frémont  
*cornuta* M.E. Jones = *Atriplex saccaria* S. Watson var. *cornuta* (M.E. Jones) Welsh  
***corrugata*** S. Watson [M&H; Welsh 2003]  
*Atriplex nuttallii* S. Watson var. *corrugata* (S. Watson) A. Nelson

- cuneata* A. Nelson = *Atriplex gardneri* (Moquin-Tandon) Dietrich var. *cuneata* (A. Nelson) Welsh
- dioica*** Rafinesque [Welsh 2003]  
*Atriplex patula* Linnaeus var. *subspicata* (Nuttall) S. Watson  
*Atriplex subspicata* (Nuttall) Rydberg
- elegans*** (Moquin-Tandon) D. Dietrich var. ***elegans*** [M&H; W&S; Welsh 2003]  
*Atriplex elegans* (Moquin-Tandon) D. Dietrich var. *thornberi* Jones  
*Obione elegans* Moquin-Tandon
- elegans* (Moquin-Tandon) D. Dietrich var. *thornberi* Jones = *Atriplex elegans* (Moquin-Tandon) D. Dietrich var. *elegans*
- expansa* S. Watson = *Atriplex argentea* Nuttall subsp. *expansa* (S. Watson) Hall & Clements
- flagellaris* Wooton & Standley = *Atriplex semibaccata* R. Brown
- gardneri*** (Moquin-Tandon) Dietrich var. ***cuneata*** (A. Nelson) Welsh [M&H; Stutz & Sanderson 1998; Wagner & Aldon 1978; Welsh 2003]  
*Atriplex cuneata* A. Nelson  
*Atriplex nuttallii* S. Watson subsp. *cuneata* (A. Nelson) Hall & Clements
- garrettii*** Rydberg [Brown 1956]  
*Atriplex canescens* (Pursh) Nuttall var. *garrettii* (Rydberg) L. Benson
- greggii* S. Watson = *Atriplex obovata* Moquin-Tandon
- griffithsii* Standley = *Atriplex torreyi* (S. Watson) S. Watson var. *griffithsii* (Standley) G.D. Brown
- heterosperma* Bunge = *Atriplex micrantha* Ledebour
- \**hortensis*** Moquin-Tandon [M&H]  
 garden orache
- jonesii* Standley = *Atriplex obovata* Moquin-Tandon
- lentiformis* (Torrey) S. Watson var. *griffithsii* (Standley) Benson = *Atriplex torreyi* (S. Watson) S. Watson var. *griffithsii* (Standley) G.D. Brown
- \**micrantha*** Ledebour [Bleakly 1999]  
*Atriplex heterosperma* Bunge
- ×*neomexicana* Standley : This name refers to sporadic hybrids of *Atriplex gardneri* × *Atriplex confertifolia*
- nuttallii* S. Watson var. *corrugata* (S. Watson) A. Nelson = *Atriplex corrugata* S. Watson
- nuttallii* S. Watson subsp. *cuneata* (A. Nelson) Hall & Clements = *Atriplex cuneata* A. Nelson
- obovata*** Moquin-Tandon [M&H; W&S; Welsh 2003]  
*Atriplex greggii* S. Watson  
*Atriplex jonesii* Standley  
*Atriplex sabulosa* M.E. Jones
- pachypoda* Stutz & Chu = *Atriplex argentea* Nuttall var. *rydbergii* (Standley) Welsh
- patula* Linnaeus var. *hastata* sensu Hall & Clements 1923 non (Linnaeus) Hall & Clements  
 = *Atriplex prostrata* Bouchér ex A.P. de Candolle
- patula* Linnaeus var. *subspicata* (Nuttall) S. Watson = *Atriplex dioica* Rafinesque
- pleiantha* W.A. Weber = *Proatriplex pleiantha* (Weber) Stutz & Chu
- powellii*** S. Watson var. ***powellii*** [M&H; W&S; Welsh 2003]
- prostrata*** Bouchér ex A.P. de Candolle [Welsh 2003]  
*Atriplex patula* Linnaeus var. *hastata* sensu Hall & Clements 1923 non (Linnaeus) Hall & Clements  
*Atriplex triangularis* Willdenow
- \**rosea*** Linnaeus [M&H; W&S; Welsh 2003]  
*rydbergii* Standley = *Atriplex argentea* Nuttall var. *rydbergii* (Standley) Welsh
- sabulosa* M.E. Jones = *Atriplex obovata* Moquin-Tandon
- saccaria*** S. Watson var. ***cornuta*** (M.E. Jones) Welsh [Welsh 2003]  
*Atriplex cornuta* M.E. Jones
- saccaria*** S. Watson var. ***saccaria*** [M&H; W&S; Welsh 2003]
- \**semibaccata*** R. Brown [M&H; W&S; Welsh 2003]  
*Atriplex flagellaris* Wooton & Standley
- subspicata* (Nuttall) Rydberg = *Atriplex dioica* Rafinesque

**torreyi** (S. Watson) S. Watson var. **griffithsii** (Standley) G.D. Brown [Wagner & Aldon 1978]

*Atriplex griffithsii* Standley

*triangularis* Willdenow = *Atriplex prostrata* Boucher ex A.P. de Candolle

*truncata* (Torrey ex S. Watson) Gray : Reported by M&H, but not by Wagner & Aldon (1978) or Welsh (2003); awaits verification.

**wrightii** S. Watson [M&H; W&S; Welsh 2003]

**Bassia** smotherweed

Collins, S.L. & W.H. Blackwell, Jr. 1979. *Bassia* (Chenopodiaceae) in North America. *Sida* 8(1):57-64.  
Fuentes-Bazan, S., Pertti Uotila & Thomas Borsch. 2012. A novel phylogeny-based generic classification for *Chenopodium* sensu lato, and a tribal rearrangement for *Chenopodioidae* (*Chenopodiaceae*). *Willdenowia* 42:5-24.

Holmgren, Noel H. & Patricia K. Holmgren. 2012. *Bassia*, pp 538-540. IN: Intermountain Flora, vol. 2, part A. New York Botanical Garden Press, New York

Mosyakin S. 2003. *Bassia*, pp. 309-310. IN: Flora of North America, vol. 4, pt. 1. Oxford University Press, New York.

\***hyssopifolia** (Pallas) Kuntze [M&H]

*Kochia hyssopifolia* (Pallas) Schrader

*Suaeda hyssopifolia* Pallas

\***prostrata** (Linnaeus) Beck [Stevens et al. 1985]

*Kochia prostrata* (Linnaeus) Schrader

*Salsola prostrata* Linnaeus

\***scoparia** (Linnaeus) A.J. Scott [M&H]

*Bassia sieversiana* (Pallas) W.A. Weber

*Chenopodium scoparium* Linnaeus

*Kochia scoparia* (Linnaeus) Schrader

*Kochia sieversiana* (pallas) C.A. Mayer

*sieversiana* (Pallas) W.A. Weber = *Bassia scoparia* (Linnaeus) A.J. Scott

**Blitum**

Fuentes-Bazan, S., Pertti Uotila & Thomas Borsch. 2012. A novel phylogeny-based generic classification for *Chenopodium* sensu lato, and a tribal rearrangement for *Chenopodioidae* (*Chenopodiaceae*). *Willdenowia* 42:5-24.

Holmgren, N. H. 2003. *Monolepis*, pp. 300-301. IN: Flora of North America, vol. 4, pt. 1. Oxford University Press, New York.

Holmgren, N. H. & P. K. Holmgren. 2012. *Chenopodium*, pp 474-488. IN: Intermountain Flora, vol. 2, part A. New York Botanical Garden Press, New York

Holmgren, N. H. & P. K. Holmgren. 2012. *Monolepis*, pp 488-489. IN: Intermountain Flora, vol. 2, part A. New York Botanical Garden Press, New York

Mosyakin, S.L. 2013. New nomenclatural combinations in *Blitum*, *Oxybasis*, *Chenopodiastrium*, and *Lipandra* (Chenopodiaceae). *Phytoneuron* 2013-56: 1-8.

**capitatum** Linnaeus subsp. **capitatum** [Reif et al. 2009]

*Chenopodium capitatum* (Linnaeus) Ambrosi

**capitatum** Linnaeus subsp. **hastatum** (Rydberg) Mosyakin [Allred 2005]

*Chenopodium capitatum* (Linnaeus) Ambrosi var. *parvicapitatum* S.L. Welsh

*hastatum* Rydberg = *Blitum capitatum* Linnaeus subsp. *hastatum* (Rydberg) Mosyakin

**nuttallianum** Schultes [Holmgren 2003; M&H; W&S]

*Monolepis nuttalliana* (Schultes) Greene

**virgatum** Linnaeus [Allred 2005; Clemants & Mosyakin 2003]

*Chenopodium foliosum* (moench) Ascherson

*Morocarpus foliosus* Moench

*Brayulinea densa* (Willdenow) Small = *Guilleminea densa* (Humboldt & Bonpland ex Schultes) Moquin-Tandon

**Chenopodiastrium** goosefoot, lamb's quarters

Allred, K.W. 2005. *Chenopodium* in New Mexico. *The New Mexico Botanist* 32:1-5

Fuentes-Bazan, S., Pertti Uotila & Thomas Borsch. 2012. A novel phylogeny-based generic classification for *Chenopodium* sensu lato, and a tribal rearrangement for *Chenopodioidae* (*Chenopodiaceae*). *Willdenowia* 42:5-24.

Holmgren, N. H. & P. K. Holmgren. 2012. *Chenopodium*, pp 474-488. IN: Intermountain Flora, vol. 2, part A. New York Botanical Garden Press, New York

**murale** (Torrey) S. Fuentes, Uotila & Borsch [Allred 2005; M&H]

*Chenopodium murale* Linnaeus

**simplex** (Torrey) S. Fuentes, Uotila & Borsch [Allred 2005; Clemants & Mosyakin 2003; M&H; W&S]

*Chenopodium hybridum* of early Amer. authors, not Linnaeus

*Chenopodium hybridum* Linnaeus var. *gigantospermum* (Aellen) Rouleau

*Chenopodium hybridum* Linnaeus var. *simplex* Torrey

*Chenopodium gigantospermum* Aellen

*Chenopodium simplex* (Torrey) Rafinesque

**Chenopodium** goosefoot, lamb's quarters

Aellen, P., & T. Just. 1943. Key and synopsis of the American species of *Chenopodium* Linnaeus. *Am. Midl. Nat.* 30:47-76.

Allred, K.W. 1999. New plant distribution records. *The New Mexico Botanist* 13:7. [*Chenopodium cycloides*]

Allred, K.W. 2005. *Chenopodium* in New Mexico. *The New Mexico Botanist* 32:1-5.

Bassett, I.J. & C.W. Crompton. 1982. The genus *Chenopodium* in Canada. *Can. J. Bot.* 60(5):586-610.

Benet-Pierce, N. & M.G. Simpson. 2014. The taxonomy of *Chenopodium desiccatum* and *C. nitens*, sp. nov. *J. Torr. Bot. Soc.* 141(2): 161-172.

Benet-Pierce, N. & M.G. Simpson. 2017. Taxonomic recovery of the species in the *Chenopodium neomexicanum* (Chenopodiaceae) complex and description of *Chenopodium sonorensis* sp. nov. *J. Torr. Bot. Soc.* 144(3): 339-356.

Benet-Pierce, N. & M.G. Simpson. 2019. The taxonomy of *Chenopodium hians*, *C. incognitum*, and ten new taxa within the narrow-leaved *Chenopodium* Group in western North America, with special attention to California. *Madrono* 66(2): 56-75.

Clemants, S.E. & S.L. Mosyakin, S.L. 2003. *Chenopodium*, pp. 275-299. IN: *Flora of North America*, vol. 4, pt. 1. Oxford University Press, New York.

Crawford, D.J. 1975. Systematic relationships in the narrow-leaved species of *Chenopodium* of the western United States. *Brittonia* 27:279-288.

Crawford, D.J. 1977. A study of morphological variability in *Chenopodium incanum* (Chenopodiaceae) and the recognition of two new varieties. *Brittonia* 29:291-296.

Dorn, R.D. 1988. *Chenopodium simplex*, an older name for *C. gigantospermum* (Chenopodiaceae). *Madroño* 35:162.

Fuentes-Bazan, S., Pertti Uotila & Thomas Borsch. 2012. A novel phylogeny-based generic classification for *Chenopodium* sensu lato, and a tribal rearrangement for *Chenopodioidae* (Chenopodiaceae). *Willdenowia* 42:5-24.

Holmgren, N.H. & P.K. Holmgren. 2012. *Chenopodium* pp. 474-478. IN: *Intermountain Flora*, vol. 2, part A. New York Botanical Garden Press, New York.

Ladyman, J.A.R. 2006. *Chenopodium cycloides* A. Nelson (sandhill goosefoot): A Technical Conservation Assessment. USDA Forest Service, Rocky Mountain Region. Available: <http://www.fs.fed.us/r2/projects/scp/assessments/chenopodiumcycloides.pdf> [accessed 19 Feb 2013].

Mosyakin, S.L. & S.E. Clemants. 1996. New infrageneric taxa and combinations in *Chenopodium* L. (Chenopodiaceae). *Novon* 6:398-403.

Palomino-H., G., M. Segura-D., R. Bye, & P. Mercado-R. 1990. Cytogenetic distinction between *Teloxys* and *Chenopodium* (Chenopodiaceae). *Southwestern Naturalist* 35(3):351-353.

Reif, B., J. Larson, B.R. Jacobs, B.E. Nelson, & R.L. Hartman. 2009. Floristic studies in north central New Mexico, U.S.A., the Tusa Mountains and the Jemez Mountains. *J. Bot. Res. Inst. Texas* 3(2):921-961. [*Chenopodium capitatum capitatum*]

Schieboub, M.H., D.L. Hazlett, & N. Snow. 2008. A floristic survey of vascular plants over parts of northeastern New Mexico. *J. Res. Inst. Texas* 2(2):1407-1447. [*Chenopodium berlandieri berlandieri*]

Sivinski, R.C. 1996. New plant distribution records. *The New Mexico Botanist* 3:6. [*Chenopodium cycloides*]

Standley, P.C. 1916. *Chenopodium*, in *Chenopodiaceae*. *North American Flora* 21, part 1:1-93. [*Chenopodium hircinum* inter alii]

Tidestrom, I. & T. Kittell. 1941. *A Flora of Arizona and New Mexico*. The Catholic University of America Press, Washington, D.C. 897 pp. [*Chenopodium hircinum*]

Wahl, H.A. 1952-53. A preliminary study of the genus *Chenopodium* in North America. *Bartonia* 27:1-46. *albescens* of NM authors, not Small = mostly applied to *Chenopodium atrovirens* Rydberg

**\*album** Linnaeus var. **album** [Allred 2005; Clemants & Mosyakin 2003; W&S]

*Chenopodium paganum* of NM authors, not Reichenbach

**album** Linnaeus var. **amaranticolor** Coste & Reynier [FNM I]

**\*album** Linnaeus var. **lanceolatum** (Muhlenberg ex Willdenow) Cosson & Germain [Allred 2005]

*Chenopodium lanceolatum* Muhlenberg ex Willdenow

*album* Linnaeus var. *leptophyllum* Nuttall ex Moquin-Tandon = *Chenopodium leptophyllum* (Moquin-Tandon) Nuttall ex S. Watson

**album** Linnaeus var. **missouriense** (Aellen) Bassett & Crompton [Allred 2005]

Note: This is our native form of the otherwise exotic *Chenopodium album* Linnaeus.



- Chenopodium missouriense* Aellen  
*ambrosioides* Linnaeus = *Dysphania ambrosioides* (Linnaeus) Mosyakin & Clemants  
*arizonicum* Standley = *Chenopodium neomexicanum* Standley var. *arizonicum* (Standley) Allred
- atrovirens*** Rydberg [Allred 2005; Clemants & Mosyakin 2003; M&H; Wahl 1952-53]  
***berlandieri*** Moquin-Tandon [Allred 2005; Clemants & Mosyakin 2003; M&H; Shiebout et al. 2009]  
*berlandieri* Moquin-Tandon var. *berlandieri*  
*berlandieri* Moquin-Tandon var. *sinuatum* (Murr) Wahlenberg  
*berlandieri* Moquin-Tandon var. *zschackei* (Murr) Murr  
*Chenopodium petiolare* Kunth var. *sinuatum* Murr  
*Chenopodium zschackei* Murr  
*berlandieri* Moquin-Tandon var. *glaucoviride* Aellen = *Chenopodium desiccatum* A. Nelson
- botrys* Linnaeus = *Dysphania botrys* (Linnaeus) Mosyakin & Clemants  
*calceoliforme* Hooker = *Suaeda calceoliformis* (Hooker) Moquin-Tandon  
*cornutum* (Torrey) Benthams & Hooker = *Dysphania graveolens* (Willdenow) Mosyakin & Clemants
- cycloides*** A. Nelson [Allred 2005; Clemants & Mosyakin 2003; Sivinski 1996; Wahl 1952-53]  
***desiccatum*** A. Nelson [Allred 2005; Clemants & Mosyakin 2003; M&H]  
*Chenopodium berlandieri* Moquin-Tandon var. *glaucoviride* Aellen  
*Chenopodium leptophyllum* (Nuttall ex Moquin-Tandon) S. Watson subsp. *desiccatum* (A. Nelson) Aellen  
*Chenopodium nitens* Benet-Pierce & Simpson  
*Chenopodium pratericola* Rydberg  
*Chenopodium pratericola* Rydberg subsp. *desiccatum* (A. Nelson) Aellen  
*Chenopodium pratericola* Rydberg var. *leptophylloides* Aellen  
*desiccatum* A. Nelson var. *leptophylloides* (Murr) Wahl = *Chenopodium desiccatum* A. Nelson
- \**foliosum* (Moench) Ascherson = *Blitum virgatum* Linnaeus [Allred 2005; Clemants & Mosyakin 2003]  
*Morocarpus foliosus* Moench
- fremontii*** S. Watson [Allred 2005; Clemants & Mosyakin 2003; M&H; W&S]  
*fremontii* S. Watson var. *incanum* S. Watson = *Chenopodium incanum* (S. Watson) Heller  
*gigantospermum* Aellen = *Chenopodiastrum simplex* (Torrey) S. Fuentes, Uotila & Borsch  
*glabrescens* (Aellen) Wahl = *Chenopodium watsonii* A. Nelson  
\**glaucum* Linnaeus var. *glaucum* = *Oxybasis glauca* subsp. *glauca* (Linnaeus) S. Fuentes, Uotila & Borsch [Wahl 1952-53]  
*glaucum* Linnaeus var. *salinum* (Standley) B. Boivin = *Oxybasis glauca* subsp. *salina* (Linnaeus) S. Fuentes, Uotila, & Borsch [Allred 2005; Clemants & Mosyakin 2003; M&H; W&S; Wahl 1952-53]  
*Chenopodium salinum* Standley
- graveolens* Willdenow = *Dysphania graveolens* (Willdenow) Mosyakin & Clemants  
*graveolens* Willdenow var. *neomexicanum* (Aellen) Aellen = *Dysphania graveolens* (Willdenow) Mosyakin & Clemants
- hians*** Standley [Clemants & Mosyakin 2003; M&H; Wahl 1952-53]  
\**hircinum* Schrader : Reported by Standley (1916) and thence Tidestrom & Kittell (1941) and others, but no specimens were cited and none are yet known; awaits verification.
- hybridum* of early North American authors = *Chenopodiastrum simplex* (Torrey) S. Fuentes, Uotila & Borsch
- hybridum* Linnaeus var. *gigantospermum* (Aellen) Rouleau = *Chenopodiastrum simplex* (Torrey) S. Fuentes, Uotila & Borsch
- hybridum* Linnaeus var. *simplex* Torrey = *Chenopodiastrum simplex* (Torrey) S. Fuentes, Uotila & Borsch
- hybridum* Linnaeus var. *standleyanum* (Aellen) Fernald = *Chenopodium standleyanum* Aellen
- humile* Hooker = *Oxybasis rubra* Linnaeus var. *humilis* (Hooker) Mosyakin
- incanum*** (S. Watson) Heller [Allred 2005; Clemants & Mosyakin 2003; Crawford 1977; M&H; W&S]

- Chenopodium fremonti* S. Watson var. *incanum* S. Watson  
*Chenopodium incanum* (S. Watson) Heller var. *elatum* Crawford  
*incanum* (S. Watson) Heller var. *elatum* Crawford = *Chenopodium incanum* (S. Watson) Heller  
*incisum* Poiret var. *neomexicanum* Aellen = *Dysphania graveolens* (Willdenow) Mosyakin & Clemants
- incognitum** Wahl [Benet-Pierce & Simpson 2019; Wahl 1952-53]  
*Chenopodium standleyanum* of NM reports  
*lanceolatum* Muhlenberg ex Willdenow = *Chenopodium album* Linnaeus var. *lanceolatum* (Muhlenberg ex Willdenow) Cosson & Germain
- lenticulare** Aellen [Benet-Pierce & Simpson 2017]
- leptophyllum** (Nuttall ex Moquin-Tandon) S. Watson [Allred 2005; Clemants & Mosyakin 2003; M&H; W&S; Wahl 1952-53]  
*Chenopodium album* Linnaeus var. *leptophyllum* Nuttall ex Moquin-Tandon  
*Chenopodium oblongifolium* Rydberg  
*missouriense* Aellen = *Chenopodium album* Linnaeus var. *missouriense* (Aellen) Bassett & Crompton  
\**murale* Linnaeus = *Chenopodiastrum murale* (Torrey) S. Fuentes, Uotila & Borsch [Allred 2005; M&H]  
*nitens* Benet-Pierce & Simpson = *Chenopodium desiccatum* A. Nelson
- neomexicanum** Standley var. **arizonicum** (Standley) Allred  
*Chenopodium arizonicum* Standley
- neomexicanum** Standley var. **neomexicanum** [Allred 2005; Clemants & Mosyakin 2003; M&H; Wahl 1952-53]  
*nigrum* Rafinesque = *Suaeda nigra* (Rafinesque) Macbride  
*oblongifolium* Rydberg = *Chenopodium leptophyllum* Nuttall  
*overi* Aellen = *Blitum capitatum* Linnaeus var. *hastatum* (Rydberg) Mosyakin  
*paganum* of NM authors, not Reichenbach = *Chenopodium album* Linnaeus
- pallescens** Standley [Allred 2005; Clemants & Mosyakin 2003; M&H; Wahl 1952-53]  
*petiolare* Kunth var. *sinuatum* Murr = *Chenopodium berlandieri* Moquin-Tandon  
*pratericola* Rydberg = *Chenopodium desiccatum* A. Nelson  
*pratericola* Rydberg var. *leptophylloides* Aellen = *Chenopodium desiccatum* A. Nelson  
quinoa Willdenow : Grown occasionally in gardens or as a curiosity; apparently not fruiting in NM and not known to escape.
- \**rubrum* Linnaeus var. *rubrum* = *Oxybasis rubra* (Linnaeus) S. Fuentes, Uotila & Borsch var. *rubra* [Clemants & Mosyakin 2003; M&H]  
*rubrum* Linnaeus var. *humile* (Hooker) S. Watson = *Oxybasis rubra* (Linnaeus) S. Fuentes, Uotila & Borsch var. *humilis* (Hooker) Mosyakin [Allred 2005; Clemants & Mosyakin 2003]  
*Chenopodium humile* Hooker
- salinum* Standley = *Oxybasis glauca* (Linnaeus) S. Fuentes, Uotila & Borsch subsp. *salina* (Standley) Mosyakin
- scoparium* Linnaeus = *Bassia scoparia* (Linnaeus) A.J. Scott  
*simplex* (Torrey) Rafinesque = *Chenopodiastrum simplex* (Torrey) S. Fuentes, Uotila & Borsch [Allred 2005; Clemants & Mosyakin 2003; M&H; W&S]  
*Chenopodium hybridum* of early Amer. authors, not Linnaeus  
*Chenopodium hybridum* Linnaeus var. *gigantospermum* (Aellen) Rouleau  
*Chenopodium hybridum* Linnaeus var. *simplex* Torrey  
*Chenopodium gigantospermum* Aellen  
standleyanum Aellen : Reported by M&H and Aellen & Just (1943), based on a large plant belonging to *Chenopodium incognitum* Wahl.  
*Chenopodium hybridum* Linnaeus var. *standleyanum* (Aellen) Fernald
- watsonii** A. Nelson [Allred 2005; Clemant & Mosyakin 2003; M&H; W&S; Wahl 1952-53]  
*Chenopodium glabrescens* (Aellen) Wahl  
*zschackei* Murr = *Chenopodium berlandieri* Moquin-Tandon
- Cladanthrix lanuginosa* Nuttall = *Tidestromia lanuginosa* (Nuttall) Standley  
*suffruticosa* (Torrey) Benthham & Hooker = *Tidestromia suffruticosa* (Torrey) Standley
- Corispermum** bugseed  
Holmgren, N.H & P.K. Holmgren. 2012. *Corispermum* pp. 529-532. IN: Intermountain Flora, vol. 2, part A. New York Botanical Garden Press, New York.

- Mosyakin, S.L. 1995. New taxa of *Corispermum* Linnaeus (Chenopodiaceae), with preliminary comments on the taxonomy of the genus in North America. *Novon* 5:340-353.
- Mosyakin, S. 2003. *Corispermum*, pp. 313-321. IN: *Flora of North America*, vol. 4, pt. 1. Oxford University Press, New York.
- americanum** (Nuttall) Nuttall var. **americanum** [M&H; Mosyakin 2003; W&S]  
*Corispermum hyssopifolium* Linnaeus var. *americanum* Nuttall  
*Corispermum imbricatum* A. Nelson  
*Corispermum marginale* Rydberg  
*Corispermum nitidum* auctores non Kitaibel ex Schultes
- americanum** (Nuttall) Nuttall var. **rydbergii** Mosyakin [M&H; Mosyakin 1995, 2003]  
*Corispermum marginale* auctores non Rydberg  
*Corispermum nitidum* auctores non Kitaibel ex Schultes  
*emarginatum* Rydberg = *Corispermum villosum* Rydberg  
*hyssopifolium* Linnaeus s.s. : Restricted to southeastern Europe and western Asia; NM plants are referable to *Corispermum americanum* (Nuttall) Nuttall [Mosyakin 1995].  
*hyssopifolium* Linnaeus var. *americanum* Nuttall = *Corispermum americanum* (Nuttall) Nuttall var. *americanum*  
*imbricatum* A. Nelson = *Corispermum americanum* (Nuttall) Nuttall  
*marginale* Rydberg = *Corispermum americanum* (Nuttall) Nuttall  
*nitidum* auctores non Kitaibel ex Schultes = *Corispermum americanum* (Nuttall) Nuttall  
*orientale* Lamarck s.s. : Missapplied to NM specimens, which are referred to *Corispermum villosum* Rydberg [Mosyakin 1995].  
*orientale* Lamarck var. *emarginatum* (Rydberg) Macbride = *Corispermum villosum* Rydberg
- \***villosum** Rydberg [M&H; Mosyakin 1995]  
*Corispermum emarginatum* Rydberg  
*Corispermum orientale* Lamarck var. *emarginatum* (Rydberg) Macbride
- welshii** Mosyakin [Mosyakin 1995, 2003]
- Cycloloma** *cycloloma*  
Holmgren, Noel H. & P.K. Holmgren. 2012. *Cycloloma*, p. 494. IN: *Intermountain Flora*, vol. 2, part A. New York Botanical Garden Press, New York  
Mosyakin, S.L. 2003. *Cycloloma*, pp. 264-265. IN: *Flora of North America*, vol. 4, pt. 1. Oxford University Press, New York.
- atriplicifolium** (Sprengel) Coulter [M&H; W&S]  
*Salsola atriplicifolia* Sprengel  
*Salsola platyphylla* Michaux
- Diotis lanata* Pursh = *Krascheninnikovia lanata* (Pursh) Meeuse & Smits  
*Dondia diffusa* (S. Watson) Heller = *Suaeda nigra* (Rafinesque) Macbride  
*depressa* auctores non (Pursh) Britton = *Suaeda calceoliformis* (Hooker) Moquin  
*erecta* of NM authors = *Suaeda calceoliformis* (Hooker) Moquin  
*moquini* (Torrey) A. Nelson = *Suaeda nigra* (Rafinesque) Macbride  
*nigra* (Rafinesque) Standley = *Suaeda nigra* (Rafinesque) Macbride  
*suffrutescens* (S. Watson) Heller = *Suaeda nigra* (Rafinesque) Macbride  
*torreyana* (S. Watson) Standley = *Suaeda nigra* (Rafinesque) Macbride
- Dysphania** *Mexican tea*  
Clemants, S.E. & S.L. Mosyakin, S.L. 2003. *Dysphania*, pp. 267-275. IN: *Flora of North America*, vol. 4, pt. 1. Oxford University Press, New York.  
Holmgren, N.H. & P. K. Holmgren. 2012. *Dysphania*, pp.490-494. IN: *Intermountain Flora*, vol.2, part A. New York Botanical Garden Press, New York  
Palomino-H., G., M. Segura-D., R. Bye, & P. Mercado-R. 1990. Cytogenetic distinction between *Teloxys* and *Chenopodium* (Chenopodiaceae). *Southwestern Naturalist* 35(3):351-353.  
Wahl, H.A. 1952-53. A preliminary study of the genus *Chenopodium* in North America. *Bartonia* 27:1-46.  
Weber, W.A. 1985. The genus *Teloxys* (Chenopodiaceae). *Phytologia* 58:477-478.
- \***ambrosioides** (Linnaeus) Mosyakin & Clemants [M&H]  
*Chenopodium ambrosioides* Linnaeus  
*Teloxys ambrosioides* (Linnaeus) W.A. Weber
- \***botrys** (Linnaeus) Mosyakin & Clemants [M&H; W&S]  
*Chenopodium botrys* Linnaeus  
*Teloxys botrys* (Linnaeus) W.A. Weber
- graveolens** (Willdenow) Mosyakin & Clemants [M&H; W&S; Wahl 1952-53]

*Chenopodium cornutum* (Torrey) Benth & Hooker

*Chenopodium graveolens* Willdenow

*Chenopodium graveolens* Willdenow var. *neomexicanum* (Aellen) Aellen

*Chenopodium incisum* Poiret var. *neomexicanum* Aellen

*Teloxys graveolens* (Willdenow) W.A. Weber

*Eurotia lanata* (Pursh) Moquin-Tandon = *Krascheninnikovia lanata* (Pursh) Meeuse & Smit  
*subspinosa* Rydberg = *Krascheninnikovia lanata* (Pursh) Meeuse & Smit

**Froelichia** snakecotton

Holmgren, N.H. & Patricia K. Holmgren. 2012. *Froelichia*, pp.567-568. IN: Intermountain Flora, vol.2, part A. New York Botanical Garden Press, New York

McCauley, R.A. 2003. *Froelichia*, pp. 443-447. IN: Flora of North America, vol. 4, pt. 1. Oxford University Press, New York.

McCauley, R.A. & H.E. Ballard, Jr. 2007. Systematics of North American *Froelichia* (Amaranthaceae subfam. Gomphrenoideae) I: Identification of consistent morphological variation and segregation of species complexes. *Brittonia* 59(3):255-274.

McCauley, R.A. & H.E. Ballard, Jr. 2007. Systematics of North American *Froelichia* (Amaranthaceae subfam. Gomphrenoideae) II: Phylogeny and biogeographic speciation patterns inferred from nrITS sequence data. *Brittonia* 59(3):275-289.

**arizonica** Thornber ex Standley [M&H; McCauley 2003]

**campestris** Small = *Froelichia floridana* (Nuttall) Moquin-Tandon

**floridana** (Nuttall) Moquin-Tandon : Reported by M&H, W&S, and others, but in the circumscription of McCauley & Ballard (2007), this has not yet been found in NM; our plants generally belong to *Froelichia gracilis* (Hooker) Moquin-Tandon.

*Froelichia campestris* Small

*Froelichia floridana* (Nuttall) Moquin-Tandon var. *campestris* (Small) Fernald

**floridana** (Nuttall) Moquin-Tandon var. *campestris* (Small) Fernald = *Froelichia floridana* (Nuttall) Moquin-Tandon

**gracilis** (Hooker) Moquin-Tandon [M&H; McCauley 2003; W&S]

*Oplotheca gracilis* Hooker

**interrupta** (Linnaeus) Moquin-Tandon : Reported by M&H, but McCauley (2007) shows this species to belong to south Texas and Mexico.

**Gomphrena** globe-amaranth

Clemants, S.E. 2003. *Gomphrena*, pp. 451-454. IN: Flora of North America, vol. 4, pt. 1. Oxford University Press, New York.

**caespitosa** Torrey [Clemants 2003; M&H; W&S]

**haageana** Klotzsch : Reported by Clemants (2003), but specimens in the wild are unknown; awaits verification.

**nitida** Rothrock [Clemants 2003; M&H; W&S]

**sonorae** Torrey [Clemants 2003; M&H]

**viridis** Wootton & Standley [Clemants 2003; W&S]

**Gossypianthus** cotton-flower

Clemants, S.E. 2003. *Gossypianthus*, pp. 438-439. IN: Flora of North America, vol. 4, pt. 1. Oxford University Press, New York.

Henrickson, J. 1987. A taxonomic re-evaluation of *Gossypianthus* and *Guilleminea* (Amaranthaceae). *Sida* 12:307-337.

**lanuginosus** (Poiret) Moquin-Tandon var. **lanuginosus** [Clemants 2003; M&H; W&S]

*Guilleminea lanuginosa* (Poiret) Hooker f.

*Guilleminea lanuginosa* (Poiret) Hooker f. var. *rigidiflorus* (Hooker) Mears

*Gossypianthus rigidiflorus* Hooker

*Paronychia lanuginosa* Poiret

**rigidiflorus** Hooker = *Gossypianthus lanuginosus* (Poiret) Moquin-Tandon var. *lanuginosus*

**Grayia** hop-sage

Heil, K.D., S.L. O'Kane, & A. Clifford. 2002. Additions to the flora of New Mexico from the San Juan Basin Flora project. *The New Mexico Botanist* 24:1-4. [*Grayia spinosa*]

Holmgren, N. 2003. *Grayia*, pp. 306-307. IN: Flora of North America, vol. 4, pt. 1. Oxford University Press, New York.

Holmgren, N.H. & P.K. Holmgren. 2012. *Grayia* & *Zuckia*, pp.497-500. IN: Intermountain Flora, vol.2, part A. New York Botanical Garden Press, New York

McIntosh, L. 1985. Noteworthy collections (New Mexico). *Madroño* 32:192. [*Grayia brandegeei*]

- Stutz, H.C. & G.-L. Chu. 1987. Chromosome races of *Grayia brandegeei* (Chenopodiaceae). *Madroño* 34:142-149.
- Welsh, S.L. 2003. *Zuckia*, pp. 303-305. IN: *Flora of North America*, vol. 4, pt. 1. Oxford University Press, New York.
- Zacharias, E.H. & B.G. Baldwin. 2010. A molecular phylogeny of North American Atripliceae (Chenopodiaceae), with implications for floral and photosynthetic pathway evolution. *Syst. Bot.* 35(4):839-857.
- brandegeei** Gray [McIntosh 1985]  
*Zuckia brandegeei* (Gray) S.L. Welsh
- plummeri** (Stutz & Sanderson) Zacharias [McIntosh 1985; Stutz & Chu 1987; Welsh 2003]  
*Grayia brandegeei* Gray var. *plummeri* Stutz & Sanderson  
*Zuckia brandegeei* (Gray) Welsh & Stutz var. *plummeri* (Stutz & Sanderson) Welsh
- spinosa** (Hooker) Moquin-Tandon [Heil et al. 2002]  
*Chenopodium spinosum* Hooker
- Guilleminea** matweed  
Clemants, S.E. 2003. *Guilleminea*, pp. 437-438. IN: *Flora of North America*, vol. 4, pt. 1. Oxford University Press, New York.  
Henrickson, J. 1987. A taxonomic re-evaluation of *Gossypianthus* and *Guilleminea* (Amaranthaceae). *Sida* 12:307-337.
- densa** (Humboldt & Bonpland ex Schultes) Moquin-Tandon var. **aggregata** Uline & Bray [Henrickson 1987; M&H; W&S]  
*densa* (Humboldt & Bonpland ex Schultes) Moquin-Tandon var. *densa* : Reported by M&H, but not occurring in North America [Henrickson 1987].  
*Brayulinia densa* (Humboldt & Bonpland ex Schultes) Small  
*Illecebrum densum* Humboldt & Bonpland ex Schultes
- lanuginosa** (Poiret) Hooker f. = *Gossypianthus lanuginosus* (Poiret) Moquin-Tandon var. *lanuginosus*  
*lanuginosa* (Poiret) Hooker f. var. *rigidiflorus* (Hooker) Mears = *Gossypianthus lanuginosus* (Poiret) Moquin-Tandon var. *lanuginosus*
- Halogeton** halogeton  
Holmgren, N.H. 2003. *Halogeton*, pp. 403-404. IN: *Flora of North America*, vol. 4, pt. 1. Oxford University Press, New York.  
Holmgren, N.H. & Patricia K. Holmgren. 2012. *Halogeton*, pp. 545-546. IN: *Intermountain Flora*, vol. 2, part A. New York Botanical Garden Press, New York
- \*glomeratus** (Bieberstein) C. A. Meyer [Holmgren 2003; M&H]  
*Anabasis glomerata* Bieberstein
- Halostachys occidentalis* S. Watson = *Allenrolfea occidentalis* (S. Watson) Kuntze
- Iresine** bloodleaf  
Clemants, S.E. 2003. *Iresine*, pp. 454-456. IN: *Flora of North America*, vol. 4, pt. 1. Oxford University Press, New York.  
Henrickson, J. & S. Sunberg. 1986. On the submersion of *Dicraurus* into *Iresine* (Amaranthaceae). *Aliso* 11:355-364.
- heterophylla** Standley [Clemants 2003; M&H]
- Kochia americana* S. Watson = *Neokochia americana* (S. Watson) G.L. Chu & S.C. Sanderson  
*hyssopifolia* (Pallas) Schrader = *Bassia hyssopifolia* (Pallas) Kuntze  
**\*prostrata** (Linnaeus) Schrader = *Bassia prostrata* (Linnaeus) Beck [Stevens et al. 1985]  
*Salsola prostrata* Linnaeus  
**\*scoparia** (Linnaeus) Roth = *Bassia scoparia* (Linnaeus) A.J. Scott [M&H]  
*Bassia sieversiana* (Pallas) W.A. Weber  
*Chenopodium scoparium* Linnaeus  
*Kochia sieversiana* (Pallas) C.A. Meyer  
*sieversiana* (Pallas) C.A. Meyer = *Bassia scoparia* (Linnaeus) A.J. Scott
- Krascheninnikovia** winterfat  
Holmgren, N. 2003. *Krascheninnikovia*, pp. 307-308. IN: *Flora of North America*, vol. 4, pt. 1. Oxford University Press, New York.  
Holmgren, N. & P. Holmgren. 2012. *Krascheninnikovia*, pp.528-529. IN: *Intermountain Flora*, vol. 2, part A. New York Botanical Garden Press, New York  
Heklau, H. & M. Roser. 2008. Delineation, taxonomy and phylogenetic relationships of the genus *Krascheninnikovia* (Amaranthaceae subtribe Axyridinae). *Taxon* 57(2):563-576.  
Howell, J.T. 1971. A new name for winterfat. *Wasmann J. Biol.* 29:105.

- Meeuse, A.D.J. & A. Smit. 1971. A new combination in *Krascheninnikovia* (Chenopodiaceae). Taxon 20:644.  
*ceratoides* (Linnaeus) Gueldenstaedt subsp. *lanata* (Pursh) H. Heklau = *Krascheninnikovia lanata* (Pursh) Meeuse & Smits  
***lanata*** (Pursh) Meeuse & Smits [M&H; W&S]  
*Ceratoides lanata* (Pursh) J.T. Howell  
*Diottis lanata* Pursh  
*Eurotia lanata* (Pursh) Moquin-Tandon  
*Eurotia subspinosa* Rydberg  
*Krascheninnikovia ceratoides* (Linnaeus) Gueldenstaedt subsp. *lanata* (Pursh) H. Heklau
- Monolepis nuttalliana* (Schultes) Greene = *Blitum nuttallianum* Schultes [Holmgren 2003; M&H; W&S]
- Morocarpus foliosus* Moench = *Blitum virgatum* Linnaeus
- Neokochia*** green molly  
 Chu, G.-L., & S.C. Sanderson. 2008(2009). The genus *Kochia* (Chenopodiaceae) in North America. Madroño 55(4):251-256.  
 Holmgren, N.H. & Patricia K. Holmgren. 2012. *Neokochia* pp.541-542. IN: Intermountain Flora, vol. 2, part A. New York Botanical Garden Press, New York  
***americana*** (S. Watson) G.L. Chu & S.C. Sanderson [M&H; W&S]  
*Kochia americana* S. Watson
- Nitrophila occidentalis* (Moquin-Tandon) S. Watson (boraxweed) : Reported as expected by M&H map, and various specimens of *Monolepis*, *Eriogonum*, and *Glauca* have been mis-identified as this; awaits verification.
- Obione acanthocarpa* Torrey = *Atriplex acanthocarpa* (Torrey) S. Watson  
*confertifolia* Torrey & Frémont = *Atriplex confertifolia* (Torrey & Frémont) S. Watson  
*elegans* Moquin-Tandon = *Atriplex elegans* (Moquin-Tandon) D. Dietrich var. *elegans suckleyana* Torrey = *Suckleya suckleyana* (Torrey) Rydberg
- Oplotheca gracilis* Hooker = *Froelichia gracilis* (Hooker) Moquin-Tandon
- Oxybasis*** oxybasis  
 Fuentes-Bazan, S., Perti Uotila & Thomas Borsch. 2012. A novel phylogeny-based generic classification for *Chenopodium* sensu lato, and a tribal rearrangement for *Chenopodioidae* (Chenopodiaceae). Willdenowia 42:5-24.  
 Mosyakin, S.L. 2013. New nomenclatural combinations in *Blitum*, *Oxybasis*, *Chenopodiastrium*, and *Lipandra* (Chenopodiaceae). Phytoneuron 2013-56: 1-8.  
***glauca*** (Linnaeus) S. Fuentes, Uotila & Borsch subsp. ***\*glauca*** [Wahl 1952-53]  
*Chenopodium glaucum* Linnaeus var. *glaucum*  
***glauca*** (Linnaeus) S. Fuentes, Uotila & Borsch subsp. ***salina*** (Standley)  
 Mosyakin [Wahl 1952-53]  
*Chenopodium salinum* Standley  
*Chenopodium glaucum* Linnaeus subsp. *salinum* (Standley) Aellen  
*Chenopodium glaucum* Linnaeus var. *salinum* (Standley) B. Boivin  
*Oxybasis glauca* (Linnaeus) S. Fuentes, Uotila & Borsch var. *salina* (Standley) Verloove  
***rubra*** (Linnaeus) S. Fuentes, Uotila & Borsch var. ***humilis*** (Hooker) Mosyakin [Allred 2005; Clemants & Mosyakin 2003]  
*Chenopodium humile* Hooker  
*Chenopodium rubrum* Linnaeus var. *humile* (Hooker) S. Watson  
***rubra*** (Linnaeus) S. Fuentes, Uotila & Borsch var. ***\*rubra*** [Clemants & Mosyakin 2003; M&H]  
*Chenopodium rubrum* Linnaeus var. *rubrum*
- Proatriplex*** proatriplex  
 Welsh, S.L.. 2003. *Atriplex*, pp. 322-381. IN: Flora of North America, vol. 4, pt. 1. Oxford University Press, New York. [*Proatriplex pleiantha*]  
 Zacharias, E.H. & B.G. Baldwin. 2010. A molecular phylogeny of North American Atripliceae (Chenopodiaceae), with implications for floral and photosynthetic pathway evolution. Syst. Bot. 35(4):839-857.  
***pleiantha*** [Welsh 2003]  
*Atriplex pleiantha* W.A. Weber
- Salicornia*** saltwort  
 Ball, P.W. 2003. *Salicornia*, pp. 382-384. IN: Flora of North America, vol. 4, pt. 1. Oxford University Press, New York.

- Hershey, A.L. & P.J. Leyendecker, Jr. 1944. Notes on plants of New Mexico – III. Leaf. West. Bot. 4(2):21-25. [*Salicornia rubra*]
- Holmgren, Noel H. & Patricia K. Holmgren. 2012. *Salicornia* pp.531-533. IN: Intermountain Flora, vol. 2, part A. New York Botanical Garden Press, New York
- Scott, A.J. 1977. Reinstatement and revision of *Salicorniaceae*. Bot. J. Linn. Soc. 75:357-374.
- bigelovii* Torrey : Reported by M&H, but this is a coastal species only, and not found in NM [Ball 2003].
- rubra*** A. Nelson [Ball 2003; Hershey & Leyendecker 1944; M&H]  
*Salicornia europaea* Linnaeus subsp. *rubra* (A. Nelson) Breitung  
*europaea* Linnaeus subsp. *rubra* (A. Nelson) Breitung = *Salicornia rubra* A. Nelson  
*occidentalis* (S. Watson) Greene = *Allenrolfea occidentalis* (S. Watson) Kuntze  
***utahensis*** Tidestrom [Ball 2003; Hershey & Leyendecker 1944; M&H]  
*Sarcocornia utahensis* (Tidestrom) A.J. Scott

### **Salsola** Russian-thistle

- Akhani, H., W. Greuter, & E. Roalson. 2014. Notes on the typification and nomenclature of *Salsola* and *Kali* (Chenopodiaceae). Taxon 63(3):647-650.
- Forbes, A.C. & K.W. Allred. 1999. An investigation of *Salsola* Linnaeus (Chenopodiaceae) in New Mexico. The New Mexico Botanist 12:4-7.
- Heil, K. & K.W. Allred. 2000. New plant distribution records. The New Mexico Botanist 16:7. [*Salsola paulsenii*]
- Holmgren, Noel H. & Patricia K. Holmgren. 2012. *Salsola* pp.542-545. IN: Intermountain Flora, vol. 2, part A. New York Botanical Garden Press, New York
- Hrusa, G.F. & J.F. Gaskin. 2008. The *Salsola tragus* complex in California (Chenopodiaceae): Characterization and status of *Salsola australis* and the autochthonous allopolyploid *Salsola ryanii* sp. nov. Madrono 55(2): 113-131.
- Mosyakin, S.L. 1996. A taxonomic synopsis of the genus *Salsola* (Chenopodiaceae) in North America. Ann. Missouri Bot. Gard. 83:387-395.
- Mosyakin, S.L. 2003. *Salsola*, pp. 398-403. IN: Flora of North America, vol. 4, pt. 1. Oxford University Press, New York.
- Mosyakin, S.L., S. Rilke, & H. Freitag. 2014. Proposal to conserve the name *Salsola* (Chenopodiaceae) s. str.: Amaranthaceae sensu APG) with a conserved type. Taxon 63(5):1134-1135.
- Mosyakin, S.L., H. Freitag, & S. Rilke. 2017. *Kali* versus *Salsola*: the instructive story of a questionable nomenclatural resurrection. Israel J. Pl. Sci. 64: 18-30.
- Wilson, K.L. 2017. Report of the general committee: 20 [genus name *Salsola* conserved with *S. kali* as type]. Taxon 66(4): 981.

\**australis* R. Brown : Sometimes reported for the state, but no authentic specimens known for certain; awaits verification.

*atriplicifolia* Sprengel = *Cycloloma atriplicifolia* (Sprengel) Coulter

\****collina*** P.S. Pallas [Forbes & Allred 1999; Mosyakin 2003]

*depressa* auctores non (Pursh) S. Watson = *Suaeda calceoliformis* (Hooker) Moquin

*iberica* (Sennen & Pau) Botschantzev ex Czerepanov = *Salsola tragus* Linnaeus

*kali* Linnaeus s.s. : Found only in coastal areas, not in NM.

*kali* Linnaeus var. *tenuifolia* Moquin-Tandon = *Salsola tragus* Linnaeus

\****paulsenii*** Litvinov [Heil & Allred 2000]

*pestifer* A. Nelson = *Salsola tragus* Linnaeus

*platyphylla* Michaux = *Cycloloma atriplicifolia* (Sprengel) Coulter

*prostrata* Linnaeus = *Kochia prostrata* (Linnaeus) Schrader

\****tragus*** Linnaeus [Forbes & Allred 1999; M&H; W&S]

*Salsola kali* Linnaeus var. *tenuifolia* Moquin-Tandon

*Salsola iberica* (Sennen & Pau) Botschantzev ex Czerepanov

*Salsola pestifer* A. Nelson

*Sarcocornia utahensis* (Tidestrom) A.J. Scott = *Salicornia utahensis* Tidestrom

*Sarratia berlandieri* Moquin-Tandon var. *fimbriata* Torrey = *Amaranthus fimbriatus* (Torrey)

Benthham ex S. Watson

### **Suaeda** seepweed

- Bassett, I.J. & C.W. Crompton. 1978. The genus *Suaeda* in Canada. Can. J. Bot. 56:581-591.
- Ferren, W.R. Jr. & H.J. Schenk. 2003. *Suaeda*, pp. 390-398. IN: Flora of North America, vol. 4, pt. 1. Oxford University Press, New York.
- Holmgren, Noel H. & Patricia K. Holmgren. 2012. *Suaeda* pp.534-538. IN: Intermountain Flora, vol. 2, part A. New York Botanical Garden Press, New York
- Hopkins, C.O. & W.H. Blackwell, Jr. 1977. Synopsis of *Suaeda* (Chenopodiaceae) in North America. Sida 7:147-173.
- McNeill, J., I.J. Bassett, & C.W. Crompton. 1977. *Suaeda calceoliformis*, the correct name for *Suaeda depressa* auctores Rhodora 79:133-137.

Schenk, H.J. & W.R. Ferren, Jr. 2001 On the sectional nomenclature of *Suaeda* (Chenopodiaceae). Taxon 50:857-873.

**calceoliformis** (Hooker) Moquin-Tandon [Ferren & Schenk 2003; M&H; W&S]

*Chenopodium calceoliforme* Hooker

*Dondia depressa* auctores non (Pursh) Britton

*Dondia erecta* of NM authors

*Salsola depressa* auctores non Pursh

*Suaeda depressa* auctores non (Pursh) S. Watson

*Suaeda occidentalis* (Watson) Watson

*depressa* auctores non (Pursh) S. Watson = *Suaeda calceoliformis* (Hooker) Moquin

*diffusa* S. Watson = *Suaeda nigra* (Rafinesque) Macbride

*fruticosa* sensu M&H = *Suaeda nigra* (Rafinesque) Macbride

*hyssopifolia* Pallas = *Bassia hyssopifolia* (Pallas) Kuntze

*moquinii* (Torrey) Greene = *Suaeda nigra* (Rafinesque) Macbride

**nigra** (Rafinesque) Macbride [Ferren & Schenk 2003; M&H; W&S]

*Chenopodium nigrum* Rafinesque

*Dondia diffusa* (S. Watson) Heller

*Dondia moquini* (Torrey) A. Nelson

*Dondia nigra* (Rafinesque) Standley

*Dondia suffrutescens* (S. Watson) Heller

*Dondia torreyana* (S. Watson) Standley

*Suaeda diffusa* S. Watson

*Suaeda fruticosa* sensu M&H

*Suaeda moquinii* (Torrey) Greene

*Suaeda nigrescens* I.M. Johnston var. *glabra* I.M. Johnston

*Suaeda suffrutescens* S. Watson

*Suaeda suffrutescens* S. Watson var. *detonsa* Johnston

*Suaeda torreyana* S. Watson

*Suaeda torreyana* S. Watson var. *ramosissima* (Standley) Munz

*nigrescens* I.M. Johnston var. *glabra* I.M. Johnston = *Suaeda nigra* (Rafinesque) Macbride

*occidentalis* (Watson) Watson = *Suaeda calceoliformis* (Hooker) Moquin-Tandon

*suffrutescens* S. Watson = *Suaeda nigra* (Rafinesque) Macbride

*suffrutescens* S. Watson var. *detonsa* Johnston = *Suaeda nigra* (Rafinesque) Macbride

*torreyana* S. Watson = *Suaeda nigra* (Rafinesque) Macbride

*torreyana* S. Watson var. *ramosissima* (Standley) Munz = *Suaeda nigra* (Rafinesque)

Macbride

**Suckleya** suckleya

Allred, K.W. 2007. What's in a name – *Suckleya suckleyana*. The New Mexico Botanist 36:7.

Chu, G. 2003. *Suckleya*, pp. 305-306. IN: Flora of North America, vol. 4, pt. 1. Oxford University Press, New York.

Chu, G.L., H.C. Stutz, & S.C. Sanderson. 1991. Morphology and taxonomic position of *Suckleya suckleyana* (Chenopodiaceae). Amer. J. Bot. 78(1):63-68.

Hershey, A.L. & P.J. Leyendecker, Jr. 1944. Notes on plants of New Mexico – III. Leaf. West. Bot. 4(2):21-25.

**suckleyana** (Torrey) Rydberg [Chu 2003; Hershey & Leyendecker 1944; M&H]

*Obione suckleyana* Torrey

*Teloxys ambrosioides* (Linnaeus) W.A. Weber = *Dysphania ambrosioides* (Linnaeus) Mosyakin & Clemants

*botrys* (Linnaeus) W.A. Weber = *Dysphania botrys* (Linnaeus) Mosyakin & Clemants

*graveolens* (Willdenow) W.A. Weber = *Dysphania graveolens* (Willdenow) Mosyakin & Clemants

**Tidestromia** tidestromia

Holmgren, N. & Patricia K. Holmgren. 2012. *Tidestromia* pp.564-566. IN: Intermountain Flora, vol. 2, part A. New York Botanical Garden Press, New York

Sánchez del Pino, I. & S.E. Clemants. 2003. *Tidestromia*, pp. 439-443. IN: Flora of North America, vol. 4, pt. 1. Oxford University Press, New York.

Sánchez del Pino, I. & H. Flores Olvera. 2002. New taxa and a new combination in *Tidestromia* (Amaranthaceae) from North America. Novon 12:399-407.

Sanchez del Pino, I. & H. Flores Olvera. 2006. Phylogeny of *Tidestromia* (Amaranthaceae, Gomphrenoideae) based on morphology. Syst. Bot. 31(4):689-701.

Sanchez del Pino, I. & T.J. Motley. 2010. Evolution of *Tidestromia* (Amaranthaceae) in the deserts of the southwestern United States and Mexico. Taxon 59(1):38-48.



**lanuginosa** (Nuttall) Standley subsp. **eliassoniana** Sánchez-del Pino & Flores  
Olvera [Sánchez del Pino & Flores Olvera 2002]

espanta vaquero

**lanuginosa** (Nuttall) Standley subsp. **lanuginosa** [M&H; Sánchez del Pino & Flores  
Olvera 2002; W&S]

espanta vaquero

*Achyranthes lanuginosa* Nuttall

*Cladanthus lanuginosa* Nuttall

**suffruticosa** (Torrey) Standley [M&H; W&S]

*Alternanthera suffruticosa* Torrey

*Cladanthus suffruticosa* (Torrey) Benth & Hooker

*Zuckia brandegeei* (Gray) Welsh & Stutz ex Welsh = *Grayia brandegeei* Gray

*Zuckia brandegeei* (Gray) Welsh & Stutz ex Welsh var. *plummeri* (Stutz & Sanderson) Dorn =  
*Grayia plummeri* (Stutz & Sanderson) Zacharias

Family **AMBROSIACEAE** = **ASTERACEAE**

Family **AMYGDALACEAE** = **ROSACEAE**

### Family **ANACAMPSEROTACEAE** [1/1/1]

- Hernández-Ledesma, P., W.G. Berendsohn, T. Borsch, S. Von Mering, H. Akhiani, S. Arias, I. Castañeda-Noa, U. Eggli, R. Eriksson, H. FloresOlvera, S. Fuentes-Bazán, G. Kadereit, C. Klak, N. Korotkova, R. Nyffeler, G. Ocampo, H. Ochoterena, B. Oxelman, R.K. Rabaler, A. Sanchez, B.O. Schlumberger, & P. Uotila. 2015. A taxonomic backbone for the global synthesis of species diversity in the angiosperm order Caryophyllales. *Willdenowia* 45(3): 281-383.
- Judd, W.S., C.S. Campbell, E.A. Kellogg, P.F. Stevens, & M.J. Donoghue. 2016. *Plant Systematics: A Phylogenetic Approach*, 4th ed. Sinauer Associates, Inc., Sunderland, Massachusetts. 677 pp.
- Nyffeler, R. & U. Eggli. 2010. Disintegrating Portulacaceae: A new familial classification of the suborder Portulacineae (Caryophyllales) based on molecular and morphological data. *Taxon* 59(1):227-240.
- Ocampo, G. & J.T. Columbus. 2010. Molecular phylogenetics of suborder Cactineae (Caryophyllales), including insights into photosynthetic diversification and historical biogeography. *Amer. J. Bot.* 97(11): 1827-1847.
- Packer, J.G. 2003. *Portulacaceae*, pp. 457-504. IN: *Flora of North America*, vol. 4, pt. 1. Oxford University Press, New York.
- Soltis, D.E., S.A. Smith, N. Cellinese, K.J. Wurdack, DC. Tank, S.F. Brockington, N.F. Refulio-Rodriguez, J.B. Walker, M.J. Moore, B.S. Carlswald, C.D. Bell, M. Latvis, S. Crawley, C. Black, D. Diouf, Z. Xi, C.A. Rushworth, M.A. Gitzendanner, K.J. Sytsma, Y.-L. Qiu, K.W. Hilu, C.C. Davis, M.J. Sanderson, R.S. Beaman, R.G. Olmstead, W.S. Judd, M.J. Donoghue, & P.S. Soltis. 2011. Angiosperm phylogeny: 17 genes, 640 taxa. *Amer. J. Bot.* 98(4): 704-730.

**Talinopsis** talinopsis

Kiger, R. 2003. *Talinopsis*, pp. 501-502. IN: *Flora of North America*, vol. 4, pt. 1. Oxford University Press, New York.

**frutescens** Gray [Kiger 2003; M&H; W&S]

### Family **ANACARDIACEAE** [2/7/8]

- Cronquist, A. & A.H. Holmgren. 1997. *Anacardiaceae*, pp. 313-318. IN: *Intermountain Flora*, vol. 3, pt A. New York Botanical Garden Press.
- Judd, W.S., C.S. Campbell, E. A. Kellogg, P. F. Stevens, & M. J. Donoghue. 2016. *Anacardiaceae*, pp. 437-439. IN: *Plant Systematics, A Phylogenetic Approach*, Sinauer Associates, Inc.
- Spellenberg, R., C.J. Earle, & G.Nelson. 2014. *Anacardiaceae*, pp.134-148. IN: *Trees of Western North America*. Princeton University Press, Princeton, NJ.

*Rhoetidium microphyllum* (Engelmann) Greene = *Rhus microphylla* Engelmann

**Rhus** sumac

- Barkley, F.A. 1937. A monographic study of *Rhus* and its immediate allies in North and Central America, including the West Indies. *Ann. Missouri Bot. Gard.* 24(3):265-465.
- Barkley, F.A. 1940. *Schmalzia*. *Amer. Midl. Naturalist* 24:647-665.
- Gillis, W.T. 1971. The systematics and ecology of poison-ivy and the poison-oaks (*Toxicodendron*, Anacardiaceae). *Rhodora* 73:72-159, 161-237, 370-443, 465-540.
- Turner, B.L. 1996. Synoptical study of *Rhus virens* (Anacardiaceae) and closely related taxa. *Phytologia* 80(5):368-376.

*aromatica* Aiton var. *pilosissima* (Engelmann) Shinnars = *Rhus trilobata* Nuttall  
*choriophylla* Wootton & Standley = *Rhus virens* Lindheimer ex Gray var. *choriophylla*  
(Wootton & Standley) B.L. Turner

- cismontana* Greene = *Rhus glabra* Linnaeus  
*copallina* Linnaeus var. *lanceolata* Gray = *Rhus lanceolata* (Gray) Britton  
***glabra*** Linnaeus [M&H; W&S]  
 smoth sumac  
     *Rhus cismontana* Greene  
     *Rhus glabra* Linnaeus var. *cismontana* (Greene) Daniels  
     *Rhus sorbifolia* Greene  
*glabra* Linnaeus var. *cismontana* (Greene) Daniels = *Rhus glabra* Linnaeus  
***lanceolata*** (Gray) Britton [M&H; W&S]  
 prairie sumac  
     *Rhus copallina* Linnaeus var. *lanceolata* Gray  
     *Schmaltzia lanceolata* (Gray) Small  
***microphylla*** Engelmans ex Gray [M&H; W&S]  
 littleleaf sumac  
     *Rhoetidium microphyllum* (Engelmann) Greene  
***ovata*** S. Watson [FNM I]  
 sugar bush  
*radicans* Linnaeus s.s. [=Toxicodendron radicans Linnaeus] : Not occurring in NM; our material is referred to *Toxicodendron rydbergii* (Small ex Rydberg) Greene [Gillis 1971].  
*radicans* Linnaeus var. *rydbergii* (Small ex Rydberg) Rehder = *Toxicodendron rydbergii* (Small ex Rydberg) Greene  
*sorbifolia* Greene = *Rhus glabra* Linnaeus  
***trilobata*** Nuttall [Barkley 1937; M&H; W&S]  
 skunkbush sumac  
     *Rhus aromatica* Aiton var. *pilosissima* (Engelmann) Shiners  
     *Schmaltzia affinis* Greene  
     *Schmaltzia anisophylla* Greene  
     *Schmaltzia bakeri* Greene  
     *Schmaltzia cognata* Greene  
     *Schmaltzia emoryi* Greene  
     *Schmaltzia leiocarpa* Greene  
     *Schmaltzia pulchella* Greene  
     *Schmaltzia quercifolia* Greene  
     *Schmaltzia quinata* Greene  
     *Schmaltzia racemulosa* Greene  
     *Schmaltzia simplicifolia* Greene  
     *Schmaltzia trilobata* (Nuttall) Small  
*trilobata* Nuttall var. *anisophylla* (Greene) Jepson = *Rhus trilobata* Nuttall  
*trilobata* Nuttall var. *pilosissima* Engelmann = *Rhus trilobata* Nuttall  
*trilobata* Nuttall var. *racemulosa* (Greene) Barkley = *Rhus trilobata* Nuttall  
*trilobata* Nuttall var. *quinata* (Greene) Jepson = *Rhus trilobata* Nuttall  
*trilobata* Nuttall var. *simplicifolia* (Greene) Barkley = *Rhus trilobata* Nuttall  
***virens*** Lindheimer ex Gray var. ***choriophylla*** (Wooton & Standley) L. Benson [M&H; Turner 1996; W&S]  
 Wooton's sumac  
     *Rhus choriophylla* Wooton & Standley  
     *Rhus virens* Lindheimer ex Gray subsp. *choriophylla* (Wooton & Standley) Young  
     *Rhus virens* Lindheimer ex Gray var. *choriophylla* (Wooton & Standley) B.L. Turner  
     *Schmaltzia choriophylla* (Wooton & Standley) Barkley  
*virens* Lindheimer ex Gray var. *choriophylla* (Wooton & Standley) B.L. Turner = *Rhus virens* Lindheimer ex Gray var. *choriophylla* (Wooton & Standley) L. Benson  
*virens* Lindheimer ex Gray subsp. *choriophylla* (Wooton & Standley) Young = *Rhus virens* Lindheimer ex Gray var. *choriophylla* (Wooton & Standley) L. Benson  
***virens*** Lindheimer ex Gray var. ***virens*** [Turner 1996]  
 evergreen sumac

*Schmaltzia affinis* Greene = *Rhus trilobata* Nuttall  
*anisophylla* Greene = *Rhus trilobata* Nuttall  
*bakeri* Greene = *Rhus trilobata* Nuttall  
*choriophylla* (Wooton & Standley) Barkley = *Rhus virens* Lindheimer ex Gray var.  
*choriophylla* (Wooton & Standley) L. Benson  
*cognata* Greene = *Rhus trilobata* Nuttall  
*emoryi* Greene = *Rhus trilobata* Nuttall  
*lanceolata* (Gray) Small = *Rhus lanceolata* (Gray) Britton  
*leiocarpa* Greene = *Rhus trilobata* Nuttall  
*pulchella* Greene = *Rhus trilobata* Nuttall  
*quercifolia* Greene = *Rhus trilobata* Nuttall  
*quinata* Greene = *Rhus trilobata* Nuttall  
*racemulosa* Greene = *Rhus trilobata* Nuttall  
*simplicifolia* Greene = *Rhus trilobata* Nuttall  
*trilobata* (Nuttall) Small = *Rhus trilobata* Nuttall

**Toxicodendron** poison-ivy

Gillis, W.T. 1960. Taxonomic problems in poison ivy. Proc. Michigan Acad. Sci. 45:27-34.  
 Gillis, W.T. 1971. The systematics and ecology of poison-ivy and the poison-oaks (*Toxicodendron*,  
 Anacardiaceae). Rhodora 73:72-159, 161-237, 370-443, 465-540.  
*altissimum* Miller = *Ailanthus altissima* (Miller) Swingle (Simaroubaceae)  
*radicans* of NM authors, not (Linnaeus) Kuntze s.s. = *Toxicodendron rydbergii* (Small ex  
 Rydberg) Greene  
*rydbergii* (Small ex Rydberg) Greene [Gillis 1971; M&H; W&S]  
*Rhus radicans* Linnaeus var. *rydbergii* (Small ex Rydberg) Rehder  
*Rhus rydbergii* Small ex Rydberg  
*Toxicodendron radicans* of NM authors, not (Linnaeus) Kuntze s.s.

**Family APIACEAE (UMBELLIFERAE)** [35/72/73]

Constance, L. 1993. Apiaceae, p. 136-166. IN: Hickmann, J.C. (ed.). The Jepson Manual. Berkeley:  
 University of California Press.  
 Cronquist, A. 1997. Apiaceae, p. 340-427. IN: Intermountain Flora, Vol. 3A (Rosidae, except Fabales).  
 New York Botanical Garden. 446 pp.  
 Mathias, M.E. and L. Constance. 1944-45. Umbelliferae. North American Flora 28B (1,2):43-295.

**Aletes** Indian-parsley

Sivinski, R.C. & K. Lightfoot, eds. 1994. Inventory of rare and endangered plants of New Mexico. New  
 Mexico Forestry and Resources Conservation Division, Misc. Publ. No. 3. [*Aletes macdougallii*  
 subsp. *breviradiatus*]  
 Theobald, W.L., C.C. Tseng, & M.E. Mathias. 1963. A revision of *Aletes* and *Neoparrya* (Umbelliferae).  
 Brittonia 16:296-315.

**acaulis** (Torrey) Coulter & Rose [M&H; W&S]

*Deweya acaulis* Torrey  
 *davidsonii* Coulter & Rose = *Cymopterus davidsonii* (Coulter & Rose) R.L. Hartman  
**filifolius** Matthias, Constance, & Theobald [M&H]  
*macdougallii* Coulter & Rose = *Cymopterus macdougallii* (Coulter & Rose) Tidestrom  
*macdougallii* Coulter & Rose subsp. *breviradiatus* Theobald & Tseng = *Cymopterus*  
*breviradiatus* (W.L. Theobald & Tseng) R.L. Hartman  
*sessiliflorus* Theobald & Tseng = *Cymopterus sessiliflorus* (Theobald & Tseng) R.L.  
 Hartman

**Ammoselinum** sand-parsley

**popei** Torrey & Gray [M&H]

**Angelica** angelica

**ampla** A. Nelson [M&H]  
**grayi** (Coulter & Rose) Coulter & Rose [M&H]  
*Selinum grayi* Coulter & Rose  
*leporina* S. Watson = *Angelica pinnata* S. Watson  
**pinnata** S. Watson [M&H; W&S]  
*Angelica leporina* S. Watson

**Apium** celery

**\*graveolens** Linnaeus [M&H; W&S]

*leptophyllum* (Persoon) F. Mueller ex Bentham = *Cyclospermum leptophyllum* (Persoon) Sprague ex Britton & Wilson

*Aralia*...go to ARALIACEAE

*Archemora fendleri* Gray = *Oxypolis fendleri* (Gray) Heller

*Atenia gairdneri* Hooker & Arnott = *Perideridia gairdneri* (Hooker & Arnott) Mathias

*Aulospermum purpureum* (S. Watson) Coulter & Rose = *Cymopterus purpureus* S. Watson

***Berula*** water-parsnip

*erecta* (Hudson) Coville [M&H; W&S]

*Sium erectum* Hudson

***Bowlesia*** bowlesia

Allred, K.W. 1999. New plant distribution records. The New Mexico Botanist 13:7. [*Bowlesia incana*]

Matthias, M.E. & L. Constance. 1965. A revision of the genus *Bowlesia* Ruiz & Pav. (Umbelliferae-Hydrocotyloideae) and its relatives. Univ. Calif. Publ. Bot. 38:1-73.

*incana* Ruiz & Pavon [Allred 1999]

***Bupleurum*** thorough-wax

Allred, K.W. 1999. New plant distribution records. The New Mexico Botanist 10:7. [*Bupleurum americanum*]

*americanum* Coulter & Rose [Allred 1999]

***Carum*** caraway

Peterson, R.S. 2000. New plant distribution records. The New Mexico Botanist 15:7. [*Carum carvi*]

\**carvi* Linnaeus [Peterson 2000]

*gairdneri* (Hooker & Arnott) Gray = *Perideridia gairdneri* (Hooker & Arnott) Mathias

*Caucalis arvensis* Hudson = *Torilis arvensis* (Hudson) Link

*microcarpa* Hooker & Arnott = *Yabea microcarpa* (Hooker & Arnott) Koso-Poljansky

***Chaerophyllum*** chervil

*tainturieri* Hooker [FNM I]

***Cicuta*** water-hemlock

Mulligan, G.A. 1980. The genus *Cicuta* in North America. Canad. J. Bot. 58:1755-1767.

Mulligan, G.A. & D.B. Munro. 1981. The biology of Canadian weeds. 48. *Cicuta maculata* L., *C. douglasii* (DC.) Coult. & Rose, and *C. virosa* L. Can. J. Pl. Sci. 61: 93-105.

*douglasii* (A.P. de Candolle) Coulter & Rose : Reported by various works, but authentic specimens unknown.

*Cicuta bolanderi* of NM reports

*maculata* Linnaeus var. *angustifolia* Hooker [M&H; Mulligan 1980; W&S]

*Cicuta occidentalis* Greene

*maculata* Linnaeus var. *maculata* [FNM I]

*Cicuta mexicana* Coulter & Rose

*bolanderi* of NM reports = *Cicuta douglasii* (A.P. de Candolle) Coulter & Rose

*mexicana* Coulter & Rose = *Cicuta maculata* Linnaeus var. *maculata*

*occidentalis* Greene = *Cicuta maculata* Linnaeus var. *angustifolia* Hooker

*trachypleura* S. Watson = *Harbouria trachypleura* (S. Watson) Coulter & Rose

*Cogswellia nevadensis* (S. Watson) M.E. Jones = *Lomatium nevadense* (S. Watson) Coulter & Rose var. *nevadense*

*orientalis* (Coulter & Rose) M.E. Jones = *Lomatium orientale* Coulter & Rose

***Conioselinum*** hemlock-parsley

*scopulorum* (Gray) Coulter & Rose [M&H; W&S]

*Ligusticum scopulorum* Gray

***Conium*** poison-hemlock

Hershey, A.L. & P.J. Leyendecker, Jr. 1944. Notes on plants of New Mexico—III. Leaflets of Western Botany 4(2):21-25. [*Conium maculatum*]

\**maculatum* Linnaeus [Hershey & Leyendecker 1944; M&H]

***Coriandrum*** coriander, cilantro

\**sativum* Linnaeus [M&H; W&S]

***Cyclospermum*** marsh-parsley

Allred, K.W. 1999. New plant distribution records. The New Mexico Botanist 13:7. [*Cyclosperma leptophyllum*]

Allred, K.W. 2000. New plant distribution records. The New Mexico Botanist 15:7. [*Cyclospermum leptophyllum*]

\**leptophyllum* (Persoon) Sprague ex Britton & Wilson [Allred 1999, 2000]

*Apium leptophyllum* (Persoon) F. Mueller ex Bentham

*Pimpinella leptophylla* Persoon  
*Spermolepis divaricata* of NM reports

- Cymopterus** spring-parsley  
 Hartman, R.L. 2000. A new species of *Cymopterus* (Apiaceae) from the Rocky Mountain region, U.S.A. *Brittonia* 52(2):136-141. [*Cymopterus constancei*]  
 Hartman, R.L. 2006. New combinations in the genus *Cymopterus* (Apiaceae) of the southwestern United States. *Sida* 22(2):955-957.  
 Hartman, R.L. & J.E. Larson. 2011. *Cymopterus spellenbergii* (Apiaceae), a new species from north central New Mexico. *J. Bot. Res. Inst. Texas* 5(1):33-40.  
 Hartman, R.L. & G.L. Nesom. 2012. Taxonomy of the genus *Vesper* (Apiaceae). *Phytoneuron* 2012-94:1-9.  
 Heil, K. & S. O'Kane. 2007. Plant distribution reports. *The New Mexico Botanist* 41:7. [*Cymopterus longilobus*]  
 Heil, K.D., S.L. O'Kane, & A. Clifford. 2002. Additions to the flora of New Mexico from the San Juan Basin Flora project. *The New Mexico Botanist* 24:1-4. [*Cymopterus petraeus*, as *Pteryxia petraea*]  
 Peterson, R.S. 2000. New plant distribution records. *The New Mexico Botanist* 15:7. [*Cymopterus purpurascens*]  
 Sivinski, R.C. & K. Lightfoot, eds. 1994. Inventory of rare and endangered plants of New Mexico. New Mexico Forestry and Resources Conservation Division, Misc. Publ. No. 3. [*Cymopterus breviradiatus*]  
 Sun, F.-J. and S.R. Downie. 2010. Phylogenetic analyses of morphological and molecular data reveal major clades within the perennial, endemic western North American Apiaceae subfamily Apioideae. *J. Torrey Bot. Soc.* 137: 133-156.  
*acaulis* (Pursh) Rafinesque = *Cymopterus glomeratus* (Nuttall) A.P. de Candolle  
*acaulis* (Pursh) Rafinesque var. *fendleri* (Gray) Goodrich = *Cymopterus glomeratus* (Nuttall) A.P. de Candolle  
**alpinus** Gray [M&H]  
*Oreoxis alpina* (Gray) Coulter & Rose  
*bakeri* (Coulter & Rose) M.E. Jones = *Oreoxis bakeri* Coulter & Rose  
*breviradiatus* (Theobald & Tseng) R.L. Hartman = *Cymopterus sessiliflorus* (Theobald & Tseng) R.L. Hartman  
*bulbosus* A. Nelson = *Vesper bulbosus* (A. Nelson) R.L. Hartman & G.L. Nesom  
*constancei* R.L. Hartman = *Vesper constancei* (R.L. Hartman) R.L. Hartman & G.L. Nesom  
**davidsonii** (Coulter & Rose) R.L. Hartman [M&H]  
*Aletes davidsonii* Coulter & Rose  
*Pseudocymopterus davidsonii* (Coulter & Rose) Matthias  
*Pteryxia davidsonii* (Coulter & Rose) Matthias & Constance  
*fendleri* Gray = *Cymopterus glomeratus* (Nuttall) A.P. de Candolle var. *fendleri* (Gray) R.L. Hartman  
**glomeratus** (Nuttall) A.P. de Candolle [M&H; W&S]  
*Cymopterus acaulis* (Pursh) Rafinesque  
*Cymopterus acaulis* (Pursh) Rafinesque var. *fendleri* (Gray) Goodrich  
*Cymopterus fendleri* Gray  
*Cymopterus glomeratus* (Nuttall) A.P. de Candolle var. *fendleri* (Gray) R.L. Hartman  
*Thapsia glomerata* Nuttall  
**hendersonii** (Coulter & Rose) Cronquist [Heil & O'Kane 2007; Mathias & Constance 1945]  
*Cymopterus longilobus* (Rydberg) W.A. Weber  
*Pseudocymopterus hendersonii* Coulter & Rose [1900]  
*Pseudopteryxia longiloba* Rydberg [1913]  
*Pteryxia hendersonii* (Coulter & Rose) Mathias & Constance  
**lemmonii** (Coulter & Rose) Dorn [M&H; W&S]  
*Peucedanum lemmonii* Coulter & Rose  
*Pseudocymopterus filicinus* Wootton & Standley  
*Pseudocymopterus montanus* (Gray) Coulter & Rose  
*Pseudocymopterus multifidus* Rydberg  
*Pseudocymopterus purpureus* (Coulter & Rose) Rydberg  
*Pseudocymopterus tenuifolius* (Gray) Rydberg  
*Thaspium montanum* Gray  
*longilobus* (Rydberg) W.A. Weber = *Cymopterus hendersonii* (Coulter & Rose) Cronquist  
**longiradiatus** (Mathias, Constance, & Theobald) B.L. Turner [M&H]  
*Pseudocymopterus longiradiatus* Mathias, Constance, & Theobald

- macdougalii* (Coulter & Rose) Tidestrom s.s. : Reported by M&H; our plants are referred to *Cymopterus sessiliflorus* (Theobald & Tseng) R.L. Hartman  
*Aletes macdougalii* Coulter & Rose  
*Oreoxis macdougalii* (Coulter & Rose) Rydberg
- macdougalii* (Coulter & Rose) Tidestrom subsp. *breviradiatus* Theobald & Tseng = *Cymopterus sessiliflorus* (Theobald & Tseng) R.L. Hartman
- macrorhizus* Buckley = *Vesper macrorhizus* (Buckley) R.L. Hartman & G.L. Nesom
- montanus* Nuttall ex Torrey & Gray = *Vesper montanus* (Nuttall ex Torrey & Gray) R.L. Hartman & G.L. Nesom
- montanus* Nuttall ex Torrey & Gray var. *purpurascens* Gray = *Cymopterus purpurascens* (Gray) M.E. Jones
- multinervatus* (Coulter & Rose) Tidestrom = *Vesper multinervatus* (Coulter & Rose) R.L. Hartman & G.L. Nesom
- newberryi* (S. Watson) M.E. Jones : Reported as expected by M&H; awaits verification.
- petraeus*** M.E. Jones [Heil et al. 2002]  
*Cymopterus terebinthinus* (Hooker) Torrey & Gray var. *petraeus* (M.E. Jones) Goodrich  
*Pteryxia petraea* (M.E. Jones) Coulter & Rose
- purpurascens* (Gray) M.E. Jones : Reported by Peterson (2000), but our plants belong to *Cymopterus constancei* R.L. Hartman [Hartman 2000].  
*Cymopterus montanus* Nuttall ex Torrey & Gray var. *purpurascens* Gray
- purpureus*** S. Watson [M&H; W&S]  
*Aulospermum purpureum* (S. Watson) Coulter & Rose
- sessiliflorus*** (Theobald & Tseng) R.L. Hartman [M&H; Sivinski & Lightfoot 1994]  
*Aletes macdougalii* Coulter & Rose subsp. *breviradiatus* Theobald & Tseng  
*Aletes sessiliflorus* Theobald & Tseng  
*Cymopterus breviradiatus* (Theobald & Tseng) R.L. Hartman  
*Cymopterus macdougalii* (Coulter & Rose) Tidestrom subsp. *breviradiatus* Theobald & Tseng
- +*spellenbergii*** R.L. Hartman & J.E. Larson [Hartman & Larson 2011]  
*terebinthinus* (Hooker) Torrey & Gray var. *petraeus* (M.E. Jones) Goodrich = *Cymopterus petraeus* M.E. Jones
- Daucosma laciniata* Engelmann & A. Gray : Reported by Allred (1999) in error; no authentic specimens known from NM.
- Daucus*** carrot  
\**carota* Linnaeus [M&H]  
Queen Anne's lace, carrot  
*divaricatus* Walter = *Spermolepis divaricata* (T. Walter) Rafinesque ex Seringe
- pusillus*** Michaux [M&H; W&S]
- Deweya acaulis* Torrey = *Aletes acaulis* (Torrey) Coulter & Rose
- Eryngium*** eryngo  
Todsens, T.K. 1973. Comments on New Mexico flora. Sida 5(2):135. [*Eryngium lemmonii*]  
***heterophyllum*** Engelmann [M&H; W&S]  
*Eryngium wrightii* Gray  
***lemmonii*** Coulter & Rose [M&H; Todsens 1973]  
*longifolium* Gray = *Eryngium sparganophyllum* Hemsley  
***sparganophyllum*** Hemsley [M&H; W&S]  
*Eryngium longifolium* Gray  
*wrightii* Gray = *Eryngium heterophyllum* Engelmann
- Eulophus parishii* Coulter & Rose = *Perideridia parishii* (Coulter & Rose) Nelson & Macbride
- Eurytaenia*** spreadwing  
Martin, W.C. 1982. WIPP Project-Floristic Study. IN: Westinghouse Electric Corporation Ecosystem Studies at the Los Medanos Site, Eddy County, New Mexico. Albuquerque, Sandia Laboratory. [*Eurytaenia texana*]  
Nesom, G.L. 2012. Taxonomy of *Eurytaenia* (Apiaceae). Phytoneuron 2012-67:1-7.  
***hinckleyi*** Mathias & Constance [Martin 1982]  
*Eurytaenia texana* of NM reports
- Foeniculum*** fennel  
*foeniculum* (Linnaeus) Karsten = *Foeniculum vulgare* Miller

- \**vulgare* Miller [M&H; W&S]  
*Foeniculum foeniculum* (Linnaeus) Karsten
- Harbouria** whisk-broom  
*trachypleura* (S. Watson) Coulter & Rose [M&H]  
*Cicuta trachypleura* S. Watson
- Heracleum** cow-parsnip  
Kartesz, J.T. & K.N. Gandhi. 1994. Nomenclatural notes for the North American flora. XIII. *Phytologia* 76(6):441-457.  
*lanatum* Michaux = *Heracleum maximum* Bartram  
*maximum* Bartram [M&H; W&S]  
*Heracleum lanatum* Michaux
- Hydrocotyle*...go to ARALIACEAE  
*Leptocaulis echinatus* Nuttall = *Spermolepis echinata* (Nuttall ex A.P. de Candolle) Heller  
*inermis* Nuttall ex A.P. de Candolle = *Spermolepis inermis* (Nuttall ex A.P. de Candolle) Mathias & Constance
- \**Levisticum officinale* Koch : Reported by M&H, but the only known collection is from a garden; not known to occur in the wild; awaits verification.
- Ligusticella eastwoodiae* Coulter & Rose = *Podistera eastwoodiae* (Coulter & Rose) Mathias & Constance
- Ligusticum** wild-lovage  
*eastwoodiae* Rose = *Podistera eastwoodiae* (Coulter & Rose) Mathias & Constance  
*filicinum* S. Watson [FNM I]  
*porteri* Coulter & Rose [M&H; W&S]  
osha  
*scopulorum* Gray = *Conioselinum scopulorum* (Gray) Coulter & Rose
- Lomatium** biscuit-root  
Feist, M.A., J.F. Smith, D.H. Mansfield, M. Darrach, R.P. McNeill, S.R. Downie, G.M. Plunkett, & B.L. Wilson. 2017. New combinations in *Lomatium* (Apiaceae, subfamily Apioideae). *Phytotaxa* 316(1): 95-98.  
George, E.E., D.H. Mansfield, J.F. Smith, R.L. Hartman, S.R. Downie, & C.E. Hinchliff. 2014. Phylogenetic analysis reveals multiple cases of morphological parallelism and taxonomic polyphyly in *Lomatium* (Apiaceae). *Systematic Botany* 39: 662-675.  
Heil, K. & S. O'Kane. 2007. Plant distribution reports. *The New Mexico Botanist* 41:7. [*Lomatium linearifolium*]  
Heil, K. 2010. Plant distribution reports [*Lomatium multifidum*]. *The New Mexico Botanist* 51:2.  
Mathias, M.E. & L. Constance. 1945. *Umbelliferae* (pars.). *North American Flora* 28B.  
Reif, B., J. Larson, B.R. Jacobs, B.E. Nelson, & R.L. Hartman. 2009. Floristic studies in north central New Mexico, U.S.A., the Tusa Mountains and the Jemez Mountains. *J. Bot. Res. Inst. Texas* 3(2):921-961. [*Lomatium grayi*, *Lomatium triternatum platycarpum*]  
Spellenberg, R., M. Mahrt & R. Brozka. 1991. Noteworthy collections, New Mexico. *Madroño* 38:298-301. [*Lomatium foeniculaceum*]  
*dissectum* (Nuttall) Mathias & Constance var. *multifidum* (Nuttall) Mathias & Constance = *Lomatium multifidum* (Nuttall) R.P. McNeil & Darrach  
**foeniculaceum** (Nuttall) Coulter & Rose [Spellenberg et al. 1991]  
*Lomatium foeniculaceum* (Nuttall) Coulter & Rose subsp. *macdougallii* (Coulter & Rose) Theobald  
*Lomatium macdougallii* Coulter & Rose  
**grayi** (Coulter & Rose) Coulter & Rose [Reif et al. 2009]  
*Peucedanum grayi* Coulter & Rose  
**linearifolium** (S. Watson) J.F. Smith & Mansfield [Heil & O'Kane 2007]  
*Orogenia linearifolia* S. Watson  
*macdougallii* Coulter & Rose = *Lomatium foeniculaceum* (Nuttall) Coulter & Rose subsp. *macdougallii* (Coulter & Rose) Theobald  
**multifidum** (Nuttall) R.P. McNeil & Darrach [Heil 2010]  
*Lomatium dissectum* (Nuttall) Mathias & Constance var. *multifidum* (Nuttall) Mathias & Constance  
*Lomatium dissectum* (Nuttall) Mathias & Constance var. *eatonii* (J. M. Coulter & Rose) Cronquist  
*nevadense* (S. Watson) Coulter & Rose of NM reports = *Lomatium nevadense* (S. Watson) Coulter & Rose var. *parishii* (Coulter & Rose) Jepson  
*Cogswellia nevadensis* (S. Watson) M.E. Jones

- Peucedanum nevadense* S. Watson  
**nevadense** (S. Watson) Coulter & Rose var. **parishii** (Coulter & Rose) Jepson  
 [M&H; Mathias & Constance 1945]  
*Peucedanum parishii* Coulter & Rose  
*nuttallii* of NM reports = *Neoparrya lithophila* Mathias  
**orientale** Coulter & Rose [M&H; W&S]  
*Cogswellia orientalis* (Coulter & Rose) M.E. Jones  
**simplex** (Nuttall ex S. Watson) J.F. Macbride [Reif et al. 2009]  
*Lomatium triternatum* (Pursh) Coulter & Rose var. *platycarpum* (Torrey) Boivin  
*Peucedanum simplex* Nuttall ex S. Watson  
*Peucedanum triternatum* (Pursh) var. *platycarpum* Torrey  
*triternatum* (Pursh) Coulter & Rose var. *platycarpum* (Torrey) Boivin = *Lomatium simplex*  
 (Nuttall ex S. Watson) J.F. Macbride  
*Musineon divaricatum* (Pursh) Rafinesque var. *divaricatum* : Reported by McGregor (1986), but  
 the distribution of this species is to the north; needs verification.  
*Myrrhis longistylis* Torrey = *Osmorhiza longistylis* (Torrey) A.P. de Candolle  
**Neoparrya** *neoparrya*  
 Anderson, D.G. 2004. *Neoparrya lithophila* Mathias (Bill's neoparrya): A technical conservation  
 assessment. Prepared for USDA Forest Service, Rocky Mountain Region, Species Conservation  
 Project. Available online at  
<http://www.fs.fed.us/r2/projects/scp/assessments/neoparryalithophila.pdf>.  
 Hartman, R.L., B. Reif, B.E. Nelson, & B. Jacobs. 2006. New vascular plant records for New Mexico. *Sida*  
 22(2):1225-1233.  
*lithophila* Mathias [Hartman et al. 2006]  
**Oreoxis** *alpine spring-parsley*  
 George, E.E., D.H. Mansfield, J.F. Smith, R.L. Hartman, S.R. Downie, & C.E. Hitchcliff. 2014. Phylogenetic  
 analysis reveals multiple cases of morphological parallelism and taxonomic polyphyly in  
*Lomatium* (Apiaceae). *Syst. Bot.* 39(2):662-675.  
 Sun, F.J. & S.R. Downie. 2004. A molecular systematic investigation of *Cymopterus* and its allies  
 (Apiaceae) based on phylogenetic analyses of nuclear (ITS) and plastid (rps16 intron) DNA  
 sequences. *S. African J. Bot.* 70:407-416.  
*alpina* (Gray) Coulter & Rose = *Cymopterus alpinus* Gray  
**bakeri** Coulter & Rose [M&H; W&S]  
*Cymopterus bakeri* (Coulter & Rose) M.E. Jones  
*humilis* Rafinesque : Reported by W&S, but apparently endemic to Colorado [Kartesz  
 1999].  
*macdougalii* (Coulter & Rose) Rydberg = *Cymopterus macdougalii* (Coulter & Rose)  
 Rydberg  
*Orogenia linearifolia* S. Watson = *Lomatium linearifolium* (S. Watson) J.F. Smith & Mansfield  
**Osmorhiza** *sweet-cicely*  
 Lowry, P.R. II and A.G. Jones. 1984. Systematics of *Osmorhiza* Rafinesque (Apiaceae: Apioideae). *Ann.*  
*Missouri Bot. Gard.* 71:1128-1171.  
 Peterson, R.S. 2000. New plant distribution records. *The New Mexico Botanist* 15:7. [*Osmorhiza*  
*longistylis*]  
**berteroi** A.P de Candolle [Lowry & Jones 1984; M&H]  
*Osmorhiza nuda* Torrey  
*Washingtonia divaricata* Britton  
*chilensis* Hooker & Arnott = *Osmorhiza berteroi* A.P. de Candolle  
**depauperata** Philippi [Lowry & Jones 1984]  
*Osmorhiza obtusa* (Coulter & Rose) Fernald  
*Washingtonia obtusa* Coulter & Rose  
**longistylis** (Torrey) A.P. de Candolle [M&H; Peterson 2000; W&S]  
*Myrrhis longistylis* Torrey  
*nuda* Torrey = *Osmorhiza berteroi* A.P. de Candolle  
*obtusa* (Coulter & Rose) Fernald = *Osmorhiza depauperata* Philippi  
**Oxypolis** *cowbane*  
**fendleri** (Gray) Heller [M&H; W&S]  
*Archemora fendleri* Gray  
**Pastinaca** *parsnip*  
 \**sativa* Linnaeus [M&H; W&S]



**Perideridia** yampa

Chuang, T.I. and L. Constance. 1969. A systematic study of *Perideridia* (Umbelliferae-Apioideae). Univ. Calif. Publ. Bot. 55:1-74.

***gairdneri*** (Hooker & Arnott) Mathias [M&H]

*Atenia gairdneri* Hooker & Arnott

*Carum gairdneri* (Hooker & Arnott) Gray

***parishii*** (Coulter & Rose) Nelson & Macbride subsp. ***parishii*** [Chuang & Constance 1969]

*Eulophus parishii* Coulter & Rose

*Peucedanum grayi* Coulter & Rose = *Lomatium grayi* (Coulter & Rose) Coulter & Rose

*lemmonii* Coulter & Rose = *Cymopterus lemmonii* (Coulter & Rose) Dorn

*nevadense* S. Watson = *Lomatium nevadense* (S. Watson) Coulter & Rose

*parishii* Coulter & Rose = *Lomatium nevadense* (S. Watson) Coulter & Rose var. *parishii* (Coulter & Rose) Jepson

*simplex* Nuttall ex S. Watson = *Lomatium simplex* (Nuttall ex S. Watson) J.F. Macbride

*triternatum* (Pursh) var. *platycarpum* Torrey = *Lomatium simplex* (Nuttall ex S. Watson) J.F. Macbride

*Phellopterus bulbosus* (A. Nelson) Coulter & Rose = *Vesper bulbosus* (A. Nelson) R.L. Hartman & G.L. Nesom

*macrorhizus* (Buckley) Coulter & Rose = *Vesper macrorhizus* (Buckley) R.L. Hartman & G.L. Nesom

*montanus* Nuttall = *Vesper montanus* (Nuttall ex Torrey & Gray) R.L. Hartman & G.L. Nesom

*multinervatus* Coulter & Rose = *Vesper multinervatus* (Coulter & Rose) R.L. Hartman & G.L. Nesom

*utahensis* (M.E. Jones) Wootton & Standley = *Vesper bulbosus* (A. Nelson) R.L. Hartman & G.L. Nesom

*Pimpinella leptophylla* Persoon = *Cyclospermum leptophyllum* (Persoon) Sprague

**Podistera** wood-root

Sivinski, R.C. & K. Lightfoot, eds. 1995. Inventory of rare and endangered plants of New Mexico. New Mexico Forestry and Resources Conservation Division, Misc. Publ. No. 4.

***eastwoodiae*** (Coulter & Rose) Matthias & Constance [M&H; Sivinski & Lightfoot 1995]

*Ligusticella eastwoodiae* Coulter & Rose

*Ligusticum eastwoodiae* Rose

*Polytaenia nuttallii* A.P. de Candolle : Reported by Gleason & Cronquist (1991), but this seems unlikely in view of its distribution; needs verification.

*Pseudocymopterus davidsonii* (Coulter & Rose) Matthias = *Cymopterus davidsonii* (Coulter & Rose) R.L. Hartman

*filicinus* Wootton & Standley = *Cymopterus lemmonii* (Coulter & Rose) Dorn

*hendersonii* Coulter & Rose = *Cymopterus hendersonii* (Coulter & Rose) Cronquist

*longiradiatus* Matthias, Constance, & Theobald = *Cymopterus longiradiatus* (Matthias, Constance, & Theobald) R.L. Hartman

*montanus* (Gray) Coulter & Rose = *Cymopterus lemmonii* (Coulter & Rose) Dorn

*multifidus* Rydberg = *Cymopterus lemmonii* (Coulter & Rose) Dorn

*purpureus* (Coulter & Rose) Rydberg = *Cymopterus lemmonii* (Coulter & Rose) Dorn

*temuifolius* (Gray) Rydberg = *Cymopterus lemmonii* (Coulter & Rose) Dorn

*Pseudopteryxia longiloba* Rydberg = *Cymopterus hendersonii* (Coulter & Rose) Cronquist

*Pteryxia davidsonii* (Coulter & Rose) Matthias & Constance = *Cymopterus davidsonii* (Coulter & Rose) R.L. Hartman

*hendersonii* (Coulter & Rose) Matthias & Constance = *Cymopterus hendersonii* (Coulter & Rose) Cronquist

*petraea* (M.E. Jones) Coulter & Rose = *Cymopterus petraeus* M.E. Jones

**Sanicula** snakeroot

*canadensis* Linnaeus : Reported as expected by M&H; awaits verification.

***marilandica*** Linnaeus [M&H; W&S]

*Selinum grayi* Coulter & Rose = *Angelica grayi* (Coulter & Rose) Coulter & Rose

**Sium** water-parsnip

Reif, B., J. Larson, B.R. Jacobs, B.E. Nelson, & R.L. Hartman. 2009. Floristic studies in north central New Mexico, U.S.A., the Tusa Mountains and the Jemez Mountains. J. Bot. Res. Inst. Texas 3(2):921-961. [*Lomatium grayi*, *Lomatium triternatum platycarpum*]

*cicutifolium* Schrank = *Sium suave* T. Walter  
*erectum* Hudson = *Berula erecta* (Hudson) Coville  
**suave** T. Walter [Reif et al. 2009]  
*Sium cicutifolium* Schrank

**Spermolepis** scaleseed

Allred, K.W. 1999. New plant distribution records. The New Mexico Botanist 13:7. [*Spermolepis inermis*]  
Nesom, G.L. 2012. Taxonomy of *Apiastrum*, *Ammoselinum*, and *Spermolepis* (Apiaceae). Phytoneuron 2012-87:1-49.

*divaricata* (T. Walter) Rafinesque ex Seringe : Reported by M&H & W&S, based on misidentifications of *Cyclosperrum leptophyllum* (Persoon) Sprague; not known from NM.

*Daucus divaricatus* Walter

**echinata** (Nuttall ex A.P. de Candolle) Heller [M&H; Nesom 2012; W&S]

*Leptocaulis echinatus* Nuttall ex A.P. de Candolle

**inermis** (Nuttall ex A.P. de Candolle) Matthias & Constance [Allred 1999; Nesom 2012]

*Leptocaulis inermis* Nuttall ex A.P. de Candolle

**lateriflora** G.L. Nesom [Nesom 2012]

**organensis** G.L. Nesom [Nesom 2012]

*Thapsia glomerata* Nuttall = *Cymopterus glomeratus* (Nuttall) A.P. de Candolle

*Thaspium montanum* Gray = *Cymopterus lemmonii* (Coulter & Rose) Dorn

**Torilis** hedge-parsley

Bleakly, D. 2005. Plant distribution reports (*Torilis arvensis*). The New Mexico Botanist 33:7

**\*arvensis** (Hudson) Link [Bleakly 2005]

*Caucalis arvensis* Hudson

**Vesper** spring-parsley

**bulbosus** (A. Nelson) R.L. Hartman & G.L. Nesom [M&H; W&S]

*Phellopterus bulbosus* (A. Nelson) Coulter & Rose

*Phellopterus utahensis* (M.E. Jones) Wooton & Standley

**constancei** (R.L. Hartman) R.L. Hartman & G.L. Nesom [Hartman 2000]

**macrorhizus** (Buckley) R.L. Hartman & G.L. Nesom [M&H; W&S]

*Phellopterus macrorhizus* (Buckley) Coulter & Rose

**montanus** (Nuttall ex Torrey & Gray) R.L. Hartman & G.L. Nesom [M&H]

*Phellopterus montanus* Nuttall ex Torrey & Gray, pro syn.

**multinervatus** (Coulter & Rose) R.L. Hartman & G.L. Nesom [M&H; W&S]

*Phellopterus multinervatus* Coulter & Rose

*Washingtonia divaricata* Britton = *Osmorhiza berteroi* A.P. de Candolle

*longistylis* (Torrey) Britton in Britton & Brown [= *Osmorhiza longistylis* (Torrey) Britton] :

Reported by W&S, but not occurring in NM [Lowrey & Jones 1984].

*obtusata* Coulter & Rose = *Osmorhiza depauperata* Philippi

**Yabea** false carrot

Wagner, W.L. 1979. New records to the Animas Mountain flora, New Mexico. Southw. Naturalist 24(2):291-296. [*Yabea microcarpa*]

**microcarpa** (Hooker & Arnott) Koso-Poljansky [M&H; Wagner 1979]

*Caucalis microcarpa* Hooker & Arnott

**Family APOCYNACEAE** [11/45/46]

[Asclepiadaceae]

Liede, S. 1997. Subtribes and genera of the tribe Asclepiadeae (Apocynaceae, Asclepiadoideae) - a synopsis. Taxon 46:233-248.

McLaughlin, S.P. 1994. Apocynaceae. J. Ariz.-Nev. Acad. Sci. 27(2):164-168.

Sundell, E. 1994. Asclepiadaceae. J. Ariz.-Nev. Acad. Sci. 27(2):169-187.

*Acerates asperula* Decaisne = *Asclepias asperula* (Decaisne) Woodson

*auriculata* Engelmann = *Asclepias engelmanniana* Woodson

*ivesii* (Britton) Wooton & Standley = *Asclepias viridiflora* Rafinesque

*rusbyi* Vail = *Asclepias rusbyi* (Vail) Woodson

*viridiflora* (Rafinesque) Eaton = *Asclepias viridiflora* Rafinesque

**Amsonia** bluestar

Allred, K.W. 1999. New plant distribution records. The New Mexico Botanist 13:7. [*Amsonia tharpitii*]

- McLaughlin, S.P. 1982. A revision of the southwestern species of *Amsonia* (Apocynaceae). *Ann. Missouri Bot. Gard.* 69:336-350.
- McLaughlin, S.P. 1985. A new species of *Amsonia* (Apocynaceae) from central New Mexico. *Southw. Naturalist* 30:563-565. [*Amsonia fugatei*]
- Sivinski, R.C., T. Lowrey, & R. Peterson. 1994. Additions to the native and adventive flora of New Mexico. *Phytologia* 76(6):473-479. [*Amsonia jonesii*]
- arenaria* Standley = *Amsonia tomentosa* Torrey & Fremont var. *stenophylla* Kearney & Peebles
- brevifolia* of NM reports = *Amsonia tomentosa* Torrey & Fremont var. *stenophylla* Kearney & Peebles; the true *Amsonia brevifolia* Gray occurs in southern CA, southern NV, and northwestern AZ (McLaughlin 1982).
- +*fugatei* S.P. McLaughlin [McLaughlin 1985]
- hirtella* Standley = *Amsonia palmeri* Gray
- jonesii*** Woodson [Sivinski et al. 1994]
- longiflora*** Torrey [M&H; McLaughlin 1982; W&S]
- Amsonia longiflora* Torrey var. *salpignatha* (Woodson) McLaughlin
- longiflora* Torrey var. *salpignatha* (Woodson) McLaughlin = *Amsonia longiflora* Torrey
- palmeri*** Gray [M&H; McLaughlin 1982; W&S]
- Amsonia hirtella* Standley
- Amsonia standleyi* Woodson
- standleyi* Woodson = *Amsonia palmeri* Gray
- tharpii*** Woodson [Allred 1999]
- tomentosa*** Torrey & Fremont var. ***stenophylla*** Kearney & Peebles [M&H; McLaughlin 1982; W&S]
- Amsonia arenaria* Standley [May 1913]
- Amsonia brevifolia* of NM reports
- Amsonia eastwoodiana* Rydberg [Sept 1913]
- Apocynum** dogbane
- ambigens* Greene = *Apocynum androsaemifolium* Linnaeus
- androsaemifolium*** Linnaeus [M&H; W&S]
- Apocynum ambigens* Greene
- Apocynum androsaemifolium* Linnaeus var. *androsaemifolium*
- Apocynum androsaemifolium* Linnaeus var. *glabrum* Macoun
- Apocynum scopulorum* Greene
- angustifolium* Wooton = *Apocynum cannabinum* Linnaeus
- cannabinum*** Linnaeus [M&H; W&S]
- Indian-hemp
- Apocynum angustifolium* Wooton
- Apocynum cannabinum* Linnaeus var. *angustifolium* (Wooton) N. Holmgren
- Apocynum cannabinum* Linnaeus var. *glaberrimum* A.A.P. de Candolle
- Apocynum hypericifolium* Aiton
- Apocynum laurinum* Greene
- Apocynum sibiricum* Jacquin var. *salignum* (Greene) Fernald
- Apocynum suksdorfii* Greene var. *angustifolium* (Wooton) Woodson
- Apocynum suksdorfii* Greene var. *suksdorfii*
- Apocynum viride* Wooton & Standley
- cannabinum* Linnaeus var. *angustifolium* (Wooton) N. Holmgren *Apocynum cannabinum* Linnaeus
- cannabinum* Linnaeus var. *glaberrimum* A.A.P. de Candolle = *Apocynum cannabinum* Linnaeus
- cannabinum* Linnaeus var. *lividum* (Greene) A. Nelson = *Apocynum ×floribundum* Greene
- floribundum* Greene = *Apocynum ×floribundum* Greene
- hypericifolium* Aiton = *Apocynum cannabinum* Linnaeus
- laurinum* Greene = *Apocynum cannabinum* Linnaeus
- lividum* Greene = *Apocynum ×floribundum* Greene
- ×*floribundum*** Greene
- Apocynum floribundum* Greene
- Apocynum medium* Greene var. *floribundum* (Greene) Woodson
- Apocynum medium* Greene var. *lividum* (Greene) Woodson
- Apocynum cannabinum* Linnaeus var. *lividum* (Greene) A. Nelson

*Apocynum lividum* Greene

*scopulorum* Greene = *Apocynum androsaemifolium* Linnaeus

*sibericum* Jacquin var. *salignum* (Greene) Fernald = *Apocynum cannabinum* Linnaeus

*suksdorfii* Greene var. *angustifolium* (Wooton) Woodson = *Apocynum cannabinum* Linnaeus

*viride* Wooton & Standley = *Apocynum cannabinum* Linnaeus

**Asclepias** milkweed

- Heil, K.D., J.M. Porter, and S.L. Welsh. 1989. A new species of *Asclepias* (Asclepiadaceae) from northwestern New Mexico. *Great Basin Naturalist* 49:100-103. [*Asclepias sanjuanensis*]
- Holmgren, P.K. & N.H. Holmgren. 1984. Asclepiadaceae, pp. 31-50. IN: *Intermountain Flora*, vol. 4. New York botanical Garden. [*Asclepias hallii*, *Asclepias macrosperma*]
- Jercinovic, E. 2010. The status of the genus *Asclepias* in New Mexico. *The New Mexico Botanist* 49:1-5
- Kephart, S.R., R. Wyatt, & D. Parrella. 1988. Hybridization in North American *Asclepias*. I. Morphological evidence. *Syst. Bot.* 13(3):456-473.
- Liede, S. 1997. Subtribes and genera of the tribe Asclepiadeae (Apocynaceae, Asclepiadoideae) - a synopsis. *Taxon* 46:233-248.
- Rintz, Richard E. 2014. A closer look at *Asclepias engelmanniana* Woodson and *Asclepias rusbyi* (Vail) Woodson (Apocynaceae, Asclepiadoideae). *Phytologia* 96(4):241-246
- Sundell, E. 1990. Notes on Arizona *Asclepias* (Asclepiadaceae) with a new combination. *Phytologia* 69(4):265-270.
- Sundell, E. 1994. Asclepiadaceae. *J. Ariz.-Nev. Acad. Sci.* 27(2):169-187.
- Woodson, R.E. 1954. The North American species of *Asclepias*. *Ann. Missouri Bot. Gard.* 41:1-211.

**arenaria** Torrey [M&H; W&S]

**asperula** (Decaisne) Woodson subsp. **asperula** [M&H]

*Asclepias capricornu* Woodson subsp. *occidentalis* Woodson

*Acerates asperula* Decaisne

**brachystephana** Engelm ex Torrey [M&H; W&S]

*capricornu* of NM reports = *Asclepias asperula* (Decaisne) Woodson subsp. *asperula*

*capricornu* Woodson subsp. *occidentalis* Woodson = *Asclepias asperula* (Decaisne) Woodson subsp. *asperula*

*cutleri* of NM reports = *Asclepias sanjuanensis* Heil, Porter, & Welsh

**elata** Benth [M&H; W&S]

*Asclepias glaucesens* of NM reports

*emoryi* of NM reports = *Asclepias oenotheroides* Chamisso & Schlechtendal

**engelmanniana** Woodson [M&H; W&S]

*Acerates auriculata* Engelm

*engelmanniana* Woodson var. *rusbyi* (Vail) Kearney = *Asclepias rusbyi* (Vail) Woodson

*galioides* Kunth [= *Asclepias mexicana* Cavanilles] : Not known to occur in NM [Woodson 1954].

*galioides* of numerous American authors = *Asclepias subverticillata* (Gray) Vail

*glaucesens* of NM reports = *Asclepias elata* Benth

**hallii** Gray [Holmgren & Holmgren 1984

**hypoleuca** (Gray) Woodson [M&H; W&S]

*Gomphocarpus hypoleucus* Gray

**incarnata** Linnaeus [M&H; W&S]

**involutrata** Engelm ex Torrey [M&H; W&S]

**latifolia** (Torrey) Rafinesque [M&H; W&S]

*Asclepias obtusifolia* Michaux β *latifolia* Torrey

**linaria** Cavanilles [M&H]

**macrosperma** Eastwood [Holmgren & Holmgren 1984; M&H]

**macrotis** Torrey [M&H; W&S]

*obtusifolia* Michaux β *latifolia* Torrey = *Asclepias latifolia* (Torrey) Rafinesque

**nummularia** Torrey [M&H; W&S]

**nyctaginifolia** Gray [M&H]

*Podostemma nyctaginifolia* (Gray) Greene

**oenotheroides** Chamisso & Schlechtendal [M&H; W&S]

*Asclepias emoryi* of NM reports

*Asclepias wrightii* Greene

*Podostemma lindheimeri* (Engelm & Gray) Greene

- pumila** (Gray) Vail [M&H; W&S]  
*Asclepias verticillata* Linnaeus var. *pumila* Gray
- quinquedentata** Gray [M&H; W&S]
- rusbyi** (Vail) Woodson [M&H; W&S]  
*Acerates rusbyi* Vail  
*Asclepias engelmanniana* Woodson var. *rusbyi* (Vail) Kearney
- ruthiae* of NM reports = *Asclepias sanjuanensis* Heil, Porter, & Welsh  
+**sanjuanensis** Heil, Porter, & Welsh [Heil et al. 1989]  
*Asclepias cutleri* of NM reports  
*Asclepias ruthiae* of NM reports
- scaposa Vail : Reported for the state by various authors, based on a single Wright specimen probably from Texas; otherwise known only from Texas and Mexico; awaits verification.
- speciosa** Torrey [M&H; W&S]
- subverticillata** (Gray) Vail [M&H; W&S]  
*Asclepias galioides* of numerous American authors  
*Asclepias verticillata* Linnaeus var. *subverticillata* Gray
- tuberosa** Linnaeus subsp. **interior** Woodson [Sundell 1994; W&S]  
*Asclepias tuberosa* Linnaeus subsp. *terminalis* Woodson
- tuberosa* Linnaeus subsp. *terminalis* Woodson = *Asclepias tuberosa* Linnaeus subsp. interior Woodson
- uncialis** Greene [M&H; W&S]  
*verticillata* Linnaeus var. *pumila* Gray = *Asclepias pumila* (Gray) Vail  
*verticillata* Linnaeus var. *subverticillata* Gray = *Asclepias subverticillata* (Gray) Vail
- viridiflora** Rafinesque [M&H; W&S]  
green comet  
*Acerates ivesii* (Britton) Wooton & Standley  
*Acerates viridiflora* (Rafinesque) Eaton  
*Asclepias viridiflora* Rafinesque var. *lanceolata* (Ives) Torrey  
*viridiflora* Rafinesque var. *lanceolata* (Ives) Torrey = *Asclepias viridiflora* Rafinesque  
*wrightii* Greene = *Asclepias oenotheroides* Chamisso & Schlechtendal  
*Asclepiodora decumbens* (Nuttall) Gray = *Asclepias asperula* (Decaisne) Woodson subsp. *capricornu* Woodson
- Cynanchum*  
*arizonicum* (Gray) Shinnars = *Metastelma arizonicum* Gray  
*wigginsii* Shinnars = *Metastelma mexicanum* (Brandege) Fishbein & R.A. Levin
- Funastrum** milkvine  
Holm, R.W. 1950. The American species of *Sarcostemma* R. Brown (Asclepiadaceae). Ann. Missouri Bot. Gard. 37:477-560.  
Liede, S. 1996. *Sarcostemma* (Asclepiadaceae) – a controversial generic circumscription reconsidered: Morphological evidence. Syst. Bot. 21(1):31-44.  
Turner, B.L. 2008. Biological status of *Funastrum cynanchoides* and *F. hartwegii* (Asclepiadaceae). Phytologia 90(1):36-40.
- crispum** (Benthams) Schlechter [M&H; W&S]  
*Philibertella crispa* (Benthams) Vail  
*Sarcostemma crispum* Benthams
- cynanchoides** (Decaisne) Schlechter [M&H; W&S]  
*Funastrum cynanchoides* (Decaisne) Schlechtendal  
*Philibertella cynanchoides* (Decaisne) Vail  
*Sarcostemma cynanchoides* Decaisne subsp. *cynanchoides*
- heterophyllum** (Engelmann ex Torrey) Standley [M&H; W&S]  
*Funastrum hartwegii* (Vail) Schlechter, nom. illeg.  
*Philibertella hartwegii* Vail  
*Philibertella heterophylla* (Engelmann ex Torrey) Cockerell  
*Sarcostemma cynanchoides* Decaisne subsp. *hartwegii* (Vail) R. Holm  
*Sarcostemma heterophyllum* Engelmann ex Torrey  
*hartwegii* (Vail) Schlechter = *Funastrum heterophyllum* (Engelmann ex Torrey) Standley
- Gomphocarpus hypoleucus* Gray = *Asclepias hypoleuca* (Gray) Woodson  
*Gonolobus*

Krings, A. 2008. Synopsis of *Gonolobus* s.l. (Apocynaceae, Asclepiadoideae) in the United States and its territories, including lectotypification of *Lachnostoma arizonicum*. Harvard Papers in Botany 13(2):209-218.

*biflorus* Rafinesque = *Matelea biflora* (Rafinesque) Woodson

*parvifolius* Torrey = *Matelea parvifolia* (Torrey) Woodson

*productus* Torrey = *Matelea producta* (Torrey) Woodson

*reticulatus* Engelm. = *Matelea reticulata* (Engelmann ex A. Gray) Woodson

**Haplophyton** cockroach plant

Benson, L. 1942. Notes on the flora of Arizona. *Torreyana* 42:9-11.

Williams, J.K. 1995. Miscellaneous notes on *Haplophyton* (Apocynaceae: Plumeriaceae: Haplophytinae). *Sida* 16(3): 469-475.

*cimicidum* A.P. de Candolle var. *crooksii* L. Benson = *Haplophyton crooksii* (L. Benson) L. Benson

***crooksii*** (L. Benson) L. Benson [M&H]

*Haplophyton cimicidum* A.P. de Candolle var. *crooksii* L. Benson

*Echites brachysiphon* Torrey = *Telosiphonia brachysiphon* (Torrey) Henrickson

*Macrosiphonia brachysiphon* (Torrey) Gray = *Telosiphonia brachysiphon* (Torrey) Henrickson

**Mandevilla**

Alvarado-Cárdenas, L.O. & F. Morales. 2014. El género *Mandevilla* (Apocynaceae: Apocynoideae, Mesichiteae) en México. *Botanical Sciences* 92(1): 59-79.

Henrickson, J. 1996. Studies in *Macrosiphonia* (Apocynaceae): Generic recognition of *Telosiphonia*. *Aliso* 14(3):179-195.

Simões, A.O., M.E. Endress, T. van der Niet, L.S. Kinoshita, & E. Conti. 2006. Is *Mandevilla* (Apocynaceae, Mesichiteae) monophyletic? Evidence from five plastid DNA loci and morphology. *Ann. Missouri Bot. Gard.* 93: 565-591.

***brachysiphon*** (Torrey) Pichon [Henrickson 1996; M&H]

*Echites brachysiphon* Torrey

*Macrosiphonia brachysiphon* (Torrey) Gray

*Telosiphonia brachysiphon* (Torrey) Henrickson

**Matelea** milkvine

Krings, A. 2008. Synopsis of *Gonolobus* s.l. (Apocynaceae, Asclepiadoideae) in the United States and its territories, including lectotypification of *Lachnostoma arizonicum*. Harvard Papers in Botany 13(2):209-218.

Krings, A., D.T. Thomas, & Q. Xiang. 2008. On the generic circumscription of *Gonolobus* (Apocynaceae, Asclepiadoideae): Evidence from molecules and morphology. *Syst. Bot.* 33(2):403-415.

McDonnell, A., M. Fishbein, M. Quinn, T. Hare, & K. Keith. 2015. *Matelea chihuahuensis* (Apocynaceae): An addition to the flora of the United States and a synopsis of the species. *J. Bot. Res. Inst. Texas* 9(1): 187-194.

*biflora* (Rafinesque) Woodson : Reported without documentation by Kartesz (1999); awaits verification.

*Gonolobus biflorus* Rafinesque

***chihuahuensis*** (Gray) Woodson

*parvifolia* (Torrey) Woodson : Reported as expected by M&H; awaits verification.

*Gonolobus parvifolius* Torrey

*Vincetoxicum parvifolium* (Torrey) Heller

***producta*** (Torrey) Woodson [M&H; W&S]

*Gonolobus productus* Torrey

*Vincetoxicum productum* (Torrey) Vail

*reticulata* (Engelmann ex A. Gray) Woodson : Reported as expected by M&H map; awaits verification.

*Vincetoxicum reticulatum* (Engelmann) Heller

**Metastelma** milkvine

Liede, Sigrid & Ulrich Meve. 2004. Revision of *Metastelma* (Apocynaceae-Asclepiadoideae) in southwestern North America and Central America. *Ann. Missouri Bot. Gard.* 91(1):31-86.

Todsen, T.K. 1984. Noteworthy collections (New Mexico). *Madroño* 31:125. [*Metastelma mexicanum*, as *Cynanchum arizonicum*]

*arizonicum* Gray : Reported by Todsen (1984, as *Cynanchum arizonicum*), but the identification was corrected to *Cynanchum wigginsii* Shinnery [Robert Sivinski, pers. comm. 1996], which is now referred to *Metastelma mexicanum* (Brandege) Fishbein & R.A. Levin. Though occurring just over the border in Arizona, this species has yet to be found in NM.

*Cynanchum arizonicum* (Gray) Shinnery

**mexicanum** (Brandegee) Fishbein & R.A. Levin [Todsén 1984]

*Basistelmia mexicanum* (Brandegee) Bartlett

*Cynanchum wigginsii* Shinnars

*Melinia mexicana* Brandegee

**Nerium** oleander

**oleander** Linnaeus [FNM I]

**Periploca** silk vine

Venter, H.J. 1997. A revision of *Periploca*. S. Afr. Journal of Botany. 63(3): 123-128.

**graeca** Linnaeus [FNM I]

*Philibertia crispa* (Benth) Vail = *Funastrum crispum* (Benth) Schlechtendal

*cynanchoides* (Decaisne) Vail = *Funastrum cynanchoides* (Decaisne) Schlechtendal

*hartwegii* Vail = *Funastrum heterophyllum* (Engelmann ex Torrey) Standley

*heterophylla* (Engelmann) Cockerell = *Funastrum heterophyllum* (Engelmann ex Torrey) Standley

*Podostemma emoryi* Greene = *Asclepias emoryi* (Greene) Vail

*lindheimeri* (Engelmann & Gray) Greene = *Asclepias oenotheroides* Chamisso & Schlechtendal

*nyctaginifolia* (Gray) Greene = *Asclepias nyctaginifolia* Gray

*Sarcostemma crispa* Benth = *Funastrum crispum* (Benth) Schlechtendal

*cynanchoides* Decaisne subsp. *cynanchoides* = *Funastrum cynanchoides* (Decaisne) Schlechtendal

*cynanchoides* Decaisne subsp. *hartwegii* (Vail) R. Holm = *Funastrum heterophyllum* (Engelmann ex Torrey) Standley

*heterophyllum* Englemann = *Funastrum heterophyllum* (Engelmann ex Torrey) Standley

*Telosiphonia brachysiphon* (Torrey) Henrickson = *Mandevilla brachysiphon* (Torrey) Pichon

**Vinca** periwinkle

Johnson, S. 2001. New plant distribution records. The New Mexico Botanist 19:3. [*Vinca major*]

**\*major** Linnaeus [Johnson 2001]

**\*minor** Linnaeus

*Vincetoxicum parvifolium* (Torrey) Heller = *Matelea parvifolia* (Torrey) Woodson

*productum* (Torrey) Vail = *Matelea producta* (Torrey) Woodson

*reticulatum* (Engelmann) Heller = *Matelea reticulata* (Engelmann ex A. Gray) Woodson

### Family APODANTHACEAE [1/1/1]

**Pilosyles** stemsucker

Bellot, S. & S.S. Renner. 2014. The systematics of the worldwide endoparasite family Apodanthaceae (Cucurbitales), with a key, a map, and color photos of most species. *PhytoKeys* 36:41-57. (doi: 10.3897/phytokeys.36.7385; www.phytokeys.com)

Rose, J.N. 1909. *Rafflesiaceae*. The North American species of *Pilosyles*, pp. 262-265. IN: *Studies of Mexican and Central American Plants*, No. 6. *Contr. U.S. Natl. Herb.* 12:259-302.

Yatskievych, G. 1994. *Rafflesiaceae*. *J. Ariz.-Nev. Acad. Sci.* 27(2):239.

Yatskievych, G. 2015. *Apodanthaceae*, pp. 183-184. IN: *Flora of North America*, vol. 6. Oxford University Press.

**thurberi** Gray [M&H]

### Family AQUIFOLIACEAE

*Ilex myrsinites* Pursh = *Paxistima myrsinites* (Pursh) Rafinesque [Celastraceae]

### Family ARALIACEAE [3/3/3]

[Hederaceae]

**Aralia** spikenard

Wen, J., S. Shi, R.K. Jansen, & E.A. Zimmer. 1998. Phylogeny and biogeography of *Aralia* sect. *Aralia* (Araliaceae). *Amer. J. Bot.* 85(6): 866-875.

**bicrenata** Wootton & Standley [M&H; W&S]

*Aralia racemosa* Linnaeus subsp. *bicrenata* (Wootton & Standley) Welsh & Atwood

*humilis* Cavanilles : Reported questionably by Kartesz (1999); awaits verification.

*racemosa* Linnaeus subsp. *bicrenata* (Wootton & Standley) Welsh & Atwood = *Aralia bicrenata* Wootton & Standley

**Hedera** ivy

Allred, K.W. 2010. Plant distribution reports (*Hedera helix*). The New Mexico Botanist 49:8.

\**helix* Linnaeus [Allred 2010]

English ivy

**Hydrocotyle** pennywort

Nicolas, A.N. & G.M. Plunkett. 2009. The demise of subfamily Hydrocotyloideae (Apiaceae) and the realignment of its genera across the entire order Apiales. Mol. Phylogenet. Evol. 53:134-151.

Plunkett, G.M., G.T. Chandler, P.P. Lowry, S.M. Pinney, T.S. Sprenkle, & B.-E. van Wyk, P. Tilney. 2004. Recent advances in understanding Apiales and a revised classification. South Afr. J. Bot. 70: 371-381.

ranunculoides Linnaeus f. : Reported as expected by M&H map; awaits verification.

umbellata Linnaeus : Reported as expected by M&H map; awaits verification.

**verticillata** Thunberg var. **verticillata** [M&H]

**Family ARISTOLOCHIACEAE** [1/2/2]

**Aristolochia** Dutchman's-pipe

Barringer, K. 1997. *Aristolochia*, pp. 45-50. IN: Flora of North America, vol. 3. Oxford University Press.  
Pfeifer, H.Wm. 1976. An error in the typification of *Aristolochia watsonii* Wooton and Standley. Brittonia 28:352.

Spellenberg, R., R. Worthington, P. Knight, & R. Fletcher. 1986. Additions to the flora of New Mexico. Sida 11(4):455-470.

*brevipes* Benth var. *acuminata* Watson (non *Aristolochia acuminata* Lamarck) =  
*Aristolochia watsonii* Wooton & Standley

*brevipes* Benth var. *wrightii* (Seemann) Duchartre = *Aristolochia wrightii* Seemann

*porphyrophylla* Pfeifer = *Aristolochia watsonii* Wooton & Standley

**watsonii** Wooton & Standley [Barringer 1997; M&H; W&S]

*Aristolochia brevipes* Benth var. *acuminata* Watson (non *Aristolochia acuminata* Lamarck)

*Aristolochia porphyrophylla* Pfeifer

**wrightii** Seemann [Barringer 1997; Spellenberg et al. 1986]

*Aristolochia brevipes* Benth var. *wrightii* (Seemann) Duchartre

Family ASCLEPIADACEAE = APOCYNACEAE

**Family ASTERACEAE (COMPOSITAE)** [187/617/717]

[Ambrosiaceae, Cichoriaceae, Mutisiaceae]

Barkley, T.M., L. Brouillet, & J.L. Strother. 2006. Asteraceae. IN: Flora of North America, vols. 19, 20, & 21. Oxford University Press.

Kittell, M.T. 1941. A Critical Revision of the Compositae of Arizona and New Mexico. The Catholic University of America, Biological Series No. 34.

Nesom, G.L. 2000. Generic conspectus of the tribe Astereae (Asteraceae) in North America and Central America, the Antilles, and Hawaii. Sida, Botanical Miscellany No. 20.

*Acanthoxanthium spinosum* (Linnaeus) Fourreau = *Xanthium spinosum* Linnaeus

*Achaetogeron chihuahuensis* Larsen = *Erigeron versicolor* (Greenman) Nesom

*versicolor* Greenman = *Erigeron versicolor* (Greenman) Nesom

**Achillea** yarrow

Cronquist, A. 1994. *Achillea*, pp. 134-136. IN: Intermountain Flora, vol. 5. New York Botanical Garden.

Trock, D. 2006. *Achillea*, pp. 492-494. IN: Flora of North America, vol. 19. Oxford University Press.

Tyrl, R.J. 1975. Origin and distribution of polyploid *Achillea* (Compositae) in western North America. Brittonia 27:187-196.

*alpicola* Rydberg = *Achillea millefolium* Linnaeus

*lanulosa* Nuttall subsp. *alpicola* (Rydberg) Keck = *Achillea millefolium* Linnaeus

*lanulosa* Nuttall subsp. *lanulosa* = *Achillea millefolium* Linnaeus

*lanulosa* Nuttall subsp. *typica* Keck = *Achillea millefolium* Linnaeus

*laxiflora* Pollard & Cockerell = *Achillea millefolium* Linnaeus

*millefolium* Linnaeus var. *alpicola* (Rydberg) Garrett = *Achillea millefolium* Linnaeus

*millefolium* Linnaeus var. *lanulosa* (Nuttall) Piper = *Achillea millefolium* Linnaeus

**millefolium** Linnaeus [M&H; W&S]

*Achillea alpicola* Rydberg

*Achillea lanulosa* Nuttall subsp. *alpicola* (Rydberg) Keck

*Achillea lanulosa* Nuttall subsp. *lanulosa*



*Achillea lanulosa* Nuttall subsp. *typica* Keck  
*Achillea laxiflora* Pollard & Cockerell  
*Achillea millefolium* Linnaeus var. *alpicola* (Rydberg) Garrett  
*Achillea millefolium* Linnaeus var. *lanulosa* (Nuttall) Piper  
*Achillea millefolium* Linnaeus var. *occidentalis* A.P. de Candolle  
*Achillea subalpina* Greene

*millefolium* Linnaeus var. *occidentalis* A.P. de Candolle = *Achillea millefolium* Linnaeus  
*subalpina* Greene = *Achillea millefolium* Linnaeus

*Achyropappus neomexicanus* Gray = *Picradeniopsis multiflora* (Hooker & Arnott) B.G. Baldwin  
*woodhousei* Gray = *Picradeniopsis woodhousei* (Gray) Rydberg  
*Achyrophorus roseus* Lessing = *Pinaropappus roseus* (Lessing) Lessing  
*Aciphyllaea acerosa* (A.P. de Candolle) Gray = *Thymophylla acerosa* (A.P. de Candolle) Strother  
*Acosta maculosa* of American authors = *Centaurea stoebe* Linnaeus subsp. *micranthos* (S.G. Gmelin ex Gugler) Hayek

***Acourtia*** desert-holly

Simpson, B.B. 2006. *Acourtia*, pp. 72-74. IN: Flora of North America, vol. 19. Oxford University Press.  
 Reveal, J.L. and R.M. King. 1973. Re-establishment of *Acourtia* D. Don (Asteraceae). *Phytologia* 15:228-232.

***nana*** (Gray) Reveal & King [M&H; W&S]

*Perezia nana* Gray

***thurberi*** (Gray) Reveal & King [M&H; W&S]

*Perezia thurberi* Gray

***wrightii*** (Gray) Reveal & King [M&H; W&S]

*Perezia wrightii* Gray

*Acroptilon repens* (Linnaeus) A.P. de Candolle = *Rhaponticum repens* (Linnaeus) Hidalgo

*Actinea acaulis* (Pursh) Sprengel = *Tetranneuris acaulis* (Pursh) Greene var. *acaulis*

*depressa* Torrey & Gray var. *pygmaea* Gray = *Tetranneuris acaulis* (Pursh) Greene var. *acaulis*

*acaulis* (Pursh) Sprengel subsp. *arizonica* (Greene) Blake = *Tetranneuris acaulis* (Pursh) Greene var. *arizonica* (Greene) Parker

*arizonica* (Greene) A. Nelson = *Tetranneuris acaulis* (Pursh) Greene var. *arizonica* (Greene) Parker

*brandegeei* (Porter ex Gray) Rydberg = *Hymenoxys brandegeei* (Porter ex Gray) Parker

*formosa* (Greene ex Wootton & Standley) Nelson = *Tetranneuris formosa* Greene ex Wootton & Standley

*linearifolia* (Hooker) Torrey & Gray = *Tetranneuris linearifolia* (Hooker) Greene

*linearifolia* (Hooker) Torrey & Gray var. *oblongifolia* (Greene) Kittell = *Tetranneuris linearifolia* (Hooker) Greene

*scaposa* (A.P. de Candolle) Kuntze = *Tetranneuris scaposa* (A.P. de Candolle) var. *scaposa*

*Actinella acaulis* Pursh = *Tetranneuris acaulis* (Pursh) Greene

*argentea* Gray = *Tetranneuris argentea* (Gray) Greene

*bigelovii* Gray = *Hymenoxys bigelovii* (Gray) Parker

*brandegeei* Porter ex Gray = *Hymenoxys brandegeei* (Porter ex Gray) K.F. Parker

*carnosa* A. Nelson = *Chamaechaenactis scaposa* (Eastwood) Rydberg var. *scaposa*

*glabra* Nuttall = *Tetranneuris scaposa* (A.P. de Candolle) Greene var. *scaposa*

*leptoclada* Torrey = *Tetranneuris argentea* (Gray) Greene

*odorata* (A.P. de Candolle) Gray = *Hymenoxys odorata* A.P. de Candolle

*richardsonii* (Hooker) Nuttall = *Hymenoxys richardsonii* (Hooker) Cockerell var. *richardsonii*

*richardsonii* (Hooker) Nuttall var. *floribunda* Gray = *Hymenoxys richardsonii* (Hooker) Cockerell var. *floribunda* (Gray) Parker

*rusbyi* Gray = *Hymenoxys rusbyi* (Gray) Cockerell

*scaposa* (A.P. de Candolle) Nuttall = *Tetranneuris scaposa* (A.P. de Candolle) Greene var. *scaposa*

*scaposa* (A.P. de Candolle) Nuttall var. *angustifolia* (Greene) Kittell = *Tetranneuris scaposa* (A.P. de Candolle) Greene var. *scaposa*

*scaposa* (A.P. de Candolle) Nuttall var. *linearis* Nuttall = *Tetranneuris scaposa* (A.P. de Candolle) Greene var. *scaposa*

*torreyana* Nuttall = *Tetranneuris torreyana* (Nuttall) Greene

*vaseyi* Gray = *Hymenoxys vaseyi* (Gray) Cockerell

*Actinomeris longifolia* Gray = *Verbesina longifolia* Gray

**Adenophyllum** dogweed

Sivinski, R.C. 2000. Flora Neomexicana: something old and something new. Native Plant Society of New Mexico Newsletter 25(1):10-11.

Strother, J.L. 1986. Renovation of *Dyssodia* (Compositae: Tageteae). Sida 11:371-378.

**wrightii** Gray [M&H; Sivinski 2000; W&S]

*Dyssodia neomexicana* (Gray) Robinson

*Hymenatherum neomexicanum* Gray

*Thymophylla neomexicana* (Gray) Wootton & Standley

**Ageratina** snakeroot

Carter, J. 2009. New plant distribution reports [*Ageratina lemmonii*]. The New Mexico Botanist 46:7.

Nesom, G. 2006. *Ageratina*, pp. 547-553. IN: Flora of North America, vol. 21. Oxford University Press.

Schilling, E.E., J.L. Panero, & P.B. Cox. 1999. Chloroplast DNA restriction site data support a narrowed interpretation of *Eupatorium* (Asteraceae). Plant Syst. Evol. 219:209-223.

**herbacea** (Gray) R.M. King & H.E. Robinson [M&H; W&S]

*Eupatorium ageratifolium* A.P. de Candolle var. *herbaceum* Gray

*Eupatorium arizonicum* Greene

*Eupatorium herbaceum* (Gray) Greene

**lemmonii** (B.L. Robinson) R.M. King & H.E. Robinson [Carter 2009]

*Eupatorium lemmonii* B.L. Robinson

**rothrockii** (Gray) R.M. King & H.E. Robinson [M&H; W&S]

*Eupatorium rothrockii* Gray

**wrightii** (Gray) R.M. King & H.E. Robinson [M&H; W&S]

*Eupatorium wrightii* Gray

**Ageratum** whiteweed

**corymbosum** Zuccarini [M&H; W&S]

*Coelestina corymbosa* A.P. de Candolle

*Coelestina sclerophylla* Wootton & Standley

**Agoseris** agoseris

Baird, G.I. 2004. Two new varieties of *Agoseris* (Asteraceae: Lactuceae). Sida 29(1):267-274.

Baird, G.I. 2006. *Agoseris*, p. 323-335. IN: Flora of North America, vol. 19. Oxford University Press, New York.

Cronquist, A. 1994. *Agoseris*, pp. 428-433. IN: Intermountain Flora, vol. 5. New York Botanical Garden.

Hershey, A.L. & P.J. Leyendecker, Jr. 1944. Notes on plants of New Mexico—III. Leaflets of Western Botany 4(2):21-25. [*Agoseris heterophylla*]

Lowrey, T. 2012. Plant distribution reports. The New Mexico Botanist 57:4. [*Agoseris glauca dasycephala*]

**arizonica** (Greene) Greene = *Agoseris aurantiaca* (Hooker) Greene var. *purpurea* (Gray) Cronquist

**aurantiaca** (Hooker) Greene var. **aurantiaca** [M&H; W&S]

*Agoseris gracilens* Greene var. *greenei* (Gray) Greene

*Agoseris greenei* (Gray) Rydberg

*Troximon aurantiacum* Hooker

**aurantiaca** (Hooker) Greene var. **purpurea** (Gray) Cronquist [M&H; W&S]

*Agoseris arizonica* (Greene) Greene

*Agoseris graminifolia* Greene

*Agoseris leptocarpa* Osterhout

*Agoseris purpurea* (Gray) Greene

*Macrorhynchus purpureus* Gray

*Troximon arizonicum* Greene

**cuspidata** (Pursh) Steudel = *Nothocalais cuspidata* (Pursh) Greene

**glauca** (Pursh) Rafinesque var. **glauca** [M&H; W&S]

*Agoseris pumila* (Nuttall) Rydberg

*Troximon glaucum* Pursh

**glauca** (Pursh) Rafinesque var. **dasycephala** (Torrey & Gray) Jepson [Lowrey 2012]

*Troximon glaucum* Pursh var. *dasycephala* Torrey & Gray

**glauca** (Pursh) Rafinesque var. **laciniata** (D.C. Eaton) Kuntze = *Agoseris parviflora* (Nuttall) D. Dietrich

**glauca** (Pursh) Rafinesque var. **laciniata** (D.C. Eaton) Smiley = *Agoseris parviflora* (Nuttall) D. Dietrich

- glauca* (Pursh) Rafinesque var. *parviflora* (Nuttall) Rydberg = *Agoseris parviflora* (Nuttall) D. Dietrich
- gracilens* Greene var. *greenii* (Gray) Greene = *Agoseris aurantiaca* (Hooker) Greene var. *aurantiaca*
- graminifolia* Greene = *Agoseris aurantiaca* (Hooker) Greene var. *purpurea* (Gray) Cronquist
- greenii* (Gray) Rydberg = *Agoseris aurantiaca* (Hooker) Greene var. *aurantiaca*
- heterophylla*** (Nuttall) Greene var. ***heterophylla*** [Hershey & Leyendecker 1944; M&H]  
*Macrorhynchus heterophyllus* Nuttall
- heterophylla*** (Nuttall) Greene var. ***quentinii*** G.I. Baird [Baird 2004]
- laciniata* (D.C. Eaton) Greene = *Agoseris parviflora* (Nuttall) D. Dietrich
- leptocarpa* Osterhout = *Agoseris aurantiaca* (Hooker) Greene var. *purpurea* (Gray) Cronquist
- parviflora*** (Nuttall) Dietrich [M&H; W&S]  
*Agoseris glauca* (Pursh) Rafinesque var. *laciniata* (D.C. Eaton) Kuntze  
*Agoseris glauca* (Pursh) Rafinesque var. *laciniata* (D.C. Eaton) Smiley  
*Agoseris glauca* (Pursh) Rafinesque var. *parviflora* (Nuttall) Rydberg  
*Agoseris laciniata* (D.C. Eaton) Greene  
*Agoseris taraxacifolia* (Nuttall) D. Dietrich  
*Troximon parviflorum* Nuttall
- pumila* (Nuttall) Rydberg = *Agoseris glauca* (Pursh) Rafinesque var. *glauca*
- purpurea* (Gray) Greene = *Agoseris aurantiaca* (Hooker) Greene var. *purpurea* (Gray) Cronquist
- taraxacifolia* (Nuttall) D. Dietrich = *Agoseris parviflora* (Nuttall) D. Dietrich
- Aldama*** **goldeneye**  
Schilling, E. E. and J. L. Panero. 2011. A revised classification of subtribe Helianthinae (Asteraceae: Heliantheae); II. Derived lineages. Bot. J. Linnean Society 167: 311-331.
- cordifolia*** (A. Gray) E.E. Schilling & Panero [M&H; W&S]  
*Viguiera cordifolia* A. Gray
- Almutaster*** **marsh-aster**  
Nesom, G.L. 1994 [1995]. Review of the taxonomy of *Aster* sensu lato (Asteraceae: Astereae), emphasizing the New World species. Phytologia 77(3):141-297.
- pauciflorus*** (Nuttall) A. & D. Löve [M&H; W&S]  
*Aster hydrophilus* Greene  
*Aster pauciflorus* Nuttall  
*Aster pauciflorus* Nuttall var. *gracillimus* Gray
- Amauria dissecta* Gray = *Hymenothrix dissecta* (A. Gray) B.G. Baldwin
- Amauriopsis biternata* (A. Gray) B.L. Turner = *Hymenothrix biternata* (A. Gray) B.G. Baldwin
- dissecta* (A. Gray) Rydberg = *Hymenothrix dissecta* (A. Gray) B.G. Baldwin
- pedata* (A. Gray) B.L. Turner = *Hymenothrix pedata* (A. Gray) B.G. Baldwin
- Ambrosia*** **ragweed**  
Lee, R. 1999. New Mexico's Invasive Weeds. New Mexico State Univ. Coop. Ext. Serv. [*Ambrosia grayi*]  
Payne, W.W. 1964. A re-evaluation of the genus *Ambrosia* (Compositae). J. Arnold Arbor. 45:401-430.  
Peterson, K.M. & W.W. Payne. 1973. The genus *Hymenoclea* (Compositae: Ambrosieae). Brittonia 25:243-256.  
Strother, J.L. 2006. *Ambrosia*. Pp. 10-18. IN: Flora of North America, vol. 21. Oxford University Press.  
Strother, J.L. & B.G. Baldwin. 2002. Hymenocleas are Ambrosias (Compositae). Madroño 49(3):143-144.
- aptera* A.P. de Candolle = *Ambrosia trifida* Linnaeus var. *texana* Scheele
- acanthicarpa*** Hooker [M&H; W&S]  
*Franseria acanthicarpa* (Hooker) Coville  
*Gaertneria acanthicarpa* (Hooker) Britton
- artemisiifolia*** Linnaeus var. ***elatior*** (Linnaeus) Descourtils [M&H; W&S]  
*Ambrosia diversifolia* (Piper) Rydberg  
*Ambrosia elatior* Linnaeus  
*Ambrosia monophylla* (Walter) Rydberg
- confertiflora*** A.P. de Candolle [M&H; W&S]  
*Franseria confertiflora* (A.P. de Candolle) Rydberg  
*Franseria tenuifolia* Gray  
*Gaertneria tenuifolia* (Gray) Kuntze
- diversifolia* (Piper) Rydberg = *Ambrosia artemisiifolia* Linnaeus var. *elatior* (Linnaeus) Descourtils

- elator* Linnaeus *Ambrosia artemisiifolia* Linnaeus var. *elator* (Linnaeus) Descourtils  
**grayi** (A. Nelson) Shinnery [Lee 1999]  
*Gaertneria grayi* A. Nelson  
*Franseria tomentosa* Gray [not *Franseria tomentosa* (Nuttall) Heller]
- monogyra** (Torrey & Gray ex Gray) Strother & Baldwin [M&H; W&S]  
 cheesebush  
*Hymenoclea monogyra* Torrey & Gray ex Gray  
*monophylla* (Walter) Rydberg = *Ambrosia artemisiifolia* Linnaeus
- psilostachya** A.P. de Candolle [M&H; W&S]  
*Ambrosia psilostachya* A.P. de Candolle var. *lindheimeriana* (Scheele)  
 Blankinship  
*psilostachya* A.P. de Candolle var. *lindheimeriana* (Scheele) Blankinship = *Ambrosia psilostachya* A.P. de Candolle
- tomentosa** Nuttall [M&H; W&S]  
*Franseria discolor* Nuttall  
*Franseria tomentosa* (Nuttall) A. Nelson [not *Franseria tomentosa* Gray]  
*Gaertneria tomentosa* (Nuttall) Heller
- trifida* Linnaeus var. *integrifolia* (Muhlenberg) Torrey & Gray = *Ambrosia trifida* Linnaeus var. *trifida*
- trifida** Linnaeus var. **texana** Scheele [M&H; W&S]  
*Ambrosia aptera* A.P. de Candolle
- trifida** Linnaeus var. **trifida** [M&H]  
*Ambrosia trifida* Linnaeus var. *integrifolia* (Muhlenberg) Torrey & Gray
- Amellus spinulosus* Pursh = *Xanthisma spinulosum* (Pursh) Morgan & Hartman var. *spinulosum villosus* Pursh = *Heterotheca villosa* (Pursh) Shinnery
- Amphiachyris** broomweed  
 Lane, M. 1979. Taxonomy of the genus *Amphiachyris* (Asteraceae: Astereae). Syst. Bot. 4(2):178-189.  
 Lane, M. 1982. Generic limits of *Xanthocephalum*, *Gutierrezia*, *Amphiachyris*, *Gymnosperma*, *Greenella*, and *Thurovia* (Compositae: Astereae). Syst. Bot. 7:405-416.  
 Suh, Y. and B.B. Simpson. 1990. Phylogenetic analysis of chloroplast DNA in North American *Gutierrezia* and related genera (Asteraceae: Astereae). Systematic Botany 15: 660-670.
- dracunculoides** (A.P. de Candolle) Nuttall [M&H; W&S]  
*Brachyris dracunculoides* A.P. de Candolle  
*Gutierrezia dracunculoides* (A.P. de Candolle) Blake  
*Xanthocephalum dracunculoides* (A.P. de Candolle) Shinnery
- Anacyclus australis* Siebold ex Sprengel = *Cotula australis* (Siebold ex Sprengel) Hooker f.
- Anaphalis** everlasting  
 Nesom, G.L. 2006. *Anaphalis*, pp. 426-427. IN: Flora of North America, vol. 19. Oxford University Press.
- margaritacea** (Linnaeus) Benth & Hooker [M&H; W&S]  
*Anaphalis margaritacea* (Linnaeus) Gray var. *angustior* (Miquel) Nakai  
*Anaphalis margaritacea* (Linnaeus) Gray var. *intercedens* Hara  
*Anaphalis margaritacea* (Linnaeus) Gray var. *occidentalis* Greene  
*Anaphalis margaritacea* (Linnaeus) Gray var. *revoluta* Suksdorf  
*Anaphalis margaritacea* (Linnaeus) Gray var. *subalpina* Gray  
*Gnaphalium margaritaceum* Linnaeus  
*margaritacea* (Linnaeus) Gray var. *angustior* (Miquel) Nakai = *Anaphalis margaritacea* (Linnaeus) Benth & Hooker  
*margaritacea* (Linnaeus) Gray var. *intercedens* Hara = *Anaphalis margaritacea* (Linnaeus) Benth & Hooker  
*margaritacea* (Linnaeus) Gray var. *occidentalis* Greene = *Anaphalis margaritacea* (Linnaeus) Benth & Hooker  
*margaritacea* (Linnaeus) Gray var. *revoluta* Suksdorf = *Anaphalis margaritacea* (Linnaeus) Benth & Hooker  
*margaritacea* (Linnaeus) Gray var. *subalpina* Gray = *Anaphalis margaritacea* (Linnaeus) Benth & Hooker
- Antennaria** pussytoes  
 Cronquist, A. 1994. *Antennaria*, pp. 368-376. IN: Intermountain Flora, vol. 5. New York Botanical Garden.  
 Bayer, R.J. 1990. A systematic study of *Antennaria media*, *A. pulchella*, and *A. scabra* (Asteraceae: Inuleae) of the Sierra Nevada and White Mountains. Madroño 37(3):171-183.

- Bayer, R.J. 2006. *Antennaria*, p. 388-415. IN: Flora of North America, vol. 19. Oxford University Press, New York.
- Bayer, R.J. & G.L. Stebbins. 1987. Chromosome numbers, patterns of distribution, and apomixis in *Antennaria* (Asteraceae: Inuleae). Syst. Bot. 12:305-319.
- Heil, K. 2007. Plant distribution reports. The New Mexico Botanist 37:7. [*Antennaria dimorpha*]
- McGrath, J. 2000. New plant distribution records. The New Mexico Botanist 15:7. [*Antennaria corymbosa*]
- aprica* Greene = *Antennaria parvifolia* Nuttall
- arida* E. Nelson = *Antennaria rosea* Greene subsp. *arida* (E.E. Nelson) R.J. Bayer
- arida* E. Nelson var. *viscidula* E. Nelson = *Antennaria rosea* Greene subsp. *arida* (E.E. Nelson) R.J. Bayer
- concinna* E. Nelson = *Antennaria rosea* (D.C. Eaton) Greene subsp. *confinis* (Greene) R.J. Bayer
- confinis* Greene = *Antennaria rosea* (D.C. Eaton) Greene subsp. *confinis* (Greene) R.J. Bayer
- corymbosa*** E. Nelson [McGrath 2000]
- dimorpha*** (Nuttall) Torrey & Gray [Bayer 2006; Heil 2007]
- fendleri* Greene = *Antennaria marginata* Greene
- formosa* Greene = *Antennaria rosea* (D.C. Eaton) Greene subsp. *rosea*
- imbricata* E. Nelson = *Antennaria rosea* (D.C. Eaton) Greene subsp. *rosea*
- latisquamea* Greene [not Piper] = *Antennaria parvifolia* Nuttall
- marginata*** Greene [M&H; W&S]
- Antennaria fendleri* Greene
- Antennaria peramoena* Greene
- media*** Greene [Bayer 1990; M&H; W&S]
- Antennaria mucronata* E.E. Nelson
- Antennaria umbrinella* of NM reports
- microphylla*** Rydberg [M&H; W&S]
- Antennaria obovata* of NM reports
- mucronata* E.E. Nelson = *Antennaria media* Greene
- obovata* sensu W&S and M&H = *Antennaria microphylla* Rydberg
- parvifolia*** Nuttall [M&H; W&S]
- Antennaria aprica* Greene
- Antennaria latisquamea* Greene [not Piper]
- peramoena* Greene = *Antennaria marginata* Greene
- rosea*** (D.C. Eaton) Greene subsp. ***confinis*** (Greene) R.J. Bayer [W&S]
- Antennaria concinna* E. Nelson
- Antennaria confinis* Greene
- rosea*** (D.C. Eaton) Greene subsp. ***arida*** (E.E. Nelson) R.J. Bayer [Bayer 2006; M&H; W&S]
- Antennaria arida* E.E. Nelson
- Antennaria arida* E.E. Nelson subsp. *viscidula* E.E. Nelson
- Antennaria viscidula* (E.E. Nelson) Rydberg
- rosea*** (D.C. Eaton) Greene subsp. ***rosea*** [W&S]
- Antennaria formosa* Greene
- Antennaria imbricata* E. Nelson
- rosulata*** Rydberg [M&H; W&S]
- Antennaria sierrae-blancae* Rydberg
- sierrae-blancae* Rydberg = *Antennaria rosulata* Rydberg
- umbrinella* sensu NM authors = *Antennaria media* Greene
- viscidula* (E. Nelson) Rydberg = *Antennaria rosea* Greene subsp. *arida* (E.E. Nelson) R.J. Bayer
- Anthemis*** chamomile
- \**cotula*** Linnaeus [M&H; W&S]
- Maruta cotula* (Linnaeus) A.P. de Candolle
- Antheropeas lanosum* (Gray) Rydberg = *Eriophyllum lanosum* Gray
- Aphanostephus*** faintcrown
- Nesom, G. 2006. *Aphanostephus*, pp. 351-353. IN: Flora of North America, vol. 20. Oxford University Press.
- Turner, B.L. 1984. Taxonomy of the genus *Aphanostephus* (Asteraceae–Astereae). Phytologia 56:81-101.

- Worthington, R. 2006. Plant distribution reports. The New Mexico Botanist 35:3. [*Aphanostephus ramosissimus ramosissimus*]  
*arizonicus* Gray = *Aphanostephus ramosissimus* A.P. de Candolle var. *humilis* (Bentham) Turner & Birdsong  
*arkansanus* (A.P. de Candolle) Gray = *Aphanostephus skirrhobasis* (A.P. de Candolle) Trelease  
*humilis* Bentham = *Aphanostephus ramosissimus* A.P. de Candolle var. *humilis* (Bentham) Turner & Birdsong  
*perennis* Wooton & Standley = *Aphanostephus riddellii* Torrey & Gray  
*ramosissimus* A.P. de Candolle var. *humilis* (Bentham) Turner & Birdsong [Turner 1984]  
*Aphanostephus arizonicus* Gray  
*Aphanostephus humilis* Bentham  
*ramosissimus* A.P. de Candolle var. *ramosissimus* [Worthington 2006]  
*riddellii* Torrey & Gray [M&H; W&S]  
*Aphanostephus perennis* Wooton & Standley  
*skirrhobasis* (A.P. de Candolle) Trelease [M&H; Turner 1984; W&S]  
*Aphanostephus arkansanus* (A.P. de Candolle) Gray  
*Keerlia skirrhobasis* A.P. de Candolle  
*Aplopappus blephariphyllus* Gray = *Xanthisma blephariphyllum* (Gray) Morgan & Hartman  
*linearifolius* Buckley = *Baccharis texana* (Torrey & Gray) Gray
- Arctium** burdock  
 Arènes, J. 1950. Monographie du genre *Arctium* L. Bull. Jard. Bot. Ét. 20:67-156.  
 Keil, D. 2006. *Arctium*, pp. 168-171. IN: Flora of North America, vol. 19. Oxford University Press.  
 \**minus* (Hill) Bernhardt [M&H; W&S]  
*Lappa minus* Hill
- Arida blepharophylla* (A. Gray) Morgana & Hartman = *Leucosyris blepharophylla* (A. Gray) Pruski & Hartman  
*parviflora* (A. Gray) Morgan & Hartman = *Leucosyris parviflora* (A. Gray) Pruski & Hartman  
*riparia* (Kunth) Morgan & Hartman = *Leucosyris riparia* (Kunth) Pruski & Hartman
- Arnica** arnica  
 Downie, S.R. & K.E. Denford. 1988. Taxonomy of *Arnica* (Asteraceae) subgenus *Arctica*. *Rhodora* 90:245-275.  
 Gruezo, W.S. and K.E. Denford. 1994. Taxonomy of *Arnica* subgenus *Chamissonis* Maguire (Asteraceae). *Asia Life Sci.* 3: 89-212.  
 Heil, K.D., S.L. O'Kane, & A. Clifford. 2002. Additions to the flora of New Mexico from the San Juan Basin Flora project. The New Mexico Botanist 24:1-4. [*Arnica fulgens*]  
 Wolf, S.J. 2006. *Arnica*, pp. 361-377. IN: Flora of North America, vol. 21. Oxford University Press.  
 Wolf, S.J. & K.E. Denford. 1984. Taxonomy of *Arnica* (Compositae) subgenus *Astromontana*. *Rhodora* 86:239-309.  
 Worthington, R. 2005. Plant distribution reports [*Arnica latifolia*]. The New Mexico Botanist 32:7.  
*angustifolia* Vahl subsp. *eradiata* A. Gray = *Arnica parryi* A. Gray  
*chamissonis* Lessing [M&H; W&S]  
*Arnica chamissonis* Lessing subsp. *foliosa* (Nuttall) Maguire  
*Arnica foliosa* Nuttall  
*chamissonis* Lessing subsp. *foliosa* (Nuttall) Maguire = *Arnica chamissonis* Lessing  
*cordifolia* Hooker [M&H; W&S]  
*Arnica paniculata* A. Nelson  
*foliosa* Nuttall = *Arnica chamissonis* Lessing subsp. *foliosa* (Nuttall) Maguire  
*fulgens* Pursh [Heil et al. 2002]  
*latifolia* Bongard [Worthington 2005]  
*paniculata* A. Nelson = *Arnica cordifolia* Hooker  
*parryi* A. Gray [FNM I]  
*Arnica angustifolia* Vahl subsp. *eradiata* A. Gray
- Artemisia** sagebrush, wormwood  
 Beetle, A.A. 1960. A study of sagebrush: the section *Tridentatae* of *Artemisia*. Univ. Wyoming Agr. Exp. Sta. Bull. 368.  
 Keck, D.D. 1946. A revision of the *Artemisia vulgaris* complex in North America. Proc. Calif. Acad. Sci. IV. 25:421-468.

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- Schiebout, M.H., D.L. Hazlett, & N. Snow. 2008. A floristic survey of vascular plants over parts of northeastern New Mexico. *J. Res. Inst. Texas* 2(2):1407-1447. [*Artemisia ludoviciana incompta*]
- Shultz, L.M. 1986. Taxonomic and geographic limits of *Artemisia* subgenus *Tridentatae* (Beetle) McArthur (Asteraceae: Anthemideae). pp. 20-28. IN: McArthur, E.D. & B.L. Welch. Proceedings-Symposium on the Biology of *Artemisia* and *Chrysothamnus*. U.S. For. Serv. Gen. Tech. Rep. INT-200.
- Schultz, L.M. 2006. *Artemisia*, p. 503-534. IN: Flora of North America, vol. 19. Oxford University Press, New York.
- Schultz, L.M. 2009. Monograph of *Artemisia* Subgenus *Tridentatae* (Asteraceae-Anthemideae). *Syst. Bot. Monogr.* 89.
- Sivinski, R.C. 2001. New plant distribution records. *The New Mexico Botanist* 19:3. [*Artemisia pygmaea*]
- Ward, G.H. 1953. *Artemisia*, section *Seriphidium*, in North America: A cytotaxonomic study. *Contr. Dudley Herb.* 4(6):155-205.
- Weber, W.A. & R.C. Wittmann. 2009. *Delwiensia*, a new genus of Asteraceae. *Phytologia* 91(1): 92-94.
- albula* Wootton = *Artemisia ludoviciana* Nuttall var. *albula* (Wootton) Shinnery  
*arbuscula* sensu M&H and W&S = *Artemisia tridentata* Nuttall  
*arbuscula* Nuttall subsp. *nova* (A. Nelson) G.H. Ward = *Artemisia nova* A. Nelson  
**\*biennis** Willdenow [M&H; W&S]  
**bigelovii** Gray [M&H; W&S]  
*Artemisia petrophila* Wootton & Standley  
*Seriphidium bigelovii* (Gray) K. Bremer & Humphries  
**campestris** Linnaeus subsp. **caudata** (Michaux) Hall & Clements [M&H; W&S]  
*Artemisia campestris* Linnaeus var. *caudata* (Michaux) Palmer & Steyermark  
*Artemisia caudata* Michaux  
*Artemisia forwoodii* S. Watson  
*campestris* Linnaeus var. *caudata* (Michaux) Palmer & Steyermark = *Artemisia campestris* Linnaeus subsp. *caudata* (Michaux) Hall & Clements  
**campestris** Linnaeus subsp. **pacifica** (Nuttall) Hall & Clements [M&H; W&S]  
*Artemisia campestris* Linnaeus var. *pacifica* (Nuttall) Peck  
*Artemisia campestris* Linnaeus var. *scouleriana* (Besser) Cronquist  
*Artemisia pacifica* Nuttall  
*Artemisia scouleriana* (Besser) Rydberg  
*campestris* Linnaeus var. *pacifica* (Nuttall) Peck = *Artemisia campestris* Linnaeus subsp. *pacifica* (Nuttall) Hall & Clements  
*campestris* Linnaeus var. *scouleriana* (Besser) Cronquist = *Artemisia campestris* Linnaeus subsp. *pacifica* (Nuttall) Hall & Clements  
*cana* Pursh var. *viscidula* Osterhout = *Artemisia cana* Pursh subsp. *viscidula* (Osterhout) Beetle  
**cana** Pursh subsp. **viscidula** (Osterhout) Beetle [M&H; Schultz 2006; W&S]  
silver sage  
*Artemisia cana* Pursh var. *viscidula* Osterhout  
*Artemisia viscidula* Osterhout  
**carruthii** Wood ex Carruthers [M&H; W&S]  
*Artemisia carruthii* Wood ex Carruthers var. *wrightii* (Gray) Blake  
*Artemisia kansana* Britton  
*Artemisia wrightii* Gray  
*carruthii* Wood ex Carruthers var. *wrightii* (Gray) Blake = *Artemisia carruthii* Wood ex Carruthers  
*caudata* Michaux = *Artemisia campestris* Linnaeus subsp. *caudata* (Michaux) Hall & Clements  
*dracunculina* S. Watson = *Artemisia dracunculus* Linnaeus  
*dracunculoides* Pursh = *Artemisia dracunculus* Linnaeus  
*dracunculoides* Pursh var. *dracunculina* (S. Watson) Blake = *Artemisia dracunculus* Linnaeus  
**dracunculus** Linnaeus [M&H; W&S]  
tarragon, wormwood  
*Artemisia dracunculina* S. Watson  
*Artemisia dracunculoides* Pursh  
*Artemisia dracunculoides* Pursh var. *dracunculina* (S. Watson) Blake

- Artemisia glauca* Pallas ex Willdenow  
***filifolia*** Torrey [M&H; W&S]  
 sand sage  
*forwoodii* S. Watson = *Artemisia campestris* Linnaeus subsp. *caudata* (Michaux) Hall & Clements  
***franserioides*** Greene [M&H; W&S]  
***frigida*** Willdenow [M&H; W&S]  
 estafiata, fringed sage  
*glauca* Pallas ex Willdenow = *Artemisia dracunculus* Linnaeus  
*gnaphaloides* Nuttall = *Artemisia ludoviciana* Nuttall var. *ludoviciana*  
*incompta* Nuttall = *Artemisia ludoviciana* Nuttall var. *incompta* (Nuttall) Cronquist  
*kansana* Britton = *Artemisia carruthii* Wood ex Carruthers  
***laciniata*** Willdenow subsp. ***parryi*** (Gray) W.A. Weber [M&H]  
*Artemisia parryi* Gray  
*Artemisia saxicola* (Besser) Rydberg var. *parryi* (Gray) A. Nelson  
***ludoviciana*** Nuttall var. ***albula*** (Wooton) Shinnery [M&H; W&S]  
 Louisiana wormwood  
*Artemisia albula* Wooton  
*Artemisia ludoviciana* Nuttall subsp. *albula* (Wooton) Keck  
*Artemisia microcephala* Wooton  
***ludoviciana*** Nuttall var. ***incompta*** (Nuttall) Cronquist [Schieboub et al. 2009]  
 Louisiana wormwood  
*Artemisia incompta* Nuttall  
*Artemisia ludoviciana* Nuttall subsp. *incompta* (Nuttall) D.D. Keck  
***ludoviciana*** Nuttall var. ***ludoviciana*** [M&H; W&S]  
 Louisiana wormwood  
*Artemisia gnaphaloides* Nuttall  
*Artemisia rhizomata* A. Nelson  
*Artemisia silvicola* Osterhout  
***ludoviciana*** Nuttall var. ***mexicana*** (Willdenow ex Sprengel) Gray [M&H; W&S]  
 Mexican wormwood  
*Artemisia ludoviciana* Nuttall subsp. *mexicana* (Willdenow ex Sprengel) Keck  
*Artemisia mexicana* Willdenow ex Sprengel  
*Artemisia neomexicana* Greene  
***ludoviciana*** Nuttall var. ***redolens*** (Gray) Shinnery [M&H; W&S]  
 Louisiana wormwood  
*Artemisia ludoviciana* Nuttall subsp. *redolens* (Gray) Keck  
*Artemisia redolens* Gray  
*ludoviciana* Nuttall subsp. *sulcata* (Rydberg) Keck : Reported as expected by M&H; to be looked for in the boot heel region; awaiting verification.  
*mexicana* Willdenow ex Sprengel = *Artemisia ludoviciana* Nuttall var. *mexicana* (Willdenow ex Sprengel) Gray  
*microcephala* Wooton = *Artemisia ludoviciana* Nuttall var. *albula* (Wooton) Shinnery  
*neomexicana* Greene = *Artemisia ludoviciana* Nuttall var. *mexicana* (Willdenow ex Sprengel) Gray  
***nova*** A. Nelson [M&H; Schultz 2009; W&S]  
 black sagebrush  
*Artemisia arbuscula* Nuttall subsp. *nova* (A. Nelson) G.H. Ward  
*Seriphidium novum* (A. Nelson) W.A. Weber  
*pacifica* Nuttall = *Artemisia campestris* Linnaeus subsp. *pacifica* (Nuttall) Hall & Clements  
*parryi* Gray = *Artemisia laciniata* Willdenow subsp. *parryi* (Gray) W.A. Weber  
***pattersonii*** A. Gray [M&H]  
*Artemisia scopulorum* A. Gray var. *monocephala* A. Gray  
*Delwiensia pattersonii* (A. Gray) Weber & Wittmann  
*petrophila* Wooton & Standley = *Artemisia bigelovii* Gray  
***pygmaea*** A. Gray [Sivinski et al. 1995, 2001; Schultz 2009]  
*Seriphidium pygmaeum* (A. Gray) W.A. Weber  
*redolens* Gray = *Artemisia ludoviciana* Nuttall var. *redolens* (Gray) Shinnery



*rhizomata* A. Nelson = *Artemisia ludoviciana* Nuttall var. *ludoviciana*  
*saxicola* (Besser) Rydberg var. *parryi* (Gray) A. Nelson = *Artemisia laciniata* Willdenow  
 subsp. *parryi* (Gray) W.A. Weber

***scopulorum*** Gray [M&H; W&S]

*scopulorum* A. Gray var. *monocephala* A. Gray = *Artemisia pattersonii* A. Gray  
*scouleriana* (Besser) Rydberg = *Artemisia campestris* Linnaeus subsp. *pacifica* (Nuttall)  
 Hall & Clements

*silvicola* Osterhout = *Artemisia ludoviciana* Nuttall var. *ludoviciana*

***spinescens*** D.C. Eaton [M&H; W&S]

budsage

*Picrothamnus desertorum* Nuttall

***tridentata*** Nuttall subsp. ***tridentata*** [M&H; W&S]

big sagebrush

*Seriphidium tridentatum* (Nuttall) W.A. Weber

***tridentata*** Nuttall subsp. ***vaseyana*** (Rydberg) Beetle [Shultz 1986]

big sagebrush

*Artemisia vaseyana* Rydberg

*Seriphidium vaseyanum* (Rydberg) W.A. Weber

***tridentata*** Nuttall subsp. ***wyomingensis*** Beetle & A.M. Young [McArthur &  
 Sanderson 1999]

Wyoming sagebrush

*Seriphidium tridentatum* (Nuttall) W.A. Weber subsp. *wyomingense* (Beetle &  
 A.M. Young) W.A. Weber

*vaseyana* Rydberg = *Artemisia tridentata* Nuttall subsp. *vaseyana* (Rydberg) Beetle

*viscidula* Osterhout = *Artemisia cana* Pursh subsp. *viscidula* (Osterhout) Beetle

*wrightii* Gray = *Artemisia carruthii* Wood ex Carruthers

***Asanthus*** brickell-bush

***squamulosus*** (Gray) R.M. King & H.E. Robinson [M&H]

*Brickellia squamulosa* Gray

*Coleosanthus squamulosus* (Gray) Kuntze

*Aster ascendens* Lindley = *Symphotrichum ascendens* (Lindley) Nesom

*ascendens* Lindley var. *parryi* D.C. Eaton = *Symphotrichum foliaceum* (Lindley ex A.P. de  
 Candolle) Nesom var. *parryi* (D.C. Eaton) Nesom

*amplifolius* = *Dieteria asteroides* Torrey var. *asteroides*

*apricus* (Gray) Rydberg = *Symphotrichum foliaceum* (A.P. de Candolle) Nesom var.

*apricum* (A. Gray) Nesom

*aquifolius* (Greene) Blake = *Dieteria bigelovii* (Gray) Morgan & Hartman var. *bigelovii*

*arenosus* (Heller) Blake = *Chaetopappa ericoides* (Torrey) Nesom

*bigelovii* Gray = *Dieteria bigelovii* (Gray) Morgan & Hartman var. *bigelovii*

*blepharophyllus* A. Gray = *Leucosyris blepharophylla* (A. Gray) Pruski & Hartman

*boltoniae* Greene = *Psilactis asteroides* A. Gray

*bonplandii* Kuntze = *Solidago glutinosa* Nuttall

*brachyactis* Blake = *Symphotrichum ciliatum* (Ledebour) G.L. Nesom

*brittonii* Kuntze = *Solidago wrightii* A. Gray

*campestris* Nuttall = *Symphotrichum campestre* (Nuttall) G.L. Nesom

*canbyi* (A. Gray) Vasey = *Symphotrichum foliaceum* (A.P. de Candolle) Nesom var.

*canbyi* (A. Gray) Nesom

*canescens* Pursh s.s. [= *Dieteria canescens* (Pursh) Nuttall] : Not known from NM [Turner  
 1987].

*canescens* Pursh var. *aristata* Eastwood = *Dieteria asteroides* Torrey var. *aristata*  
 (Eastwood) Morgan & Hartman

*canescens* Pursh var. *tephrodes* = *Dieteria asteroides* Torrey var. *asteroides*

*chilensis* Nees subsp. *ascendens* (Lindley) Cronquist = *Symphotrichum ascendens*  
 (Lindley) Nesom

*caerulescens* A.P. de Candolle var. *wootonii* (Greene) Wiegand = *Symphotrichum*

*lanceolatum* (Willdenow) Nesom var. *hesperium* (A. Gray) Nesom

*commutatus* (Torrey & Gray) Gray var. *commutatus* = *Symphotrichum falcatum* (Lindley)  
 Nesom var. *commutatum* Torrey Gray) Nesom

- commutatus* (Torrey & Gray) Gray var. *crassulus* (Rydberg) Blake = *Symphytotrichum falcatum* (Lindley) Nesom var. *commutatum* (Torrey & Gray) Nesom
- commutatus* (Torrey & Gray) Gray var. *polycephalus* Blake, non *Aster polycephalus* Rydberg = *Symphytotrichum falcatum* (Lindley) Nesom var. *commutatum* (Torrey & Gray) Nesom
- confertiflorus* (A.P. de Candolle) Kuntze = *Solidago glutinosa* Nuttall
- corymbiformis* Rydberg = *Symphytotrichum spathulatum* (Lindley) Nesom var. *spathulatum*
- crassulus* Rydberg = *Symphytotrichum falcatum* (Lindley) Nesom var. *commutatum* (Torrey & Gray) Nesom
- ericoides* Linnaeus = *Symphytotrichum ericoides* (Linnaeus) Nesom var. *ericoides*
- exilis* of NM authors = *Symphytotrichum subulatum* (Michaux) Nesom var. *ligulatum* (Shinners) S.D. Sundberg, or *Symphytotrichum subulatum* (Michaux) Nesom var. *parviflorum* (Nees) S.D. Sundberg
- exscapus* Richardson = *Townsendia exscapa* (Richardson) Porter
- falcatus* Lindley = *Symphytotrichum falcatum* (Lindley) Nesom var. *falcatum*
- falcatus* Lindley var. *crassulus* (Rydberg) Cronquist = *Symphytotrichum falcatum* (Lindley) Nesom var. *crassulum* (Rydberg) Cronquist
- fendleri* Gray = *Symphytotrichum fendleri* (A. Gray) Nesom
- foliaceus* Lindley ex A.P. de Candolle var. *apricus* A. Gray = *Symphytotrichum foliaceum* (Lindley ex A.P. de Candolle) Nesom var. *apricum* (A. Gray) Nesom
- foliaceus* Lindley ex A.P. de Candolle var. *burkei* A. Gray = *Symphytotrichum foliaceum* (Lindley ex A.P. de Candolle) Nesom var. *canbyi* (A. Gray) Nesom
- foliaceus* Lindley ex A.P. de Candolle var. *canbyi* A. Gray = *Symphytotrichum foliaceum* (Lindley ex A.P. de Candolle) Nesom var. *canbyi* (A. Gray) Nesom
- foliaceus* Lindley ex A.P. de Candolle var. *eatonii* A. Gray = *Symphytotrichum eatonii* (A. Gray) Nesom
- foliaceus* Lindley ex A.P. de Candolle var. *frondeus* A. Gray = *Symphytotrichum foliaceum* (Lindley ex A.P. de Candolle) Nesom var. *parryi* (D.C. Eaton) Nesom
- foliaceus* Lindley ex A.P. de Candolle var. *parryi* (D.C. Eaton) A. Gray = *Symphytotrichum foliaceum* (Lindley ex A.P. de Candolle) Nesom var. *parryi* (D.C. Eaton) Nesom
- fremontii* (Torrey & Gray) Gray = *Symphytotrichum spathulatum* (Lindley) Nesom var. *spathulatum*
- frondeus* (Gray) Greene = *Symphytotrichum foliaceum* (Lindley ex A.P. de Candolle) Nesom var. *parryi* (D.C. Eaton) Nesom
- frondosus* (Nuttall) Torrey & Gray = *Symphytotrichum frondosum* (Nuttall) Nesom
- glacialis* Nuttall = *Erigeron glacialis* (Nuttall) A. Nelson var. *glacialis*
- glaucodes* Blake var. *formosus* (Greene) Kittell = *Herrickia glauca* (Nuttall) Brouillet
- glaucodes* Blake var. *glaucodes* = *Herrickia glauca* (Nuttall) Brouillet
- glaucus* (Nuttall) Torrey & Gray = *Herrickia glauca* (Nuttall) Brouillet
- gymnocephalus* auctores non (A.P. de Candolle) Gray = *Xanthisma blephariphyllum* (Gray) Morgan & Hartman
- hebecladus* A.P. de Candolle = *Symphytotrichum ericoides* (Linnaeus) Nesom var. *ericoides*
- hesperius* Gray var. *hesperius* = *Symphytotrichum lanceolatum* (Willdenow) Nesom var. *hesperium* (A. Gray) Nesom
- hesperius* Gray var. *laetivirens* (Greene) Cronquist = *Symphytotrichum lanceolatum* (Willdenow) Nesom var. *hesperium* (A. Gray) Nesom
- hesperius* Gray var. *wootonii* Greene = *Symphytotrichum lanceolatum* (Willdenow) Nesom var. *hesperium* (A. Gray) Nesom
- hirtifolius* Blake = *Chaetopappa ericoides* (Torrey) Nesom
- horridus* (Wooton & Standley) Blake = *Herrickia horrida* Wooton & Standley
- hydrophilus* Greene = *Almutaster pauciflorus* (Nuttall) Löve & Löve
- jemensis* A. Nelson = *Symphytotrichum fendleri* (A. Gray) Nesom
- kumleinii* Fries = *Symphytotrichum oblongifolium* (Nuttall) Nesom
- laevis* Linnaeus var. *geyeri* Gray = *Symphytotrichum laeve* (Linnaeus) Löve & Löve var. *geyeri* (A. Gray) Nesom
- laevis* Linnaeus var. *guadalupensis* A.G. Jones = *Symphytotrichum laeve* (Linnaeus) Löve & Löve var. *geyeri* (A. Gray) Nesom
- laetivirens* Greene = *Symphytotrichum lanceolatum* (Willdenow) Nesom var. *hesperium* (A. Gray) Nesom

*latissimifolius* (Miller) Kuntze var. *serotinus* Kuntze = *Solidago gigantea* Aiton  
*lepidus* (A.P. de Candolle) Kuntze = *Solidago lepida* A.P. de Candolle  
*leucelene* Blake = *Chaetopappa ericoides* (Torrey) Nesom  
*linearis* (Greene) Cory = *Dieteria canescens* (Pursh) Nuttall var. *glabra* (Gray) Morgan & Hartman  
*lonchophyllus* Greene = *Symphytotrichum eatonii* (Gray) Nesom  
*marshallii* (Rothrock) Kuntze = *Solidago missouriensis* Nuttall  
*missouriensis* (Nuttall) Kuntze = *Solidago missouriensis* Nuttall  
*multiflorus* Aiton = *Symphytotrichum ericoides* (Linnaeus) Nesom var. *ericoides*  
*multiflorus* Aiton var. *commutatus* Torrey & Gray = *Symphytotrichum falcatum* (Lindley) Nesom var. *commutatum* (Torrey & Gray) Nesom  
*multiflorus* Aiton var. *pansus* S.F.Blake = *Symphytotrichum ericoides* (Linnaeus) Nesom var. *pansum* (Blake) Nesom  
*multiradiatus* (Aiton) Kuntze = *Solidago multiradiata* Aiton  
*nanus* (Nuttall) Kuntze = *Solidago nana* Nuttall  
*neomexicanus* Wooton & Standley = *Symphytotrichum subulatum* (Michaux) Nesom var. *ligulatum* (Shinners) S.D. Sundberg  
*novae-angliae* Linnaeus = *Symphytotrichum novae-angliae* (Linnaeus) Nesom  
*oblongifolius* Nuttall = *Symphytotrichum oblongifolium* (Nuttall) Nesom  
*oblongifolius* Nuttall var. *rigidus* Gray = *Symphytotrichum oblongifolium* (Nuttall) Nesom  
*occidentalis* (Nuttall) Torrey & Gray = *Symphytotrichum spathulatum* (Lindley) Nesom var. *spathulatum*  
*oregonus* auctores non (Nuttall) Torrey & Gray = *Symphytotrichum eatonii* (Gray) Nesom  
*parvulus* Blake = *Leucosyris parviflora* (A. Gray) Pruski & Hartman  
*pauciflorus* Nuttall = *Almutaster pauciflorus* (Nuttall) Löve & Löve  
*pauciflorus* Nuttall var. *gracillimus* Gray = *Almutaster pauciflorus* (Nuttall) Löve & Löve  
*porteri* Gray = *Symphytotrichum porteri* (A. Gray) Nesom  
*praealtus* Poiret = *Symphytotrichum praealtum* (Poiret) Nesom  
*riparis* Kunth = *Leucosyris riparia* (Kunth) Pruski & Hartman  
*rubrotinctus* Blake = *Dieteria canescens* (Pursh) Nuttall  
*salicifolius* Aiton = *Symphytotrichum praealtum* (Poiret) Nesom  
*sericeus* Ventenat = *Symphytotrichum sericeum* (Ventenat) Nesom  
*sparsiflorus* (A.P. de Candolle) Kuntze = *Solidago velutina* A.P. de Candolle  
*spathulatus* Lindley = *Symphytotrichum spathulatum* (Lindley) Nesom var. *spathulatum*  
*spinus* Bentham = *Chloracantha spinosa* (Bentham) Nesom  
*subulatus* Michaux = *Symphytotrichum subulatum* (Michaux) Nesom s.s.  
*subulatus* Michaux var. *cubensis* Shinners = *Symphytotrichum subulatum* (Michaux) Nesom var. *parviflorum* (Nees) S.D. Sundberg  
*subulatus* Michaux var. *ligulatus* Shinners = *Symphytotrichum subulatum* (Michaux) Nesom var. *ligulatum* (Shinners) S.D. Sundberg  
*subulatus* Michaux = *Symphytotrichum subulatum* (Michaux) Nesom  
*tagetinus* (Greene) Blake = *Machaeranthera tagetina* Greene  
*tanacetifolius* Kunth = *Machaeranthera tanacetifolia* (Kunth) Nees  
*tanacetifolius* Kunth var. *pygmaeus* Gray = *Leucosyris parviflora* (A. Gray) Pruski & Hartman  
*tephrodes* (Gray) Blake = *Dieteria asteroides* Torrey var. *asteroides*  
*tolmieanus* (A. Gray) Kuntze = *Solidago missouriensis* Nuttall  
*vallicola* Greene = *Symphytotrichum ascendens* (Lindley) Nesom  
*velutinus* (A.P. de Candolle) Kuntze = *Solidago velutina* A.P. de Candolle  
*woodhousei* Wooton = *Symphytotrichum frondosum* (Nuttall) Nesom  
*wootonii* Greene = *Symphytotrichum lanceolatum* (Willdenow) Nesom var. *hesperium* (A. Gray) Nesom

**Baccharis** seep-willow

Cronquist, A. 1994. *Baccharis*, pp. 352-356. IN: Intermountain Flora, vol. 5. New York Botanical Garden.  
 Sundberg, S.D. & D.J. Bogler. 2006. *Baccharis*, p. 23-34. IN: Flora of North America, vol. 20. Oxford University Press, New York.

*alamosana* Blake = *Baccharis thesioides* Kunth

***bigelovii*** Gray [M&H; W&S]

***brachyphylla*** Gray [M&H]

- consanguinea* A.P. de Candolle = *Baccharis pilularis* A.P. de Candolle subsp. *consanguinea* (A.P. de Candolle) C.B. Wolf
- emoryi* Gray = *Baccharis salicina* Torrey & Gray
- glutinosa* Persoon = *Baccharis salicifolia* (Ruiz & Pavon) Persoon
- havardii*** Gray [McIntosh 1996]
- neglecta* Britton s.s. : Restricted to the Edwards Plateau (Texas) and Mexico; earlier reports for NM need verification.
- pilularis*** A.P. de Candolle subsp. ***consanguinea*** (A.P. de Candolle) C.B. Wolf [M&H]
- coyotebrush
- Baccharis consanguinea* A.P. de Candolle
- pteronioides*** A.P. de Candolle [M&H; W&S]
- yerba-de-pasmo
- Baccharis ramulosa* (A.P. de Candolle) Gray
- ramulosa* (A.P. de Candolle) Gray = *Baccharis pteronioides* A.P. de Candolle
- salicifolia*** (Ruiz & Pavon) Persoon [M&H; W&S]
- willow baccharis
- Baccharis glutinosa* Persoon
- Baccharis viminea* A.P. de Candolle
- Molina salicifolia* Ruiz & Pavon
- salicina*** Torrey & Gray [M&H; W&S]
- Baccharis emoryi* Gray
- sarothroides*** Gray [M&H; W&S]
- texana*** (Torrey & Gray) Gray [Sundberg & Bogler 2006]
- Aplopappus linearifolius* Buckley
- Linosyris texana* Torrey & Gray
- thesioides*** Kunth [M&H]
- Baccharis alamosana* Blake
- viminea* A.P. de Candolle = *Baccharis salicifolia* (Ruiz & Pavon) Persoon
- wrightii*** Gray [M&H; W&S]
- Coleosanthus wrightii* (Gray) Britton
- Baeria chrysostroma* Fischer & C.A. Meyer var. *gracilis* (A.P. de Candolle) Hall = *Lasthenia gracilis* (A.P. de Candolle) Greene
- gracilis* (A.P. de Candolle) Gray = *Lasthenia gracilis* (A.P. de Candolle) Greene
- Bahia** bahia
- Ellison, W.L. 1964. A systematic study of the genus *Bahia* (Compositae). *Rhodora* 66:67-86, 177-215, 281-311.
- absinthifolia* Benthams = *Picradeniopsis absinthifolia* (Benthams) B.G. Baldwin
- absinthifolia* Benthams var. *dealbata* Gray = *Picradeniopsis absinthifolia* (Benthams) B.G. Baldwin
- biternata* Gray = *Hymenothrix biternata* (A. Gray) B.G. Baldwin
- chrysanthemoides* (A. Gray) A. Gray = *Hymenothrix dissecta* (A. Gray) B.G. Baldwin
- dealbata* Gray = *Picradeniopsis absinthifolia* (Benthams) B.G. Baldwin
- dissecta* (Gray) Britton = *Hymenothrix dissecta* (A. Gray) B.G. Baldwin
- dissecta* var. *anisopappa* Blake = *Hymenothrix dissecta* (A. Gray) B.G. Baldwin
- neomexicana* Gray = *Picradeniopsis multiflora* (Hooker & Arnott) B.G. Baldwin
- nudicaulis* Gray var. *oblongifolia* (Gray) Cronquist = *Platyschkuhria integrifolia* (Gray) Rydberg var. *oblongifolia* (Gray) Ellison
- oblongifolia* Gray = *Platyschkuhria integrifolia* (Gray) Rydberg var. *oblongifolia* (Gray) Ellison
- oppositifolia* (Nuttall) Gray = *Picradeniopsis oppositifolia* (Nuttall) Rydberg
- pedata* Gray = *Hymenothrix pedata* (A. Gray) B.G. Baldwin
- woodhousei* (Gray) Gray = *Picradeniopsis woodhousei* (Gray) Rydberg
- Baileya** desert marigold
- Turner, M.W. 1993. Systematic study of the genus *Baileya* (Asteraceae: Helenieae). *Sida* 15(3):491-508.
- multiradiata*** Harvey & Gray ex Gray [M&H; W&S]
- Baileya multiradiata* Harvey & Gray ex Gray var. *nudicaulis* Gray
- Baileya multiradiata* Harvey & Gray ex Gray var. *thurberi* (Rydberg) Kittell

- Baileya pleniradiata* Harvey & Gray ex Gray var. *multiradiata* (Harvey & Gray ex Gray) Kearney  
*Baileya thurberi* Rydberg  
*multiradiata* Harvey & Gray ex Gray var. *nudicaulis* Gray = *Baileya multiradiata* Harvey & Gray  
*multiradiata* Harvey & Gray ex Gray var. *pleniradiata* (Harvey & Gray ex Gray) Coville [= *Baileya pleniradiata*] : Reported by M&H, but M.W. Turner (1993) does not report this from NM.  
*multiradiata* Harvey & Gray ex Gray var. *thurberi* (Rydberg) Kittell = *Baileya multiradiata* Harvey & Gray  
*pleniradiata* Harvey & Gray ex Gray : Not known to occur in NM [M.W. Turner 1993].  
*pleniradiata* Harvey & Gray ex Gray var. *multiradiata* (Harvey & Gray ex Gray) Kearney = *Baileya multiradiata* Harvey & Gray  
*thurberi* Rydberg = *Baileya multiradiata* Harvey & Gray  
*Barkhausia grandiflora* Nuttall = *Pyrrhopappus grandiflorus* (Nuttall) Nuttall  
**Barkleyanthus** Barkley's groundsel  
*salicifolius* (Kunth) H. Robinson & Brettell [M&H; Todsén 1973]  
*Cineraria salicifolius* Kunth  
*Senecio salignus* A.P. de Candolle  
*Barrattia calva* Engelmann & Gray = *Simsia calva* (Engelmann & Gray) Gray  
**Bartlettia** Bartlett's daisy  
*scaposa* Gray [M&H; W&S]  
**Bebbia** sweetbush  
Whalen, M. 1977. Taxonomy of *Bebbia* (Compositae: Heliantheae). *Madroño* 24:112-121.  
*aspera* (Greene) A. Nelson = *Bebbia juncea* (Benth) Greene var. *aspera* Greene  
*juncea* (Benth) Greene var. *aspera* Greene [M&H; W&S]  
*Bebbia aspera* (Greene) A. Nelson  
**Berlandiera** greeneyes  
Pinkava, D.J. 1967. Biosystematic study of *Berlandiera* (Compositae). *Brittonia* 19:285-298.  
Pinkava, D.J. 2006. *Berlandiera*, pp. 83-87. IN: *Flora of North America*, vol. 21. Oxford University Press.  
Turner, B.L. 1956. Chromosome numbers and geographic distribution of *Lindheimeria*, *Engelmannia*, and *Berlandiera*. *Southwestern Naturalist* 1:128-131.  
Turner, B.L. 2014. Texas taxa of the genus *Berlandiera* (Asteraceae: Heliantheae). *Phytologia* 96: 235-240.  
*incisa* Torrey & Gray = *Berlandiera lyrata* Benth  
*lyrata* Benth [M&H; W&S]  
chocolate-flower  
*Berlandiera incisa* Torrey & Gray  
*lyrata* Benth var. *macrophylla* Gray = *Berlandiera* × *macrophylla* (Gray) M.E. Jones × *macrophylla* (Gray) M.E. Jones = hybrids of *Berlandiera lyrata* Benth × *Berlandiera* *monocephala* (B.L. Turner) Pinkava  
*Berlandiera lyrata* Benth var. *macrophylla* Gray  
*macvaughii* B.L. Turner [Turner 2014]  
*texana* A.P. de Candolle [M&H]  
*Berthelotia sericea* (Nuttall) Rydberg = *Pluchea sericea* (Nuttall) Coville  
**Bidens** beggarticks  
Ballard, R. 1986. *Bidens pilosa* complex (Asteraceae) in North and Central America. *Amer. J. Bot.* 73:1452-1465.  
Sherff, E.E. 1955. Coreopsideae. *North American Flora* II(2):1-149.  
Strother, J.L. & R.R. Weedon. 2006. *Bidens*, pp. 205-218. IN: *Flora of North America*, vol. 21. Oxford University Press. [*Bidens polylepsis*, *Bidens vulgata*]  
*anthriscoides* A.P. de Candolle : Reported by W&S, not treated by M&H; needs verification.  
*bigelovii* Gray [M&H; W&S]  
*bipinnata* Linnaeus [M&H]  
Spanish needles  
*Bidens bipinnata* Linnaeus var. *bitermatoides* Sherff  
*bipinnata* Linnaeus var. *bitermatoides* Sherff = *Bidens bipinnata* Linnaeus  
*cernua* Linnaeus [M&H]  
*Bidens glaucescens* Greene  
*Bidens prionophylla* Greene

- cognata* Greene = *Bidens tenuisecta* Gray  
*comosa* (Gray) Wiegand = *Bidens tripartita* Linnaeus  
***frondosa*** Linnaeus [M&H; W&S]  
*glaucescens* Greene = *Bidens cernua* Linnaeus  
***heterosperma*** Gray [M&H; W&S]  
***laevis*** (Linnaeus) Britton, Sterns, & Poggenburg [M&H]  
     *Helianthus laevis* Linnaeus  
***lemmonii*** Gray [M&H; Wagner 1979]  
***leptocephala*** Sherff [M&H]  
*megapotamicum* Sprengel = *Thelesperma megapotamicum* (Sprengel) Kuntze  
*odorata* Cavanilles = *Bidens pilosa* Linnaeus  
***pilosa*** Linnaeus [Ballard 1986; M&H]  
     *Bidens odorata* Cavanilles  
     *Bidens pilosa* Linnaeus var. *radiata* (Schultz-Bipontinus) Schultz-Bipontinus  
*pilosa* Linnaeus var. *radiata* (Schultz-Bipontinus) Schultz-Bipontinus = *Bidens pilosa*  
     Linnaeus  
 polylepis Blake : Reported by Strother & Weedon (2006), presumably based on  
     *Worthington 36316* (TROY), a dubious identification; all other collections  
     are in east Texas and eastward; awaits verification.  
*prionophylla* Greene = *Bidens cernua* Linnaeus  
***tenuisecta*** Gray [M&H; W&S]  
     *Bidens cognata* Greene  
***tripartita*** Linnaeus [M&H]  
     *Bidens comosa* (Gray) Wiegand  
 vulgata Greene : Reported in error by Strother & Weedon (2006); no specimens are known  
     from NM.  
*Bigelovia douglasii* Gray var. *stenophylla* Gray = *Chrysothamnus viscidiflorus* (Hooker) Nuttall  
     var. *viscidiflorus*  
*graveolens* = *Ericameria nauseosa* (Pallas ex Pursh) Nesom & Baird var. *graveolens*  
     (Nuttall) Reveal & Schuyler  
*graveolens* (Nuttall) Gray var. *appendiculata* Eastwood = *Ericameria nauseosa* (Pallas ex  
     Pursh) Nesom & Baird var. *latisquamea* (Gray) Nesom & Baird  
*graveolens* (Nuttall) Gray var. *hololeuca* A. Gray = *Ericameria nauseosa* (Pallas ex Pursh)  
     Nesom & Baird var. *hololeuca* (A. Gray) Nesom & Baird  
*graveolens* (Nuttall) Gray var. *latisquamea* Gray = *Ericameria nauseosa* (Pallas ex Pursh)  
     Nesom & Baird var. *latisquamea* (Gray) Nesom & Baird  
*greenii* Gray = *Chrysothamnus greenii* (Gray) Greene  
*howardii* (Parry ex Gray) Gray var. *attenuata* M.E. Jones = *Ericameria parryi* (A. Gray)  
     Nesom & Baird var. *attenuata* (M.E. Jones) Nesom & Baird  
*pluriflora* Gray = *Isocoma pluriflora* (Torrey & Gray) Greene  
*pulchella* Gray = *Lorandersonia pulchella* (Gray) Urbatsch, Roberts & Neubig  
*spathulata* Gray = *Ericameria cuneata* (Gray) McClatchie var. *spathulata* (Gray) H.M. Hall  
*turbinata* M.E. Jones = *Ericameria nauseosa* (Pallas ex Pursh) Nesom & Baird var.  
     *turbinata* (M.E. Jones) Nesom & Baird  
*vaseyi* Gray = *Chrysothamnus vaseyi* (Gray) Greene  
*Blepharipappus glandulosa* Hooker = *Layia glandulosa* (Hooker) Hooker & Arnott  
*Boebera papposa* (Ventenat) Rydberg = *Dyssodia papposa* (Ventenat) Hitchcock  
*Bolophyta alpina* Nuttall = *Parthenium alpinum* (Nuttall) Torrey & Gray  
*Brachyactis frondosus* (Nuttall) Gray = *Symphotrichum frondosum* (Nuttall) Nesom  
     *woodhousei* (Wooton) Wooton & Standley = *Symphotrichum frondosum* (Nuttall) Nesom  
*Brachyris microcephala* A.P. de Candolle = *Gutierrezia microcephala* (A.P. de Candolle) Gray  
*Brauneria angustifolia* (A.P. de Candolle) Heller = *Echinacea angustifolia* A.P. de Candolle  
***Brickellia*** brickell-bush  
 Allred, K.W. 1999. New plant distribution records. *The New Mexico Botanist* 13:7. [*Brickellia parvula*]  
 Cockman, J. 1996. New plant distribution records (*Brickellia veronicifolia*). *The New Mexico Botanist* 3:6.  
 Cronquist, A. 1994. *Kuhnia*, pp. 384. IN: *Intermountain Flora*, vol. 5. New York Botanical Garden.  
 Scott, R.W. 2006. *Brickellia*, pp. 491-507. IN: *Flora of North America*, vol. 21. Oxford University Press,  
 New York. [*Brickellia lemmonii conduplicata*]  
 Shinnars, L.H. 1946. Revision of the genus *Kuhnia*. *Wrightia* 1:122-144.  
 Shinnars, L.H. 1971. *Kuhnia* transferred to *Brickellia* Ell. (Compositae). *Sida* 4:274.

- Turner, B.L. 1989. An overview of the *Brickellia* (*Kuhnia*) *eupatorioides* (Asteraceae, Eupatorieae) complex. *Phytologia* 67(2):121-131.
- Turner, B.L. 1990. An overview of the *Brickellia lemmonii* (Asteraceae: Eupatorieae) complex (including *B. conduplicata*). *Phytologia* 68(3):160-164.
- amplexicaulis** B. Robinson [Spellenberg et al. 1993]
- baccharidea** Gray [M&H; W&S]  
*Coleosanthus baccharideus* (Gray) Kuntze
- betonicifolia** Gray [M&H; W&S]  
*Coleosanthus betonicifolius* (Gray) Kuntze
- betonicifolia* Gray var. *conduplicata* B.L. Robinson = *Brickellia lemmonii* Gray var. *conduplicata* (B.L. Robinson) B.L. Turner
- brachiata* Gray = *Brickellia coulteri* Gray var. *brachiata* (Gray) B.L. Turner
- brachyphylla** (A. Gray) A. Gray [M&H; W&S]  
*Clavigera brachyphylla* A. Gray  
*Coleosanthus brachyphyllus* (Gray) Kuntze
- californica** (Torrey & Gray) Gray [M&H]  
*Brickellia californica* (Torrey & Gray) Gray var. *reniformis* (Gray) Torrey & Gray  
*Bulbostylis californica* Torrey & Gray  
*Coleosanthus axillaris* Greene  
*Coleosanthus melissaefolius* Greene  
*Coleosanthus reniformis* (Gray) Rydberg
- californica* (Torrey & Gray) Gray var. *reniformis* (Gray) Torrey & Gray = *Brickellia californica* (Torrey & Gray) Gray
- +**chenopodina** (Greene) Robinson [M&H; W&S]  
*Coleosanthus chenopodinus* Greene
- chlorolepis* (Wooton & Standley) Shinnars = *Brickellia eupatorioides* (Linnaeus) Shinnars var. *chlorolepis* (Wooton & Standley) B. Turner
- coulteri** Gray var. **brachiata** (Gray) B.L. Turner [Spellenberg et al. 1993]  
*Brickellia brachiata* Gray
- coulteri** Gray var. **coulteri** [FNM I]
- eupatorioides** (Linnaeus) Shinnars var. **chlorolepis** (Wooton & Standley) B. Turner [M&H; W&S]  
false boneset  
*Brickellia chlorolepis* (Wooton & Standley) Shinnars  
*Kuhnia chlorolepis* Wooton & Standley  
*Kuhnia rosmarinifolia* Ventenat var. *chlorolepis* (Wooton & Standley) Blake  
*Kuhnia eupatorioides* Linnaeus var. *chlorolepis* (Wooton & Standley) Cronquist
- eupatorioides** (Linnaeus) Shinnars var. **corymbulosa** (Torrey & Gray) Shinnars [Turner 1989]  
false boneset  
*Kuhnia eupatorioides* Linnaeus var. *corymbulosa* Torrey & Gray
- fendleri* Gray = *Brickelliastrum fendleri* (Gray) King & H.E. Robinson
- floribunda** Gray [M&H; W&S]  
*Coleosanthus floribundus* (Gray) Kuntze
- grandiflora** (Hooker) Nuttall [M&H; W&S]  
*Brickellia grandiflora* (Hooker) Nuttall var. *petiolaris* Gray  
*Coleosanthus grandiflorus* (Hooker) Kuntze  
*Coleosanthus petiolaris* (Gray) Greene  
*Coleosanthus umbellatus* Greene  
*Eupatorium grandiflorum* Hooker
- grandiflora* (Hooker) Nuttall var. *petiolaris* Gray = *Brickellia grandiflora* (Hooker) Nuttall
- laciniata** Gray [M&H; W&S]  
cut-leaf brickell-bush  
*Coleosanthus laciniatus* (Gray) Kuntze
- lemmonii** Gray var. **conduplicata** (B.L. Robinson) B.L. Turner [Scott 2006]  
*Brickellia betonicifolia* Gray var. *conduplicata* B.L. Robinson
- lemmonii** Gray var. **lemmonii** [M&H; W&S]  
*Brickellia lemmonii* Gray var. *wootonii* (Greene) Robinson

- Coleosanthus wootonii* Greene  
*lemmonii* Gray var. *wootonii* (Greene) Robinson = *Brickellia lemmonii* Gray var. *lemmonii* [Turner 1990]  
*linifolia* D.C. Eaton = *Brickellia oblongifolia* Nuttall var. *linifolia* (D.C. Eaton) Robinson  
***microphylla*** (Nuttall) Gray var. ***scabra*** Gray [M&H; W&S]  
*Brickellia scabra* (Gray) A. Nelson  
*Coleosanthus scaber* Greene  
***oblongifolia*** Nuttall var. ***linifolia*** (D.C. Eaton) Robinson [M&H; W&S]  
*Brickellia linifolia* D.C. Eaton  
*Coleosanthus humilis* Greene  
*Coleosanthus linifolius* (D.C. Eaton) Kuntze  
***parvula*** Gray [Allred 1999]  
***rusbyi*** Gray [M&H; W&S]  
*Coleosanthus rusbyi* (Gray) Kuntze  
*scabra* (Gray) A. Nelson = *Brickellia microphylla* (Nuttall) Gray var. *scabra* Gray  
***simplex*** Gray [M&H]  
*squamulosa* Gray = *Asanthus squamulosus* (Gray) King & H.E. Robinson  
***venosa*** (Wooton & Standley) Robinson [M&H; W&S]  
*Coleosanthus venosus* Wooton & Standley  
***veronicifolia*** (Kunth) Gray [Cockman 1996]  
***Brickelliastrum*** brickell-bush  
***fendleri*** (Gray) King & H.E. Robinson [M&H; W&S]  
*Brickellia fendleri* Gray  
*Coleosanthus ambigens* Greene  
*Bulbostylis californica* Torrey & Gray = *Brickellia californica* (Torrey & Gray) Gray  
*Burrielia gracilis* A.P. de Candolle = *Baeria gracilis* (A.P. de Candolle) Greene  
*lanosa* Gray = *Eriophyllum lanosum* (Gray) Gray  
*Cacalia decomposita* Gray = *Psacalium decompositum* (Gray) H.E. Robinson & Bretting  
*Calais lindleyi* A.P. de Candolle = *Uropappus lindleyi* (A.P. de Candolle) Nuttall  
*Calliopsis cardaminifolia* A.P. de Candolle = *Coreopsis tinctoria* Nuttall  
***Calycoseris*** tackstem  
***wrightii*** Gray [M&H; W&S]  
***Calyptocarpus*** straggler-daisy  
***vialis*** Lessing [Spellenberg et al. 1986]  
***Carduus*** thistle  
 Carson National Forest, USDA Forest Service. 2000. New plant distribution records. The New Mexico Botanist 15:7. [*Carduus acanthoides*]  
 Cronquist, A. 1994. *Carduus*, p. 388. IN: Intermountain Flora, vol. 5. New York Botanical Garden.  
***acanthoides*** Linnaeus [Carson National Forest 2000]  
*acaulescens* (Gray) Rydberg = *Cirsium scariosum* Nuttall var. *americanum* (Gray) Keil  
*arizonicus* (Gray) Greene = *Cirsium arizonicum* (Gray) Petrak var. *arizonicum*  
*bipinnatus* (Eastwood) Heller = *Cirsium arizonicum* (Gray) Petrak var. *bipinnatum* (Eastwood) Keil  
*coloradensis* Rydberg = *Cirsium scariosum* Nuttall var. *coloradense* (Rydberg) Keil  
*drummondii* (Torrey & Gray) Coville s.s. [= *Cirsium drummondii* Torrey & Gray] : Not occurring in NM [Keil 2006].  
*drummondii* (Torrey & Gray) Coville var. *acaulescens* (Gray) Coville = *Cirsium scariosum* Nuttall var. *americanum* (Gray) Keil  
*gilensis* Wooton & Standley = *Cirsium parryi* (Gray) Petrak  
*grahamii* (Gray) Greene = *Cirsium grahamii* Gray  
*inornatus* Wooton & Standley = *Cirsium parryi* (Gray) Petrak  
*marianus* Linnaeus = *Silybum marianum* (Linnaeus) Gaertner  
*megacephalus* (Gray) A. Nelson = *Cirsium undulatum* (Nuttall) Sprengel  
*neomexicanus* (Gray) Greene = *Cirsium neomexicanum* Gray  
***nutans*** Linnaeus [M&H]  
 musk thistle  
*Carduus thoermeri* Weinmann  
*ochrocentrus* (Gray) Greene = *Cirsium ochrocentrum* Gray  
*pallidus* Wooton & Standley = *Cirsium parryi* (Gray) Petrak



- parryi* (Gray) Greene = *Cirsium parryi* (Gray) Petrak  
*pulchellus* Greene = *Cirsium arizonicum* (Gray) Petrak var. *bipinnatum* (Eastwood) Keil  
*thoermeri* Weinmann = *Carduus nutans* Linnaeus  
*tracyi* Rydberg = *Cirsium tracyi* (Rydberg) Petrak  
*undulatus* Nuttall = *Cirsium undulatum* (Nuttall) Sprengel  
*undulatus* Nuttall var. *canescens* (Nuttall) Porter [= *Cirsium canescens* Nuttall] : Excluded  
 from NM by Keil (2006); awaits verification  
*vinaceus* Wooton & Standley = *Cirsium vinaceum* (Wooton & Standley) Wooton &  
 Standley  
*vulgaris* Savi = *Cirsium vulgare* (Savi) Tenore  
*wrightii* (Gray) Heller = *Cirsium wrightii* Gray
- Carminatia** plumeweed  
*tenuiflora* A.P. de Candolle [M&H; W&S]
- Carphochaete** bristlehead  
 Turner, B.L. 1988. Taxonomy of *Carphochaete* (Asteraceae, Eupatorieae). *Phytologia* 64: 145-162.  
*bigelovii* Gray [M&H; W&S]
- Carthamus** safflower  
 \**tinctorius* Linnaeus [M&H]
- Centaurea** knapweed, starthistle  
 Allred, K.W. & R. Lee. 1999. Knapweeds, starthistles, and basketflowers of New Mexico. *The New Mexico Botanist* 10:1-4.  
 Keil, D.J. & J. Ochsmann. 2006. *Centaurea*, p. 181-194. IN: *Flora of North America*, vol. 19. Oxford University Press, New York.  
*americana* Nuttall = *Plectocephalus americanus* (Nuttall) D. Don  
*biebersteinii* A.P. de Candolle = *Centaurea stoebe* Linnaeus subsp. *micranthos* (S.G. Gmelin ex Gugler) Hayek  
 \**calcitrapa* Linnaeus [Allred & Lee 1999; M&H]  
 purple starthistle  
 \**cyanus* Linnaeus [Allred & Lee 1999]  
 cornflower, bachelor's buttons  
 \**diffusa* Lamarck [Allred & Lee 1999]  
 diffuse knapweed  
*maculosa* Lamarck subsp. *micranthos* S.G. Gmelin ex Gugler = *Centaurea stoebe* Linnaeus  
 subsp. *micranthos* (S.G. Gmelin ex Gugler) Hayek  
 \**melitensis* Linnaeus [Allred & Lee 1999; M&H]  
 malta starthistle  
*picris* Pallas ex Willdenow = *Rhaponticum repens* (Linnaeus) Hidalgo  
*repens* Linnaeus = *Rhaponticum repens* (Linnaeus) Hidalgo  
*rothrockii* Greenman = *Plectocephalus rothrockii* (Greenman) D.J.N. Hind  
 \**solstitialis* Linnaeus [Allred & Lee 1999]  
 yellow starthistle  
 \**stoebe* Linnaeus subsp. *micranthos* (S.G. Gmelin ex Gugler) Hayek [Allred & Lee  
 1999; M&H]  
 spotted knapweed  
*Acosta maculosa* of American authors  
*Centaurea biebersteinii* A.P. de Candolle  
*Centaurea maculosa* Lamarck subsp. *micranthos* S.G. Gmelin ex Gugler  
*Centaureidium drummondii* Torrey & Gray = *Xanthisma texanum* A.P. de Candolle subsp.  
*drummondii* (Torrey & Gray) Semple  
*Cephalobombix neomexicana* (Gray) Rydberg = *Picradeniopsis multiflora* (Hooker & Arnott)  
 B.G. Baldwin  
*Cephalophora scaposa* A.P. de Candolle = *Tetraneuris scaposa* (A.P. de Candolle) Greene
- Chaenactis** chaenactis  
 Worthington, R.D. 2001. New plant distribution records. *The New Mexico Botanist* 20:8. [*Chaenactis carphoclinia*]  
*carphoclinia* Gray [Worthington 2001]  
*douglasii* (Hooker) Hooker & Arnott [M&H; W&S]  
 dusty maiden  
*Hymenopappus douglasii* Hooker

*scaposa* Eastwood = *Chamaechaenactis scaposa* (Eastwood) Rydberg

*stevioides* Hooker & Arnott [M&H; W&S]

***Chaetopappa*** sand-aster

Nesom, G.L. 1988. Synopsis of *Chaetopappa* (Compositae- Astereae) with a new species and the inclusion of *Leucelene*. *Phytologia* 64(6):448-456.

Shinners, L.H. 1946. Revision of the genus *Chaetopappa* A.P. de Candolle *Wrightia* 1: 63-81.

*elegans* Soreng & Spellenberg = *Inonactis elegans* (Soreng & Spellenberg) Nesom

*ericoides* (Torrey) Nesom [M&H; W&S]

*Aster arenosus* (Heller) Blake

*Aster hirtifolius* Blake

*Aster leucelene* Blake

*Inula ericoides* Torrey

*Leucelene arenosus* Heller

*Leucelene ericoides* (Torrey) Greene

*hersheyi* Blake [Shinners 1946]

***Chamaechaenactis*** chaenactis

Heil, K.D., S.L. O'Kane, & A. Clifford. 2002. Additions to the flora of New Mexico from the San Juan Basin Flora project. *The New Mexico Botanist* 24:1-4. [*Chamaechaenactis scaposa*]

*scaposa* (Eastwood) Rydberg var. *scaposa* [Heil et al. 2002]

*Actinella carnosa* A. Nelson

*Chaenactis scaposa* Eastwood

***Chaptalia*** silverpuff

Nesom, G.L. 1995. Revision of *Chaptalia* (Asteraceae: Mutisieae) from North America and continental Central America. *Phytologia* 78:153-188.

*alsophila* Greene = *Leibnitzia lyrata* (Schultz-Bipontinus) G.L. Nesom

*texana* Greene [Nesom 1995]

***Chloracantha*** devilweed

Nesom, G.L., Y. Suh, D.R. Morgan, S.D. Sundberg, & B.B. Simpson. 1991. *Chloracantha*, a new genus of North American Astereae (Asteraceae). *Phytologia* 70:371-380.

*spinosa* (Bentham) Nesom [M&H; W&S]

*Aster spinosus* Bentham

*Leucosyris spinosus* (Bentham) Greene

*Chondrilla pauciflora* D. Don = *Pyrrochloa pauciflora* (D. Don) A.P. de Candolle

***Chrysactinia*** damianita

*mexicana* Gray [M&H; W&S]

*Pectis taxifolia* Greene

*Chrysanthemum incanum* Thunberg = *Pentzia incana* (Thunberg) O. Kuntze

*leucanthemum* Linnaeus = *Leucanthemum vulgare* Lamarck

*leucanthemum* Linnaeus var. *pinatifidum* Lecoq & Lamotte = *Leucanthemum vulgare*. Lamarck

*Chrysocoma graminifolia* Linnaeus = *Euthamia graminifolia* (Linnaeus) Nuttall

*graveolens* Nuttall = *Ericameria nauseosa* (Pallas ex Pursh) Nesom & Baird var. *graveolens* (Nuttall) Reveal & Schuyler

*Chrysoma loricifolia* (Gray) Greene = *Ericameria loricifolia* (Gray) Shinners

*pumila* Nuttall = *Petradoria pumila* (Nuttall) Greene

*Chrysopsis amplifolia* Rydberg = *Heterotheca fulcrata* (E.L. Greene) Shinners var. *amplifolia* (Rydberg) Semple

*angustifolia* Rydberg = *Heterotheca villosa* (Pursh) Shinners var. *angustifolia* (Rydberg) Harms

*berlandiera* Greene = *Heterotheca canescens* (A.P. de Candolle) Shinners

*canescens* (A.P. de Candolle) Torrey & Gray = *Heterotheca canescens* (A.P. de Candolle) Shinners

*canescens* (A.P. de Candolle) Torrey & Gray var. *nana* A.Gray = *Heterotheca villosa* (Pursh) Shinners var. *nana* (A. Gray) Semple

*cryptocephala* Wootton & Standley = *Heterotheca fulcrata* (Greene) Shinners

*foliosa* Nuttall = *Heterotheca villosa* (Pursh) Shinners var. *foliosa* (Nuttall) Harms

*fulcrata* Greene = *Heterotheca fulcrata* (Greene) Shinners

*hirsutissima* Greene = *Heterotheca villosa* (Pursh) Shinners var. *minor* (Hooker) Semple

*hispida* (Hooker) A.P. de Candolle = *Heterotheca villosa* (Pursh) Shinners var. *minor* (Hooker) Semple

- hispid* (Hooker) A.P. de Candolle var. *stenophylla* A. Gray = *Heterotheca stenophylla* (A. Gray) Shinnery
- horrida* Rydberg = *Heterotheca villosa* (Pursh) Shinnery var. *nana* (A. Gray) Semple
- nitidula* Wootton & Standley = *Heterotheca fulcrata* (Greene) Shinnery var. *amplifolia* (Rydberg) Semple
- senilis* Wootton & Standley = *Heterotheca fulcrata* (Greene) Shinnery var. *senilis* (Wootton & Standley) Semple
- pedunculata* Greene = *Heterotheca villosa* (Pursh) Shinnery var. *pedunculata* (Greene) Harms ex Semple
- pumila* Greene = *Heterotheca pumila* (Greene) Semple
- viscida* (Gray) Greene = *Heterotheca viscida* (Gray) Harms
- villosa* (Pursh) Nuttall ex Hooker = *Heterotheca villosa* (Pursh) Shinnery
- villosa* (Pursh) Nuttall ex Hooker var. *canescens* (A.P. de Candolle) Gray = *Heterotheca canescens* (A.P. de Candolle) Shinnery
- villosa* (Pursh) Nuttall ex A.P. de Candolle var. *minor* Hooker = *Heterotheca villosa* (Pursh) Shinnery var. *minor* (Hooker) Semple
- villosa* (Pursh) Nuttall ex A.P. de Candolle var. *scabra* Eastwood = *Heterotheca villosa* (Pursh) Shinnery var. *scabra* (A. Eastwood) Semple
- villosa* (Pursh) Nuttall ex A.P. de Candolle var. *viscida* A. Gray = *Heterotheca viscida* (Gray) Harms
- Chrysothamnus** rabbitbrush
- Anderson, L.C. 1995. The *Chrysothamnus-Ericameria* connection (Asteraceae). *Great Basin Nat.* 55(1):84-88.
- Nesom, G.L. and G.I. Baird. 1993. Completion of *Ericameria* (Asteraceae: Astereae), diminution of *Chrysothamnus*. *Phytologia* 75(1):74-93.
- Urbatsch, L.E., R.P. Roberts, & K.M. Neubig. 2006. *Chrysothamnus*, p. 187-193. IN: *Flora of North America*, vol. 20. Oxford University Press, New York.
- affinis* A. Nelson = *Ericameria parryi* (A. Gray) Nesom & Baird var. *affinis* (A. Nelson) Nesom & Baird
- appendiculatus* (Eastwood) Heller = *Ericameria nauseosa* (Pallas ex Pursh) Nesom & Baird var. *latisquamea* (A. Gray) Nesom & Baird
- baileyi* Wootton & Standley = *Lorandersonia baileyi* (Wootton & Standley) Urbatsch, Roberts & Neubig
- bakeri* Greene = *Chrysothamnus vaseyi* (Gray) Greene
- bigelovii* (Gray) Greene = *Ericameria nauseosa* (Pallas ex Pursh) Nesom & Baird var. *bigelovii* (A. Gray) Nesom & Baird
- confinis* Greene = *Chrysothamnus nauseosus* (Pallas ex Pursh) Britton var. *graveolens* (Nuttall) Reveal & Schuyler
- depressus** Nuttall [M&H; W&S]  
*Ericameria depressa* (Nuttall) L.C. Anderson  
*elati* Standley = *Lorandersonia pulchella* (Gray) Urbatsch, Roberts & Neubig  
*elegans* Greene = *Chrysothamnus viscidiflorus* (Hooker) Nuttall var. *lanceolatus* (Nuttall) Greene
- filifolius* Rydberg = *Chrysothamnus greenii* (Gray) Greene
- formosus* Greene = *Ericameria nauseosa* (Pallas ex Pursh) Nesom & Baird var. *speciosa* (Nuttall) Nesom & Baird
- glaucus* A. Nelson = *Chrysothamnus viscidiflorus* (Hooker) Nuttall var. *viscidiflorus*
- graveolens* (Nuttall) Greene = *Ericameria nauseosa* (Pallas ex Pursh) Nesom & Baird var. *graveolens* (Nuttall) Reveal & Schuyler
- greenii** (Gray) Greene [M&H; W&S]  
*Bigelovia greenii* Gray  
*Chrysothamnus filifolius* Rydberg  
*Chrysothamnus greenii* (Gray) Greene subsp. *filifolius* (Rydberg) Hall & Clements  
*Ericameria filifolia* (Rydberg) L.C. Anderson  
*greenii* (Gray) Greene subsp. *filifolius* (Rydberg) Hall & Clements = *Chrysothamnus greenii* (Gray) Greene
- greenii* (Gray) Greene subsp. *greenii* = *Chrysothamnus greenii* (Gray) Greene
- howardii* (Parry ex A. Gray) Greene = *Ericameria parryi* (A. Gray) Nesom & Baird var. *howardii* (Parry ex A. Gray) Nesom & Baird

- lanceolatus* Nuttall = *Chrysothamnus viscidiflorus* (Hooker) Nuttall var. *lanceolatus* (Nuttall) Greene
- latisquameus* (Gray) Greene = *Ericameria nauseosa* (Pallas ex Pursh) Nesom & Baird var. *latisquamea* (A. Gray) Nesom & Baird
- linifolius* Greene = *Lorandersonia linifolia* (Greene) Urbatsch, Roberts & Neubig
- nauseosus* (Pallas ex Pursh) Britton subsp. *arenarius* Anderson = *Ericameria nauseosa* (Pallas ex Pursh) Nesom & Baird var. *arenaria* (L.C. Anderson) Nesom & Baird
- nauseosus* (Pallas ex Pursh) Britton subsp. *bigelovii* (Gray) Hall & Clements = *Ericameria nauseosa* (Pallas ex Pursh) Nesom & Baird var. *bigelovii* (A. Gray) Nesom & Baird
- nauseosus* (Pallas ex Pursh) Britton subsp. *consimilis* (Greene) Hall & Clements = *Ericameria nauseosa* (Pallas ex Pursh) Nesom & Baird var. *oreophila* (Greene) Nesom & Baird
- nauseosus* (Pallas ex Pursh) Britton subsp. *gnaphalodes* (Greene) Hall = *Ericameria nauseosa* (Pallas ex Pursh) Nesom & Baird var. *hololeuca* (A. Gray) Nesom & Baird
- nauseosus* (Pallas ex Pursh) Britton subsp. *graveolens* (Nuttall) Hall & Clements = *Ericameria nauseosa* (Pallas ex Pursh) Nesom & Baird var. *graveolens* (Nuttall) Reveal & Schuyler
- nauseosus* (Pallas ex Pursh) Britton subsp. *junceus* (Greene) Hall = *Ericameria nauseosa* (Pallas ex Pursh) Nesom & Baird var. *juncea* (Greene) Nesom & Baird
- nauseosus* (Pallas ex Pursh) Britton subsp. *latisquameus* (Gray) H. & S. = *Ericameria nauseosa* (Pallas ex Pursh) Nesom & Baird var. *latisquamea* (A. Gray) Nesom & Baird
- nauseosus* (Pallas ex Pursh) Britton subsp. *nauseosus* = *Ericameria nauseosa* (Pallas ex Pursh) Nesom & Baird var. *nauseosa*
- nauseosus* (Pallas ex Pursh) Britton subsp. *nitidus* Anderson = *Ericameria nauseosa* (Pallas ex Pursh) Nesom & Baird var. *nitida* (L.C. Anderson) Nesom & Baird
- nauseosus* (Pallas ex Pursh) Britton subsp. *pinifolius* (Greene) Hall & Clements = *Ericameria nauseosa* (Pallas ex Pursh) Nesom & Baird var. *oreophila* (A. Nelson) Nesom & Baird
- nauseosus* (Pallas ex Pursh) Britton subsp. *speciosus* (Nuttall) Hall & Clements = *Ericameria nauseosa* (Pallas ex Pursh) Nesom & Baird var. *speciosa* (Nuttall) Nesom & Baird
- nauseosus* (Pallas ex Pursh) Britton subsp. *texensis* Anderson = *Ericameria nauseosa* (Pallas ex Pursh) Nesom & Baird var. *texensis* (L.C. Anderson) Nesom & Baird
- nauseosus* (Pallas ex Pursh) Britton subsp. *typicus* Hall & Clements = *Ericameria nauseosa* (Pallas ex Pursh) Nesom & Baird var. *nauseosa*
- newberryi* Rydberg = *Ericameria parryi* (A. Gray) Nesom & Baird var. *attenuata* (M.E. Jones) Nesom & Baird
- oreophilus* A. Nelson = *Ericameria nauseosa* (Pallas ex Pursh) Nesom & Baird var. *oreophila* (A. Nelson) Nesom & Baird
- oreophilus* A. Nelson var. *artus* A. Nelson = *Ericameria nauseosa* (Pallas ex Pursh) Nesom & Baird var. *oreophila* (A. Nelson) Nesom & Baird
- parryi* (Gray) Greene subsp. *affinis* (A. Nelson) L.C. Anderson = *Ericameria parryi* (A. Gray) Nesom & Baird var. *affinis* (A. Nelson) Nesom & Baird
- parryi* (Gray) Greene subsp. *attenuatus* (M.E. Jones) Hall & Clements = *Ericameria parryi* (A. Gray) Nesom & Baird var. *attenuata* (M.E. Jones) Nesom & Baird
- parryi* (Gray) Greene subsp. *howardii* (Parry ex A. Gray) Hall & Clements = *Ericameria parryi* (A. Gray) Nesom & Baird var. *howardii* (Parry ex A. Gray) Nesom & Baird
- parryi* (Gray) Greene subsp. *parryi* = *Ericameria parryi* (A. Gray) Nesom & Baird var. *parryi*
- pinifolius* Greene = *Ericameria nauseosa* (Pallas ex Pursh) Nesom & Baird var. *oreophila* (A. Nelson) Nesom & Baird
- pulchellus* (Gray) Greene subsp. *baileyi* (Wooton & Standley) Hall & Clements = *Lorandersonia baileyi* (Wooton & Standley) Rubatsch, Roberts & Neubig
- pulchellus* (Gray) Greene = *Lorandersonia pulchella* (Gray) Urbatsch, Roberts & Neubig

- pulchellus* (Gray) Greene subsp. *elatior* (Standley) Hall & Clements = *Lorandersonia pulchella* (Gray) Urbatsch, Roberts & Neubig
- pulcherrimus* A. Nelson = *Ericameria nauseosa* (Pallas ex Pursh) Nesom & Baird subsp. *nauseosa* var. *speciosa* (Nuttall) Nesom & Baird
- serrulatus* Rydberg = *Chrysothamnus viscidiflorus* (Hooker) Nuttall var. *viscidiflorus*
- spathulatus* L.C. Anderson = *Lorandersonia spathulata* (L.C. Anderson) Urbatsch, Roberts & Neubig
- speciosus* Nuttall = *Ericameria nauseosa* (Pallas ex Pursh) Nesom & Baird var. *speciosa* (Nuttall) Nesom & Baird
- vaseyi** (Gray) Greene [Anderson 1986; M&H; W&S]  
*Bigelovia vaseyi* Gray  
*Chrysothamnus bakeri* Greene  
*Ericameria vaseyi* (A. Gray) L.C. Anderson
- viscidiflorus* (Hooker) Nuttall = *Chrysothamnus viscidiflorus* (Hooker) Nuttall var. *viscidiflorus*
- viscidiflorus* (Hooker) Nuttall subsp. *elegans* (Greene) Hall & Clements = *Chrysothamnus viscidiflorus* (Hooker) Nuttall var. *lanceolatus* (Nuttall) Greene
- viscidiflorus** (Hooker) Nuttall var. **lanceolatus** (Nuttall) Greene [M&H; W&S]  
*Chrysothamnus elegans* Greene  
*Chrysothamnus lanceolatus* Nuttall  
*Chrysothamnus viscidiflorus* (Hooker) Nuttall subsp. *elegans* (Greene) Hall & Clements  
*Chrysothamnus viscidiflorus* (Hooker) Nuttall subsp. *lanceolatus* (Nuttall) Hall & Clements  
*Ericameria viscidiflora* (Hooker) L.C. Anderson subsp. *lanceolata* (Nuttall) L.C. Anderson
- viscidiflorus* (Hooker) Nuttall subsp. *lanceolatus* (Nuttall) Hall & Clements = *Chrysothamnus viscidiflorus* (Hooker) Nuttall var. *lanceolatus* (Nuttall) Greene
- viscidiflorus* (Hooker) Nuttall subsp. *linifolius* (Greene) Hall & Clements = *Lorandersonia linifolia* (Greene) Urbatsch, Roberts & Neubig
- viscidiflorus* (Nuttall) Hooker subsp. *ludens* Shinnery = *Lorandersonia spathulata* (L.C. Anderson) Urbatsch, Roberts & Neubig
- viscidiflorus* (Hooker) Nuttall subsp. *stenophyllus* (Gray) Hall & Clements = *Chrysothamnus viscidiflorus* (Hooker) Nuttall var. *viscidiflorus*
- viscidiflorus** (Hooker) Nuttall var. **viscidiflorus** [M&H; W&S]  
*Bigelovia douglasii* Gray var. *stenophylla* Gray  
*Chrysothamnus glaucus* A. Nelson  
*Chrysothamnus serrulatus* Rydberg  
*Chrysothamnus stenophyllus* (Gray) Greene  
*Chrysothamnus viscidiflorus* (Hooker) Nuttall subsp. *stenophyllus* (Gray) Hall & Clements  
*Crintaria viscidiflora* Hooker  
*Ericameria viscidiflora* (Hooker) L.C. Anderson

**Cichorium** chicory\***intybus** Linnaeus [M&H; W&S]*Cineraria salicifolius* Kunth = *Barkleyanthus salicifolius* (Kunth) H. Robinson & Brettell**Cirsium** thistle

- Allred, K.W. 2005. Plant distribution reports (*Cirsium arizonicum rothrockii*, *Gypsophila scorzonifolia*, *Rumex stenophyllus*, *Paronychia pulvinata*). The New Mexico Botanist 33:7.
- Barlow-Irick, P. 1999. *Cirsium ochrocentrum* subsp. *martinii* (Asteraceae), a new subspecies of the Santa Fe thistle from the Gila River region of Arizona and New Mexico. Novon 9:318-322.
- Heil, K.D., S.L. O'Kane, & A. Clifford. 2002. Additions to the flora of New Mexico from the San Juan Basin Flora project. The New Mexico Botanist 24:1-4. [*Cirsium chuskaense*]
- Keil, D.J. 2004. New taxa and new combinations in North American *Cirsium* (Asteraceae: Cardueae). Sida 21(1):207-219.
- Keil, D.J. 2006. *Cirsium*, p. 95-164. IN: Flora of North America, vol. 19. Oxford University Press.
- Moore, R.J. and C. Frankton. 1973. The *Cirsium arizonicum* complex of the southwestern United States. Can. J. Bot. 52:543-551.
- Schaack, C.G. and G.A. Goodwin. 1990. A new subspecies of *Cirsium parryi* (Asteraceae: Cardueae) from Arizona and comments on the *Cirsium parryi* complex. Madroño 37(4):299304.

- Worthington, R.D. 2004. Plant distribution reports. The New Mexico Botanist 31:2. [*Cirsium texanum*]  
*acaulescens* (Gray) K. Schumann = *Cirsium scariosum* Nuttall var. *americanum*  
**arizonicum** (Gray) Petrak var. **arizonicum** [Keil 2006; M&H; W&S]  
*Carduus arizonicus* (Gray) Greene  
*Cnicus arizonicus* Gray  
**arizonicum** (Gray) Petrak var. **bipinnatum** (Eastwood) Keil [Keil 2006; M&H; W&S]  
*Carduus bipinnatus* (Eastwood) Heller  
*Carduus pulchellus* Greene  
*Cirsium calcareum* (M.E. Jones) Wooton & Standley  
*Cirsium bipinnatum* (Eastwood) Rydberg  
*Cirsium pulchellum* (Greene) Wooton & Standley  
*Cnicus drummondii* Gray var. *bipinnatus* Eastwood  
**arizonicum** (Gray) Petrak var. **chellyense** (Moore & Frankton) Keil [Keil 2006; Heil  
et al. 2002]  
*Cirsium chellyense* Moore & Frankton  
*Cirsium chuskaense* R.J. Moore  
**arizonicum** (Gray) Petrak var. **rothrockii** (A. Gray) Keil [Allred 2005; Keil 2006]  
*Cnicus rothrockii* A. Gray  
**\*arvense** (Linnaeus) Scopoli [Keil 2006; M&H]  
Canadian thistle  
*Serratula arvensis* Linnaeus  
*bipinnatum* (Eastwood) Rydberg = *Cirsium arizonicum* (Gray) Petrak var. *bipinnatum*  
(Eastwood) Keil  
*calcareum* (M.E. Jones) Wooton & Standley = *Cirsium arizonicum* (Gray) Petrak var.  
*bipinnatum* (Eastwood) Keil  
*canescens* Nuttall : Reported by M&H, but excluded from NM by Keil (2006); awaits  
verification.  
*Carduus undulatus* Nuttall var. *canescens* (Nuttall) Porter  
*chellyense* Moore & Frankton = *Cirsium arizonicum* (Gray) Petrak var. *chellyense* (Moore  
& Frankton) Keil  
*chuskaense* R.J. Moore = *Cirsium arizonicum* (Gray) Petrak var. *chellyense* (Moore &  
Frankton) Keil  
*coloradense* (Rydberg) Cockerell = *Cirsium scariosum* Nuttall var. *coloradense* (Rydberg)  
Keil  
*drummondii* Torrey & Gray var. *acaulescens* (Gray) Macbride = *Cirsium scariosum* Nuttall  
var. *americanum*  
*drummondii* Torrey & Gray s.s. : Not occurring in NM [Keil 2006].  
*Carduus drummondii* (Torrey & Gray) Coville  
**eatonii** (A. Gray) B.L. Robinson var. **eriocephalum** (A. Gray) Keil [Keil 2006;  
Spellenberg et al. 1986]  
*Carduus scopulorum* Greene  
*Cirsium eriocephalum* A. Gray  
*Cirsium scopulorum* (Greene) Cockerell ex Daniels  
*eriocephalum* A. Gray = *Cirsium eatonii* (A. Gray) B.L. Robinson var. *eriocephalum* (A.  
Gray) Keil  
*gilense* (Wooton & Standley) Wooton & Standley = *Cirsium parryi* (Gray) Petrak  
**grahamii** Gray [Keil 2006; M&H; W&S]  
*Carduus grahami* (Gray) Greene  
*Cnicus grahami* (Gray) Gray  
*inornatum* (Wooton & Standley) Wooton & Standley = *Cirsium parryi* (Gray) Petrak  
*megacephalum* (Gray) Cockerell = *Cirsium undulatum* (Nuttall) Sprengel  
**neomexicanum** Gray [Keil 2006; M&H; W&S]  
*Carduus neomexicanus* (Gray) Greene  
*Cnicus neomexicanus* (Gray) Gray  
**ochrocentrum** Gray var. **ochrocentrum** [Keil 2006; M&H; W&S]  
*Carduus ochrocentrus* (Gray) Greene  
*Cnicus ochrocentrus* (Gray) Gray  
**ochrocentrum** Gray var. **martinii** (P. Barlow-Irick) Keil [Barlow-Irick 1999; Keil  
2006]  
*Cirsium ochrocentrum* Gray subsp. *martinii* P. Barlow-Irick

- ochrocentrum* Gray subsp. *martinii* P. Barlow-Irick = *Cirsium ochrocentrum* Gray var. *martinii* (P. Barlow-Irick) Keil
- pallidum* (Wooton & Standley) Wooton & Standley = *Cirsium parryi* (Gray) Petrak
- parryi*** (Gray) Petrak [Keil 2006; M&H; W&S]  
*Carduus gilensis* Wooton & Standley  
*Carduus inornatus* Wooton & Standley  
*Carduus pallidus* Wooton & Standley  
*Carduus parryi* (Gray) Greene  
*Cirsium gilense* (Wooton & Standley) Wooton & Standley  
*Cirsium inornatum* (Wooton & Standley) Wooton & Standley  
*Cnicus parryi* Gray
- perennans* (Greene) Wooton & Standley = *Cirsium wheeleri* (Gray) Petrak
- pulchellum* (Greene) Wooton & Standley = *Cirsium arizonicum* (Gray) Petrak var. *bipinnatum* (Eastwood) Keil
- scariosum* Nuttall var. *americanum* : Not occurring in NM [Keil 2006].  
*Carduus acaulescens* (Gray) Rydberg  
*Carduus drummondii* (Torrey & Gray) Coville var. *acaulescens* (Gray) Coville  
*Cirsium acaulescens* (Gray) K. Schumann  
*Cirsium drummondii* Torrey & Gray var. *acaulescens* (Gray) Macbride
- scariosum*** Nuttall var. ***coloradense*** (Rydberg) Keil [Keil 2006; M&H; W&S]  
*Carduus coloradensis* Rydberg  
*Cirsium coloradense* (Rydberg) Cockerell ex Daniels
- scariosum* Nuttall var. *scariosum* : Not occurring in NM [Keil 2006]; our plants are referred to *Cirsium scariosum* Nuttall var. *coloradense* (Rydberg) Keil
- scopulorum* (Greene) Cockerell ex Daniels = *Cirsium eatonii* (A. Gray) B.L. Robinson var. *eriocephalum* (A. Gray) Keil
- texanum*** Buckley [Keil 2006; Worthington 2004]
- tracyi*** (Rydberg) Petrak [Keil 2006]  
*Carduus tracyi* Rydberg
- undulatum*** (Nuttall) Sprengel [Keil 2006; M&H; W&S]  
*Carduus megacephalus* (Gray) A. Nelson  
*Carduus undulatus* Nuttall  
*Cirsium megacephalum* (Gray) Cockerell  
*Cnicus undulatus* (Nuttall) Gray  
*Cnicus undulatus* (Nuttall) Gray var. *megacephalus* Gray
- +*vinaceum*** (Wooton & Standley) Wooton & Standley [Keil 2006; M&H; W&S]  
 Sacramento Mountains thistle  
*Carduus vinaceus* Wooton & Standley
- \**vulgare*** (Savi) Tenore [Keil 2006; M&H]  
 bull thistle  
*Carduus vulgaris* Savi  
*Cirsium lanceolatum* (Linnaeus) Scopoli
- wheeleri*** (Gray) Petrak [Keil 2006; M&H; W&S]  
*Cirsium perennans* (Greene) Wooton & Standley  
*Cnicus wheeleri* Gray
- wrightii*** Gray [Keil 2006; M&H; W&S]  
*Carduus wrightii* (Gray) Heller  
*Cnicus wrightii* (Gray) Gray
- Clappia suaedifolia* sensu W&S, not Gray = *Pseudoclappia arenaria* Rydberg
- Clavigera brachyphylla* A. Gray = *Brickellia brachyphylla* (A. Gray)
- Cnicus arizonicus* Gray = *Cirsium arizonicum* (Gray) Petrak var. *arizonicum*  
*benedictus* Linnaeus : Reported as expected by M&H; awaits verification.
- drummondii* Gray var. *bipinnatus* Eastwood = *Cirsium arizonicum* (Gray) Petrak var. *bipinnatum* (Eastwood) Keil
- grahami* (Gray) Gray = *Cirsium grahamii* Gray
- neomexicanus* (Gray) Gray = *Cirsium neomexicanum* Gray
- ochrocentrus* (Gray) Gray = *Cirsium ochrocentrum* Gray
- parryi* Gray = *Cirsium parryi* (Gray) Petrak
- rothrockii* A. Gray = *Cirsium arizonicum* (Gray) Petrak var. *rothrockii* (A. Gray) Keil

*undulatus* (Nuttall) Gray = *Cirsium undulatum* (Nuttall) Sprengel  
*undulatus* (Nuttall) Gray var. *megacephalus* Gray = *Cirsium undulatum* (Nuttall) Sprengel  
*wheeleri* Gray = *Cirsium wheeleri* (Gray) Petrak  
*wrightii* (Gray) Gray = *Cirsium wrightii* Gray

*Coelestina corymbosa* A.P. de Candolle = *Ageratum corymbosum* Zuccarini

*sclerophylla* Wooton & Standley = *Ageratum corymbosum* Zuccarini

*Coleosanthus ambigens* Greene = *Brickelliastrum fendleri* (Gray) King & H.E. Robinson

*axillaris* Greene = *Brickellia californica* (Torrey & Gray) Gray

*baccharideus* (Gray) Kuntze = *Brickellia baccharidea* Gray

*betonicifolius* (Gray) Kuntze = *Brickellia betonicifolia* Gray

*brachyphyllus* (Gray) Kuntze = *Brickellia brachyphylla* Gray

*chenopodinus* Greene = *Brickellia chenopodina* (Greene) Robins

*floribundus* (Gray) Kuntze = *Brickellia floribunda* Gray

*grandiflorus* (Hooker) Kuntze = *Brickellia grandiflora* (Hooker) Nuttall var. *grandiflora*

*humilis* Greene = *Brickellia oblongifolia* Nuttall var. *linifolia* (D.C. Eaton) Robinson

*laciniatus* (Gray) Kuntze = *Brickellia laciniata* Gray

*linifolius* (D.C. Eaton) Kuntze = *Brickellia oblongifolia* Nuttall var. *linifolia* (D.C. Eaton) Robinson

*melissaeifolius* Greene = *Brickellia californica* (Torrey & Gray) Gray

*modestus* Greene : Belongs in *Brickellia*; status uncertain.

*nepetaefolius* Greene : Status uncertain

*petiolaris* (Gray) Greene = *Brickellia grandiflora* (Hooker) Nuttall var. *petiolaris* Gray

*reniformis* (Gray) Rydberg = *Brickellia californica* (Torrey & Gray) Gray

*rusbyi* (Gray) Kuntze = *Brickellia rusbyi* Gray

*scaber* Greene = *Brickellia microphylla* (Nuttall) Gray var. *scabra* Gray

*squamulosus* (Gray) Kuntze = *Asanthus squamulosus* (Gray) King & H.E. Robinson

*umbellatus* Greene = *Brickellia grandiflora* (Hooker) Nuttall var. *grandiflora*

*venosus* Wooton & Standley = *Brickellia venosa* (Wooton & Standley) Robinson

*wootonii* Greene = *Brickellia lemmonii* A. Gray var. *lemmonii*

*wrightii* (Gray) Britton = *Baccharis wrightii* Gray

**Conoclinium** mist-flower

King, R.M. and H. Robinson. 1970. Studies in the Eupatorieae (Compositae). XIII. The genus *Conoclinium*. *Phytologia* 19(5):299-300.

Schilling, E.E., J.L. Panero, & P.B. Cox. 1999. Chloroplast DNA restriction site data support a narrowed interpretation of *Eupatorium* (Asteraceae). *Plant Syst. Evol.* 219:209-223.

*dissectum* Gray [M&H; W&S]

*Conoclinium greggii* (Gray) Small

*Eupatorium greggii* Gray

*greggii* (Gray) Small = *Conoclinium dissectum* Gray

**Conyza** horseweed

Allred, K.W. & D.L. Anderson. 2002. New plant distribution records. *The New Mexico Botanist* 21:2. [*Conyza bonariensis*]

Nesom, G.L. 1990. Taxonomy of the genus *Laennecia* (Asteraceae: Astereae). *Phytologia* 68(3):205-228.

Nesom, G.L. 1990. Further definition of *Conyza* (Asteraceae; Astereae). *Phytologia* 68: 229-233.

\**bonariensis* (Linnaeus) Cronquist [Allred & Anderson 2002]

*Erigeron bonariensis* Linnaeus

\**canadensis* (Linnaeus) Cronquist var. *canadensis* [M&H; W&S]

*Erigeron canadensis* Linnaeus

*Leptilon canadense* (Linnaeus) Britton & Brown

*canadensis* (Linnaeus) Cronquist var. *glabrata* (Gray) Cronquist [M&H; W&S]

*Erigeron canadensis* Linnaeus var. *glabrata* Gray

*coulteri* A. Gray = *Laennecia coulteri* (A. Gray) Nesom

*coulteri* Gray var. *tenuisecta* Gray = *Laennecia sophiifolia* (Kunth) Nesom

*purpurascens* Swartz = *Pluchea odorata* (Linnaeus) Cassini

*ramosissima* Cronquist [Spellenberg et al. 1986]

dwarf horseweed

*schiedeana* (Lessing) Cronquist = *Laennecia schiedeana* (Lessing) Nesom

*sophiifolia* Kunth = *Laennecia sophiifolia* (Kunth) Nesom

**Coreopsis** tickseed

Cronquist, A. 1994. *Coreopsis*, pp. 44-45. IN: Intermountain Flora, vol. 5. New York Botanical Garden.



- Sherff, E.E. 1955. *Coreopsis*, p. 4-40. IN: E.E. Sherff & E.J. Alexander, Compositae-Heliantheae-Coreopsidinae. North Amer. Flora II. pt. 2.
- Smith, E.B. 1976. A biosystematic survey of *Coreopsis* in eastern United States and Canada. Sida 6:123-215.
- Strother, J. 2006. *Coreopsis*, pp. 185-198. IN: Flora of North America, vol. 21. Oxford University Press.
- atkinsoniana* Douglas ex Lindley = *Coreopsis tinctoria* Nuttall var. *atkinsoniana* (Douglas ex Lindley) H.M. Parker
- basalis* (A. Dietrich) S.F. Blake var. *wrightii* (Gray) S.F. Blake : Reported for NM by Sherff (1955), based on *Wright 1237* (NY), dubiously attributed to Santa Fe; no other specimens known; awaits verification.
- Coreopsis drummondii* (D. Don) Torr. & Gray var. *wrightii* Gray
- Coreopsis wrightii* (Gray) H.M. Parker ex E.B. Smith
- californica** (Nuttall) Sharsmith [Spellenberg et al. 1993]
- Coreopsis californica* (Nuttall) Sharsmith var. *newberryi* (Gray) E.B. Smith
- Leptosyne californica* Nuttall
- californica* (Nuttall) Sharsmith var. *newberryi* (Gray) E.B. Smith = *Coreopsis californica* (Nuttall) Sharsmith
- cardaminifolia* (A.P. de Candolle) Torrey & Gray = *Coreopsis tinctoria* Nuttall
- drummondii* (D. Don) Torrey & Gray var. *wrightii* Gray = *Coreopsis basalis* (A. Dietrich) S.F. Blake var. *wrightii* (Gray) S.F. Blake
- grandiflora** Hogg ex Sweet [M&H]
- Coreopsis grandiflora* Hogg ex Sweet var. *harveyana* (Gray) Sherff
- grandiflora* Hogg ex Sweet var. *harveyana* (Gray) Sherff = *Coreopsis grandiflora* Hogg ex Sweet
- lanceolata** Linnaeus [M&H]
- parviflora* Jacquin = *Cosmos parviflorus* (Jacquin) Persoon
- tinctoria* Nuttall var. *atkinsoniana* (Douglas ex Lindley) H.M. Parker ex E.B. Small = *Coreopsis tinctoria* Nuttall var. *atkinsoniana* (Douglas ex Lindley) H.M. Parker
- tinctoria** Nuttall [M&H]
- Calliopsis cardaminifolia* A.P. de Candolle
- Coreopsis atkinsoniana* Douglas ex Lindley
- Coreopsis cardaminifolia* (A.P. de Candolle) Torrey & Gray
- Coreopsis tinctoria* Nuttall var. *atkinsoniana* (Douglas ex Lindley) H.M. Parker ex E.B. Small
- wrightii* (Gray) H.M. Parker ex E.B. Smith = *Coreopsis basalis* (A. Dietrich) S.F. Blake var. *wrightii* (Gray) S.F. Blake
- Cosmos**  
cosmos
- Sherff, E.E. 1955. *Coreopsis*, p. 130-146. IN: E.E. Sherff & E.J. Alexander, Compositae-Heliantheae-Coreopsidinae. North Amer. Flora II. pt. 2. New York.
- \*bipinnatus** Cavanilles [M&H]
- parviflorus** (Jacquin) Persoon [M&H; W&S]
- Coreopsis parviflora* Jacquin
- Cotula**  
brassbuttons
- Allred, K.W. 1999. New plant distribution records. The New Mexico Botanist 11:8. [*Cotula australis*]
- \*australis** (Siebold ex Sprengel) Hooker f. [Allred 1999]
- Anacyclus australis* Siebold ex Sprengel
- Crassina pumila* (Gray) Kuntze = *Zinnia acerosa* (A.P. de Candolle) Gray
- grandiflora* (Nuttall) Kuntze = *Zinnia grandiflora* Nuttall
- Crepis**  
hawk's beard
- Babcock, E.B. 1947. The genus *Crepis*. Part two, systematic treatment. Univ. Calif. Publ. Bot. 22:199-1030.
- Bogler, D.J. 2006. *Crepis*, p. 222-239. IN: Flora of North America, vol. 19. Oxford University Press, New York.
- Cronquist, A. 1994. *Crepis*, pp. 459-468. IN: Intermountain Flora, vol. 5. New York Botanical Garden.
- acuminata** Nuttall [Bogler 2006; M&H; W&S]
- Crepis acuminata* Nuttall subsp. *pluriflora* Babcock & Stebbins
- acuminata* Nuttall subsp. *pluriflora* Babcock & Stebbins = *Crepis acuminata* Nuttall
- barberi* Greenman = *Crepis runcinata* Torrey & Gray var. *barberi* (Greenman) B.L. Turner
- chamaephylla* Wootton & Standley = *Crepis runcinata* Torrey & Gray var. *glauca* (Nuttall) Boivin

- glauca* (Nuttall) Torrey & Gray = *Crepis runcinata* Torrey & Gray var. *glauca* (Nuttall) Boivin
- intermedia*** Gray [Babcock 1947; Bogler 2006; Kartesz 1999]
- mogollonica* Greene ex Wootton & Standley = *Crepis runcinata* Torrey & Gray var. *barberi* (Greenman) B.L. Turner
- neomexicana* Wootton & Standley = *Crepis runcinata* Torrey & Gray var. *runcinata*
- occidentalis*** Nuttall [Bogler 2006; M&H; W&S]
- perplexans* Rydberg = *Crepis runcinata* Torrey & Gray var. *runcinata*
- petiolata* Rydberg = *Crepis runcinata* Torrey & Gray var. *runcinata*
- runcinata*** (James) Torrey & Gray var. ***barberi*** (Greenman) B.L. Turner [Bogler 2006; M&H; W&S]
- Crepis barberi* Greenman
- Crepis mogollonica* Greene ex Wootton & Standley
- Crepis runcinata* Torrey & Gray subsp. *barberi* (Greenman) Babcock & Stebbins
- runcinata* Torrey & Gray subsp. *barberi* (Greenman) Babcock & Stebbins = *Crepis runcinata* (James) Torrey & Gray var. *barberi* (Greene) B.L. Turner
- runcinata*** (James) Torrey & Gray var. ***glauca*** (Nuttall) Boivin [Bogler 2006; M&H; W&S]
- Crepis chamaephylla* Wootton & Standley
- Crepis glauca* (Nuttall) Torrey & Gray
- Crepis runcinata* Torrey & Gray subsp. *glauca* (Nuttall) Babcock & Stebbins
- runcinata* Torrey & Gray subsp. *glauca* (Nuttall) Babcock & Stebbins = *Crepis runcinata* (James) Torrey & Gray var. *glauca* (Nuttall) Boivin
- runcinata*** (James) Torrey & Gray var. ***runcinata*** [Bogler 2006; M&H; W&S]
- Crepis neomexicana* Wootton & Standley
- Crepis perplexans* Rydberg
- Crepis petiolata* Rydberg
- Crinitaria viscidiflora* Hooker = *Chrysothamnus viscidiflora* (Hooker) Nuttall var. *viscidiflorus*
- Cyclachaena*** careless-weed
- Strother, J.L. 2000. *Hedosyne* (Compositae, Ambrosiinae), a new genus for *Iva ambrosiifolia*. Madroño 47(3):204-205.
- ambrosiifolia* (A. Gray) Rydberg = *Hedosyne ambrosiifolia* (A. Gray) Strother
- xanthiifolia*** (Nuttall) Fresenius [M&H; W&S]
- Iva xanthiifolia* Nuttall
- Cynthia viridis* Standley = *Krigia biflora* (Walter) Blake
- Delwensia pattersonii* (A. Gray) Weber & Wittmann = *Artemisia pattersonii* A. Gray
- Diaperia*** cudweed
- Hershey, A.L. & P.J. Leyendecker, Jr. 1944. Notes on plants of New Mexico – III. Leaflet. West. Bot. 4(2):21-25. [*Evax prolifera*]
- Morefield, J.D. 2006. *Diaperia*, pp. 460-463. IN: Flora of North America, vol. 19. Oxford University Press, New York.
- prolifera*** (Nuttall ex A.P. de Candolle) Nuttall var. ***barnebyi*** Morefield [Morefield 2006]
- prolifera*** (Nuttall ex A.P. de Candolle) Nuttall var. ***prolifera*** [Hershey & Leyendecker 1944; Spellenberg 1984]
- Evax prolifera* Nuttall ex A.P. de Candolle
- Filago prolifera* (Nuttall ex A.P. de Candolle) Britton
- verna*** (Rafinesque) Morefield var. ***verna*** [M&H; W&S]
- Evax multicaulis* A.P. de Candolle
- Evax verna* Rafinesque
- Filaginopsis multicaulis* Torrey & Gray
- Dicoria*** twinbugs
- Cronquist, A. 1994. *Dicoria*, pp. 57. IN: Intermountain Flora, vol. 5. New York Botanical Garden.
- Strother, J.L. 2006. *Dicoria*, pp. 24-25. IN: Flora of North America, vol. 21. Oxford University Press, New York.
- brandegeei* Gray = *Dicoria canescens* A. Gray var. *brandegeei* (Gray) Cronquist
- canescens*** A. Gray var. ***brandegeei*** (Gray) Cronquist [M&H; W&S]
- Dicoria brandegeei* Gray
- Dicoria paniculata* Eastwood

*paniculata* Eastwood = *Dicoria canescens* A. Gray var. *brandegeei* (Gray) Cronquist

**Dicranocarpus** pitchforks

*dicranocarpus* (Gray) Wooton & Standley = *Dicranocarpus parviflorus* Gray

**parviflorus** Gray [M&H; W&S]

*Dicranocarpus dicranocarpus* (Gray) Wooton & Standley

*Heterospermum dicranocarpum* Gray

*Wootonia parviflora* (Gray) Greene

**Dieteria** spine-aster

Morgan, D.R. & R.L. Hartman. 2003. A synopsis of *Machaeranthera* (Asteraceae: Astereae), with recognition of segregate genera. *Sida* 20(4):1387-1416.

**asteroides** Torrey var. **asteroides** [M&H; Turner 1987; W&S]

*Aster amplifolius* (Wooton & Standley) Kittell

*Aster canescens* Pursh var. *tephrodes* Gray

*Aster tephrodes* (Gray) Blake

*Machaeranthera amplifolia* Wooton & Standley

*Machaeranthera asteroides* (Torrey) Greene

*Machaeranthera canescens* (Pursh) Gray var. *incana* (Lindley) Gray

*Machaeranthera canescens* (Pursh) Gray var. *latifolia* Gray

*Machaeranthera simplex* Wooton & Standley

*Machaeranthera tephrodes* (Gray) Greene

**asteroides** Torrey var. **glandulosa** (B.L. Turner) Morgan & Hartman [Turner 1987]

*Machaeranthera asteroides* (Torrey) Greene var. *glandulosa* B.L. Turner

**bigelovii** (Gray) Morgan & Hartman var. **bigelovii** [M&H; Turner 1987; W&S]

*Aster aquifolius* (Greene) Blake

*Aster bigelovii* Gray

*Machaeranthera aquifolia* Greene

*Machaeranthera bigelovii* (Gray) Greene

*Machaeranthera centaureoides* Greene

*Machaeranthera rubricaulis* Rydberg

**canescens** (Pursh) Nuttall var. **ambigua** (B. Turner) Morgan & Hartman [M&H; Turner 1987; W&S]

sand-daisy

*Machaeranthera canescens* (Pursh) Gray var. *ambigua* B.L. Turner

*Machaeranthera angustifolia* Wooton & Standley

**canescens** (Pursh) Nuttall var. **aristata** (Eastwood) Morgan & Hartman [Turner 1987; W&S]

sand-daisy

*Aster canescens* Pursh var. *aristata* Eastwood

*Machaeranthera canescens* (Pursh) Gray var. *aristata* (Eastwood) B. Turner

*Machaeranthera cichoriacea* Greene

*canescens* (Pursh) Nuttall s.s. : Not known from NM [Turner 1987].

*Aster canescens* Pursh

*Aster rubrotinctus* Blake

*Machaeranthera canescens* (Pursh) Gray

*Machaeranthera viscosa* (Nuttall) Greene

**canescens** (Pursh) Nuttall var. **glabra** (Gray) Morgan & Hartman [M&H; Turner 1987; W&S]

*Aster linearis* (Greene) Cory

*Machaeranthera canescens* (Pursh) Gray var. *glabra* Gray

*Machaeranthera linearis* Greene

*coronopifolia* Nuttall = *Machaeranthera tanacetifolia* (Kunth) Nees

*gracilis* Nuttall = *Xanthisma gracile* (Nuttall) Morgan & Hartman

*Diplothrix acerosa* A.P. de Candolle = *Zinnia acerosa* (A.P. de Candolle) Gray

*Distasis concinna* Hooker & Arnott = *Erigeron concinnus* (Hooker & Arnott) Torrey & Gray var. *concinus*

*Donia squarrosa* Pursh = *Grindelia squarrosa* (Pursh) Dunal

*Doria concinna* (A. Nelson) Lunell = *Solidago missouriensis* Nuttall

*dumetorum* (Lunell) Lunell = *Solidago gigantea* Aiton

*gilvocanescens* (Rydberg) Lunell = *Solidago altissima* Linnaeus subsp. *gilvocanescens* (Rydberg) Sempel

*glaberrima* (M. Martens) Lunell = *Solidago missouriensis* Nuttall  
*glaberrima* var. *montana* (A. Gray) Lunell = *Solidago missouriensis* Nuttall  
*incana* (Torrey & A. Gray) Lunell = *Solidago mollis* Bartling

*Doria mollis* (Bartling) Lunell  
*pitcheri* (Nuttall) Lunell = *Solidago gigantea* Aiton

*Dracopis amplexicaulis* (Vahl) Cassini = *Rudbeckia amplexicaulis* Vahl

*Dugaldea hoopesii* (Gray) Rydberg = *Hymenoxys hoopesii* (A. Gray) Bierer

**Dyssodia** fetid-marigold

Strother, J.L. 1969. Systematics of *Dyssodia* Cavanilles (Compositae: Tageteae). Univ. Calif. Pub. Bot. 48:1-86.

Strother, J.L. 1986. Renovation of *Dyssodia* (Compositae: Tageteae). Sida 11:371-378.

*acerosa* A.P. de Candolle = *Thymophylla acerosa* (A.P. de Candolle) Strother

*aurea* (Gray) A. Nelson = *Thymophylla aurea* (Gray) Greene ex Britton

*hartwegii* (Gray) Robinson = *Thymophylla pentachaeta* (A.P. de Candolle) Small var.

*hartwegii* (Gray) Strother

*neomexicana* (Gray) Robinson = *Adenophyllum wrightii* Gray

**papposa** (Ventenat) Hitchcock [M&H; W&S]

*Boebera papposa* (Ventenat) Rydberg

*Tagetes papposa* Ventenat

*pentachaeta* (A.P. de Candolle) Robinson = *Thymophylla pentachaeta* (A.P. de Candolle)

Small var. *pentachaeta*

*polychaeta* (Gray) Robinson = *Thymophylla aurea* (Gray) Greene var. *polychaeta* (Gray)

Strother

*setifolia* (Lagasca) Robinson var. *greggii* (Gray) Shinnars = *Thymophylla setifolia* Lagasca

var. *radiata* (Gray) Strother

*setifolia* (Lagasca) Robinson var. *radiata* (Gray) Strother = *Thymophylla setifolia* Lagasca

var. *radiata* (Gray) Strother

*tenuiloba* (A.P. de Candolle) B.L. Robinson = *Thymophylla tenuiloba* (A.P. de Candolle)

Small

*thurberi* (Gray) Robinson = *Thymophylla pentachaeta* (A.P. de Candolle) Small var.

*belenidium* (A.P. de Candolle) Strother

**Echinacea** coneflower

Binns, S.E., B.R. Baum, & J.T. Arnason. 2002. A taxonomic revision of *Echinacea* (Asteraceae: Heliantheae). Syst. Bot. 27(3):610-632.

**angustifolia** A.P. de Candolle [M&H]

*Brauneria angustifolia* (A.P. de Candolle) Heller

*Echinacea pallida* (Nuttall) Nuttall var. *angustifolia* (A.P. de Candolle)

Cronquist

*pallida* (Nuttall) Nuttall var. *angustifolia* (A.P. de Candolle) Cronquist = *Echinacea*

*angustifolia* A.P. de Candolle

**Eclipta** eclipta

*alba* (Linnaeus) Hasskarl = *Eclipta prostrata* (Linnaeus) Linnaeus

*erecta* Linnaeus = *Eclipta prostrata* (Linnaeus) Linnaeus

**\*prostrata** (Linnaeus) Linnaeus [W&S; W&S]

*Eclipta alba* (Linnaeus) Hasskarl

*Eclipta erecta* Linnaeus

*Verbesina alba* Linnaeus

*Verbesina prostrata* Linnaeus

**Encelia** brittlebush

Clark, C. 2006. *Encelia*. pp. 118-122. IN: Flora of North America, vol. 21. Oxford University Press.

*exaristata* (Gray) Gray = *Simsia lagasceiformis* A.P. de Candolle

*frutescens* Gray var. *virginensis* (A. Nelson) Blake = *Encelia virginensis* A. Nelson

*microcephala* Gray = *Helianthella microcephala* (Gray) Gray

**scaposa** (Gray) Gray [M&H; W&S]

*Simsia scaposa* Gray

**virginensis** A. Nelson [M&H]

*Encelia frutescens* Gray var. *virginensis* (A. Nelson) Blake

**Engelmannia** Engelmann's daisy

Goodman, G.J. and C.A. Lawson. 1992. Two new combinations and a name change from the Long Expedition of 1820. *Rhodora* 94:381.

Turner, B.L. 1956. Chromosome numbers and geographic distribution of *Lindheimeria*, *Engelmannia*, and *Berlandiera*. Southwestern Naturalist 1:128-131.

**peristenia** (Rafinesque) Goodman & Lawson [M&H; W&S]

*Engelmannia pinnatifida* Torrey & Gray

*Silphium peristenium* Rafinesque

*pinnatifida* Torrey & Gray = *Engelmannia peristenia* (Rafinesque) Goodman & Lawson

**Ericameria** goldenbush

Anderson, L.C. 1978. New taxa in *Chrysothamnus*, section *Nauseosi* (Asteraceae). Phytologia 38:309-320.

Anderson, L.C. 1980. Morphology and biogeography of *Chrysothamnus nauseosus* ssp. *texensis* (Asteraceae): a new Guadalupe Mountains endemic. Southw. Naturalist 25:197-206.

Anderson, L.C. 1986. An overview of the genus *Chrysothamnus* (Asteraceae), pp. 29-45, IN: E.D. McArthur & B.L. Welsh (compilers). Proceedings – Symposium on the Biology of *Artemisia* and *Chrysothamnus*. USDA For. Serv. Gen. Tech. Rep. INT-200.

Anderson, L.C. 1995. The *Chrysothamnus-Ericameria* connection (Asteraceae). Great Basin Nat. 55(1):84-88.

Nesom, G.L. 1990. Taxonomic summary of *Ericameria* (Asteraceae: Astereae), with the inclusion of *Haplopappus* sects. *Macronema* and *Asiris*. Phytologia 68(2):144-155.

Nesom, G.L. and G.I. Baird. 1993. Completion of *Ericameria* (Asteraceae: Astereae), diminution of *Chrysothamnus*. Phytologia 75(1):74-93.

Sivinski, R.C. 2001. New plant distribution records. The New Mexico Botanist 19:3. [*Ericameria parryi affinis*]

Urbatsch, L.E. 1978. The Chihuahuan desert species of *Ericameria* (Compositae: Astereae). Sida 7(3):298-303.

Urbatsch, L.E., L.C. Anderson, R.P. Roberts, & K.M. Neubig. 2006. *Ericameria*, p. 50-77. IN: Flora of North America, vol. 20. Oxford University Press, New York.

**cuneata** (Gray) McClatchie var. **spathulata** (Gray) H.M. Hall [M&H]

*Bigelovia spathulata* Gray

*Haplopappus cuneatus* Gray var. *spathulatus* (Gray) Blake

*depressa* (Nuttall) L.C. Anderson = *Chrysothamnus depressus* Nuttall

*filifolia* (Rydberg) L.C. Anderson = *Chrysothamnus greenii* (Gray) Greene

**laricifolia** (Gray) Shinnery [M&H; W&S]

turpentine bush

*Chrysoma laricifolia* (Gray) Greene

*Haplopappus laricifolius* Gray

*linearifolia* (A.P. de Candolle) Urbatsch & Wussow : Reported by Urbatsch et al. (2006), but no specimens are known; nearest populations are in central Arizona; awaits verification.

*Haplopappus linearifolius* A.P. de Candolle

*linifolia* (Greene) L.C. Anderson = *Lorandersonia linifolia* (Greene) Urbatsch, Roberts & Neubig

*microcephala* (Cronquist) Kartesz & Gandhi = *Lorandersonia microcephala* (Cronquist) Urbatsch, Roberts & Neubig

**nauseosa** (Pallas ex Pursh) Nesom & Baird var. **arenaria** (L.C. Anderson)

Nesom & Baird [Anderson 1986]

rubber rabbitbrush

*Chrysothamnus nauseosus* (Pallas ex Pursh) Britton subsp. *arenarius* L.C. Anderson

**nauseosa** (Pallas ex Pursh) Nesom & Baird var. **bigelovii** (Torrey) Nesom & Baird [Anderson 1986; M&H; W&S]

rubber rabbitbrush

*Chrysothamnus bigelovii* (Gray) Greene

*Chrysothamnus nauseosus* (Pallas ex Pursh) Britton subsp. *bigelovii* (Gray) Hall & Clements

*Linosyris bigelovii* Gray

**nauseosa** (Pallas ex Pursh) Nesom & Baird var. **arta** (A. Nelson) Nesom & Baird =

*Ericameria nauseosa* (Pallas ex Pursh) Nesom & Baird var. *oreophila* (A. Nelson) Nesom & Baird

**nauseosa** (Pallas ex Pursh) Nesom & Baird var. **graveolens** (Nuttall) Reveal & Schuyler [Anderson 1986; M&H; W&S]

rubber rabbitbrush

*Bigelovia graveolens* (Nuttall) Gray

- Chrysocoma graveolens* Nuttall  
*Chrysothamnus confinis* Greene  
*Chrysothamnus graveolens* (Nuttall) Greene  
*Chrysothamnus nauseosus* (Pallas ex Pursh) Britton subsp. *graveolens* (Nuttall) Hall & Clements  
*Ericameria nauseosa* (Pallas ex Pursh) Nesom & Baird var. *glabrata* (A. Gray) Nesom & Baird  
***nauseosa*** (Pallas ex Pursh) Nesom & Baird var. ***hololeuca*** (A. Gray) Nesom & Baird [Anderson 1986; M&H]  
 rubber rabbitbrush  
*Bigelovia graveolens* (Nuttall) Gray var. *hololeuca* A. Gray  
*Chrysothamnus nauseosus* (Pallas ex Pursh) Britton subsp. *gnaphalodes* (Greene) Hall  
*nauseosa* (Pallas ex Pursh) Nesom & Baird var. *juncea* (Greene) Nesom & Baird : Reported by M&H, but excluded from NM by Urbatsch et al. (2006); verification needed.  
*Chrysothamnus junceus* Greene  
*Chrysothamnus nauseosus* (Pallas ex Pursh) Britton subsp. *junceus* (Greene) Hall  
***nauseosa*** (Pallas ex Pursh) Nesom & Baird var. ***latisquamea*** (A. Gray) Nesom & Baird [Anderson 1986; M&H; W&S]  
 rubber rabbitbrush  
*Bigelovia graveolens* (Nuttall) Gray var. *appendiculata* Eastwood  
*Bigelovia graveolens* (Nuttall) Gray var. *latisquamea* A. Gray  
*Chrysothamnus appendiculatus* (Eastwood) Heller  
*Chrysothamnus latisquameus* (Gray) Greene  
*Chrysothamnus nauseosus* (Pallas ex Pursh) Britton subsp. *latisquameus* (Gray) H. & S.  
*nauseosa* (Pallas ex Pursh) Nesom & Baird var. *nauseosa* : Reported by M&H, but the map in Anderson 1986 shows that this taxon is not likely to be found in NM, and not reported for the state in Urbatsch et al. (2006); awaits verification.  
*Chrysothamnus nauseosus* (Pallas ex Pursh) Britton subsp. *nauseosus*  
*Chrysothamnus nauseosus* (Pallas ex Pursh) Britton subsp. *typicus* Hall & Clements  
***nauseosa*** (Pallas ex Pursh) Nesom & Baird var. ***nitida*** (L.C. Anderson) Nesom & Baird [Anderson 1986]  
 rubber rabbitbrush  
*Chrysothamnus nauseosus* (Pallas ex Pursh) Britton subsp. *nitidus* L.C. Anderson  
***nauseosa*** (Pallas ex Pursh) Nesom & Baird var. ***oreophila*** (A. Nelson) Nesom & Baird [M&H; W&S]  
 rubber rabbitbrush  
*Chrysothamnus nauseosa* (Pallas ex Pursh) Nesom & Baird var. *arta* (A. Nelson) Nesom & Baird  
*Chrysothamnus nauseosus* (Pallas ex Pursh) Britton subsp. *consimilis* (Greene) Hall & Clements  
*Chrysothamnus nauseosus* (Pallas ex Pursh) Britton subsp. *pinifolius* (Greene) Hall & Clements  
*Chrysothamnus oreophilus* A. Nelson  
*Chrysothamnus pinifolius* Greene  
*Ericameria nauseosa* (Pallas ex Pursh) Nesom & Baird var. *arta* (A. Nelson) Nesom & Baird  
*nauseosa* (Pallas ex Pursh) Nesom & Baird var. *speciosa* (Nuttall) Nesom & Baird : Reported by M&H, but not by Urbatsch et al. (2006); awaits verification.  
*Chrysothamnus formosus* Greene  
*Chrysothamnus nauseosus* (Pallas ex Pursh) Britton subsp. *speciosus* (Nuttall) Hall & Clements  
*Chrysothamnus pulcherrimus* A. Nelson  
*Chrysothamnus speciosus* Nuttall

- nauseosa*** (Pallas ex Pursh) Nesom & Baird var. ***texensis*** (L.C. Anderson) Nesom & Baird [Anderson 1980]  
 rubber rabbitbrush  
*Chrysothamnus nauseosus* (Pallas ex Pursh) Britton subsp. *texensis* L.C. Anderson
- nauseosa*** (Pallas ex Pursh) Nesom & Baird var. ***turbinata*** (M.E. Jones) Nesom [Heil et al. 2002]  
 rubber rabbitbrush  
*Bigelovia turbinata* M.E. Jones
- parryi*** (A. Gray) Nesom & Baird var. ***affinis*** (A. Nelson) Nesom & Baird [Sivinski 2001]  
*Chrysothamnus affinis* A. Nelson  
*Chrysothamnus parryi* (Gray) Greene subsp. *affinis* (A. Nelson) L.C. Anderson
- parryi*** (A. Gray) Nesom & Baird var. ***attenuata*** (M.E. Jones) Nesom & Baird [Anderson 1986; M&H; W&S]  
*Bigelovia howardii* (Parry ex Gray) Gray var. *attenuata* M.E. Jones  
*Chrysothamnus newberryi* Rydberg  
*Chrysothamnus parryi* (Gray) Greene subsp. *attenuatus* (M.E. Jones) Hall & Clements
- parryi*** (A. Gray) Nesom & Baird var. ***howardii*** (Parry ex A. Gray) Nesom & Baird [Anderson 1986; M&H]  
*Chrysothamnus howardii* (Parry ex A. Gray) Greene  
*Chrysothamnus parryi* (Gray) Greene subsp. *howardii* (Parry ex A. Gray) Hall & Clements  
*Linosyris howardii* Parry ex A. Gray
- parryi*** (A. Gray) Nesom & Baird var. ***parryi*** [Anderson 1986]  
*Chrysothamnus parryi* (Gray) Greene
- pulchella*** (Gray) L.C. Anderson subsp. *baileyi* (Wootton & Standley) L.C. Anderson = *Lorandersonia baileyi* (Wootton & Standley) Urbatsch, Roberts & Neubig
- pulchella*** (Gray) L.C. Anderson var. *elatior* (Standley) L.C. Anderson = *Lorandersonia pulchella* (Gray) Urbatsch, Roberts & Neubig
- pulchella*** (Gray) L.C. Anderson var. *pulchella* = *Lorandersonia pulchella* (Gray) Urbatsch, Roberts & Neubig
- spathulata*** (L.C. Anderson) L.C. Anderson = *Lorandersonia spathulata* (L.C. Anderson) Urbatsch, Roberts & Neubig
- vaseyi*** (Gray) L.C. Anderson = *Chrysothamnus vaseyi* (Gray) Greene
- viscidiflora*** (Hooker) L.C. Anderson subsp. *lanceolata* (Nuttall) L.C. Anderson = *Chrysothamnus viscidiflorus* (Hooker) Nuttall var. *lanceolata* (Nuttall) Greene
- viscidiflora*** (Hooker) L.C. Anderson var. *stenophylla* (A. Gray) L.C. Anderson = *Chrysothamnus viscidiflorus* (Hooker) Nuttall var. *viscidiflorus*
- viscidiflora*** (Hooker) L.C. Anderson var. *viscidiflora* = *Chrysothamnus viscidiflorus* (Hooker) Nuttall var. *viscidiflorus*
- Erigeron*** fleabane daisy
- Cronquist, A. 1947. Revision of the North American species of *Erigeron*, north of Mexico. *Brittonia* 6:122-302.
- Cronquist, A. 1994. *Erigeron*, pp. 305-351. IN: *Intermountain Flora*, vol. 5. New York Botanical Garden.
- DeJong, D.C.D. & G.L. Nesom. 1996. Chromosome counts in Mexican *Erigeron*. *Madroo* 43(3):384-392.
- Hartman, R.L. 2003. Preliminary checklist of the vascular plants of Valles Caldera National Preserve, New Mexico. Distributed by the author <rhartman@uwoyo.edu>. [*Erigeron acris asteroides*]
- Hartman, R.L., B. Reif, B.E. Nelson, & B. Jacobs. 2006. New vascular plant records for New Mexico. *Sida* 22(2):1225-1233.
- Heil, K. 2007. Plant distribution reports. *The New Mexico Botanist* 37:7. [*Erigeron argentatus*, *Erigeron utahensis*]
- Heil, K.D., S.L. O'Kane, & A. Clifford. 2002. Additions to the flora of New Mexico from the San Juan Basin Flora project. *The New Mexico Botanist* 24:1-4. [*Erigeron compactus consimilis*, *Erigeron engelmannii*]
- Heil, K. 2004. Plant distribution reports. *The New Mexico Botanist* 31:2. [*Erigeron abajoenis*]
- Nesom, G.L. 1978. Chromosome numbers in *Erigeron* and *Conyza* (Compositae). *Sida* 7:375-381.
- Nesom, G.L. 1978. *Erigeron hessii* sp. nov. and *Erigeron kuscheri* Eastwood (Compositae), two closely related narrow endemics from the southwestern United States. *Brittonia* 30(4):440-446.

- Nesom, G.L. 1982. Systematics of the *Erigeron rusbyi* group (Asteraceae) and delimitation of sect. *Peregrinus*. Syst. Bot. 7(4):457-470.
- Nesom, G.L. 1983. Taxonomy of *Erigeron concinnus* (Asteraceae) and its separation from *E. pumilus*. Sida 10:159-166.
- Nesom, G.L. 1989. Taxonomy of *Erigeron* sect. *Polyactis* (Compositae: Astereae). Phytologia 66(5):415-455.
- Nesom, G.L. 1989. Infrageneric taxonomy of New World *Erigeron* (Compositae: Astereae). Phytologia 67(1):67-93.
- Nesom, G.L. 1990. Taxonomy of *Erigeron bellidiastrum* (Asteraceae: Astereae), with a new variety. Phytologia 69(3):163-168.
- Nesom, G.L. 1991. A new species of *Erigeron* (Asteraceae: Astereae) from northwestern New Mexico. Phytologia 71(5):416-419. [*Erigeron sivinskii*]
- Nesom, G.L. 1992. Taxonomic notes on *Erigeron* (Asteraceae: Astereae) of California, Nevada, and Arizona. Phytologia 73(3):186-202.
- Nesom, G.L. 2004. Taxonomic reevaluations in North American *Erigeron* (Asteraceae: Astereae). Sida 21(1):19-39.
- Nesom, G.L. 2004. *Erigeron peregrinus* and *Erigeron glacialis* (Asteraceae: Astereae). Sida 21(2):665-672.
- Nesom, G.L. 2006. *Erigeron*, p. 256-348. IN: Flora of North America, vol. 20. Oxford University Press.
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- Nesom, G.L. & D.F. Murray. 2004. Notes on North American arctic and boreal species of *Erigeron* (Asteraceae: Astereae). Sida 21(1):41-57.
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- Tonne, P. & T.K. Lowrey. 1998. An analysis of taxonomic boundaries between *Erigeron pulcherrimus* and *Erigeron bistiensis*. Report for Energy, Minerals and Natural Resources Department, State of New Mexico.
- abajoensis** Cronquist [Heil 2004]  
*accedens* Greene = *Erigeron divergens* Torrey & Gray  
**+acomanus** Spellenberg & Knight [Spellenberg & Knight 1989]  
**acris** Linnaeus var. **kamtschaticus** (A.P. de Candolle) Herder [Hartman 2003]  
*Erigeron kamtschaticus* A.P. de Candolle  
*acris* Linnaeus var. *asteroides* (Andrzejowski ex Besser) A.P. de Candolle : This name restricted by Nesom (2006) and others for Eurasian endemics. North American plants are referred to var. *kamtschaticus* (A.P. de Candolle) Herder.  
*acris* Linnaeus var. *debilis* Gray = *Erigeron nivalis* Nuttall  
*annuus* (Linnaeus) Persoon of NM reports = *Erigeron strigosus* Muhlenberg ex Willdenow  
**aphanactis** (Gray) Greene [M&H; W&S]  
*Erigeron concinnus* (Hooker & Arnott) Torrey & Gray var. *aphanactis* Gray  
*arenarius* Greene = *Erigeron bellidiastrum* Nuttall var. *arenarius* (Greene) Nesom  
**argentatus** A. Gray [Heil 2007]  
**arizonicus** A. Gray [M&H; W&S]  
*Erigeron rusbyi* Gray  
*bakeri* Wooton & Standley = *Erigeron subtrinervis* Rydberg  
**bellidiastrum** Nuttall var. **arenarius** (Greene) Nesom [Nesom 1990; W&S]  
*Erigeron arenarius* Greene  
**bellidiastrum** Nuttall var. **bellidiastrum** [M&H; W&S]  
*Erigeron bellidiastrum* Nuttall var. *typicus* Cronquist  
*Erigeron eastwoodiae* Wooton & Standley  
**bellidiastrum** Nuttall var. **robustus** Cronquist [M&H]  
*bellidiastrum* Nuttall var. *typicus* Cronquist = *Erigeron bellidiastrum* Nuttall var. *bellidiastrum*  
**bigelovii** Gray [M&H]  
*bonariensis* Linnaeus = *Conyza bonariensis* (Linnaeus) Cronquist  
*brandegeei* Gray : Reported as expected by M&H; awaits verification.  
*bistiensis* Nesom & Hevron = *Erigeron pulcherrimus* Heller  
**caespitosus** Nuttall [M&H; W&S]  
*callianthemus* Greene = *Erigeron glacialis* (Nuttall) A. Nelson var. *glacialis*  
*canadensis* Linnaeus = *Conyza canadensis* (Linnaeus) Cronquist var. *canadensis*



*canadensis* Linnaeus var. *glabrata* Gray = *Conyza canadensis* (Linnaeus) Cronquist var. *glabrata* (Gray) Cronquist

**canus** Gray [M&H; W&S]

*Wyomingia cana* (Gray) A. Nelson

*ciliatus* Ledebour = *Symphytotrichum ciliatum* (Ledebour) G.L. Nesom

*colomexicanus* A. Nelson = *Erigeron tracyi* Greene

*commixtus* Greene = *Erigeron flagellaris* Gray

*compactus* Blake var. *consimilis* (Cronquist) S.F. Blake = *Erigeron consimilis* Cronquist  
*compositus* Pursh var. *glabratus* Macoun (= *Erigeron compositus* Pursh) : Reported as expected by M&H; awaits verification.

*Erigeron compositus* Pursh var. *multifidus* (Rydberg) Macbride & Payson

*Erigeron multifidus* Rydberg

*compositus* Pursh var. *multifidus* (Rydberg) Macbride & Payson = *Erigeron compositus* Pursh

*compositus* Pursh var. *pinnatisectus* Gray = *Erigeron pinnatisectus* (Gray) A. Nelson

*concinus* (Hooker & Arnott) Torrey & Gray var. *aphanactis* Gray = *Erigeron aphanactis* (Gray) Greene

**concinus** (Hooker & Arnott) Torrey & Gray var. **concinus** [M&H; W&S]

*Distasis concinna* Hooker & Arnott

*Erigeron pumilus* Nuttall subsp. *concinoides* Cronquist

*Erigeron setulosus* Greene

**concinus** (Hooker & Arnott) Torrey & Gray var. **condensatus** D.C. Eaton  
 [Nesom 1983]

**concinus** (Hooker & Arnott) Torrey & Gray var. **subglaber** [Nesom 1983]

*Erigeron pumilus* Nuttall var. *subglaber* Cronquist

**consimilis** Conquist [Heil et al. 2002]

*Erigeron compactus* Blake var. *consimilis* (Cronquist) S.F. Blake

**coulteri** Porter [M&H; W&S]

*delphinifolius* Willdenow subsp. *neomexicanus* (Gray) Cronquist = *Erigeron neomexicanus* Gray

*delphinifolius* Willdenow subsp. *neomexicanus* (Gray) Cronquist var. *oreophilus* (Greenman) Cronquist = *Erigeron oreophilus* Greenman

*deminutus* Wooton & Standley = *Erigeron formosissimus* Greene

**divergens** Torrey & Gray [M&H; W&S]

*Erigeron accedens* Greene

*Erigeron divergens* Torrey & Gray var. *typicus* Cronquist

*Erigeron incomptus* A. Gray

*Erigeron wootonii* Rydberg

*divergens* Torrey & Gray var. *cinereus* Gray = *Erigeron tracyi* Greene

*divergens* Torrey & Gray var. *nudiflorus* A. Nelson = *Erigeron flagellaris* Gray

*divergens* Torrey & Gray var. *typicus* Cronquist = *Erigeron divergens* Torrey & Gray

*eastwoodiae* Wooton & Standley = *Erigeron bellidiastrum* Nuttall var. *bellidiastrum*

**eatonii** Gray [Heil et al. 2002; W&S]

**elatior** (Gray) Greene [M&H]

*Erigeron grandiflorus* Sessé & Mociño var. *elatior* A. Gray

**engelmannii** A. Nelson [Heil et al. 2002]

**eximius** Greene [M&H; W&S]

*Erigeron superbus* Greene ex Rydberg

**flagellaris** Gray [M&H; W&S]

whiplash daisy

*Erigeron commixtus* Greene

*Erigeron divergens* Torrey & Gray var. *nudiflorus* A. Nelson

*Erigeron flagellaris* Gray var. *typicus* Cronquist

*Erigeron macdougalii* Heller

*Erigeron nudiflorus* Buckley

*Erigeron senilis* Wooton & Standley

*Erigeron tonsus* Wooton & Standley

*flagellaris* Gray var. *typicus* Cronquist = *Erigeron flagellaris* Gray

**formosissimus** Greene var. **formosissimus** [M&H; W&S]

- Erigeron deminutus* Wooton & Standley  
*Erigeron formosissimus* Greene var. *typicus* Cronquist  
*Erigeron mogollonicus* Greene  
*Erigeron pecosensis* Standley  
*Erigeron smithii* Rydberg  
*formosissimus* Greene var. *typicus* Cronquist = *Erigeron formosissimus* Greene var. *formosissimus*  
***formosissimus*** Greene var. ***viscidus*** (Rydberg) Cronquist [M&H; W&S]  
*Erigeron viscidus* Rydberg  
*formosissimus* Greene var. *viscidus* (Rydberg) Cronquist = *Erigeron formosissimus* Greene var. *viscidus* (Rydberg) Cronquist  
*gilensis* Wooton & Standley = *Erigeron versicolor* (Greenman) Nesom  
***glabellus*** Nuttall [M&H; W&S]  
***glacialis*** (Nuttall) A. Nelson var. ***glacialis*** [M&H; W&S]  
*Aster glacialis* Nuttall  
*Erigeron callianthemus* Greene  
*Erigeron peregrinus* (Banks ex Pursh) Greene subsp. *callianthemus* (Greene) Cronquist  
*Erigeron salsuginosus* (Richardson) Gray  
*grandiflorus* Sessé & Mociño var. *elatior* A. Gray = *Erigeron elatior* (Gray) Greene  
*grayi* Heller = *Erigeron pulcherrimus* Heller  
***grandiflorus*** Hooker [M&H; W&S]  
*Erigeron leucotrichus* Rydberg  
*Erigeron simplex* Greene  
*Erigeron uniflorus* auctores  
**+*hessii*** Nesom [Nesom 1978]  
*incomptus* A. Gray = *Erigeron divergens* Torrey & Gray  
*kamtschaticus* A.P. de Candolle = *Erigeron acris* Linnaeus var. *kamtschaticus* (A.P. de Candolle) Herder  
***leiomerus*** Gray [M&H; W&S]  
*leiophyllus* Greene = *Erigeron speciosus* (Lindley) A.P. de Candolle  
*leucotrichus* Rydberg = *Erigeron grandiflorus* Hooker  
***lonchophyllus*** Hooker [M&H; W&S]  
*Erigeron minor* (Hooker) Rydberg  
*macdougalii* Heller = *Erigeron flagellaris* Gray  
*macranthus* Nuttall = *Erigeron speciosus* (Lindley) A.P. de Candolle var. *macranthus* (Nuttall) Cronquist  
***melanocephalus*** (A. Nelson) A. Nelson [M&H; W&S]  
*Erigeron uniflorus* Linnaeus var. *melanocephalus* A. Nelson  
*minor* (Hooker) Rydberg = *Erigeron lonchophyllus* Hooker  
***modestus*** Gray [M&H; W&S]  
*mogollonicus* Greene = *Erigeron formosissimus* Greene  
*multifidus* Rydberg = *Erigeron compositus* Pursh  
*nematophyllus* Rydberg : Reported by W&S, but restricted to southern Wyoming and northern Utah and Colorado (Nesom 2006); NM plants are referred to *Erigeron sivinskii* Nesom.  
***neomexicanus*** Gray [M&H; W&S]  
*Erigeron delphinifolius* Willdenow subsp. *neomexicanus* (Gray) Cronquist  
***nivalis*** Nuttall [Hartman et al. 2006; Nesom 2006]  
*Erigeron acris* Linnaeus var. *debilis* Gray  
*nudiflorus* Buckley = *Erigeron flagellaris* Gray  
***oreophilus*** Greenman [Nesom 1989]  
*Erigeron delphinifolius* Willdenow subsp. *neomexicanus* (Gray) Cronquist var. *oreophilus* (Greenman) Cronquist  
*pecosensis* Standley = *Erigeron formosissimus* Greene  
*peregrinus* (Banks ex Pursh) Greene s.s. : Not in NM; restricted to Pacific Northwest [Nesom 2004].  
*peregrinus* (Banks ex Pursh) Greene subsp. *callianthemus* (Greene) Cronquist = *Erigeron glacialis* (Nuttall) A. Nelson var. *glacialis*

- philadelphicus** Linnaeus var. **philadelphicus** [M&H; W&S]  
**pinnatisectus** (Gray) A. Nelson [M&H; W&S]  
*Erigeron compositus* Pursh var. *pinnatisectus* Gray  
*platyphyllus* Greene = *Erigeron vreelandii* Greene  
**pulcherrimus** Heller [M&H; W&S]  
*Erigeron bistiensis* Nesom & Hevron  
*Erigeron grayi* Heller  
*Erigeron pulcherrimus* Heller var. *typicus* Cronquist  
*Erigeron pulcherrimus* Heller var. *wyomingia* (Rydberg) Cronquist  
*Erigeron wyomingia* Rydberg  
*Wyomingia cinerea* A. Nelson  
*Wyomingia pulcherrima* (Heller) A. Nelson  
*pulcherrimus* Heller var. *typicus* Cronquist = *Erigeron pulcherrimus* Heller  
*pulcherrimus* Heller var. *wyomingia* (Rydberg) Cronquist = *Erigeron pulcherrimus* Heller  
*pumilus* Nuttall subsp. *concinnoides* Cronquist = *Erigeron concinnus* (Hooker & Arnott) Torrey & Gray  
*pumilus* Nuttall var. *subglaber* Cronquist = *Erigeron concinnus* (Hooker & Arnott) Torrey & Gray var. *subglaber* (Cronquist) Nesom  
**pumilus** Nuttall var. **pumilus** [Nesom 1992]  
**rhizomatus** Cronquist [M&H]  
*rudis* Wooton & Standley = *Erigeron vreelandii* Greene  
*rusbyi* Gray = *Erigeron arizonicus* A. Gray  
+**rybius** Nesom [Nesom 1982]  
*salsuginosus* (Richardson) Gray = *Erigeron glacialis* (Nuttall) A. Nelson var. *glacialis*  
*schiedeanus* Lessing = *Laennecia schiedeana* (Lessing) Nesom  
**scopulinus** Nesom and Roth [Nesom & Roth 1981]  
*semirarus* Wooton & Standley = *Erigeron vreelandii* Greene  
*senilis* Wooton & Standley = *Erigeron flagellaris* Gray  
*setulosus* Greene = *Erigeron concinnus* (Hooker & Arnott) Torrey & Gray  
*simplex* Greene = *Erigeron grandiflorus* Hooker  
**sivinskii** Nesom [Nesom 1991]  
*smithii* Rydberg = *Erigeron formosissimus* Greene  
**sparsifolius** Eastwood [M&H] Note: Not reported for NM by Nesom (2006); perhaps warrants verification.  
*Erigeron utahensis* Gray var. *sparsifolius* (Eastwood) Cronquist  
**speciosus** (Lindley) A.P. de Candolle [M&H; W&S]  
*Erigeron leiophyllus* Greene  
*Erigeron macranthus* Nuttall  
*Erigeron speciosus* (Lindley) A.P. de Candolle var. *macranthus* (Nuttall) Cronquist  
*Erigeron speciosus* (Lindley) A.P. de Candolle var. *typicus* Cronquist  
*speciosus* (Lindley) A.P. de Candolle var. *typicus* Cronquist = *Erigeron speciosus* (Lindley) A.P. de Candolle  
*stenophyllus* Gray = *Erigeron utahensis* A. Gray  
**strigosus** Muhlenberg ex Willdenow [Allred 1999; Nesom 2006]  
*Erigeron annuus* (Linnaeus) Persoon of NM reports  
*Erigeron annuus* (Linnaeus) Persoon subsp. *strigosus* (Muhlenberg ex Willdenow) Wagenitz  
+**subglaber** Cronquist [M&H]  
**subtrinervis** Rydberg ex Porter & Britton [M&H; W&S]  
*Erigeron bakeri* Wooton & Standley  
*Erigeron subtrinervis* Rydberg ex Porter & Britton subsp. *typicus* Cronquist  
*subtrinervis* Rydberg ex Porter & Britton subsp. *typicus* Cronquist = *Erigeron subtrinervis* Rydberg ex Porter & Britton  
*superbus* Greene ex Rydberg = *Erigeron eximius* Greene  
*tonsus* Wooton & Standley = *Erigeron flagellaris* Gray  
**tracyi** Greene [M&H; W&S]  
*Erigeron colomexicanus* A. Nelson  
*Erigeron divergens* Torrey & Gray var. *cinereus* Gray

- uniflorus* auctores non Linnaeus = *Erigeron grandiflorus* Hooker  
**ursinus** D.C. Eaton [Spellenberg et al. 1986]  
**utahensis** A. Gray [Heil 2007; Nesom 2006; W&S]  
*Erigeron stenophyllus* Gray  
*uniflorus* Linnaeus var. *melanocephalus* A. Nelson = *Erigeron melanocephalus* (A. Nelson) A. Nelson  
*utahensis* Gray var. *sparsifolius* (Eastwood) Cronquist = *Erigeron sparsifolius* Eastwood  
**versicolor** (Greenman) Nesom [M&H; W&S]  
*Achaetogeron versicolor* Greenman  
*Erigeron gilensis* Wooton & Standley  
*Achaetogeron chihuahuisensis* Larsen ex Blake  
**vetensis** Rydberg [M&H; W&S]  
*viscidus* Rydberg = *Erigeron formosissimus* Greene *viscidus* (Rydberg) Cronquist  
**vreelandii** Greene [M&H; W&S]  
*Erigeron platyphyllus* Greene  
*Erigeron rudis* Wooton & Standley  
*Erigeron semirasus* Wooton & Standley  
*wootonii* Rydberg = *Erigeron divergens* Torrey & Gray  
*wyomingia* Rydberg = *Erigeron pulcherrimus* Heller var. *pulcherrimus*  
*Eriocarpum wootonii* Greene = *Xanthisma spinulosum* (Pursh) Morgan & Hartman var. *spinulosum*
- Eriophyllum** Easter-bonnets  
 Allred, K.W. 1999. New plant distribution records. The New Mexico Botanist 13:7. [*Eriophyllum lanosum*]  
*chrysanthemoides* (A. Gray) Kuntze = *Hymenothrix dissecta* (A. Gray) B.G. Baldwin  
**lanosum** (Gray) Gray [Allred 1999]  
*Antheropeas lanosum* (Gray) Rydberg  
*Burrielia lanosa* Gray  
*oblongifolium* (Gray) Kuntze = *Platyschkuhria integrifolia* (Gray) Rydberg var. *oblongifolia* (Gray) Ellison  
*pedatum* (Gray) Kuntze = *Hymenothrix pedata* (A. Gray) B.G. Baldwin  
*Erythemia grandiflora* Nuttall = *Lygodesmia grandiflora* (Nuttall) Torrey & Gray  
*Eschenbachia coulteri* (A. Gray) Rydberg = *Laennecia coulteri* (A. Gray) Nesom  
*tenuisecta* (Gray) Wooton & Standley = *Laennecia sopherifolia* (Kunth) Nesom  
*Eucephalus formosus* Greene = *Herrickia glauca* (Nuttall) Brouillet  
*glauca* Nuttall = *Herrickia glauca* (Nuttall) Brouillet
- Eupatorium**  
 King, R.M. & H. Robinson. 1987. The genera of the Eupatorieae (Asteraceae). Monogr. Syst. Bot. 22.  
 Schilling, E.E., J.L. Panero, & P.B. Cox. 1999. Chloroplast DNA restriction site data support a narrowed interpretation of *Eupatorium* (Asteraceae). Plant Syst. Evol. 219:209-223.  
*ageratifolium* A.P. de Candolle var. *herbaceum* Gray = *Ageratina herbacea* (Gray) R.M. King & H.E. Robinson  
*arizonicum* Greene = *Ageratina herbacea* (Gray) R.M. King & H.E. Robinson  
*bruneri* Gray = *Eutrochium maculatum* (Linnaeus) E.E. Lamont var. *bruneri* (Gray) E.E. Lamont  
*fendleri* (Gray) Gray = *Brickelliastrum fendleri* (Gray) King & H.E. Robinson  
*grandiflorum* Hooker = *Brickellia grandiflora* (Hooker) Nuttall  
*greggii* Gray = *Conoclinium dissectum* Gray  
*herbaceum* (Gray) Greene = *Ageratina herbacea* (Gray) R.M. King & H.E. Robinson  
*lemmonii* B.L. Robinson = *Ageratina lemmonii* (B.L. Robinson) R.M. King & H.E. Robinson  
*maculatum* Linnaeus var. *bruneri* (Gray) Breitung = *Eutrochium maculatum* (Linnaeus) E.E. Lamont var. *bruneri* (Gray) E.E. Lamont  
*pycnocephalum* sensu NM authors = *Fleischmannia sonorae* (Gray) King & Robinson  
*rothrockii* Gray = *Ageratina rothrockii* (Gray) R.M. King & H.E. Robinson  
*solidaginifolium* Gray = *Koanophyllon solidaginifolium* (Gray) R.M. King & H.E. Robinson  
*wrightii* Gray = *Ageratina wrightii* (Gray) R.M. King & H.E. Robinson  
*Eurybia glauca* (Nuttall) Nesom var. *glauca* = *Herrickia glauca* (Nuttall) Brouillet  
*horrida* (Wooton & Standley) Nesom = *Herrickia horrida* Wooton & Standley

- Euthamia** goldentop  
 Fernald, M.L. 1950. Gray's Manual of Botany. 8<sup>th</sup> ed. Repr. by Dioscorides Press, Portland Oregon. 1632 pp. [*Euthamia graminifolia*]  
 Sieren, D.J. 1981. The taxonomy of the genus *Euthamia*. *Rhodora* 83:551-579.  
*graminifolia* (Linnaeus) Nuttall : Reported by Fernald (1950), but no specimens are known and it is way out of range; awaits verification.  
*Chrysocoma graminifolia* Linnaeus
- occidentalis** Nuttall [M&H; W&S]  
*Solidago occidentalis* (Nuttall) Torrey & Gray
- Euphosyne ambrosiifolia* A. Gray = *Hedosyne ambrosiifolia* (A. Gray) Strother
- Eutrochium** Joe-Pye-weed  
 King, R.M. & H. Robinson. 1987. The genera of the Eupatorieae (Asteraceae). Monogr. Syst. Bot. 22.  
 Lamont, E.E. 2006. *Eutrochium*, pp. 474-478. IN: Flora of North America, vol. 21. Oxford University Press, New York.
- maculatum** (Linnaeus) E.E. Lamont var. **bruneri** (Gray) E.E. Lamont [M&H; W&S]  
*Eupatorium bruneri* Gray  
*Eupatorium maculatum* Linnaeus var. *bruneri* (Gray) Breitung
- Evax multicaulis* A.P. de Candolle = *Diaperia verna* (Rafinesque) Morefield  
*prolifera* Nuttall ex A.P. de Candolle = *Diaperia prolifera* (Nuttall ex A.P. de Candolle) Nuttall var. *prolifera*  
*verna* Rafinesque = *Diaperia verna* (Rafinesque) Morefield
- Filaginopsis multicaulis* Torrey & Gray = *Diaperia verna* (Rafinesque) Morefield
- Filago californica* Nuttall = *Logfia filaginoides* (Hooker & Arnott) Morefield  
*depressa* A. Gray = *Logfia depressa* (A. Gray) Holub  
*prolifera* (Nuttall ex A.P. de Candolle) Britton = *Diaperia prolifera* (Nuttall ex A.P. de Candolle) Nuttall var. *prolifera*
- Flaveria** yellowtops  
 Powell, A.M. 1978. Systematics of *Flaveria* (Flaveriinae—Asteraceae). *Ann. Missouri Bot. Gard.* 65:590-636.
- campestris** J.R. Johnston [M&H; W&S]  
*Guardiola diehlii* sensu W&S (not Jones)
- chlorifolia** Gray [M&H; W&S]  
*repanda* Lagasca = *Flaveria trinervia* (Sprengel) C. Mohr
- trinervia** (Sprengel) C. Mohr [M&H; W&S]  
*Flaveria repanda* Lagasca  
*Oedera trinervia* Sprengel
- Fleischmannia** thoroughwort  
**sonorae** (Gray) King & Robinson [M&H]  
*Eupatorium pycnocephalum* of NM authors  
*Eupatorium sonorae* Gray
- Flourensia** tarbush  
 Dillon, M.O. 1984. A systematic study of *Flourensia* (Asteraceae, Heliantheae). *Fieldiana: Botany* 16:1-66.
- cernua** A.P. de Candolle [M&H]  
**pringlei** (Gray) Blake [M&H]  
*Helianthella pringlei* Gray
- Franseria*  
*acanthicarpa* (Hooker) Coville = *Ambrosia acanthicarpa* Hooker  
*confertiflora* (A.P. de Candolle) Rydberg = *Ambrosia confertiflora* A.P. de Candolle  
*discolor* Nuttall = *Ambrosia tomentosa* Nuttall  
*tenuifolia* Gray = *Ambrosia confertiflora* A.P. de Candolle  
*tomentosa* Gray = *Ambrosia grayi* (A. Nelson) Shinnars  
*tomentosa* (Nuttall) A. Nelson = *Ambrosia tomentosa* Nuttall
- Gaertneria acanthicarpa* (Hooker) Britton = *Ambrosia acanthicarpa* Hooker  
*grayi* A. Nelson  
*tenuifolia* (Gray) Kuntze = *Ambrosia confertiflora* A.P. de Candolle  
*tomentosa* (Nuttall) Heller = *Ambrosia tomentosa* Nuttall
- Gaillardia** blanket-flower  
 Biddulph, S.F. 1944(1945). A revision of the genus *Gaillardia*. *Res. Stud. State Coll. Wash.* 12:195-256.

Strother, J.L. 2006. *Gaillardia*, pp. 421-426. IN: Flora of North America, vol. 21. Oxford University Press, New York. [*Gaillardia multiceps*]  
 Turner, B.L. & M. Whalen. 1975. Taxonomic study of *Gaillardia pulchella* (Asteraceae-Heliantheae). *Wrightia* 5:189-192.

***aristata*** Pursh [Great Plains Flora Association 1977]

***multiceps*** Greene [Strother 2006]

*neomexicana* A. Nelson = *Gaillardia pulchella* Fougeroux

***pinnatifida*** Torrey [M&H; W&S]

***pulchella*** Fougeroux [M&H; W&S]

*Gaillardia neomexicana* A. Nelson

***Galinsoga*** galinsoga

*aristulata* Bicknell = *Galinsoga ciliata* (Rafinesque) Blake

*ciliata* (Rafinesque) Blake [= *Galinsoga quadriradiata* Ruis & Pavon] : Reported as expected by M&H map; awaits verification.

*Galinsoga parviflora* Cavanilles var. *hispida* A.P. de Candolle

*Galinsoga aristulata* Bicknell

\****parviflora*** Cavanilles var. ***semicalva*** A. Gray [M&H; W&S]

*Galinsoga semicalva* (Gray) St. John & White

*parviflora* Cavanilles var. *hispida* A.P. de Candolle = *Galinsoga ciliata* (Rafinesque) Blake

*parviflora* Cavanilles var. *semicalva* Gray = *Galinsoga parviflora* Cavanilles var. *semicalva* A. Gray

*semicalva* (Gray) St. John & White = *Galinsoga parviflora* Cavanilles var. *semicalva* A. Gray

***Gamochaeta*** everlasting

Nesom, G.L. 2004. New distribution records for *Gamochaeta* (Asteraceae: Gnaphalieae) in the United States. *Sida* 21(2):1175-1185. [*Gamochaeta stagnalis*]

***stagnalis*** (I.M. Johnston) Anderberg [Nesom 2004]

*Gnaphalium stagnale* I.M. Johnston

*rosacea* (I.M. Johnston) Anderberg : Erroneously reported by Allred (2004); the specimen corrected to *Gamochaeta stagnalis* (I.M. Johnston) Anderberg by Nesom (2004).

***Gazania*** gazania

Mahoney, A.M. 2006. *Gazania*, p. 196-197. IN: Flora of North America, vol. 19. Oxford University Press, New York.

\****linearis*** (Thunberg) Druce [Mahoney 2006]

*Gerbera lyrata* Schultz-Bipontinus = *Leibnitzia lyrata* (Schultz-Bipontinus) G.L. Nesom

***Gnaphalium*** cudweed

Cronquist, A. 1994. *Gnaphalium*, pp. 362-366. IN: Intermountain Flora, vol. 5. New York Botanical Garden.

Lowrey, T. 2011. Plant distribution reports. *The New Mexico Botanist* 54:10. [*Gnaphalium uliginosum*]

Nesom, G.L. 2001. New records in *Pseudognaphalium* (Asteraceae: Gnaphalieae) for the United States. *Sida* 19(4):1185-1190.

*angustifolium* A. Nelson = *Gnaphalium exilifolium* A. Nelson

*canescens* A.P. de Candolle = *Pseudognaphalium canescens* (A.P. de Candolle) W.A. Weber

*chilense* Sprengel = *Pseudognaphalium stramineum* (Kunth) W.A. Weber

*decurrens* Ives = *Pseudognaphalium macounii* (Greene) Kartesz

***exilifolium*** A. Nelson [M&H]

*Gnaphalium angustifolium* A. Nelson

*Gnaphalium grayi* A. Nelson & Macbride

*Gnaphalium strictum* Torrey

*filaginoides* Hooker & Arnott = *Logfia filaginoides* (Hooker & Arnott) Morefield

*grayi* A. Nelson & Macbride = *Gnaphalium exilifolium* A. Nelson

*jaliscense* Greenman = *Pseudognaphalium jaliscense* (Greenman) A. Anderberg

*leucocephalum* Gray = *Pseudognaphalium leucocephalum* (Gray) A. Anderberg

*luteoalbum* Linnaeus = *Pseudognaphalium luteoalbum* (Linnaeus) Hilliard & Burt

*macounii* Greene = *Pseudognaphalium macounii* (Greene) Kartesz

*margaritaceum* Linnaeus = *Anaphalis margaritacea* (Linnaeus) Benth & Hooker

***palustre*** Nuttall [M&H]

*pringlei* Gray = *Pseudognaphalium pringlei* (Gray) A. Anderberg

*stagnale* I.M. Johnston = *Gamochaeta stagnalis* (I.M. Johnston) Anderberg  
*stramineum* Kunth = *Pseudognaphalium stramineum* (Kunth) W.A. Weber  
*strictum* Gray = *Gnaphalium exilifolium* A. Nelson  
*sulphurescens* Rydberg = *Pseudognaphalium stramineum* (Kunth) W.A. Weber  
 \**uliginosum* Linnaeus [Lowrey 2011]  
*viridulum* I. M. Johnston = *Pseudognaphalium canescens* (A.P. de Candolle) W.A. Weber  
*wrightii* Gray = *Pseudognaphalium canescens* (A.P. de Candolle) W.A. Weber

### **Grindelia** gumweed

- Allred, K.W. 1999. New plant distribution records. The New Mexico Botanist 13:7. [*Grindelia laciniata*]  
 Harms, R.T. 2001. Radiate and eradiate individuals in *Grindelia nuda* (Asteraceae). Sida 19(3):715-717.  
 Moore, A.J., A. Bartoli, R.D. Tortosa, & B.G. Baldwin. 2012. Phylogeny, biogeography, and chromosome evolution of the amphitropical genus *Grindelia* (Asteraceae) inferred from nuclear ribosomal and chloroplast sequence data. Taxon 61(1):211-230.  
 Nesom, G.L. 1990. Studies in the systematics of Mexican and Texas *Grindelia* (Asteraceae: Astereae). Phytologia 68(4):303-332.  
 Nesom, G.L., Y. Suh, and B.B. Simpson. 1993. *Prionopsis* (Asteraceae: Astereae) united with *Grindelia*. Phytologia 75:341-346.  
 Steyermark, J.A. 1934. Studies in *Grindelia*. II. A monograph of the North American species of the genus *Grindelia*. Ann. Missouri Bot. Gard. 21:433-608.  
 Strother, J.L. & M.A. Wetter. 2006. *Grindelia*, p. 424-436. IN: Flora of North America, vol. 20. Oxford University Press.  
 Wetter, M.A. 1986. *Grindelia*, pp. 943-945. IN: Great Plains Flora Association. Flora of the Great Plains. University Press of Kansas.  
*acutifolia* Steyermark = *Grindelia hirsutula* Hooker & Arnott  
*aphanactis* Rydberg = *Grindelia squarrosa* Dunal  
***arizonica*** Gray var. ***arizonica*** [M&H; W&S]  
*Grindelia arizonica* Gray var. *dentata* Steyermark  
*Grindelia arizonica* Gray var. *stenophylla* Steyermark  
*Grindelia laciniata* Rydberg  
*Grindelia setulifera* Wooton & Standley  
*arizonica* Gray var. *dentata* Steyermark = *Grindelia arizonica* Gray var. *arizonica*  
 +***arizonica*** Gray var. ***neomexicana*** (Wooton & Standley) Nesom [M&H; W&S]  
*Grindelia neomexicana* Wooton & Standley  
*Grindelia scabra* Greene var. *neomexicana* (Wooton & Standley) Steyermark  
*arizonica* Gray var. *stenophylla* Steyermark = *Grindelia arizonica* Gray var. *arizonica*  
***ciliata*** (Nuttall) Sprengel [M&H]  
*Grindelia papposa* Nesom & Suh  
*Haplopappus ciliatus* (Nuttall) A.P. de Candolle  
*Prionopsis ciliata* Nuttall  
***decumbens*** Greene var. ***subincisa*** (Greene) Steyermark [M&H; W&S]  
*Grindelia subincisa* Greene  
***havardii*** Steyermark [M&H]  
***hirsutula*** Hooker & Arnott [M&H; Wetter 1986]  
*Grindelia acutifolia* Steyermark  
*Grindelia revoluta* Steyermark  
*laciniata* Rydberg = *Grindelia arizonica* A. Gray  
*neomexicana* Wooton & Standley = *Grindelia arizonica* Gray var. *neomexicana* (Wooton & Standley) Nesom  
*nuda* Wood = *Grindelia squarrosa* (Pursh) Dunal  
*nuda* Wood var. *aphanactis* (Rydberg) Nesom = *Grindelia squarrosa* (Pursh) Dunal  
***oxylepis*** Greene [FNM I]  
*papposa* Nesom & Suh = *Grindelia ciliata* (Nuttall) Sprengel  
*pinnatifida* Wooton & Standley = *Grindelia squarrosa* Dunal  
*scabra* Greene var. *neomexicana* (Wooton & Standley) Steyermark = *Grindelia arizonica* Gray var. *neomexicana* (Wooton & Standley) Nesom  
*revoluta* Steyermark = *Grindelia hirsutula* Hooker & Arnott  
***scabra*** Greene [M&H; W&S]  
*serrulata* Rydberg = *Grindelia squarrosa* (Pursh) Dunal  
*setulifera* Wooton & Standley = *Grindelia arizonica* Gray var. *arizonica*  
*squarrosa* (Pursh) Dunal var. *nuda* (Wood) Gray = *Grindelia squarrosa* Dunal  
*squarrosa* (Pursh) Dunal var. *serrulata* (Rydberg) Steyermark = *Grindelia squarrosa* Dunal

**squarrosa** (Pursh) Dunal [M&H; W&S]

curly-cup gumweed

*Donia squarrosa* Pursh

*Grindelia aphanactis* Rydberg

*Grindelia nuda* Wood

*Grindelia pinnatifida* Wootton & Standley

*Grindelia serrulata* Rydberg

*Grindelia squarrosa* (Pursh) Dunal var. *nuda* (Wood) Gray

*Grindelia squarrosa* (Pursh) Dunal var. *serrulata* (Rydberg) Steyermark

subalpina Greene : Reported by W&S, but questioned by M&H and other workers; needs additional verification.

subincisa Greene = *Grindelia decumbens* Greene var. *subincisa* (Greene) Steyermark

texana Scheele : Reported by W&S, but questioned by M&H and other workers; needs additional verification.

*Guardiola diehlii* sensu W&S (not Jones) = *Flaveria campestris* J.R. Johnston

**Gutierrezia** snakeweed

Lane, M. 1982. Generic limits of *Xanthocephalum*, *Gutierrezia*, *Amphiachyris*, *Gymnosperma*, *Greenella*, and *Thurovia* (Compositae: Astereae). Syst. Bot. 7(4):405-416.

Lane, M. 1985. Taxonomy of *Gutierrezia* (Compositae: Astereae) in North America. Syst. Bot. 10:7-28.

Nesom, G.L. 2006. *Gutierrezia*, p. 88-94. IN: Flora of North America, vol. 20. Oxford University Press, New York.

corymbosa A. Nelson = *Gutierrezia sarothrae* (Pursh) Britton & Rusby

diversifolia Greene = *Gutierrezia sarothrae* (Pursh) Britton & Rusby

dracunculoides (A.P. de Candolle) Blake = *Amphiachyris dracunculoides* (A.P. de Candolle) Nuttall

filifolia Greene = *Gutierrezia sarothrae* (Pursh) Britton & Rusby

furfuracea Greene = *Gutierrezia sarothrae* (Pursh) Britton & Rusby

globosa Nelson = *Gutierrezia sarothrae* (Pursh) Britton & Rusby

glomerella Greene = *Gutierrezia microcephala* (A.P. de Candolle) Gray

goldmanii Greene = *Gutierrezia sarothrae* (Pursh) Britton & Rusby

juncea Greene = *Gutierrezia sarothrae* (Pursh) Britton & Rusby

linearis Rydberg = *Gutierrezia sarothrae* (Pursh) Britton & Rusby

longifolia Greene = *Gutierrezia sarothrae* (Pursh) Britton & Rusby

lucida Greene = *Gutierrezia microcephala* (A.P. de Candolle) Gray

**microcephala** (A.P. de Candolle) Gray [Lane 1985; M&H; W&S]

*Brachyris microcephala* A.P. de Candolle

*Gutierrezia glomerella* Greene

*Gutierrezia lucida* Greene

*Gutierrezia sarothrae* (Pursh) Britton var. *microcephala* (A.P. de Candolle) L.

Benson

*Xanthocephalum microcephalum* (A.P. de Candolle) Shinnars

**sarothrae** (Pursh) Britton & Rusby [Lane 1985; M&H; W&S]

*Gutierrezia corymbosa* Nelson

*Gutierrezia diversifolia* Greene

*Gutierrezia filifolia* Greene

*Gutierrezia furfuracea* Greene

*Gutierrezia globosa* Nelson

*Gutierrezia goldmanii* Greene

*Gutierrezia juncea* Greene

*Gutierrezia linearis* Rydberg

*Gutierrezia longifolia* Greene

*Gutierrezia tenuis* Greene

*Solidago sarothrae* Pursh

*Xanthocephalum sarothrae* (Pursh) Shinnars

*sarothrae* (Pursh) Britton var. *microcephala* (A.P. de Candolle) L. Benson = *Gutierrezia microcephala* (A.P. de Candolle) Gray

**sphaerocephala** Gray [Lane 1985; M&H; W&S]

*Xanthocephalum sphaerocephalum* (Gray) Shinnars

*tenuis* Greene = *Gutierrezia sarothrae* (Pursh) Britton & Rusby



- texana** (A.P. de Candolle) Torrey & Gray var. **glutinosa** (Schauer) M.A. Lane  
 [Nesom 2006]  
*Gutierrezia glutinosa* (Schauer) Schultz-Bipontinus  
*Hemiachyris glutinosa* Schauer
- wrightii** A. Gray [Lane 1985; M&H; W&S]  
*Xanthocephalum wrightii* (A. Gray) A. Gray
- Gymnolomia annua* B.L. Robinson & J.L. Greenman = *Heliomeris longifolia* (B.L. Robinson & Greenman) Cockerell var. *annua* (M.E. Jones) W.F. Yates  
*brevifolia* Greene ex Wooton & Standley = *Heliomeris multiflora* Nuttall var. *brevifolia* (Greene ex Wooton & Standley) W.F. Yates  
*ciliata* (B.L. Robinson & J.L. Greenman) Rydberg = *Heliomeris hispida* (A. Gray) Cockerell  
*hispida* B.L. Robinson & J.L. Greenman var. *ciliata* B.L. Robinson & J.L. Greenman = *Heliomeris hispida* (A. Gray) Cockerell  
*longifolia* B.L. Robinson & J.L. Greenman = *Heliomeris longifolia* (B.L. Robinson & Greenman) Cockerell var. *longifolia*  
*multiflora* (Nuttall) Benthams & Hooker = *Heliomeris multiflora* Nuttall  
*multiflora* (Nuttall) Benthams & Hooker var. *annua* M.E. Jones = *Heliomeris longifolia* (B.L. Robinson & Greenman) Cockerell var. *annua* (M.E. Jones) W.F. Yates  
*tenuifolia* (Gray) Benthams & Hooker = *Sidneya tenuifolia* (A. Gray) E.E. Schilling & Panero
- Gymnosperma** gumhead  
 Lane, M. 1982. Generic limits of *Xanthocephalum*, *Gutierrezia*, *Amphiachyris*, *Gymnosperma*, *Greenella*, and *Thurovia* (Compositae: Astereae). Syst. Bot. 7(4):405-416.  
*corymbosum* A.P. de Candolle = *Gymnosperma glutinosum* (Sprengel) Lessing  
**glutinosa** (Sprengel) Lessing [M&H; W&S]  
*Gymnosperma corymbosum* A.P. de Candolle  
*Selloa glutinosa* Sprengel
- Haploesthes** false broomweed  
 Turner, B.L. 1975. Taxonomy of *Haploesthes* (Asteraceae: Senecioneae). Wrightia 5:108-115.  
**greggii** Gray var. **texana** (Coulter) I.M. Johnson [M&H; Turner 1975]  
*Haplopappus texanus* Coulter
- Haplopappus armerioides* (Nuttall) Gray = *Stenotus armerioides* Nuttall  
*canescens* (A.P. de Candolle) Torrey & Gray = *Heterotheca canescens* (A.P. de Candolle) Shinnars  
*ciliatus* (Nuttall) A.P. de Candolle = *Grindelia ciliata* (Nuttall) Sprengel  
*croceus* Gray = *Pyrrocoma crocea* (Gray) Greene  
*cuneatus* Gray var. *spathulatus* (Gray) Blake = *Ericameria cuneata* (Gray) McClatchie var. *spathulata* (Gray) H.M. Hall  
*drummondii* sensu M&H = *Isocoma rusbyi* Greene  
*gracilis* (Nuttall) Gray = *Xanthisma gracile* (Nuttall) Morgan & Hartman  
*gymnocephalus* auctores = *Xanthisma blephariphyllum* (Gray) Morgan & Hartman  
*havardii* Waterfall = *Xanthisma viscidum* (Wooton & Standley) Morgan & Hartman  
*heterophyllum* (Gray) Blake = *Isocoma pluriflora* (Torrey & Gray) Greene  
*laricifolius* Gray = *Ericameria laricifolia* (Gray) Shinnars  
*linearifolius* A.P. de Candolle = *Ericameria linearifolia* (A.P. de Candolle) Urbatsch & Wussow  
*microcephalus* Cronquist = *Lorandersonia microcephala* (Cronquist) Urbatsch, Roberts & Neubig  
*nuttallii* Torrey & Gray = *Xanthisma grindelioides* (Nuttall) Morgan & Hartman  
*parryi* Gray = *Oreochrysum parryi* (Gray) Rydberg  
*phyllocephalus* A.P. de Candolle subsp. *annuus* (Rydberg) Hall = *Rayjacksonia annua* (Rydberg) Hartman & Lane  
*pluriflorus* (Gray) Hall = *Isocoma pluriflora* (Torrey & Gray) Greene  
*pygmaeus* (Torrey & Gray) Gray = *Tonestus pygmaeus* (Torrey & Gray) A. Nelson  
*rusbyi* (Greene) Cronquist = *Isocoma rusbyi* Greene  
*spinulosus* (Pursh) A.P. de Candolle subsp. *australis* (Greene) Hall = *Xanthisma spinulosum* (Pursh) Morgan & Hartman var. *spinulosum*

- spinulosus* (Pursh) A.P. de Candolle subsp. *glaberrimus* (Rydberg) Hall = *Xanthisma glaberrimum* (Rydberg) Nesom & O'Kennon  
*spinulosus* (Pursh) A.P. de Candolle subsp. *laevis* (Wooton & Standley) Hall = *Xanthisma spinulosum* (Pursh) Morgan & Hartman var. *spinulosum*  
*spinulosus* (Pursh) A.P. de Candolle subsp. *scabrellus* (Greene) Hall = *Xanthisma spinulosum* (Pursh) Morgan & Hartman var. *spinulosum*  
*spinulosus* (Pursh) A.P. de Candolle = *Xanthisma spinulosum* (Pursh) Morgan & Hartman var. *spinulosum*  
*tenuisectus* (Greene) Blake = *Isocoma tenuisecta* Greene  
*texanus* Coulter = *Haploesthes greggii* Gray var. *texana* (Coulter) I.M. Johnson

**Hedosyne** marsh-elder

Strother, J.L. 2000. *Hedosyne* (Compositae, Ambrosiinae), a new genus for *Iva ambrosiifolia*. *Madroño* 47(3):204-205.

**ambrosiifolia** (A. Gray) Strother [M&H; W&S]

- Euphrosyne ambrosiifolia* A. Gray  
*Cyclachaena ambrosiifolia* (A. Gray) Rydberg  
*Iva ambrosiifolia* (A. Gray) A. Gray

**Hedypnois** hedypnois

\***cretica** (Linnaeus) Dumont de Courset [McIntosh 1999]

*Hyoseris cretica* Linnaeus

*Heleniastrum hoopesii* (Gray) Kuntze = *Hymenoxys hoopesii* (A. Gray) Bierner

**Helenium**

sneezeweed

Bierner, M. 1972. Taxonomy of *Helenium* sect. *Tetrodus* and a conspectus of North American *Helenium* (Compositae). *Brittonia* 24:331-355.

Bierner, M.W. 1994. Submersion of *Dugaldia* and *Plummera* in *Hymenoxys* (Asteraceae: Heliantheae: Gaillardiiinae). *Sida* 16(1):1-8.

Strahan, R. 2007. Plant distribution reports. *The New Mexico Botanist* 40:16. [*Helenium amarum badium*]

**amarum** (Rafinesque) H. Rock var. **badium** (Gray ex S. Watson) Waterfall

[Strahan 2007]

*Helenium tenuifolium* Nuttall var. *badium* Gray ex S. Watson

**autumnale** Linnaeus var. **montanum** (Nuttall) Fernald [M&H; W&S]

*Helenium montanum* Nuttall

*hoopesii* A. Gray = *Hymenoxys hoopesii* (A. Gray) Bierner

**microcephalum** A.P. de Candolle var. **microcephalum** [M&H]

*montanum* Nuttall = *Helenium autumnale* Linnaeus var. *montanum* (Nuttall) Fernald

*tenuifolium* Nuttall var. *badium* Gray ex S. Watson = *Helenium amarum* (Rafinesque) H.

Rock var. *badium* (Gray ex S. Watson) Waterfall

**Helianthella** dwarf sunflower

Hitchcock, C.L. & A. Cronquist. 1973. *Flora of the Pacific Northwest*. Univ. Washington Press, Seattle. 730 pp. [*Helianthella uniflora*]

Tidestrom, I. & T. Kittell. 1941. *A Flora of Arizona and New Mexico*. The Catholic University of America Press, Washington, D.C. 897 pp. [*Helianthella uniflora*]

Weber, W.A. 1952. The genus *Helianthella* (Compositae). *Amer. Midl. Naturalist* 48:1-35.

*majuscula* Greene = *Helianthella quinquenervis* (Hooker) Gray

**microcephala** (Gray) Gray [M&H; W&S]

*Encelia microcephala* Gray

**parryi** Gray [M&H; W&S; Weber 1952]

*pringlei* Gray = *Flourensia pringlei* (Gray) Blake

**quinquenervis** (Hooker) Gray [M&H; W&S; Weber 1952]

*Helianthella majuscula* Greene

*Helianthus quinquenervis* Hooker

**uniflora** (Nuttall) Torrey & Gray [Hitchcock & Cronquist 1973; Tidestrom & Kittell 1941]

*Helianthus uniflorus* Nuttall

**Helianthus** sunflower

Chandler, J.M., C.-C. Jan, & B.H. Beard. 1986. Chromosomal differentiation among the annual *Helianthus* species. *Syst. Bot.* 11(2):354-371.

Gleason, H.A. 1963. *The New Britton and Brown Illustrated Flora of the Northeastern United States and Adjacent Canada*. Hafner Publ. Co., New York. [*Helianthus ×laetiflorus*]

Heil, K.D., S.L. O'Kane, & A. Clifford. 2002. Additions to the flora of New Mexico from the San Juan Basin Flora project. *The New Mexico Botanist* 24:1-4. [*Helianthus maximiliani*]

- Heiser, C.B. Jr., D.M. Smith, S.B. Clevenger, and W.C. Martin. 1969. The North American sunflowers (*Helianthus*). Mem. Torrey Bot. Club, Vol. 22 (3):1-218.
- Jackson, R.C. 1959. Two new sunflower species from southern New Mexico. *Madroño* 15:54-57.
- Jackson, R.C. 1963. Cytotaxonomy of *Helianthus ciliaris* and related species of the southwestern U.S. and Mexico. *Brittonia* 15:260-271.
- New Mexico Rare Plant Technical Council. 1999. New Mexico Rare Plants. Albuquerque, NM: New Mexico Rare Plants Home Page. <http://nmrareplants.unm.edu> (Version 16Mar00) [*Helianthus praetermissus*]
- Seiler, G.J., L. Cuk, and C.E. Rogers. 1981. New and interesting distribution records for *Helianthus paradoxus* Heiser (Asteraceae). *Southw. Naturalist* 26:431-432.
- Sivinski, R.C. 1993. Noteworthy collections (New Mexico). *Madroño* 40:273-274. [*Helianthus paradoxus*]
- Watson, E.E. 1929. Contributions to a monograph of the genus *Helianthus*. Papers of the Michigan Academy of Science, Arts, and Letters 9:305-475. [*Helianthus attenuatus*, *Helianthus praetermissus*]
- annuus** Linnaeus [M&H; W&S]  
*Helianthus aridus* Rydberg  
 anomalus Blake : Erroneously reported by Chandler et al. (1986) from “New Mexico, Hopi Indian Reservation”; known only from Utah, Arizona, and Nevada.
- aridus* Rydberg = *Helianthus annuus* Linnaeus
- arizonensis** Jackson [Jackson 1963; M&H]  
 attenuatus E.E. Watson : The identity of this name is uncertain. It was named from a specimen grown in Tennessee from seed gathered in NM by A. Fendler in 1852. There is a single specimen at MO [Watson 1929].
- canus* (Britton) Wooton & Standley = *Helianthus petiolaris* Nuttall var. *canescens* Gray
- ciliaris** A.P. de Candolle [M&H; W&S]  
 Texas blueweed  
*crenatus* Jackson = *Helianthus laciniatus* Gray  
*dentatus* Cavanilles = *Viguiera dentata* (Cavanilles) Sprengel  
*fascicularis* Greene = *Helianthus nuttallii* Torrey & Gray  
*grosseserratus* Martens : Reported by W&S, but this species is not known from NM; the plants in question are referred to *Helianthus nuttallii* Torrey & Gray [Heiser et al. 1969].
- heiseri* Jackson = *Helianthus laciniatus* Gray
- laciniatus** Gray [Jackson 1959; M&H]  
*Helianthus crenatus* Jackson  
*Helianthus heiseri* Jackson  
*Helianthus laciniatus* Gray subsp. *crenatus* (Jackson) Jackson  
*Helianthus laciniatus* Gray subsp. *heiseri* (Jackson) Jackson
- laciniatus* Gray subsp. *crenatus* (Jackson) Jackson = *Helianthus laciniatus* Gray subsp. *crenatus* (Jackson) Jackson
- laciniatus* Gray subsp. *heiseri* (Jackson) Jackson = *Helianthus laciniatus* Gray subsp. *heiseri* (Jackson) Jackson
- ×*laetiflorus* Persoon (in part) : this presumably hybrid derivative (perhaps mainly a cultigen) was reported for NM as an escape from gardens by Gleason (1963); awaits verification of established occurrence.
- laetiflorus* Persoon var. *subrhomboides* (Rydberg) Fernald = *Helianthus pauciflorus* Nuttall subsp. *subrhomboides* (Rydberg) O. Spring & E.E. Schilling
- laevis* Linnaeus = *Bidens laevis* (Linnaeus) Britton, Sterns, & Poggenburg
- maximiliani** Schrader [Heil et al. 2002]  
 Michaelmas daisy
- neglectus** Heiser [M&H]  
*neomexicanus* Wooton & Standley = *Helianthus tuberosus* Linnaeus  
*niveus* (Bentham) Brandegees subsp. *canescens* (Gray) Heiser = *Helianthus petiolaris* Nuttall var. *canescens* Gray
- nuttallii** Torrey & Gray [M&H; W&S]  
*Helianthus fascicularis* Greene
- paradoxus** Heiser [Seiler et al. 1981; Sivinski 1993]
- pauciflorus** Nuttall var. **subrhomboides** (Rydberg) Fernald [M&H; W&S]  
*Helianthus laetiflorus* Persoon  
*Helianthus pauciflorus* Nuttall subsp. *subrhomboides* (Rydberg) O. Spring & E.E. Schilling

- Helianthus rigidus* (Cassini) Desfontaines subsp. *subrhomboideus* (Rydberg) Heiser  
*Helianthus scaberrimus* Bentham var. *subrhomboideus* (Rydberg) Farwell  
*Helianthus subrhomboideus* Rydberg  
*pauciflorus* Nuttall subsp. *subrhomboideus* (Rydberg) O. Spring & E.E. Schilling =  
*Helianthus pauciflorus* Nuttall var. *subrhomboideus* (Rydberg) Fernald  
***petiolaris*** Nuttall var. ***canescens*** Gray [M&H; W&S]  
*Helianthus canus* (Britton) Wooton & Standley  
*Helianthus niveus* (Bentham) Brandege subsp. *canescens* (Gray) Heiser  
***petiolaris*** Nuttall var. ***fallax*** (Heiser) B.L. Turner [M&H]  
*Helianthus petiolaris* Nuttall subsp. *fallax* Heiser  
*petiolaris* Nuttall subsp. *fallax* Heiser = *Helianthus petiolaris* Nuttall var. *fallax* (Heiser) B.L. Turner  
***petiolaris*** Nuttall var. ***petiolaris*** [M&H; W&S]  
 praetermissus E.E. Watson : Reported by Tidestrom & Kittell (1941) and Watson (1929), but the occurrence in NM and the validity of this taxon is seriously questioned [New Mexico Rare Plant Technical Council 1999; Sivinski & Lightfoot 1995].  
*quinquenervis* Hooker = *Helianthella quinquenervis* (Hooker) Gray  
*rigidus* (Cassini) Desfontaines subsp. *subrhomboideus* (Rydberg) Heiser = *Helianthus pauciflorus* Nuttall subsp. *subrhomboideus* (Rydberg) O. Spring & E.E. Schilling  
*scaberrimus* Bentham var. *subrhomboideus* (Rydberg) Farwell = *Helianthus pauciflorus* Nuttall subsp. *subrhomboideus* (Rydberg) O. Spring & E.E. Schilling  
*subrhomboideus* Rydberg = *Helianthus pauciflorus* Nuttall subsp. *subrhomboideus* (Rydberg) O. Spring & E.E. Schilling  
***tuberosus*** Linnaeus [M&H; W&S]  
 Jerusalem artichock  
*Helianthus neomexicanus* Wooton & Standley  
*uniflorus* Nuttall = *Helianthella uniflora* (Nuttall) Torrey & Gray
- Heliomeris*** goldeneye  
 Schilling, E.E. 2006. *Heliomeris*, pp. 169-172. IN: Flora of North America, vol. 21(3). Oxford University Press.  
 Yates, W.F. & C.B. Heiser. 1979. Synopsis of *Heliomeris*. Proc. Indiana Acad. Sci. 88:364-372.
- hispida*** (Gray) Cockerell [M&H; W&S]  
*Viguiera ciliata* (B.L. Robinson & J.L. Greenman) Blake  
*Gymnolomia ciliata* (B.L. Robinson & J.L. Greenman) Rydberg  
*Gymnolomia hispida* B.L. Robinson & J.L. Greenman var. *ciliata* B.L. Robinson & J.L. Greenman  
*Heliomeris multiflora* Nuttall var. *hispida* Gray  
***longifolia*** (B.L. Robinson & J.L. Greenman) Cockerell var. ***annua*** (M.E. Jones) W.F. Yates [M&H; W&S]  
*Gymnolomia annua* (M.E. Jones) B.L. Robinson & J.L. Greenman  
*Gymnolomia multiflora* (Nuttall) Bentham & Hooker var. *annua* M.E. Jones  
*Viguiera longifolia* (B.L. Robinson & J.L. Greenman) Blake var. *annua* (M.E. Jones) Welsh  
***longifolia*** (B.L. Robinson & J.L. Greenman) Cockerell var. ***longifolia*** [M&H; W&S]  
*Viguiera longifolia* (B.L. Robinson & J.L. Greenman) Blake  
*Gymnolomia longifolia* B.L. Robinson & J.L. Greenman  
***multiflora*** Nuttall var. ***brevifolia*** (Greene ex Wooton & Standley) W.F. Yates [Schilling 2006; W&S]  
*Gymnolomia brevifolia* Greene ex Wooton & Standley, not *Viguiera brevifolia* Greenman  
*Viguiera multiflora* (Nuttall) Blake var. *ovalis* Blake  
*Viguiera ovalis* Blake  
*multiflora* Nuttall var. *hispida* Gray = *Heliomeris hispida* (Gray) Cockerell  
***multiflora*** Nuttall var. ***multiflora*** [M&H; W&S]  
*Gymnolomia multiflora* (Nuttall) Bentham & Hooker  
*Viguiera multiflora* (Nuttall) S.F. Blake

- multiflora** Nuttall var. **nevadensis** (A. Nelson) W.F. Yates [Schilling 2006]  
*Gymnolomia nevadensis* A. Nelson  
*tenuifolia* A. Gray = *Sidneya tenuifolia* (A. Gray) E.E. Schilling & Panero
- Heliopsis** oxeve  
 Fisher, T.R. 1957. Taxonomy of genus *Heliopsis* (Compositae). Ohio J. Sci. 57:171-191.  
 Smith, A. 2006. *Heliopsis*, pp. 67-70. IN: Flora of North America, vol. 21. Oxford University Press.  
*helianthoides* (Linnaeus) Sweet subsp. *occidentalis* Fisher = *Heliopsis helianthoides*  
 (Linnaeus) Sweet var. *scabra* (Dunal) Fernald
- helianthoides** (Linnaeus) Sweet var. **scabra** (Dunal) Fernald [Fisher 1957]  
*Heliopsis helianthoides* (Linnaeus) Sweet subsp. *occidentalis* Fisher  
*Heliopsis scabra* Dunal
- parvifolia** Gray [Fisher 1957; M&H]  
*scabra* Dunal = *Heliopsis helianthoides* (Linnaeus) Sweet var. *scabra* (Dunal) Fernald
- Hemiachyris glutinosa* Schauer = *Gutierrezia texana* (A.P. de Candolle) Torrey & Gray var.  
*glutinosa* (Schauer) M.A. Lane
- Hemiptilium bigelovii* Gray = *Stephanomeria exigua* Nuttall subsp. *exigua*
- Herrickia** herrickia  
 Brouillet, L., L. Urbatsch, & R.P. Roberts. 2004. *Tonestus kingii* and *T. aberrans* are related to *Eurybia* and the Machaerantherinae (Asteraceae: Astereae) based on nrDNA (ITS and ETS) data: Reinstatement of *Herrickia* and a new genus, *Triniteurybia*. Sida 21 (2):889-900.  
 Nesom, G.L. 1994 [1995]. Review of the taxonomy of *Aster* sensu lato (Asteraceae: Astereae), emphasizing the New World species. Phytologia 77(3):141-297.
- glauca** (Nuttall) Brouillet [M&H; W&S]  
*Aster glaucodes* Blake var. *formosus* (Greene) Kittell  
*Aster glaucodes* Blake var. *glaucodes*  
*Aster glaucus* (Nuttall) Torrey & Gray  
*Aster glaucus* (Nuttall) Torrey & Gray var. *formosus* (Greene) A. Nelson  
*Eucephalus formosus* Greene  
*Eucephalus glaucus* Nuttall  
*Eurybia glauca* (Nuttall) Nesom
- horrida** Wootton & Standley [M&H; W&S]  
*Aster horridus* (Wootton & Standley) Blake  
*Eurybia horrida* (Wootton & Standley) Nesom
- Heteropleura fendleri* (Schultz-Bipontinus) Rydberg = *Hieracium fendleri* Schultz-Bipontinus
- Heterosperma** heterosperma  
**pinnatum** Cavanilles [M&H; W&S]  
*Heterosperma tagetinum* Gray  
*tagetinum* Gray = *Heterosperma pinnatum* Cavanilles  
*dicranocarpa* Gray = *Dicranocarpus parviflorus* (Gray) Gray
- Heterotheca** camphorweed, golden-aster  
 Legler, B.S. 2010. Additions to the vascular flora of New Mexico. J. Bot. Res. Inst. Texas 4(2):777-784. [*Heterotheca pumila*]  
 Nesom, G.L. 1990. Taxonomy of *Heterotheca* sect. *Heterotheca* (Asteraceae: Astereae) in Mexico, with comments on the taxa of the United States. Phytologia 69(4):282-294.  
 Nesom, G.L. 2006. Taxonomic overview of the *Heterotheca villosa* complex (Asteraceae: Astereae). Sida 22(1):367-380.  
 Nesom, G.L. 2007. Taxonomic overview of the *Heterotheca fulcrata* complex (Asteraceae: Astereae). J. Bot. Res. Inst. Texas 1(1):21-30.  
 Semple, J.C. 1987. New names, combinations, and lectotypifications in *Heterotheca* (Compositae: Astereae). Brittonia 39(3):379-386.  
 Semple, J.C. 1990. Neotypification of *Amellus villosus*, the identity of a Bradbury collection, and typification of some other goldenasters (Compositae: Astereae). Brittonia 42(3):221-228.  
 Semple, J.C. 1994. New combinations in the *Heterotheca villosa* (Pursh) Shinnners complex (Compositae: Astereae). Novon 4:53-54.  
 Semple, J. 1996. A revision of *Heterotheca* sect. *Phyllothea* (Nuttall) Harms (Compositae: Astereae). Univ. Waterloo Biol. Ser. 37:1-164.  
 Semple, J.C. 2006. *Heterotheca*, p. 230-256. IN: Flora of North America, vol. 20. Oxford University Press, New York.  
 Semple, J.C., V.C. Blok, and P. Heiman. 1980. Morphological, anatomical, habit, and habitat differences among the goldenaster genera *Chrysopsis*, *Heterotheca* and *Pityopsis* (Compositae-Astereae). Can. J. Bot. 58:147-163.  
*arizonica* (Semple) Nesom = *Heterotheca fulcrata* (Greene) Shinnners var. *arizonica* Semple  
**canescens** (A.P. de Candolle) Shinnners [M&H; Semple 1996; W&S]

camphorweed

*Chrysopsis berlandiera* Greene

*Chrysopsis canescens* (A.P. de Candolle) Torrey & Gray

*Chrysopsis villosa* (Pursh) Nuttall var. *canescens* (A.P. de Candolle) Gray

*Haplopappus canescens* A.P. de Candolle

***fulcrata*** (E.L. Greene) Shinners var. ***amplifolia*** (Rydberg) Semple [Semple 1996; W&S]

camphorweed

*Chrysopsis amplifolia* Rydberg

*Chrysopsis nitidula* Wooton & Standley

***fulcrata*** (Greene) Shinners var. ***arizonica*** Semple [Semple 1996]

camphorweed

*Heterotheca arizonica* (Semple) Nesom

***fulcrata*** (Greene) Shinners var. ***fulcrata*** [M&H; Semple 1996 W&S]

camphorweed

*Chrysopsis cryptocephala* Wooton & Standley

*Chrysopsis fulcrata* Greene

*Chrysopsis resinolens* A. Nelson

***fulcrata*** (E.L. Greene) Shinners var. ***senilis*** (Wooton & Standley) Semple [M&H; Semple 1996 W&S]

camphorweed

*Chrysopsis senilis* Wooton & Standley

*horrida* (Rydberg) Harms = *Heterotheca villosa* (Pursh) Shinners var. *nana* (A. Gray) Semple

*latifolia* Buckley = *Heterotheca subaxillaris* (Lamarck) Britton & Rusby var. *latifolia* (Buckley) Gandhi & R.D. Thomas

*latifolia* Buckley var. *macgregoris* Wagenknecht = *Heterotheca subaxillaris* (Lamarck) Britton & Rusby

*polothrix* Nesom = *Heterotheca villosa* (Pursh) Shinners var. *scabra* (A. Eastwood) Semple

*psammophila* Wagenknecht = *Heterotheca subaxillaris* (Lamarck) Britton & Rusby

***pumila*** (Greene) Semple [Legler 2010]

golden-aster

*Chrysopsis pumila* Greene

*sierrablancensis* (Semple) Nesom = *Heterotheca villosa* (Pursh) Shinners var.

*sierrablancensis* Semple

*stenophylla* (A. Gray) Shinners var. *angustifolia* (Rydberg) Semple = *Heterotheca villosa* (Pursh) Shinners var. *angustifolia* (Rydberg) Harms

***stenophylla*** (A. Gray) Shinners [Semple 1996]

golden-aster

*Chrysopsis hispida* (Hooker) A.P. de Candolle var. *stenophylla* A. Gray

***subaxillaris*** (Lamarck) Britton & Rusby var. ***latifolia*** (Buckley) Gandhi & R.D. Thomas [Semple 2006; M&H; W&S]

telegraph plant

*Heterotheca latifolia* Buckley

*Heterotheca latifolia* Buckley var. *macgregoris* Wagenknecht

*Heterotheca psammophila* Wagenknecht

*Heterotheca subaxillaris* (Lamarck) Britton & Rusby subsp. *latifolia* (Buckley) Semple

*subaxillaris* (Lamarck) Britton & Rusby subsp. *latifolia* (Buckley) Semple = *Heterotheca subaxillaris* (Lamarck) Britton & Rusby

*villosa* (Pursh) Shinners var. *foliosa* (Nuttall) Harms = *Heterotheca villosa* (Pursh) Shinners var. *villosa*

*villosa* (Pursh) Shinners var. *horrida* (Hooker) Semple = *Heterotheca villosa* (Pursh) Shinners var. *nana* (A. Gray) Semple

***villosa*** (Pursh) Shinners var. ***angustifolia*** (Rydberg) Harms [Nesom 2007; Semple 1996]

golden-aster

*Chrysopsis angustifolia* Rydberg

*Heterotheca stenophylla* (A. Gray) Shinners var. *angustifolia* (Rydberg) Semple

**villosa** (Pursh) Shinnars var. **minor** (Hooker) Semple [M&H; Semple 1996; W&S]  
golden-aster  
*Chrysopsis hirsutissima* Greene  
*Chrysopsis hispida* (Hooker) A.P. de Candolle  
*Chrysopsis villosa* (Pursh) Nuttall ex A.P. de Candolle var. **minor** Hooker

**villosa** (Pursh) Shinnars var. **nana** (A. Gray) Semple [M&H; Semple 1996]  
golden-aster  
*Chrysopsis horrida* Rydberg  
*Chrysopsis villosa* (Pursh) Shinnars var. **horrida** (Hooker) Semple  
*Chrysopsis canescens* (A.P. de Candolle) Torrey & Gray var. **nana** A.Gray  
*Heterothea horrida* (Rydberg) Harms

**villosa** (Pursh) Shinnars var. **pedunculata** (Greene) Harms ex Semple [Nesom 2007; Semple 1996]

golden-aster  
*Chrysopsis pedunculata* Greene

**villosa** (Pursh) Shinnars var. **scabra** (A. Eastwood) Semple [Nesom 2007; Semple 1996]

golden-aster  
*Chrysopsis villosa* (Pursh) Nuttall ex A.P. de Candolle var. **scabra** Eastwood  
*Heterothea polothrix* Nesom

+**villosa** (Pursh) Shinnars var. **sierrablancensis** Semple [Semple 1996]  
golden-aster

*Heterothea sierrablancensis* (Semple) Nesom

**villosa** (Pursh) Shinnars var. **villosa** [Nesom 2007; Semple 1996]

golden-aster  
*Amellus villosus* Pursh  
*Chrysopsis foliosa* Nuttall

**viscida** (Gray) Harms [M&H; Semple 1996]

golden-aster  
*Chrysopsis villosa* (Pursh) Nuttall ex A.P. de Candolle var. **viscida** A.Gray  
*Chrysopsis viscida* (Gray) Greene

**zionensis** Semple [Semple 1987]

### **Hieracium** hawkweed

Beaman, J.H. 1990. Revision of *Hieracium* (Asteraceae) in Mexico and Central America. Syst. Bot. Monogr. 29:1-77.

Cronquist, A. 1994. *Hieracium*, pp. 455-458. IN: Intermountain Flora, vol. 5. New York Botanical Garden.

Reif, B., J. Larson, B.R. Jacobs, B.E. Nelson, & R.L. Hartman. 2009. Floristic studies in north central New Mexico, U.S.A., the Tusa Mountains and the Jemez Mountains. J. Bot. Res. Inst. Texas 3(2):921-961. [*Hieracium* ×*floribundum*]

Sivinski, R.C. 2009. Mogollon hawkweed (*Hieracium brevipilum*). Status Report, Section 6, Segment 23. U.S. Fish & Wildlife Service, Region 2.

Strother, J.L. 2006. *Hieracium*, p. 278-294. IN: Flora of North America, vol. 19. Oxford University Press, New York.

**abscissum** Lessing [M&H; W&S]

*Hieracium rusbyi* Greene

**brevipilum** Greene [M&H; Sivinski 2009; W&S]

*Hieracium fendleri* Schultz-Bipontinus var. **mogollonense** Gray

**carneum** Greene [M&H; W&S]

**crepidispermum** Fries [Beaman 1990; M&H; W&S]

*Hieracium lemmonii* Gray

**fendleri** Schultz-Bipontinus [M&H; W&S]

*Heteropleura fendleri* (Schultz-Bipontinus) Rydberg

\*×**floribundum** Wimmer & Grabowski [Reif et al. 2009]

**fendleri** Schultz-Bipontinus var. **mogollonense** Gray = *Hieracium brevipilum* Greene

**gracile** Hooker = *Hieracium triste* Willdenow ex Sprengel

**lemmonii** Gray = *Hieracium crepidispermum* Fries

**pringlei** Gray [M&H; W&S]

**rusbyi** Greene = *Hieracium abscissum* Lessing

**triste** Willdenow ex Sprengel [M&H]

*Hieracium gracile* Hooker

*Hieracium triste* Willdenow ex Sprengel var. *gracile* (Hooker) Gray

*triste* Willdenow ex Sprengel var. *gracile* (Hooker) Gray = *Hieracium triste* Willdenow ex Sprengel

*Hymenatherum aureum* Gray = *Thymophylla aurea* (Gray) Greene ex Britton var. *aurea*

*belenidium* A.P. de Candolle = *Thymophylla pentachaeta* (A.P. de Candolle) Small var. *belenidium* (A.P. de Candolle) Strother

*neomexicanum* Gray = *Adenophyllum wrightii* Gray

*hartwegii* Gray = *Thymophylla pentachaeta* (A.P. de Candolle) Small var. *hartwegii* (Gray) Strother

*pentachaetum* Gray = *Thymophylla pentachaeta* (A.P. de Candolle) Small var. *pentachaeta*

*polychaetum* Gray = *Thymophylla aurea* (Gray) Greene ex Britton var. *polychaeta* (Gray) Strother

*tenuilobum* A.P. de Candolle = *Thymophylla tenuiloba* (A.P. de Candolle) Small

*thurberi* Gray = *Thymophylla pentachaeta* (A.P. de Candolle) Small var. *belenidium* (A.P. de Candolle) Strother

*Hymenoclea monogyra* Torrey & Gray ex Gray = *Ambrosia monogyra* (Torrey & Gray ex Gray) Strother & Baldwin

***Hymenopappus*** woollywhite

Allred, K.W. 2012. Plant distribution reports [*Hymenopappus radiatus*]. The New Mexico Botanist 56:3.

Great Plains Flora Association. 1977. Atlas of the Flora of the Great Plains. Iowa State Univ. Press. 600 pp.

[*Hymenopappus filifolius polycephalus*]

Turner, B.L. 1956. A cytotaxonomic study of the genus *Hymenopappus* (Compositae). Rhodora 58:163-186, 208-242, 250-269, 295-308.

*arenosus* Heller = *Hymenopappus filifolius* Hooker var. *cinereus* (Rydberg) I.M. Johnston

*biennis* B.L. Turner [M&H; Turner 1956]

*cinereus* Rydberg = *Hymenopappus filifolius* Hooker var. *cinereus* (Rydberg) I.M. Johnston

*douglasii* Hooker = *Chaenactis douglasii* (Hooker) Hooker & Arnott

***filifolius*** Hooker var. ***cinereus*** (Rydberg) I.M. Johnston [M&H; Turner 1956; W&S]

*Hymenopappus arenosus* Heller

*Hymenopappus cinereus* Rydberg

***filifolius*** Hooker var. ***lugens*** (Greene) Jepson [M&H; Turner 1956; W&S]

*Hymenopappus lugens* Greene

*Hymenopappus nudatus* Wooton & Standley

***filifolius*** Hooker var. ***pauciflorus*** (I.M. Johnston) B.L. Turner [Spellenberg et al. 1986]

*Hymenopappus pauciflorus* I.M. Johnston

***filifolius*** Hooker var. ***polycephalus*** (Osterhout) B.L. Turner [Great Plains Flora Association 1977]

*Hymenopappus polycephalus* Osterhout

*fisheri* Wooton & Standley = *Hymenopappus flavescens* Gray var. *flavescens*

***flavescens*** Gray var. ***canotomentosus*** Gray [M&H; Turner 1956; W&S]

*Hymenopappus robustus* Greene

***flavescens*** Gray var. ***flavescens*** [M&H; Turner 1956; W&S]

*Hymenopappus fisheri* Wooton & Standley

*Rothia flavescens* (Gray) Kuntze

*integer* Greene = *Hymenopappus mexicanus* Gray

*lugens* Greene = *Hymenopappus filifolius* Hooker var. *lugens* (Greene) Jepson

***mexicanus*** Gray [M&H; Turner 1956; W&S]

*Hymenopappus integer* Greene

*Rothia mexicana* (Gray) Kuntze

***newberryi*** (Gray) I.M. Johnston [M&H; Turner 1956; W&S]

*Leucampyx newberryi* Gray

*nudatus* Wooton & Standley = *Hymenopappus filifolius* Hooker var. *lugens* (Greene) Jepson

*pauciflorus* I.M. Johnston = *Hymenopappus filifolius* Hooker var. *pauciflorus* (I.M. Johnston) B.L. Turner

*polycephalus* Osterhout = *Hymenopappus filifolius* Hooker var. *polycephalus* (Osterhout) B.L. Turner

***radiatus*** Rose [Allred 2012; W&S]



*robustus* Greene = *Hymenopappus flavescens* Gray var. *canotomentosus* Gray

***tenuifolius*** Pursh [M&H; Turner 1956; W&S]

*Rothia tenuifolia* Kuntze

***Hymenothrix*** thimblehead

Baldwin, B.G. and K. R. Wood. 2016. Origin of the Rapa endemic genus *Apostates*: Revisiting major disjunctions and the evolutionary conservatism in the *Bahia* alliance. *Taxon* 65: 1064-1080.

Ellison, W.L. 1964. A systematic study of the genus *Bahia* (Compositae). *Rhodora* 66: 67-86; 178-186; 288-311.

Turner, B.L. 2010. Recension of the Mexican *Amauriopsis* (Asteraceae: Bahieae). *Phytoneuron* 2010-10: 1-7.

***biternata*** (A. Gray) B.G. Baldwin [M&H; W&S]

*Amauriopsis biternata* (Gray) B.L. Turner

*Bahia biternata* Gray

*Schkuhria biternata* (A. Gray) A. Gray

*Villanova biternata* (Gray) Wooton & Standley

***dissecta*** (Gray) B.G. Baldwin [M&H]

*Amauria dissecta* Gray

*Amauriopsis dissecta* (Gray) Rydberg

*Bahia chrysanthemoides* (A. Gray) A. Gray

*Bahia dissecta* (Gray) Britton

*Bahia dissecta* var. *anisopappa* Blake

*Eriophyllum chrysanthemoides* (A. Gray) Kuntze

*Villanova chrysanthemoides* A. Gray

*Villanova dissecta* (Gray) Rydberg

***pedata*** (A. Gray) B.G. Baldwin [M&H]

*Amauriopsis pedata* (Gray) B.L. Turner

*Bahia pedata* Gray

*Eriophyllum pedatum* (Gray) Kuntze

*Schkuhria pedata* (A. Gray) A. Gray

***wislizeni*** A. Gray [M&H; W&S]

***wrightii*** Gray [M&H; W&S]

***Hymenoxys*** rubberweed

Biernier, M.W. 1994. Submersion of *Dugaldia* and *Plummera* in *Hymenoxys* (Asteraceae: Heliantheae: Gaillardiiinae). *Sida* 16(1):1-8.

Biernier, M.W. 2004. Taxonomy of *Hymenoxys* subgenus *Macdougalia* (Asteraceae: Helenieae: Tetraneurinae). *Sida* 21(2):657-663.

O'Kane, S.L. 1988. Colorado's rare flora. *Great Basin Naturalist* 48(4):434-475. [*Hymenoxys helenioides*]

Parker, K.F. 1981. New combinations in *Tetraneuris* Greene (Heliantheae, Asteraceae). *Phytologia* 45:467.

Wagner, W.L., R.A. Fletcher, & R.K. Shannon. 1999. Another look at *Hymenoxys* subgenus *Plummera* (Asteraceae: Heliantheae: Gaillardiiinae) from Arizona and New Mexico. *Brittonia* 51(1):79-86.

*acaulis* (Pursh) Parker var. *acaulis* = *Tetraneuris acaulis* (Pursh) Greene var. *acaulis*

*acaulis* (Pursh) Parker var. *arizonica* (Greene) Parker = *Tetraneuris acaulis* (Pursh) Greene var. *arizonica* (Greene) Parker

*acaulis* (Pursh) Parker var. *caespitosa* (A. Nelson) Parker = *Tetraneuris acaulis* (Pursh) Greene var. *caespitosa* A. Nelson

*acaulis* (Pursh) Parker var. *ivesiana* (Greene) Parker = *Tetraneuris ivesiana* Greene

*acaulis* (Pursh) Parker var. *nana* Welsh = *Tetraneuris acaulis* (Pursh) Greene var. *arizonica* (Greene) Parker

+***ambigens*** (S.F. Blake) Biernier var. ***neomexicana*** Wagner [Wagner 1979; Wagner et al. 1999]

*Plummera ambigens* of NM authors

*argentea* (Gray) Parker = *Tetraneuris argentea* (Gray) Greene

*argentea* (Gray) Parker var. *thoreauensis* Atwood, Welsh, & Clifford = *Tetraneuris argentea* (Gray) Greene

***bigelovii*** (Gray) Parker [Biernier 2004; M&H; W&S]

*Actinella bigelovii* Gray

*Macdougalia bigelovii* (Gray) Heller

+***brachyactis*** Wooton & Standley [W&S]

***brandegeei*** (Porter ex Gray) K.F. Parker [M&H]

*Actinea brandegeei* (Porter ex Gray) Rydberg

*Actinella brandegeei* Porter ex Gray

- Rydbergia brandegeei* (Porter) Rydberg  
*Tetraneuris brandegeei* (Porter ex Gray) Parker  
*cockerellii* Wooton & Standley = *Hymenoxys odorata* A.P. de Candolle  
*cooperi* (Gray) Cockerell subsp. *grayi* Cockerell = *Hymenoxys quinquesquamata* Rydberg  
*floribunda* (Gray) Cockerell = *Hymenoxys richardsonii* (Hooker) Cockerell var. *floribunda*  
 (Gray) Parker  
***helenioides*** (Rydberg) Cockerell [Heil et al. 2002; O’Kane 1988]  
*Picradenia helenioides* Rydberg  
***hoopesii*** (A. Gray) Bierner [M&H; W&S]  
 sneezeweed  
*Dugaldea hoopesii* (Gray) Rydberg  
*Heleniastrum hoopesii* (Gray) Kuntze  
*Helenium hoopesii* A. Gray  
*ivesiana* (Greene) Parker = *Tetraneuris ivesiana* Greene  
*linearifolia* Hooker = *Tetraneuris linearifolia* (Hooker) Greene  
*macrantha* (A. Nelson) Rydberg = *Hymenoxys richardsonii* (Hooker) Cockerell var.  
*richardsonii*  
*mearnsii* (Cockerell) Wooton & Standley = *Hymenoxys odorata* A.P. de Candolle  
*metcalfei* Cockerell = *Hymenoxys richardsonii* (Hooker) Cockerell var. *floribunda* (Gray)  
 Parker  
*multiflora* (Buckley) Rydberg = *Hymenoxys odorata* A.P. de Candolle  
***odorata*** A.P. de Candolle [M&H; W&S]  
*Actinella odorata* (A.P. de Candolle) Gray  
*Hymenoxys cockerellii* Wooton & Standley  
*Hymenoxys mearnsii* (Cockerell) Wooton & Standley  
*Hymenoxys multiflora* (Buckley) Rydberg  
*olivacea* Cockerell = *Hymenoxys richardsonii* (Hooker) Cockerell var. *floribunda* (Gray)  
 Parker  
***quinquesquamata*** Rydberg [M&H] Note: Restricted by Bierner (2006) to southern Arizona,  
 mostly the Huachuca Mountains; warrants verification.  
*Hymenoxys cooperi* (Gray) Cockerell subsp. *grayi* Cockerell  
***richardsonii*** (Hooker) Cockerell var. ***floribunda*** (Gray) Parker [M&H; W&S]  
 pingue  
*Actinella richardsonii* (Hooker) Nuttall var. *floribunda* Gray  
*Hymenoxys floribunda* (Gray) Cockerell  
*Hymenoxys metcalfei* Cockerell  
*Hymenoxys olivacea* Cockerell  
***richardsonii*** (Hooker) Cockerell var. ***richardsonii*** [W&S]  
 pingue  
*Actinella richardsonii* (Hooker) Nuttall  
*Hymenoxys macrantha* (A. Nelson) Rydberg  
*Picradenia richardsonii* Hooker  
***rusbyi*** (Gray) Cockerell [M&H; W&S]  
*Actinella rusbyi* Gray  
*scaposa* (A.P. de Candolle) Parker s.s. = *Tetraneuris scaposa* (A.P. de Candolle) Greene  
 var. *scaposa*  
*scaposa* (A.P. de Candolle) Parker var. *glabra* (Nuttall) Parker = *Tetraneuris scaposa* (A.P.  
 de Candolle) Greene var. *scaposa*  
*scaposa* (A.P. de Candolle) Parker var. *linearis* (Nuttall) Parker = *Tetraneuris scaposa* (A.P.  
 de Candolle) Greene var. *scaposa*  
*scaposa* (A.P. de Candolle) Parker var. *villosa* Shinnars = *Tetraneuris scaposa* (A.P. de  
 Candolle) Greene var. *scaposa*  
*torreyana* (Nuttall) K.F. Parker = *Tetraneuris torreyana* (Nuttall) Greene  
***vaseyi*** (Gray) Cockerell [M&H; W&S]  
*Actinella vaseyi* Gray  
*Picradenia vaseyi* (Gray) Greene  
*Hyoseris biflora* Walter = *Krigia biflora* (Walter) S.F. Blake  
*cretica* Linnaeus = *Hedypnois cretica* (Linnaeus) Dumont de Courset

- Hypochaeris** cat's ear  
**\*radicata** Linnaeus [Spellenberg et al. 1993]
- Inula ericoides* Torrey = *Chaetopappa ericoides* (Torrey) Nesom
- Ionactis** ankle-aster  
 Nesom, G.L. 1992. Transfer of *Chaetopappa elegans* to *Ionactis* (Asteraceae: Astereae). *Phytologia* 73(5):416-424.  
 Soreng, R. and R. Spellenberg. 1984. An unusual new *Chaetopappa* (Asteraceae-Astereae) from New Mexico. *Syst. Bot.* 9:1-5.  
**+elegans** (Soreng & Spellenberg) Nesom [Soreng & Spellenberg 1984]  
*Chaetopappa elegans* Soreng & Spellenberg
- Isocoma** Jimmyweed  
 Nesom, G.L. 1991. Taxonomy of *Isocoma* (Compositae: Astereae). *Phytologia* 70:69-114.  
**azteca** Nesom [Nesom 1991]  
*heterophylla* (Gray) Greene = *Isocoma pluriflora* (Torrey & Gray) Greene  
*oxylepis* Wootton & Standley = *Isocoma pluriflora* (Torrey & Gray) Greene  
**pluriflora** (Torrey & Gray) Greene [M&H; Nesom 1991; W&S]  
*Bigelovia pluriflora* Torrey & Gray  
*Haplopappus heterophyllus* (Gray) Blake  
*Haplopappus pluriflorus* (Gray) Hall  
*Isocoma heterophylla* (Gray) Greene  
*Isocoma oxylepis* Wootton & Standley  
*Isocoma wrightii* (Gray) Wootton & Standley  
*Linosyris heterophyllus* Gray  
**rusbyi** Greene [M&H; Nesom 1991]  
*Haplopappus drummondii* of NM reports  
*Haplopappus rusbyi* (Greene) Cronquist  
**tenuisecta** Greene [M&H; Nesom 1991]  
 burrowweed  
*Haplopappus tenuisectus* (Greene) Blake  
*wrightii* (Gray) Wootton & Standley = *Isocoma pluriflora* (Torrey & Gray) Greene
- Iva** marsh-elder  
 Jackson, R.C. 1960. A revision of the genus *Iva* Linnaeus Univ. Kansas Sci. Bull. 41:793-876.  
 Strother, J.L. 2000. *Hedosyne* (Compositae, Ambrosiinae), a new genus for *Iva ambrosiifolia*. *Madroño* 47(3):204-205.  
*acerosa* (Nuttall) R.C. Jackson = *Oxytenia acerosa* Nuttall  
*ambrosiifolia* (Gray) Gray = *Hedosyne ambrosiifolia* (A. Gray) Strother  
**annua** Linnaeus [M&H]  
*Iva ciliata* Willdenow  
**axillaris** Pursh [M&H; W&S]  
*ciliata* Willdenow = *Iva annua* Linnaeus  
*dealbata* Gray = *Leuciva dealbata* (A. Gray) Rydberg  
*xanthiifolia* Nuttall = *Cyclachaena xanthiifolia* (Nuttall) Fresenius
- Jefea** boss-daisy  
 Strother, J.L. 1991. Taxonomy of *Complaya*, *Elaphandra*, *Iogeton*, *Jefea*, *Wamalchitamin*, *Wedelia*, *Zexmenia*, and *Zyzyxia* (Compositae- Heliantheae-Ecliptinae). *Syst. Bot. Monogr.* 33:1-111.  
**brevifolia** (Gray) Strother [M&H; Strother 1991]  
*Zexmenia brevifolia* Gray
- Koanophyllon thoroughwort  
 Nesom, G.L. 2006. *Koanophyllon*, pp. 542-543. IN: *Flora of North America*, vol. 21. Oxford University Press, New York. [*Koanophyllon palmeri*]  
*palmeri* (Gray) R.M. King & H.E. Robinson : Reported by Nesom (2006), but specimens are unknown; awaits verification.  
*Eupatorium palmeri* Gray  
*solidaginifolium* (Gray) R.M. King & H.E. Robinson : Reported by W&S, and thence others, based on C. Wright specimens doubtfully collected in NM; awaits verification.  
*Eupatorium solidaginifolium* Gray
- Keerlia skirrhobasis* A.P. de Candolle = *Aphanostephus skirrhobasis* (A.P. de Candolle) Trelease

**Krigia** dwarf-dandelion

Kim, K.-J. & B.L. Turner. 1992. Systematic overview of *Krigia* (Asteraceae-Lactuceae). Brittonia 44:173-198.

**biflora** (Walter) Blake [M&H; W&S]

*Cynthia viridis* Standley

*Hyoseris biflora* Walter

*Krigia biflora* (Walter) Blake var. *viridis* (Standley) Kim

*biflora* (Walter) Blake var. *viridis* (Standley) Kim = *Krigia biflora* (Walter) Blake

*Kuhnia eupatorioides* Linnaeus var. *chlorolepis* (Wooton & Standley) Cronquist = *Brickellia eupatorioides* (Linnaeus) Shinnars var. *chlorolepis* (Wooton & Standley) B. Turner

*eupatorioides* Linnaeus var. *corymbulosa* Torrey & Gray = *Brickellia eupatorioides* (Linnaeus) Shinnars var. *corymbulosa* (Torrey & Gray) Shinnars

*chlorolepis* Wooton & Standley = *Brickellia eupatorioides* (Linnaeus) Shinnars var. *chlorolepis* (Wooton & Standley) B. Turner

*rosmarinifolia* Ventenat [= *Brickellia eupatorioides* (Linnaeus) Shinnars var. *eupatorioides*] : Reported by W&S, but not known from NM according to Turner (1989); requires validation.

*rosmarinifolia* Ventenat var. *chlorolepis* (Wooton & Standley) Blake = *Brickellia eupatorioides* (Linnaeus) Shinnars var. *chlorolepis* (Wooton & Standley) B. Turner

*Lacinaria lancifolia* Greene = *Liatris lancifolia* (Greene) Kittell

*ligulistylis* A. Nelson = *Liatris ligulistylis* (A. Nelson) K. Schumann

*punctata* (Hooker) Kuntze = *Liatris punctata* Hooker

**Lactuca** lettuce

Hartman, R.L., B. Reif, B.E. Nelson, & B. Jacobs. 2006. New vascular plant records for New Mexico. Sida 22(2):1225-1233.

Koopman, W.J.M., M.J. Zevenbergen, & R.G. Van den Berg. 2001. Species relationships in *Lactuca* s.l. (Lactuceae, Asteraceae) inferred from AFLP fingerprints. Amer. J. Bot. 88:1881-1887.

Stebbins, G.L. 1939. Notes on *Lactuca* in western North America. Madroño 5:123-126.

Strother, J.L. 2006. *Lactuca*, p. 259-263. IN: Flora of North America, vol. 19. Oxford University Press, New York.

Vuilleumier, B. S. 1973. The genera of Lactuceae (Compositae) in the southeastern United States. J. Arnold Arboretum 54: 42-93. [*Lactuca saligna*]

**biennis** (Moench) Fernald [Hartman et al. 2006; Strother 2006]

*Sonchus biennis* Moench

**canadensis** Linnaeus [M&H; W&S]

**graminifolia** Michaux var. **arizonica** McVaugh [M&H; W&S]

*integrata* (Grenier & Godron) A. Nelson = *Lactuca serriola* Linnaeus

**ludoviciana** (Nuttall) A.P. de Candolle [M&H; W&S]

*Sonchus ludovicianus* Nuttall

**oblongifolia** Nuttall [M&H; W&S]

*Lactuca tatarica* (Linnaeus) C.A. Meyer subsp. *pulchella* (Pursh) Stebbins

*Lactuca pulchella* (Pursh) A.P. de Candolle

*Mulgedium pulchellum* (Pursh) G. Don

*Sonchus pulchellus* Pursh

*pulchella* (Pursh) A.P. de Candolle = *Lactuca oblongifolia* Nuttall

\***saligna** Linnaeus [Strother 2006; Vuilleumier 1973]

\***sativa** Linnaeus [Strother 2006]

*scariola* Linnaeus, a later variant spelling = *Lactuca serriola* Linnaeus

*serriola* Linnaeus forma *integrifolia* Bogenhard = *Lactuca serriola* Linnaeus

*serriola* Linnaeus var. *integrata* Grenier & Godron = *Lactuca serriola* Linnaeus

\***serriola** Linnaeus [M&H; W&S]

*Lactuca integrata* (Grenier & Godron) A. Nelson

*Lactuca scariola* Linnaeus, a later variant spelling

*Lactuca serriola* Linnaeus var. *integrata* Grenier & Godron

*Lactuca serriola* Linnaeus forma *integrifolia* Bogenhard

*tatarica* (Linnaeus) C.A. Meyer subsp. *pulchella* (Pursh) Stebbins = *Lactuca oblongifolia* Nuttall

- Laennecia** woolwort  
Nesom, G.L. 1990. Taxonomy of the genus *Laennecia* (Asteraceae: Astereae). *Phytologia* 68(3):205-228.
- coulteri** (A. Gray) Nesom [M&H]  
*Conyza coulteri* A. Gray  
*Eschenbachia coulteri* (Gray) Rydberg
- schiedeana** (Lessing) Nesom [M&H; W&S]  
*Conyza schiedeana* (Lessing) Cronquist  
*Erigeron schiedeanus* Lessing  
*Leptilon integrifolium* Wootton & Standley
- sophiifolia** (Kunth) Nesom [M&H]  
*Conyza coulteri* Gray var. *tenuisecta* Gray  
*Conyza sophiifolia* Kunth  
*Eschenbachia tenuisecta* (Gray) Wootton & Standley
- Laphamia cernua* Greene = *Perityle cernua* (Greene) Shinnery  
*quinqueflora* Steyermark = *Perityle quinqueflora* (Steyermark) Shinnery  
*staurophylla* Barneby = *Perityle staurophylla* (Barneby) Shinnery var. *staurophylla*
- Lappa minus* Hill = *Arctium minus* (Hill) Bernhardt
- Lapsana** lapsana  
Worthington, R.D. 2007. Plant distribution reports [*Lapsana communis*]. *The New Mexico Botanist* 37:7.  
\***communis** Linnaeus [Worthington 2007]
- Lasiantha**  
Strother, J.L. 1991. Taxonomy of *Complaya*, *Elaphandra*, *Logeton*, *Jefea*, *Wamalchitamin*, *Wedelia*, *Zexmenia*, and *Zyzyxia* (Compositae- Heliantheae-Ecliptinae). *Syst. Bot. Monogr.* 33:1-111.
- podocephala** (Gray) Baker [M&H]  
*Verbesina podocephala* Gray  
*Zexmenia podocephala* (Gray) Gray
- Lasthenia** goldfields  
Ornduff, R. 1966. A biosystematics survey of the goldfield genus *Lasthenia* (Compositae; Helenieae). *Univ. Calif. Publ. Botany* 40:1-92.  
Spellenberg, R.S. 2010. Plant distribution reports (*Lasthenia gracilis*). *The New Mexico Botanist* 51:3.
- gracilis** (A.P. de Candolle) Greene [M&H; Spellenberg 2010; W&S]  
*Baeria chrysostoma* Fischer & C.A. Meyer var. *gracilis* (A.P. de Candolle) Hall  
*Baeria gracilis* (A.P. de Candolle) Gray  
*Burrielia gracilis* A.P. de Candolle
- Layia** tidytips  
**glandulosa** (Hooker) Hooker & Arnott var. **glandulosa** [M&H; W&S]  
*Blepharipappus glandulosa* Hooker  
*Layia neomexicana* Gray  
*neomexicana* Gray = *Layia glandulosa* Hooker
- Leibnitzia** sunbonnets  
Nesom, G.L. 1983. Biology and taxonomy of American *Leibnitzia* (Asteraceae: Mutisieae). *Brittonia* 35:126-139.
- lyrata** (Schultz-Bipontinus) G.L. Nesom [M&H; W&S]  
*Chaptalia alsophila* Greene  
*Gerbera lyrata* Schultz-Bipontinus  
*Leibnitzia seemannii* (Schultz-Bipontinus) G.L. Nesom  
*seemannii* (Schultz-Bipontinus) G.L. Nesom = *Leibnitzia lyrata* (Schultz-Bipontinus) G.L. Nesom
- Leontodon** hawkbit  
Sivinski, R.C. 2001. New plant distribution records. *The New Mexico Botanist* 19:3. [*Leontodon taraxacoides*]  
*ceratophorus* Ledebour = *Taraxacum ceratophorum* (Ledebour) A.P. de Candolle  
\***saxatilis** Lamarck [Sivinski 2001]  
*Leontodon taraxacoides* (Villars) Willdenow ex Mérat (not Hoppe & Hornschuch)  
*taraxacoides* (Villars) Willdenow ex Mérat (not Hoppe & Hornschuch) = *Leontodon saxatilis* Lamarck
- Lepidospartum** scalebroom  
Sivinski, R.C. & K. Lightfoot, eds. 1995. Inventory of rare and endangered plants of New Mexico. New Mexico Forestry and Resources Conservation Division, Misc. Publ. No. 4.

Turner, B.L. 1977. *Lepidospartum burgessii* (Asteraceae, Senecioneae), a remarkable new gypsophilic species from Trans-Pecos Texas. *Wrightii* 5(9):354-355.

**burgessii** Turner [Sivinski & Lightfoot 1995]

*Leptilon canadense* (Linnaeus) Britton & Brown = *Conyza canadensis* (Linnaeus) Cronquist  
*integrifolium* Wootton & Standley = *Conyza schiediana* (Lessing) Cronquist

*Leptosyris sonchoides* Nuttall = *Malacothrix sonchoides* (Nuttall) Torrey & Gray

*Leptosyne californica* Nuttall = *Coreopsis californica* (Nuttall) Sharsmith

*Leucampyx newberryi* Gray = *Hymenopappus newberryi* (Gray) I.M. Johnston

**Leucanthemum** oxeye daisy

\***vulgare** Lamarck [M&H; W&S]

*Chrysanthemum leucanthemum* Linnaeus

*Chrysanthemum leucanthemum* Linnaeus var. *pinnatifidum* Lecoq & Lamotte

*Leucelele arenosus* Heller = *Chaetopappa ericoides* (Torrey) Nesom

*ericoides* (Torrey) Greene = *Chaetopappa ericoides* (Torrey) Nesom

**Leuciva** marsh-elder

Strother, J.L. 2000. *Hedosyne* (Compositae, Ambrosiinae), a new genus for *Iva ambrosiifolia*. *Madroño* 47(3):204-205.

**dealbata** (A. Gray) Rydberg [M&H; W&S]

*Iva dealbata* A. Gray

**Leucosyris** spine-aster

Morgan, D.R. & R.L. Hartman. 2003. A synopsis of *Machaeranthera* (Asteraceae: Astereae), with recognition of segregate genera. *Sida* 20(4):1387-1416.

Nesom, G.L., L.A. Vorobik, and R.L. Hartman. 1990. The identity of *Aster blepharophyllus* (Asteraceae: Astereae). *Syst. Bot.* 15(4):638-642.

Pruski, J.F. & R.L. Hartman. 2012. Synopsis of *Leucosyris*, including synonymous *Arida* (Compositae: Astereae). *Phytoneuron* 98: 1-15.

**blepharophylla** (A. Gray) Pruski & Hartman [Nesom et al. 1990]

*Arida blepharophylla* (A. Gray) Morgan & Hartman

*Aster blepharophyllus* A. Gray

*Machaeranthera gypsitherma* Nesom, Vorobik, & Hartman

**parviflora** (A. Gray) Pruski & Hartman [M&H; W&S]

*Arida parviflora* (A. Gray) Morgan & Hartman

*Aster parvulus* Blake

*Aster tanacetifolius* Kunth var. *pygmaeus* Gray

*Machaeranthera parviflora* Gray

*Machaeranthera pygmaea* (Gray) Wootton & Standley

**riparia** (Kunth) Pruski & Hartman [Spellenberg et al. 1986]

*Arida riparia* (Kunth) Morgan & Hartman

*Aster riparius* Kunth

*Machaeranthera riparia* (Kunth) A.G. Jones

*Machaeranthera sonorae* (Gray) Stucky

*spinus* (Benth) Greene = *Chloracantha spinosa* (Benth) Nesom

**Liatris** gayfeather

Gaiser, L.O. 1946. The genus *Liatris*. *Rhodora* 48:165-183, 216-263, 326, 331-382, 393-412.

**lancifolia** (Greene) Kittell [M&H; W&S]

*Lacinaria lancifolia* Greene

**ligulistylis** (A. Nelson) K. Schumann [M&H; W&S]

*Lacinaria ligulistylis* A. Nelson

**punctata** Hooker var. **mexicana** Gaiser [Gaiser 1946]

*punctata* Hooker var. *nebraskana* Gaiser = *Liatris punctata* Hooker var. *punctata*

**punctata** Hooker var. **punctata** [Gaiser 1946; M&H; W&S]

*Lacinaria punctata* (Hooker) Kuntze

*Liatris punctata* Hooker var. *nebraskana* Gaiser

*Ligularia amplexens* (Gray) W.A. Weber = *Senecio amplexens* Gray

*bigelovii* (Gray) W.A. Weber = *Senecio bigelovii* Gray var. *bigelovii*

*bigelovii* (Gray) W.A. Weber var. *hallii* (Gray) W.A. Weber = *Senecio bigelovii* Gray var. *hallii* Gray

*holmii* (Greene) W.A. Weber = *Senecio amplexens* A. Gray var. *holmii* (Greene)  
Harrington

*pudica* (Greene) W.A. Weber = *Senecio pudicus* Greene

- soldanella* (Gray) W.A. Weber = *Senecio soldanella* Gray  
*taraxacoides* (Gray) W.A. Weber = *Senecio taraxacoides* Gray
- Linosyris bigelovii* Gray = *Ericameria nauseosa* (Pallas ex Pursh) Nesom & Baird var. *bigelovii* (Torrey) Nesom & Baird
- heterophyllus* Gray = *Isocoma pluriflora* (Torrey & Gray) Greene  
*howardii* Parry ex A. Gray = *Ericameria parryi* (A. Gray) Nesom & Baird var. *howardii* (Parry ex A. Gray) Nesom & Baird
- pulchella* Gray = *Lorandersonia pulchella* (Gray) Urbatsch, Roberts & Neubig  
*texana* Torrey & Gray = *Baccharis texana* (Torrey & Gray) Gray
- Logfia** logfia  
 Alexander, P.J. 2020. iNaturalist observation of *Logfea depressa* in New Mexico, [https://www.inaturalist.org/observations?place\\_id=9&taxon\\_id=77800](https://www.inaturalist.org/observations?place_id=9&taxon_id=77800), accessed 2 Apr 2020.
- depressa** (A. Gray) Holub [Alexander 2020]  
*Filago depressa* A. Gray  
*Oligfia depressa* (A. Gray) Chrtek & Holub
- filaginoides** (Hooker & Arnott) Morefield [Spellenberg et al. 1986]  
*Filago californica* Nuttall  
*Gnaphalium filaginoides* Hooker & Arnott
- Lorandersonia** rabbitbrush  
 Urbatsch, L.E., R.P. Roberts, & K.M. Neubig. 2006. *Lorandersonia*, p. 177-181. IN: Flora of North America, vol. 20. Oxford University Press, New York.
- baileyi** (Wooton & Standley) Urbatsch, Roberts & Neubig [Anderson 1986; M&H; W&S]  
*Ericameria pulchella* (Gray) L.C. Anderson subsp. *baileyi* (Wooton & Standley) L.C. Anderson  
*Chrysothamnus baileyi* Wooton & Standley  
*Chrysothamnus pulchellus* (Gray) Greene subsp. *baileyi* (Wooton & Standley) Hall & Clements
- linifolia** (Greene) Urbatsch, Roberts & Neubig [Anderson 1986; M&H; W&S]  
*Chrysothamnus linifolius* Greene  
*Chrysothamnus viscidiflorus* (Hooker) Nuttall subsp. *linifolius* (Greene) Hall & Clements  
*Ericameria linifolia* (Greene) L.C. Anderson
- +microcephala** (Cronquist) Urbatsch, Roberts & Neubig [M&H]  
*Haplopappus microcephalus* Cronquist  
*Ericameria microcephala* (Cronquist) Kartesz & Gandhi  
*Tonestus microcephalus* (Cronquist) Nesom & Morgan
- pulchella** (Gray) Urbatsch, Roberts & Neubig [Anderson 1986; M&H; W&S]  
*Bigelovia pulchella* Gray  
*Chrysothamnus elatior* Standley  
*Chrysothamnus pulchellus* (Gray) Greene  
*Chrysothamnus pulchellus* (Gray) Greene subsp. *elatior* (Standley) Hall & Clements  
*Ericameria pulchella* (Gray) L.C. Anderson  
*Ericameria pulchella* (Gray) L.C. Anderson var. *elatior* (Standley) L.C. Anderson  
*Linosyris pulchella* Gray
- spathulata** (L.C. Anderson) Urbatsch, Roberts & Neubig [Anderson 1986]  
*Chrysothamnus spathulatus* L.C. Anderson  
*Chrysothamnus viscidiflorus* (Nuttall) Hooker subsp. *ludens* Shinnors  
*Ericameria spathulata* (L.C. Anderson) L.C. Anderson
- Lowellia aurea* Gray = *Thymophylla aurea* (Gray) Greene ex Britton var. *aurea*
- Lygodesmia** skeleton-plant  
 Bogler, D.J. 2006. *Lygodesmia*, p. 369-373. IN: Flora of North America, vol. 19. Oxford University Press, New York.  
 Kittell, M.T. 1941. A Critical Revision of the Compositae of Arizona and New Mexico. The Catholic University of America, Biological Series No. 34. [*Lygodesmia grandiflora*]  
 Parfitt, B.D. 1987. Noteworthy collections, New Mexico. Madroño 34:171. [*Lygodesmia grandiflora*]  
 Tomb, A.S. 1980. Taxonomy of *Lygodesmia* (Asteraceae). Syst. Bot. Monogr. 1:1-51.  
*aphylla* (Nuttall) A.P. de Candolle var. *texana* Torrey & Gray = *Lygodesmia texana* (Torrey & Gray) Greene

*arizonica* Tomb = *Lygodesmia grandiflora* (Nuttall) Torrey & Gray var. *arizonica* (Tomb) S.L. Welsh

*bigelovii* (Gray) Shinnars = *Stephanomeria exigua* Nuttall subsp. *exigua*

*exigua* Gray = *Prenanthesella exigua* (Gray) Rydberg

***grandiflora*** (Nuttall) Torrey & Gray var. ***arizonica*** (Tomb) S.L. Welsh [Tomb 1980]

*Lygodesmia arizonica* Tomb

***grandiflora*** (Nuttall) Torrey & Gray var. ***grandiflora*** [Kittell 1941; M&H; Parfitt 1987]

*Erythemia grandiflora* Nuttall

***juncea*** (Pursh) D. Don ex Hooker [M&H; Tomb 1980]

*Prenanthes juncea* Pursh

*minor* Hooker = *Stephanomeria tenuifolia* (Rafinesque) Hall

*ramosissima* Greenman : M&H erroneously attribute to Tomb (1980) the report of

*Lygodesmia ramosissima* Greenman for NM.

***texana*** (Torrey & Gray) Greene [M&H; Tomb 1980]

*Lygodesmia aphylla* (Nuttall) A.P. de Candolle var. *texana* Torrey & Gray

*thurberi* (Gray) Shinnars = *Stephanomeria thurberi* Gray

*wrightii* (Gray) Shinnars = *Stephanomeria tenuifolia* (Rafinesque) Hall

*Macdougalia bigelovii* (Gray) Heller = *Hymenoxys bigelovii* (Gray) Parker

***Machaeranthera*** spine-aster

Hartman, R.L. 1990. A conspectus of *Machaeranthera* (Asteraceae: Astereae). *Phytologia* 68:439-465.

Morgan, D.R. & R.L. Hartman. 2003. A synopsis of *Machaeranthera* (Asteraceae: Astereae), with recognition of segregate genera. *Sida* 20(4):1387-1416.

Turner, B.L. 1987. Taxonomic study of *Machaeranthera*, sections *Machaeranthera* and *Hesperastrum* (Asteraceae). *Phytologia* 62:207-266.

Turner, B.L., J. Bacon, & T. Wendt. 1975. Chromosomes and phyletic position of *Aster sonorae* Gray (Asteraceae-sect. *Oxytripolium*). *Southw. Natural.* 19(4):361-364.

Turner, B.L. and R.L. Hartman. 1976. Intraspecific categories of *Machaeranthera pinnatifida* (Compositae). *Wrightia* 5:308-315.

*amplifolia* Wootton & Standley = *Dieteria asteroides* Torrey var. *asteroides*

*angustifolia* Wootton & Standley = *Dieteria canescens* (Pursh) Nuttall var. *ambigua* (B.L.

Turner) Morgan & Hartman

*aquifolia* Greene = *Dieteria bigelovii* (Gray) Morgan & Hartman var. *bigelovii*

*asteroides* (Torrey) Greene var. *asteroides* = *Dieteria asteroides* Torrey var. *asteroides*

*asteroides* (Torrey) Greene var. *glandulosa* B.L. Turner = *Dieteria asteroides* Torrey var. *glandulosa* (B.L. Turner) Morgan & Hartman

*australis* (Greene) Shinnars = *Xanthisma spinulosum* (Pursh) Morgan & Hartman var. *spinulosum*

*bigelovii* (Gray) Greene var. *bigelovii* = *Dieteria bigelovii* (Gray) Morgan & Hartman

*blephariphylla* (Gray) Shinnars = *Xanthisma blephariphyllum* (Gray) Morgan & Hartman

*brevilingulata* (Schultz-Bipontinus ex Hemsley) B.L. Turner & Horne = *Psilactis*

*brevilingulata* Schultz-Bipontinus ex Hemsley

*boltoniae* (Greene) Turner & Horne = *Psilactis asteroides* Gray

*canescens* (Pursh) Gray s.s. [= *Dieteria canescens* (Pursh) Nuttall s.s.] : Not known from NM according to Turner (1987).

*canescens* (Pursh) Gray var. *ambigua* B.L. Turner = *Dieteria canescens* (Pursh) Nuttall var. *ambigua* (B.L. Turner) Morgan & Hartman

*canescens* (Pursh) Gray var. *aristata* (Eastwood) B.L. Turner = *Dieteria canescens* (Pursh) Nuttall var. *aristata* (Eastwood) Morgan & Hartman

*canescens* (Pursh) Gray var. *glabra* Gray = *Dieteria canescens* (Pursh) Nuttall var. *glabra* (Gray) Morgan & Hartman

*canescens* (Pursh) Gray var. *incana* (Lindley) Gray = *Dieteria asteroides* Torrey var. *asteroides*

*canescens* (Pursh) Gray var. *latifolia* Gray = *Dieteria asteroides* Torrey var. *asteroides*

*centaureoides* Greene = *Dieteria bigelovii* (Gray) Morgan & Hartman

*cichoriacea* Greene = *Dieteria canescens* (Pursh) Nuttall var. *aristata* (Eastwood) Morgan & Hartman

*coronopifolia* (Nuttall) A. Nelson = *Machaeranthera tanacetifolia* (Kunth) Nees

*gracilis* (Nuttall) Shinnars = *Xanthisma gracile* (Nuttall) Morgan & Hartman

*grindelioides* (Nuttall) Shinnars = *Xanthisma grindelioides* (Nuttall) Morgan & Hartman



- gymnocephala* auctores non (A.P. de Candolle) Shinnars = *Xanthisma blephariphyllum* (Gray) Morgan & Hartman
- gypsitherma* Nesom, Vorobik, & Hartman = *Leucosyris blepharophylla* (A. Gray) Pruski & Hartman
- gypsophila* B.L. Turner = *Xanthisma gypsophilum* (B.L. Turner) Morgan & Hartman
- havardii* (Waterfall) Shinnars = *Xanthisma viscidum* (Wooton & Standley) Morgan & Hartman
- humilis* Standley = *Machaerothera tagetina* Greene
- linearis* Greene = *Dieteria canescens* (Pursh) Nuttall var. *glabra* (Gray) Morgan & Hartman
- parviflora* Gray = *Leucosyris parviflora* (A. Gray) Pruski & Hartman
- pinnatifida* (Hooker) Shinnars var. *chihuahuana* B.L. Turner & Hartman = *Xanthisma spinulosum* (Pursh) Morgan & Hartman var. *chihuahuanum* (Turner & Hartman) Morgan & Hartman
- pinnatifida* (Hooker) Shinnars var. *glaberrima* (Rydberg) Turner & Hartman = *Xanthisma spinulosum* (Pursh) Morgan & Hartman var. *glaberrimum* (Rydberg) Morgan & Hartman
- pinnatifida* (Hooker) Shinnars var. *paradoxa* B. L. Turner & R. L. Hartman = *Xanthisma spinulosum* (Pursh) Morgan & Hartman var. *paradoxa* (Turner & Hartman) Morgan & Hartman
- pinnatifida* (Hooker) Shinnars var. *pinnatifida* = *Xanthisma spinulosum* (Pursh) Morgan & Hartman var. *spinulosum*
- pygmaea* (Gray) Wooton & Standley = *Leucosyris parviflora* (A. Gray) Pruski & Hartman
- riparia* (Kunth) A.G. Jones = *Leucosyris riparia* (Kunth) Pruski & Hartman
- rubricaulis* Rydberg = *Dieteria bigelovii* (Gray) Morgan & Hartman var. *bigelovii*
- simplex* Wooton & Standley = *Dieteria asteroides* Torrey
- sonorae* (Gray) Stucky = *Leucosyris riparia* (Kunth) Pruski & Hartman
- tagetina** Greene [M&H; Turner 1987; W&S]  
*Aster tagetinus* (Greene) Blake  
*Machaerothera humilis* Standley  
*Machaerothera tanacetifolia* (Kunth) Nees var. *humilis* Gray
- tanacetifolia** (Kunth) Nees [M&H; Turner 1987; W&S]  
 Tahoka-daisy  
*Aster tanacetifolius* Kunth  
*Dieteria coronopifolia* Nuttall  
*Machaerothera coronopifolia* (Nuttall) A. Nelson  
*tanacetifolia* (Kunth) Nees var. *humilis* Gray = *Machaerothera tagetina* Greene
- tephrodes* (Gray) Greene = *Dieteria asteroides* Torrey
- viscida* (Wooton & Standley) Hartman = *Xanthisma viscidum* (Wooton & Standley) Morgan & Hartman
- viscosa* (Nuttall) Greene = *Dieteria canescens* (Pursh) Nuttall s.s.; the Cockerell specimen cited in W&S for NM belongs to *Dieteria canescens* (Pursh) Nuttall var. *glabra* (Gray) Morgan & Hartman [Turner 1987].
- Macrorhynchus heterophyllus* Nuttall = *Agoseris heterophylla* (Nuttall) Greene var. *heterophylla*
- Madia**  
 tarweed
- glomerata** Hooker [M&H; W&S]
- Malacothrix** desert-dandelion
- Lowrey, T. 2010. Plant distribution reports (*Malacothrix coulteri*). The New Mexico Botanist 51:3.
- Spellenberg, R. 2005. Plant distribution reports (*Malacothrix stebbinsii*, *Melampodium longicornis*). The New Mexico Botanist 33:7.
- Williams, E.W. 1957. The genus *Malacothrix* (Compositae). Amer. Midl. Naturalist 58:494-512.
- californica* A.P. de Candolle var. *glabrata* Gray ex D.C. Eaton = *Malacothrix glabrata* (A. Gray ex D.C. Eaton) A. Gray
- coulteri** Harvey & A. Gray [Lowrey 2010]
- fendleri** Gray [M&H; W&S; Williams 1957]
- glabrata** (A. Gray ex D.C. Eaton) A. Gray [Sivinski et al. 1995]  
*Malacothrix californica* A.P. de Candolle var. *glabrata* Gray ex D.C. Eaton
- sonchoides** (Nuttall) Torrey & Gray [M&H; Williams 1957]  
*Leptoseria sonchoides* Nuttall
- sonorae** Davis & Raven [Spellenberg et al. 1986]

- stebbinsii** W.H. Davis & P.H. Raven [Spellenberg 2005]
- Maruta cotula* (Linnaeus) A.P. de Candolle = *Anthemis cotula* Linnaeus
- Matricaria** pineappleweed  
Bremer, K., H. Eklund, G. Medhanie, S. Heidmarsson, N. Laurent, J. Maad, J. Niklasson, & A. Nordin. 1996. On the delimitation of *Matricaria* versus *Microcephala* (Asteraceae: Anthemideae). Pl. Syst. Evol. 200:263-271.
- Cronquist, A. 1994. *Matricaria*, pp. 136-138. IN: Intermountain Flora, vol. 5. New York Botanical Garden.
- discoidea** A.P. de Candolle [Sivinski et al. 1994]  
*Matricaria matricarioides* auctores non (Lessing) Porter  
*inodora* Linnaeus = *Tripleurospermum inodorum* (Linnaeus) Schultz-Bipontinus  
*matricarioides* auctores non (Lessing) Porter = *Matricaria discoidea* A.P. de Candolle
- Melampodium** blackfoot-daisy  
Spellenberg, R. 2005. Plant distribution reports (*Malacothrix stebbinsii*, *Melampodium longicorne*). The New Mexico Botanist 33:7.
- Stuessy, T.F. 1972. Revision of *Melampodium* (Compositae: Heliantheae). *Rhodora* 74:1-70, 161-219.
- leucanthum** Torrey & Gray [M&H; W&S]
- longicorne** A. Gray [Spellenberg 2005]
- strigosum** Stuessy [Spellenberg et al. 1993]
- Mesadenia decomposita* (Gray) Standley = *Psacalium decompositum* (Gray) Robinson & Bretting
- Microseris cuspidata* (Pursh) Schultz-Bipontinus = *Nothocalais cuspidata* (Pursh) Greene  
*lindleyi* (A.P. de Candolle) Gray = *Uropappus lindleyi* (A.P. de Candolle) Nuttall  
*linearifolia* (A.P. de Candolle) Schultz-Bipontinus = *Uropappus lindleyi* (A.P. de Candolle) Nuttall
- Molina salicifolia* Ruiz & Pavon = *Baccharis salicifolia* (Ruiz & Pavon) Persoon
- Mulgedium pulchellum* (Pursh) G. Don = *Lactuca oblongifolia* Nuttall
- Nemoseris neomexicana* (Gray) Greene = *Rafinesquia neomexicana* Gray
- Nicolletia edwardsii* Gray : Reported as expected by M&H map; awaits verification.
- Nothocalais** nothocalais  
Chambers, K.L. 2006. *Nothocalais*, p. 335-336. IN: Flora of North America, vol. 19. Oxford University Press, New York. [*Nothocalais cuspidata*]
- cuspidata** (Pursh) Greene [Chambers 2006; M&H]  
*Agoseris cuspidata* (Pursh) Steudel  
*Microseris cuspidata* (Pursh) Schultz-Bipontinus  
*Torximon cuspidatum* Pursh
- Obeliscaria pulcherrima* A.P. de Candolle = *Ratibida columnifera* (Nuttall) Wootton & Standley forma *pulcherrima* (A.P. de Candolle) Fernald
- Oedera trinervia* Sprengel = *Flaveria trinervia* (Sprengel) C. Mohr
- Oligfia depressa* (A. Gray) Chrtk & Holub = *Logfia depressa* (A. Gray) Chrtk & Holub
- Oligoneuron bombycinum* Lunell = *Solidago rigida* Linnaeus subsp. *humilis* (Porter) Heard & Semple  
*canescens* Rydberg = *Solidago rigida* Linnaeus subsp. *humilis* (Porter) Heard & Semple  
*corymbosum* (Elliott) Small var. *humilis* (Porter) Beaudry & Kapoor = *Solidago rigida* Linnaeus subsp. *humilis* (Porter) Heard & Semple  
*rigidum* (Linnaeus) Small var. *humile* (Porter) Nesom = *Solidago rigida* Linnaeus subsp. *humilis* (Porter) Heard & Semple
- Onopordum** Scotch-thistle  
Sivinski, R.C., T. Lowrey, & R. Peterson. 1994. Additions to the native and adventive flora of New Mexico. *Phytologia* 76(6):473-479. [*Onopordum acanthium*]
- \***acanthium** Linnaeus [Sivinski et al. 1994]
- Oreochrysum** goldenrod  
Keller, C.F. 1999. New Mexico *Solidagos*: A preliminary look at a difficult problem, with a tentative key. *The New Mexico Botanist* 11:1-5.
- parryi** (Gray) Rydberg [M&H; W&S]  
*Haplopappus parryi* Gray  
*Solidago parryi* (Gray) Greene
- Osteospermum** daisybush  
Strother, J.L. 2006. *Osteospermum*, p. 382-383. IN: Flora of North America, vol. 19. Oxford University Press, New York. [*Osteospermum spinescens*]
- spinescens** Thunberg [Strother 2006]

- Othake macrolepis* Rydberg = *Palafoxia rosea* (Bush) Cory var. *macrolepis* (Rydberg) Turner & Morris  
*sphacelatum* (Nuttall) Rydberg = *Palafoxia sphacelata* (Nuttall ex Torrey) Cory  
 texanum (A.P. de Candolle) Bush (= *Palafoxia texana* A.P. de Candolle var. *texana*) :  
 Reported by W&S, but not occurring in NM according to Turner & Morris  
 (1976); our material is referred to *Palafoxia rosea* (Bush) Cory var.  
*macrolepis*.  
*texanum* (A.P. de Candolle) Bush var. *macrolepis* (Rydberg) Ammerman = *Palafoxia rosea*  
 (Bush) Cory var. *macrolepis* (Rydberg) Turner & Morris
- Oxytenia** copperweed  
 Hershey, A.L. & P.J. Leyendecker, Jr. 1944. Notes on plants of New Mexico—III. Leaflets of Western  
 Botany 4(2):21-25. [*Oxytenia acerosa*]  
 Strother, J.L. 2000. *Hedosyne* (Compositae, Ambrosiinae), a new genus for *Iva ambrosifolia*. Madroño  
 47(3):204-205.  
*acerosa* Nuttall [Hershey & Leyendecker 1944; M&H]  
*Iva acerosa* (Nuttall) Jackson
- Packera** groundsel  
 Bain, J.F. & J.L. Golden. 2003. Phylogeographic relationships within *Packera sanguisoroides* (Asteraceae),  
 a narrow endemic species that straddles a major biogeographic boundary. Amer. J. Bot. 90(7):  
 1087-1094.  
 Barkley, T.M. 1962. A revision of *Senecio aureus* Linn. and allied species. Trans. Kansas Acad. Sci.  
 65:318-408.  
 Barkley, T.M. 1999. The segregates of *Senecio*, s.l., and *Cacalia*, s.l., in the flora of North America north of  
 Mexico. Sida 18(3):661-672.  
 Keller, C.F. 2010. Plant distribution reports (*Packera wernerifolia alpina*). The New Mexico Botanist 49:8.  
 Sivinski, R.C. 2001. New plant distribution records. The New Mexico Botanist 18:3. [*Senecio*  
*quercetorum*, *Senecio neomexicanum toumeyii*]  
 Trock, D.K. 2006. *Packera*, p. 570-602. IN: Flora of North America, vol. 20. Oxford University Press.  
 Trock, D.K. & T.M. Barkley. 1998. Seven new nomenclatural combinations and a new name in *Packera*  
 (Asteraceae: Senecioneae). Sida 18(2):385-388.  
 Turner, B.L. 2008. Biological status of *Packera thurberi* (Asteraceae: Senecioneae) and its relationship to  
*Packera neomexicana*. Phytologia 90(1):47-51.  
 Welsh, S.L., N.D. Atwood, S. Goodrich, & L.C. Higgins (eds.). 2003. A Utah Flora. 3<sup>rd</sup> ed, revised. Provo,  
 Utah: Brigham Young University Press. [*Senecio cliffordii*]  
 Worthington, R.D. 2000. New plant distribution records. The New Mexico Botanist 15:7. [*Packera*  
*obovata*]  
*cana* (Hooker) W.A. Weber & A. Löve [Spellenberg et al. 1986; Trock 2006]  
*Senecio canus* Hooker  
*cardamine* (Greene) W.A. Weber & A. Löve [M&H; Trock 2006; W&S]  
*Senecio cardamine* Greene  
*crocata* (Rydberg) W.A. Weber & A. Löve [Trock 2006]  
*Senecio crocatus* Rydberg  
 +*cynthioides* (Greene) W.A. Weber & A. Löve [M&H; Trock 2006; W&S]  
*Senecio cynthioides* Greene  
*dimorphophylla* (Greene) W.A. Weber & A. Löve [Spellenberg et al. 1986; Trock 2006]  
*Packera dimorphophylla* (Greene) W.A. Weber & A. Löve var. *intermedia*  
 (T.M. Barkley) Trock & T.M. Barkley  
*Senecio dimorphophyllus* Greene  
*Senecio dimorphophyllus* Greene var. *intermedius* T.M. Barkley  
*dimorphophylla* (Greene) W.A. Weber & A. Löve var. *intermedia* (T.M. Barkley) Trock &  
 T.M. Barkley = *Packera dimorphophylla* (Greene) W.A. Weber & A. Löve  
*fendleri* (Gray) W.A. Weber & A. Löve [M&H; Trock 2006; W&S]  
*Senecio fendleri* Gray  
*Senecio canovirens* Rydberg  
*hartiana* (Heller) W.A. Weber & A. Löve [M&H; Trock 2006]  
*Packera quaerens* (Greene) W.A. Weber & A. Löve  
*Senecio flavulus* Wootton & Standley in part  
*Senecio hartianus* Heller  
*Senecio quaerens* Greene  
*millelobata* (Rydberg) W.A. Weber & A. Löve [= *Senecio millelobatus* Rydberg] :  
 Reported for NM in M&H and W&S, based on a C. Wright collection

thought to be from NM, but now known to be from Texas; no specimens of this are known from the state [Peterson 2005].

- multilobata** (Torrey & Gray ex Gray) W.A. Weber & A. Löve [M&H; Trock 2006]  
*Senecio multilobatus* Torrey & Gray ex Gray
- neomexicana** (Gray) W.A. Weber & A. Löve var. **mutabilis** (Greene) W.A. Weber & A. Löve [M&H; Trock 2006; W&S]  
*Packera neomexicana* (Gray) W.A. Weber & A. Löve var. *metcalfei* (Greene) Trock & Barkley  
*Senecio metcalfei* Greene  
*Senecio mutabilis* Greene  
*Senecio neomexicanus* Gray var. *mutabilis* (Greene) T.M. Barkley
- neomexicana** (Gray) W.A. Weber & A. Löve var. **neomexicana** [M&H; Trock 2006; W&S]  
*Senecio eurypterus* Greenman  
*Senecio neomexicanus* Gray  
*Senecio oresbius* Greenman
- neomexicana* (Gray) W.A. Weber & A. Löve var. *metcalfei* (Greene) Trock & Barkley =  
*Packera neomexicana* (Gray) W.A. Weber & A. Löve var. *mutabilis* (Greene) W.A. Weber & A. Löve
- neomexicana** (Gray) W.A. Weber & A. Löve var. **toumeyii** (Greene) Trock & Barkley [Sivinski 2001; Trock 2006]  
*Senecio neomexicanus* Gray var. *toumeyii* (Greene) T.M. Barkley  
*Senecio toumeyii* Greene
- obovata** (Muhlenberg ex Willdenow) W.A. Weber & A. Löve [Trock 2006; Worthington 2000]  
*Senecio obovatus* Muhlenberg ex Willdenow
- paupercula** (Michaux) W.A. Weber & A. Löve [M&H] Note: Not reported for NM by Trock (2006); perhaps warrants verification.  
*Senecio flavovirens* Rydberg  
*Senecio pauperculus* Michaux
- plattensis** (Nuttall) W.A. Weber & A. Löve [Great Plains Flora Association 1977; Mahoney et al. 2002; Trock 2006]  
*Senecio plattensis* Nuttall
- pseudaurea** (Rydberg) W.A. Weber & A. Löve var. **flavula** (Greene) Trock & Barkley [Barkley 1962; M&H; Trock 2006; W&S]  
*Senecio flavulus* Greene  
*Senecio pseudaureus* Rydberg var. *flavulus* (Greene) Greenman
- quaerens* (Greene) W.A. Weber & A. Löve = *Packera hartiana* (Heller) W.A. Weber & A. Löve
- quercetorum** (Greene) C. Jeffrey [Sivinski 2001; Trock 2006]  
*Senecio quercetorum* Greene
- +**sanguisorboides** (Rydberg) W.A. Weber & A. Löve [M&H; Trock 2006; W&S]  
*Senecio sanguisorboides* Rydberg
- spellenbergii** (T.M. Barkley) C. Jeffrey [Barkley 1989; Trock 2006; Welsh et al. 2003]  
*Senecio spellenbergii* T.M. Barkley  
*Senecio cliffordii* Atwood & Welsh
- streptanthifolia** (Greene) W.A. Weber & A. Löve [M&H; Trock 2006; W&S]  
*Senecio acutidens* Rydberg  
*Senecio cymbalarioides* Nuttall  
*Senecio streptanthifolius* Greene
- thurberi** (Gray) B.L. Turner [Barkley 1962; M&H; Trock 2006; W&S]  
*Packera tridenticulata* (Rydberg) W.A. Weber & A. Löve  
*Senecio oblanceolatus* Rydberg  
*Senecio remifolius* Wooton & Standley  
*Senecio thurberi* Gray  
*Senecio tridenticulatus* Rydberg
- tridenticulata* (Rydberg) W.A. Weber & A. Löve = *Packera thurberi* (Gray) B.L. Turner
- werneriiifolia** (A. Gray) W.A. Weber & A. Löve [M&H; Trock 2006; W&S]  
*Packera werneriiifolia* (Gray) W.A. Weber & A. Löve var. *alpina* (Gray) Dorn

- Senecio aureus* Linnaeus var. *alpinus* Gray  
*Senecio aureus* Linnaeus var. *werneriiifolius* A. Gray  
*Senecio pentadontus* Greene  
*Senecio saxosus* Klatt  
*Senecio werneriiifolius* (Gray) Gray  
*werneriiifolia* (Gray) W.A. Weber & A. Löve var. *alpina* (Gray) Dorn = Packera  
*werneriiifolia* (A. Gray) W.A. Weber & A. Löve
- Palafoxia** palafox  
 Turner, B.L. and M.I. Morris. 1976. Systematics of *Palafoxia* (Asteraceae: Helenieae). *Rhodora* 78:567-628.  
*callosa* (Nuttall) Torrey & Gray : Reported as expected by M&H, but not likely to be found here according to Turner & Morris (1976).  
*rosea* (Bush) Cory var. ***macrolepis*** (Rydberg) Turner & Morris [M&H; W&S]  
*Othake macrolepis* Rydberg  
*Othake texanum* (A.P. de Candolle) Bush var. *macrolepis* (Rydberg) Ammerman  
*Palafoxia texana* A.P. de Candolle var. *macrolepis* (Rydberg) Shinnery
- sphacelata*** (Nuttall ex Torrey) Cory [M&H; W&S]  
*Othake sphacelatum* (Nuttall) Rydberg  
*Polypteris hookeriana* Gray  
*Stevia sphacelata* Nuttall ex Torrey  
*texana* A.P. de Candolle var. *macrolepis* (Rydberg) Shinnery = *Palafoxia rosea* (Bush) Cory var. *macrolepis* (Rydberg) Turner & Morris
- Parthenice mollis* Gray : Reported as expected by M&H map; awaits verification.
- Parthenium** feverfew  
 Rollins, R.C. 1950. The guayule rubber plant and its relatives. *Contr. Gray Herb.* 172:1-72.  
 Strother, J.L. 2006. *Parthenium*. IN: *Flora of North America*, vol. 21. Oxford University Press.  
***alpinum*** (Nuttall) Torrey & Gray [Spellenberg 1984]  
*Bolophyta alpina* Nuttall  
***confertum*** Gray var. ***lyratum*** (Gray) Rollins [M&H; W&S]  
*Parthenium lyratum* Gray  
*hysterophorus* Linnaeus : Reported by Strother (2006), presumably based on a misidentified specimen of *Parthenium confertum* (Metcalf 1497, GA); awaits verification.  
***incanum*** Kunth [M&H; W&S]  
 mariola  
*lyratum* Gray = *Parthenium confertum* Gray var. *lyratum* (Gray) Rollins
- Pectis** lemonweed  
 Allred, K.W. 1999. New plant distribution records. *The New Mexico Botanist* 13:7. [*Pectis cylindrica*]  
 Keil, D.J. 1977. A revision of *Pectis* section *Pectothrix* (Compositae: Tageteae). *Rhodora* 79(817):32-78.  
***angustifolia*** Torrey var. ***angustifolia*** [Keil 1977; M&H; W&S]  
*Pectis papposa* Harvey & Gray var. *sessilis* M.E. Jones  
***angustifolia*** Torrey var. ***tenella*** (A.P. de Candolle) Keil [Keil 1977]  
*Pectis tenella* A.P. de Candolle  
***cylindrica*** (Fernald) Rydberg [Allred 1999]  
*Pectis prostrata* Cavanilles var. *cylindrica* Fernald  
***filipes*** Harvey & Gray var. ***subnuda*** Fernald [Keil 1977; M&H; W&S]  
***longipes*** Gray [M&H]  
***papposa*** Harvey & Gray var. ***grandis*** Keil [Keil 1977]  
***papposa*** Harvey & Gray var. ***papposa*** [Keil 1977; M&H; W&S]  
*papposa* Harvey & Gray var. *sessilis* M.E. Jones = *Pectis angustifolia* Torrey var. *angustifolia*  
***prostrata*** Cavanilles [M&H; W&S]  
*Pectis urceolata* Rydberg  
*prostrata* Cavanilles var. *cylindrica* Fernald = *Pectis cylindrica* (Fernald) Rydberg  
*taxifolia* Greene = *Chrysactinia mexicana* Gray  
*tenella* A.P. de Candolle = *Pectis angustifolia* Torrey var. *tenella* (A.P. de Candolle) Keil  
*urceolata* Rydberg = *Pectis prostrata* Cavanilles

**Pentzia** pentzia

\**incana* (Thunberg) O. Kuntze [Spellenberg et al. 1993]

*Chrysanthemum incanum* Thunberg

*Perezia nana* Gray = *Acourtia nana* (Gray) Reveal & King

*thurberi* Gray = *Acourtia thurberi* (Gray) Reveal & King

*wrightii* Gray = *Acourtia wrightii* (Gray) Reveal & King

**Pericome** tail-leaf

*caudata* Gray [M&H; W&S]

*Pericome caudata* Gray var. *glandulosa* (Goodman) Harrington

*Pericome glandulosa* Goodman

*caudata* Gray var. *glandulosa* (Goodman) Harrington = *Pericome caudata* Gray

*glandulosa* Goodman = *Pericome caudata* Gray

**Perityle** rock-daisy

Hall, H.H. & S. Flowers. 1961. Vascular plants found in the Navajo Reservoir Basin, pp. 47-87. IN: D.M. Pendergast (ed.). Ecological studies of the flora and fauna of Navajo Reservoir Basin, Colorado and New Mexico. Univ. Utah Anthropological Papers, number 55.

Hershey, A.L. 1940. Notes on New Mexico plants – II. Leaflets of Western Botany 2(15):257-258.

[*Perityle quinqueflora*]

Powell, A.M. 1973. Taxonomy of *Perityle* section *Laphamia* (Compositae- Helenieae- Peritylinae). Sida 5(2):61-128.

Todsen, T.K. 1973. Comments on New Mexico flora. Sida 5(2):135. [*Perityle lemmonii*]

Yarborough, S.C. & A.M. Powell. 2006. *Perityle*, pp. 317-334. IN: Flora of North America, vol. 21. Oxford University Press.

+*cernua* (Greene) Shinnery [M&H; Todsen 1973; W&S]

*Laphamia cernua* Greene

*congesta* (M.E. Jones) Shinnery : Reported by Hall & Flowers (1961, as *Laphamia congesta* M.E. Jones), but this known only from Arizona; awaits verification.

*coronopifolia* Gray [M&H; W&S]

*dissecta* sensu M&H = *Perityle lemmonii* (Gray) MacBride

*dissecta* Torrey subsp. *lemmonii* (Gray) W.E. Niles = *Perityle lemmonii* (Gray) MacBride

*lemmonii* (Gray) MacBride [Todsen 1973]

*Perityle dissecta* sensu M&H

*Perityle dissecta* Torrey subsp. *lemmonii* (Gray) W.E. Niles

*megaloccephala* (S. Watson) J.F. Macbride : Reported by Hall & Flowers (1961, as *Laphamia megaloccephala*), but this known only from California and Nevada; awaits verification.

*quinqueflora* (Steyermark) Shinnery [Hershey 1940; M&H]

*Laphamia quinqueflora* Steyermark

+*staurophylla* (Barneby) Shinnery var. *homoflora* Todsen [Todsen 1983]

+*staurophylla* (Barneby) Shinnery var. *staurophylla* [M&H]

*Laphamia staurophylla* Barneby

**Petradoria** goldenrod

Anderson, L.C. 1963. Studies on *Petradoria* (Compositae): anatomy, cytology, taxonomy. Trans. Kansas Acad. Sci. 66:632-684.

*graminea* Wootton & Standley = *Petradoria pumila* (Nuttall) Greene var. *graminea* (Wootton & Standley) S.L. Welsh

*pumila* (Nuttall) Greene subsp. *graminea* (Wootton & Standley) L.C. Anderson = *Petradoria pumila* (Nuttall) Greene var. *graminea* (Wootton & Standley) S.L. Welsh

*pumila* (Nuttall) Greene var. *graminea* (Wootton & Standley) S.L. Welsh [M&H; W&S]

*Petradoria graminea* Wootton & Standley

*Petradoria pumila* (Nuttall) Greene subsp. *graminea* (Wootton & Standley) L.C. Anderson

*Solidago graminea* (Wootton & Standley) Blake

*pumila* (Nuttall) Greene var. *pumila* [M&H; W&S]

*Chrysoma pumila* Nuttall

*Solidago petradoria* Blake

*Picradenia helenioides* Rydberg = *Hymenoxys helenioides* (Rydberg) Cockerell

*richardsonii* Hooker = *Hymenoxys richardsonii* (Hooker) Cockerell var. *richardsonii*

*vaseyi* (Gray) Greene = *Hymenoxys vaseyi* (Gray) Cockerell

***Picradeniopsis* false bahia**

Steussy, T.R., R.S. Irving, and W.L. Ellison. 1973. Hybridization and evolution in *Picradeniopsis* (Compositae). *Brittonia* 25:40-56.

***absinthifolia* (Bentham) B.G. Baldwin [M&H; W&S]**

*Bahia absinthifolia* Bentham

*Bahia absinthifolia* Bentham var. *dealbata* Gray

*Bahia dealbata* Gray

*Picradeniopsis dealbata* (Gray) Wooton & Standley

*dealbata* (Gray) Wooton & Standley = *Picradeniopsis absinthifolia* (Bentham) B.G. Baldwin

***multiflora* (Hooker & Arnott) B.G. Baldwin [M&H; W&S]**

*Achyropappus neomexicanus* Gray

*Bahia neomexicana* (Gray) Gray

*Cephalobembix neomexicana* (Gray) Rydberg

*Schkuhria multiflora* Hooker & Arnott

*Schkuhria neomexicana* Gray

***oppositifolia* (Nuttall) Rydberg [M&H; W&S]**

*Bahia oppositifolia* (Nuttall) Gray

*Trichophyllum oppositifolium* Nuttall

***woodhousei* (Gray) Rydberg [M&H; W&S]**

*Achyropappus woodhousei* Gray

*Bahia woodhousei* (Gray) Gray

*Picrothamnus desertorum* Nuttall = *Artemisia spinescens* D.C. Eaton

***Pinaropappus* rock-lettuce**

Hershey, A.L. & P.J. Leyendecker, Jr. 1944. Notes on plants of New Mexico—III. Leaflets of Western Botany 4(2):21-25. [*Pinaropappus parvus*]

***parvus* Blake [Hershey & Leyendecker 1944; M&H]**

*roseus* Lessing var. *foliosus* (Heller) Shinnars = *Pinaropappus roseus* Lessing

***roseus* (Lessing) Lessing [M&H]**

*Achyrophorus roseus* Lessing

*Pinaropappus roseus* Lessing var. *foliosus* (Heller) Shinnars

***Platyschkuhria* bahia**

Brown, G.K. 1983. Chromosome numbers in *Platyschkuhria* Rydberg (Compositae) and their systematic significance. *Amer. J. Bot.* 70:591-601.

Ellison, W.L. 1964. A systematic study of the genus *Bahia* (Compositae). *Rhodora* 66:67-86, 177-215, 281-311.

Ellison, W.L. 1971. Taxonomy of *Platyschkuhria* (Compositae). *Brittonia* 23:269-279.

***integrifolia* (Gray) Rydberg var. *oblongifolia* (Gray) Ellison [M&H; W&S]**

*Bahia oblongifolia* Gray

*Bahia nudicaulis* Gray var. *oblongifolia* (Gray) Cronquist

*Eriophyllum oblongifolium* (Gray) Kuntze

*Schkuhria integrifolia* Gray var. *oblongifolia* Gray

***Plectocephalus* basketflower**

Allred, K.W. & R. Lee. 1999. Knapweeds, starthistles, and basketflowers of New Mexico. *The New Mexico Botanist* 10:1-4.

Susanna, A., M. Galbany-Casals, K. Romaschenko, L. Barres, J. Martin, and N. Garcia-Jacas. 2011.

Lessons from *Plectocephalus* (Compositae, Carduaceae-Centaureinae): ITS disorientation in annuals and Beringian dispersal as revealed by molecular analyses. *Annals of Botany* 108: 263-277.

***americanus* (Nuttall) D. Don [Allred & Lee 1999; M&H; W&S]**

*Centaurea americana* Nuttall

***rothrockii* (Greenman) D.J.N. Hind [Allred & Lee 1999; M&H]**

*Centaurea rothrockii* Greenman

***Pluchea* arrow-weed**

Gillis, W.T. 1977. *Pluchea* revisited. *Taxon* 26:587-591.

Nesom, G.L. 1989. New species, new sections, and a taxonomic overview of American *Pluchea* (Compositae: Inuleae). *Phytologia* 67(2):158-167.

*camphorata* sensu W&S = *Pluchea odorata* (Linnaeus) Cassini

***odorata* (Linnaeus) Cassini [M&H; W&S]**

*Pluchea camphorata* sensu W&S

*Pluchea purpurascens* (Swartz) A.P. de Candolle

- Conyza purpurascens* Swartz  
*purpurascens* (Swartz) A.P. de Candolle = *Pluchea odorata* (Linnaeus) Cassini  
**sericea** (Nuttall) Cavanilles [M&H; W&S]  
*Berthelotia sericea* (Nuttall) Rydberg  
*Polypappus sericeus* Nuttall  
*Tessaria sericea* (Nuttall) Shinnery
- Plummera ambigens* of NM authors = *Hymenoxys ambigens* (S.F. Blake) Bierner var.  
 neomexicana Wagner, Fletcher, & Shannon
- Podospermum laciniatum* (Linnaeus) A.P. de Candolle = *Scorzonera laciniata* Linnaeus  
*Polypappus sericeus* Nuttall = *Pluchea sericea* (Nuttall) Cavanilles  
*Polypteris hookeriana* Gray = *Palafoxia sphacelata* (Nuttall ex Torrey) Cory
- Porophyllum** poreleaf  
 Johnson, R.R. 1969. Monograph of the plant genus *Porophyllum* (Compositae: Helenieae). Univ. Kansas  
 Sci. Bull. 48:225-267.
- gracile** Benthall [Johnson 1969; M&H]  
*macrocephalum* A.P. de Candolle = *Porophyllum ruderales* (Jacquin) Cassini subsp.  
 macrocephalum (A.P. de Candolle) R.R. Johnson  
**ruderales** (Jacquin) Cassini subsp. **macrocephalum** (A.P. de Candolle) R.R.  
 Johnson [M&H]  
*Porophyllum macrocephalum* A.P. de Candolle
- scoparium** Gray [Johnson 1969; M&H; W&S]
- Prenanthes** brightwhite  
 Tomb, A.S. 1972. Re-establishment of the genus *Prenanthes* Rydberg (Compositae: Cichorieae). Brittonia  
 24:223-228.
- exigua** (Gray) Rydberg [M&H; Sivinski 1997; Spellenberg et al. 1986]  
*Lygodesmia exigua* (Gray) Gray  
*Prenanthes exigua* Gray
- Prenanthes exigua* Gray = *Prenanthes exigua* (Gray) Rydberg  
*juncea* Pursh = *Lygodesmia juncea* (Pursh) D. Don ex Hooker  
*pauciflora* Torrey = *Stephanomeria pauciflora* (Torrey) A. Nelson  
*tenuifolia* Torrey [not Linnaeus] = *Stephanomeria tenuifolia* (Rafinesque) Hall
- Prionopsis ciliata* Nuttall = *Grindelia ciliata* (Nuttall) Sprengel
- Psacalium**  
 Barkley, T.M. 1999. The segregates of *Senecio*, s.l., and *Cacalia*, s.l., in the flora of North America north of  
 Mexico. Sida 18(3):661-672.  
 Robinson, H. and R.D. Brettell. 1973. Studeis in the Senecioneae (Asteraceae). III. The genus *Psacalium*.  
 Phytologia 27(4):254-264.
- decompositum** (Gray) H.E. Robinson & Brett [M&H; W&S]  
*Cacalia decomposita* Gray  
*Mesadenia decomposita* (Gray) Standley
- Psathyrotes annua* (Nuttall) Gray : Reported by W&S based on erroneous information about the  
 type locality; not known from NM.  
*scaposa* Gray = *Psathyrotopsis scaposa* (Gray) H. Robinson
- Psathyrotopsis**  
 Cronquist, A. 1994. *Psathyrotes*, pp. 101-102. IN: Intermountain Flora, vol. 5. New York Botanical Garden.  
 Strother, J.L. & G. Pilz. 1975. Taxonomy of *Psathyrotes* (Compositae: Senecioneae). Madroño 23:24-40.
- scaposa** (Gray) H. Robinson [M&H]  
*Psathyrotes scaposa* Gray
- Pseudoclapia** clapdaisy  
**arenaria** Rydberg [M&H; W&S]  
*Clappia suaedifolia* sensu W&S, not Gray
- Pseudognaphalium** rabbit-tobacco  
 Cronquist, A. 1994. *Gnaphalium*, pp. 362-366. IN: Intermountain Flora, vol. 5. New York Botanical  
 Garden.  
 McGrath, J. 2009. Plant distribution reports (*Pseudognaphalium luteoalbum*). The New Mexico Botanist  
 47:7.  
 Nesom, G.L. 2001. New records in *Pseudognaphalium* (Asteraceae: Gnaphalieae) for the United States.  
 Sida 19(4):1185-1190.  
 Nesom, G.L. 2004. *Pseudognaphalium canescens* (Asteraceae: Gnaphalieae) and putative relatives in  
 western North America. Sida 21(2):781-789.
- canescens** (A.P. de Candolle) W.A. Weber [Nesom 2004; M&H]



- Gnaphalium canescens* A.P. de Candolle  
*Gnaphalium viridulum* I. M. Johnston  
*Gnaphalium wrightii* Gray
- jaliscense** (Greenman) A. Anderberg [Nesom 2001]  
*Gnaphalium jaliscense* Greenman
- leucocephalum** (Gray) A. Anderberg [McIntosh 1996]  
*Gnaphalium leucocephalum* Gray
- \*luteoalbum** (Linnaeus) Hilliard & Burt [McGrath 2009; Nesom 2001]  
*Gnaphalium luteoalbum* Linnaeus
- macounii** (Greene) Kartesz [M&H]  
*Gnaphalium decurrens* Ives  
*Gnaphalium macounii* Greene
- pringlei** (Gray) A. Anderberg [M&H; Wagner 1979]  
*Gnaphalium pringlei* Gray
- stramineum** (Kunth) W.A. Weber [M&H]  
*Gnaphalium chilense* Sprengel  
*Gnaphalium stramineum* Kunth  
*Gnaphalium sulphurescens* Rydberg
- viscosum* sensu NM reports = *Pseudognaphalium macounii* (Greene) Kartesz
- Psilactis** ray-aster  
Morgan, D.R. 1993. A molecular systematic study and taxonomic revision of *Psilactis* (Asteraceae: Astereae). Syst. Bot. 18(2):290-308.
- asteroides** A. Gray [Morgan 1993; M&H; W&S]  
*Aster boltoniae* Greene  
*Machaeranthera boltoniae* (Greene) Turner & Horne
- brevilingulata** Schultz-Bipontinus ex Hemsley [Morgan 1993]  
*Machaeranthera brevilingulata* (Schultz-Bipontinus ex Hemsley) B.L. Turner & Horne
- Psilostrophe** paper-flower  
Brown, R.C. 1978. Biosystematics of *Psilostrophe* (Compositae: Helenieae). II. Artificial hybridization and systematic treatment. Madroño 25:187-201.  
Turner, B.L., M.W. Turner, & J.C. Crutchfield. 1988. Populational analyses and new combinations in *Psilostrophe tagetina* and *P. gnaphalodes* (Asteraceae, Heliantheae). Phytologia 65:231-237.
- cooperi** (Gray) Greene [M&H; W&S]  
*Riddellia cooperi* Gray  
*grandiflora* Rydberg = *Psilostrophe tagetina* (Nuttall) Greene
- sparsiflora** (Gray) A. Nelson [M&H; W&S]  
*Riddellia tagetina* Nuttall var. *sparsiflora* Gray  
*tagetina* (Nuttall) Greene var. *grandiflora* (Rydberg) Heiser = *Psilostrophe tagetina* (Nuttall) Greene  
*tagetina* (Nuttall) Greene var. *lanata* A. Nelson = *Psilostrophe tagetina* (Nuttall) Greene  
*tagetina* (Nuttall) Greene var. *cerifera* (A. Nelson) Turner = *Psilostrophe villosa* Rydberg
- tagetina** (Nuttall) Greene [M&H; W&S]  
*Psilostrophe grandiflora* Rydberg  
*Psilostrophe tagetina* (Nuttall) Greene var. *grandiflora* (Rydberg) Heiser  
*Psilostrophe tagetina* (Nuttall) Greene var. *lanata* A. Nelson  
*Riddellia tagetina* Nuttall
- villosa** Rydberg [M&H; Turner et al. 1988]  
*Psilostrophe tagetina* (Nuttall) Greene var. *cerifera* (A. Nelson) B. Turner
- Ptiloria bigelovii* (Gray) Wootton & Standley = *Stephanomeria exigua* Nuttall  
*exigua* (Nuttall) Greene = *Stephanomeria exigua* Nuttall  
*neomexicana* Greene = *Stephanomeria tenuifolia* (Rafinesque) Hall  
*pauciflora* (Torrey) Rafinesque = *Stephanomeria pauciflora* (Torrey) A. Nelson  
*ramosa* Rydberg = *Stephanomeria tenuifolia* (Rafinesque) Hall  
*tenuifolia* (Torrey) Rafinesque = *Stephanomeria tenuifolia* (Rafinesque) Hall  
*thurberi* (Gray) Greene = *Stephanomeria thurberi* Gray
- Pyrrhopappus** false-dandelion  
Correll, D.S. & M.C. Johnston. 1970. Manual of the Vascular Plants of Texas. Texas Research Foundation, Renner, Texas. [*Pyrrhopappus grandiflorus*]

- Northington, D.K. 1974. Systematic studies of the genus *Pyrrhopappus* (Compositae, Cichorieae). Special Publ. No. 6. The Museum, Texas Tech Univ., Lubbock.
- Spellenberg, R. 2012. Plant distribution reports. The New Mexico Botanist 57:4. [*Pyrrhopappus grandiflorus*]
- Turner, B.L. and Ki-Soong Kim. 1990. An overview of the genus *Pyrrhopappus* (Asteraceae: Lactuceae) with emphasis on chloroplast DNA restriction site data. Amer. J. Bot. 77:845-850.
- grandiflorus* (Nuttall) Nuttall : Reported for NM by Correll & Johnston (1970), but no specimens are known; awaits verification.
- Barkhausia grandiflora* Nuttall
- multicaulis* A.P. de Candolle = *Pyrrhopappus pauciflorus* (D. Don) A.P. de Candolle
- pauciflorus*** (D. Don) A.P. de Candolle [M&H; W&S]
- Chondrilla pauciflora* D. Don
- Pyrrhopappus multicaulis* A.P. de Candolle
- Pyrrhopappus rothrockii* A. Gray
- Sitilias multicaulis* (A.P. de Candolle) Greene
- rothrockii* A. Gray = *Pyrrhopappus pauciflorus* (D. Don) A.P. de Candolle
- Pyrrocomma*** goldenweed
- Lane, M.A. & R.L. Hartman. 1996. Reclassification of North American *Haplopappus* (Compositae: Astereae) completed: *Rayjacksonia* gen. nov. Amer. J. Bot. 83(3):356-370.
- amplectens* Greene = *Pyrrocomma crocea* (Gray) Greene
- crocea*** (Gray) Greene [M&H; W&S]
- Haplopappus croceus* Gray
- Pyrrocomma amplectens* Greene
- Rafinesquia*** desert chicory
- neomexicana*** Gray [M&H]
- Nemoseris neomexicana* (Gray) Greene
- Ratibida*** Mexican-hat
- Richards, E.L. 1968. A monograph of the genus *Ratibida*. Rhodora 70:348-393.
- columnaris* (Sims) D. Don = *Ratibida columnifera* (Nuttall) Wooton & Standley forma *columnifera*
- columnifera*** (Nuttall) Wooton & Standley forma ***columnifera*** [M&H; W&S]
- Ratibida columnaris* (Sims) D. Don
- Rudbeckia columnaris* Pursh
- Rudbeckia columnifera* Nuttall
- columnifera*** (Nuttall) Wooton & Standley forma ***pulcherrima*** (A.P. de Candolle) Fernald [M&H; W&S]
- Obeliscaria pulcherrima* A.P. de Candolle
- Ratibida columnifera* (Nuttall) Wooton & Standley [subsp.?] ***pulcherrima*** (A.P. de Candolle) Wooton & Standley
- columnifera* (Nuttall) Wooton & Standley [subsp.?] ***pulcherrima*** (A.P. de Candolle) Wooton & Standley = *Ratibida columnifera* (Nuttall) Wooton & Standley forma ***pulcherrima*** (A.P. de Candolle) Fernald
- tagetes*** (James) Barnhart [M&H; W&S]
- Ratibida tagetes* (James) Barnhart var. *cinera* Standley
- Rudbeckia tagetes* James
- tagetes* (James) Barnhart var. *cinera* Standley = *Ratibida tagetes* (James) Barnhart
- Rayjacksonia***
- Allred, K.W. 1999. New plant distribution records. The New Mexico Botanist 13:7. [*Rayjacksonia annua*]
- Lane, M.A. & R.L. Hartman. 1996. Reclassification of North American *Haplopappus* (Compositae: Astereae) completed: *Rayjacksonia* gen. nov. Amer. J. Bot. 83(3):356-370.
- annua*** (Rydberg) Hartman & Lane [Allred 1999]
- Haplopappus phyllocephalus* A.P. de Candolle subsp. ***annuus*** (Rydberg) Hall
- Sideranthus annuus* Rydberg
- Rhaponticum*** knapweed
- Allred, K.W. & R. Lee. 1999. Knapweeds, starthistles, and basketflowers of New Mexico. The New Mexico Botanist 10:1-4.
- Hidalgo, O., N. Garcia-Jacas, T. Garnatje, & A. Susanna. 2006. Phylogeny of *Rhaponticum* (Asteraceae, Cardueae-Centaureinae) and related genera inferred from nuclear and chloroplast DNA sequence data: Taxonomic and biogeographic implications. Ann. Bot. 97(5): 705-714.
- \**repens*** (Linnaeus) Hidalgo [M&H]
- Acroptilon repens* (Linnaeus) A.P. de Candolle

- Centaurea picris* Pallas ex Willdenow  
*Centaurea repens* Linnaeus
- Riddellia cooperi* Gray = *Psilostrophe cooperi* (Gray) Greene  
*tagetina* Nuttall = *Psilostrophe tagetina* (Nuttall) Greene  
*tagetina* Nuttall var. *sparsiflora* Gray = *Psilostrophe sparsiflora* (Gray) A. Nelson
- Roldana** roldana  
 Funston, A.M. 2006. *Roldana*, p. 620-621. IN: Flora of North America, vol. 20. Oxford University Press.  
*hartwegii* (Bentham) H. Robinson & Brettell : Reported by Funston (2006), but no specimens are known; awaits verification.  
*Senecio hartwegii* Bentham
- Rothia flavescens* = *Hymenopappus flavescens* Gray var. *flavescens*  
*mexicana* (Gray) Kuntze = *Hymenopappus mexicanus* Gray  
*tenuifolia* Kuntze = *Hymenopappus tenuifolius* Pursh
- Rudbeckia** coneflower  
 Hartman, R.L., B. Reif, B.E. Nelson, & B. Jacobs. 2006. New vascular plant records for New Mexico. *Sida* 22(2):1225-1233.  
*ampla* A. Nelson = *Rudbeckia laciniata* Linnaeus var. *ampla* (A. Nelson) Cronquist  
***amplexicaulis*** Vahl [M&H; W&S]  
*Dracopis amplexicaulis* (Vahl) Cassini  
*columnaris* Pursh = *Ratibida columnifera* (Nuttall) Wootton & Standley  
*columnifera* Nuttall = *Ratibida columnifera* (Nuttall) Wootton & Standley  
*flava* Moore = *Rudbeckia hirta* Linnaeus  
***hirta*** Linnaeus var. ***pulcherrima*** Farwell [M&H; W&S]  
 black-eyed Susan  
*Rudbeckia flava* Moore  
***laciniata*** Linnaeus var. ***ampla*** (A. Nelson) Cronquist [M&H; W&S]  
*Rudbeckia ampla* A. Nelson  
*Rudbeckia latissima* Greene  
***laciniata*** Linnaeus var. ***laciniata*** [Hartman et al. 2006]  
*latissima* Greene = *Rudbeckia laciniata* Linnaeus  
*tagetes* James = *Ratibida tagetes* (James) Barnhart
- Rydbergia brandegeei* (Porter) Rydberg = *Hymenoxys brandegeei* (Porter ex Gray) Parker
- Sanvitalia** Abert's dome  
 Torres, A.M. 1964. Revision of *Sanvitalia* (Compositae – Heliantheae). *Brittonia* 16:417-433.  
***abertii*** Gray [M&H; Torres 1964]
- Sartwellia** sartwellia  
 Turner, B.L. 1971. Taxonomy of *Sartwellia* (Compositae, Helenieae). *Sida* 4:265-273.  
***flaveriae*** Gray [M&H; Turner 1971]
- Scabrethia scabra* (Hooker) W.A. Weber subsp. *attenuata* (W.A. Weber) W.A. Weber = *Wyethia scabra* Hooker var. *attenuata* W.A. Weber  
*scabra* (Hooker) W.A. Weber subsp. *canescens* (W.A. Weber) W.A. Weber = *Wyethia scabra* Hooker var. *canescens* W.A. Weber
- Schkuhria** threadleaf  
 Ellison, W.L. 1964. A systematic study of the genus *Bahia* (Compositae). *Rhodora* 66:67-86, 177-215, 281-311.  
 Heiser, C.B., Jr. 1945. A revision of the genus *Schkuhria*. *Ann. Missouri Bot. Gard.* 313:279-301.  
*pedata* (A. Gray) A. Gray = *Hymenothrix pedata* (A. Gray) B.G. Baldwin  
*integrifolia* Gray var. *oblongifolia* Gray = *Platyschkuhria integrifolia* (Gray) Rydberg var. *oblongifolia* (Gray) Ellison  
*multiflora* Hooker & Arnott = *Picradeniopsis multiflora* (Hooker & Arnott) B.G. Baldwin  
*neomexicana* Gray = *Picradeniopsis multiflora* (Hooker & Arnott) B.G. Baldwin  
***pinnata*** (Lamarck) Kuntze ex Thellung var. ***wislizeni*** (Gray) B.L. Turner [M&H; W&S]  
*Schkuhria wislizeni* Gray  
*Schkuhria wislizeni* Gray var. *frustrata* Blake  
*Schkuhria wislizeni* Gray var. *wrightii* (Gray) Blake  
*Schkuhria wrightii* Gray  
*wislizeni* Gray = *Schkuhria pinnata* (Lamarck) Kuntze ex Thellung var. *wislizeni* (Gray) B.L. Turner

- wislizeni* Gray var. *frustrata* Blake = *Schkuhria pinnata* (Lamarck) Kuntze ex Thellung var. *wislizeni* (Gray) B.L. Turner  
*wislizeni* Gray var. *wrightii* (Gray) Blake = *Schkuhria pinnata* (Lamarck) Kuntze ex Thellung var. *wislizeni* (Gray) B.L. Turner  
*wrightii* Gray = *Schkuhria pinnata* (Lamarck) Kuntze ex Thellung var. *wislizeni* (Gray) B.L. Turner

**Scorzonera** false salsify

- Sivinski, R.C., T. Lowrey, & R. Peterson. 1994. Additions to the native and adventive flora of New Mexico. *Phytologia* 76(6):473-479. [*Scorzonera laciniata*]

\**laciniata* Linnaeus [Sivinski et al. 1994]

*Podospermum laciniatum* (Linnaeus) A.P. de Candolle

*Selloa glutinosa* Sprengel = *Gymnosperma glutinosum* (Sprengel) Lessing

**Senecio** groundsel

- Barkley, T.M. 1962. A revision of *Senecio aureus* Linn. and allied species. *Trans. Kansas Acad. Sci.* 65:318-408.  
 Barkley, T.M. 1978. *Senecio*, N. Amer. Fl. II (10):50-139.  
 Barkley, T.M. 1980. Taxonomic notes on *Senecio tomentosus* and its allies (Asteraceae). *Brittonia* 32(3):291-308.  
 Barkley, T.M. 1989. New taxa and nomenclatural combinations in *Senecio* in Mexico and the United States. *Phytologia* 67(3):237-253.  
 Barkley, T.M. 1999. The segregates of *Senecio*, s.l., and *Cacalia*, s.l., in the flora of North America north of Mexico. *Sida* 18(3):661-672.  
 Barkley, T.M. 2006. *Senecio*, p. 544-570. IN: *Flora of North America*, vol. 20. Oxford University Press.  
 Heil, K.D., S.L. O'Kane, & A. Clifford. 2002. Additions to the flora of New Mexico from the San Juan Basin Flora project. *The New Mexico Botanist* 24:1-4. [*Senecio serra admirabilis*]  
 Mahoney, A.K., V.W. Kong, & R.R. Kowal. 2002. Documented chromosome numbers 2002:3. Chromosome counts for *Packera pauperula* var. *appalachiana* (Asteraceae: Senecioneae). *Sida* 20(2):605-610. [*Senecio plattensis*]  
 Peterson, R.S. 2005. Lost: One groundsel. *The New Mexico Botanist* 32:8. [*Senecio millelobatus*]  
 Turner, B.L. 2011. Taxonomy and distribution of *Senecio parryi* (Asteraceae). *Phytologia* 93(3):341-345.  
 Turner, B.L. and T.M. Barkley. 1990. Taxonomic overview of the *Senecio flaccidus* complex in North America, including *S. douglasii*. *Phytologia* 68(6):51-55.

*accedens* Greene = *Senecio bigelovii* Gray var. *hallii* Gray

**actinella** Greene [M&H; W&S]

*Senecio actinella* Greene var. *mogollonicus* (Greene) Greenman

*Senecio mogollonicus* Greene

*actinella* Greene var. *mogollonicus* (Greene) Greenman = *Senecio actinella* Greene

*acutidens* Rydberg = *Packera streptanthifolia* (Greene) W.A. Weber & A. Löve

*admirabilis* Greene = *Senecio serra* Hooker var. *admirabilis* (Greene) A. Nelson

*ambrosioides* Rydberg = *Senecio eremophilus* Richardson var. *kingii* (Rydberg) Greenman

**amplectens** Gray var. **amplectens** [M&H; W&S]

*Ligularia amplectens* (Gray) W.A. Weber

**amplectens** A. Gray var. **holmii** (Greene) Harrington [Sivinski et al. 1995]

*Ligularia holmii* (Greene) W.A. Weber

*amplectens* Gray var. *taraxacoides* Gray = *Senecio taraxacoides* (Gray) Greene

*anacletus* Greene = *Senecio wootonii* Greene

*arizonicus* Greene : Reported as expected by M&H map; awaits verification.

**atratus** Greene [M&H; W&S]

*aureus* Linnaeus var. *alpinus* Gray = *Packera wernerifolia* (Gray) W.A. Weber & A. Löve

**bigelovii** Gray var. **bigelovii** [M&H; W&S]

*Ligularia bigelovii* (Gray) W.A. Weber

*Senecio chloranthus* Greene

*Senecio rusbyi* Greene

**bigelovii** Gray var. **hallii** Gray [M&H; W&S]

*Ligularia bigelovii* (Gray) W.A. Weber var. *hallii* (Gray) W.A. Weber

*Senecio accedens* Greene

*Senecio scopulinus* Greene

*blitoides* Greene = *Senecio fremontii* Torrey & Gray var. *blitoides* (Greene) Cronquist

*canovirens* Rydberg = *Packera fendleri* (Gray) W.A. Weber & A. Löve

*canus* Hooker = *Packera cana* (Hooker) W.A. Weber & A. Löve

*cardamine* Greene = *Packera cardamine* (Greene) W.A. Weber & A. Löve

*carthamoides* Greene = *Senecio fremontii* Torrey & Gray var. *blitoides* (Greene) Cronquist

- cernuus* Gray = *Senecio pudicus* Greene  
*chloranthus* Greene = *Senecio bigelovii* Gray var. *bigelovii*  
*cliffordii* Atwood & Welsh = *Packera spellenbergii* (T.M. Barkley) C. Jeffrey  
***crassulus*** Gray [M&H; W&S]  
     *Senecio lapathifolius* Greene  
*crocatus* Rydberg = *Packera crocata* (Rydberg) W.A. Weber & A. Löve  
*cymbalarioides* Nuttall (not *S. cymbalarioides* Huek) = *Packera streptanthifolia* (Nuttall)  
     W.A. Weber & A. Löve  
*cynthioides* Greene = *Packera cynthioides* (Greene) W.A. Weber & A. Löve  
*dimorphophyllus* Greene = *Packera dimorphophylla* (Greene) W.A. Weber & A. Löve  
*dimorphophyllus* Greene var. *intermedius* T.M. Barkley = *Packera dimorphophylla*  
     (Greene) W.A. Weber & A. Löve  
*douglasii* A.P. de Candolle var. *douglasii* = *Senecio flaccidus* Lessing var. *douglasii* (A.P.  
     de Candolle) B. Turner & T. Barkley  
*douglasii* A.P. de Candolle var. *longilobus* (Benth) L. Benson = *Senecio flaccidus*  
     Lessing var. *flaccidus*  
*douglasii* A.P. de Candolle var. var. *monoensis* (Greene) Jepson = *Senecio flaccidus*  
     Lessing var. *monoensis* (Greene) B.L. Turner & T. Barkley  
***eremophilus*** Richardson var. ***kingii*** (Rydberg) Greenman [M&H; W&S]  
     *Senecio ambrosioides* Rydberg non Martius  
     *Senecio eremophilus* Richardson subsp. *kingii* (Rydberg) Douglas & R.-Douglas  
     *Senecio kingii* Rydberg  
***eremophilus*** Richardson var. ***macdougali*** (Heller) Cronquist [Barkley 2006]  
     *Senecio macdougali* Heller  
*eremophilus* Richardson subsp. *kingii* (Rydberg) Douglas & R.-Douglas = *Senecio*  
     *eremophilus* Richardson var. *kingii* (Rydberg) Greenman  
*eurypterus* Greenman = *Packera neomexicana* (Greenman) W.A. Weber & A. Löve var.  
     *neomexicana*  
*fendleri* Gray = *Packera fendleri* (Gray) W.A. Weber & A. Löve  
*filifolius* Nuttall = *Senecio flaccidus* Lessing var. *flaccidus*  
*filifolius* Nuttall var. *jamesii* Torrey & Gray = *Senecio flaccidus* Lessing var. *flaccidus*  
*flaccidus* Lessing var. *douglasii* (A.P. de Candolle) B. Turner & T. Barkley : Restricted to  
     California and western Mexico by Barkley (2000).  
     *Senecio douglasii* A.P. de Candolle  
***flaccidus*** Lessing var. ***flaccidus*** [M&H; W&S]  
     *Senecio douglasii* A.P. de Candolle var. *longilobus* (Benth) L. Benson  
     *Senecio filifolius* Nuttall  
     *Senecio filifolius* Nuttall var. *jamesii* Torrey & Gray  
     *Senecio longilobus* Benth  
***flaccidus*** Lessing var. ***monoensis*** (Greene) B. Turner & T. Barkley [Turner &  
     Barkley 1990]  
     *Senecio douglasii* A.P. de Candolle var. *monoensis* (Greene) Jepson  
     *Senecio monoensis* Greene  
*flavovirens* Rydberg = *Packera paupercula* (Michaux) W.A. Weber & A. Löve  
*flavulus* Greene = *Packera pseudaurea* (Rydberg) W.A. Weber & A. Löve var. *flavula*  
     (Greene) Trock & Barkley  
***fremontii*** Torrey & Gray var. ***blitoides*** (Greene) Cronquist [M&H; W&S]  
     *Senecio blitoides* Greene  
     *Senecio carthamoides* Greene  
*hartianus* Heller = *Packera hartiana* (Heller) W.A. Weber & A. Löve  
*hartwegii* Benth = *Roldana hartwegii* (Benth) H. Robinson & Brettell  
***integerrimus*** Nuttall var. ***integerrimus*** [Sivinski et al. 1995]  
*kingii* Rydberg = *Senecio eremophilus* Richardson var. *kingii* (Rydberg) Greenman  
*lapathifolius* Greene = *Senecio crassulus* Gray  
*longilobus* Benth = *Senecio flaccidus* Lessing var. *flaccidus*  
*macdougali* Heller = *Senecio eremophilus* Richardson var. *macdougali* (Heller) Cronquist  
*metcalfei* Greene = *Packera neomexicanus* (Gray) W.A. Weber & A. Löve var. *mutabilis*  
     (Greene) W.A. Weber & A. Löve  
*microdontus* (Gray) Heller = *Senecio wootonii* Greene

*millelobatus* Rydberg : Reported for NM in M&H and W&S, based on a Charles Wright collection thought to be from NM, but now known to be from Texas; no specimens of this are known from the state [Peterson 2005].

*Packera millelobata* (Rydberg) W.A. Weber & A. Löve

*mogollonicus* Greene = *Senecio actinella* Greene var. *mogollonicus* (Greene) Greenman  
*monoensis* Greene = *Senecio flaccidus* Lessing var. *monoensis* (Greene) B.L. Turner & T. Barkley

*multicapitatus* Greenman ex Rydberg = *Senecio spartioides* Torrey & Gray

*multilobatus* Torrey & Gray ex Gray = *Packera multilobata* (Torrey & Gray ex Gray) W.A. Weber & A. Löve

*mutabilis* Greene = *Packera neomexicana* (Gray) W.A. Weber & A. Löve var. *mutabilis* (Greene) W.A. Weber & A. Löve

*neomexicanus* Gray var. *metcalfei* (Greene) T.M. Barkley = *Packera neomexicana* (Gray) W.A. Weber & A. Löve var. *mutabilis* (Greene) W.A. Weber & A. Löve

*neomexicanus* Gray var. *mutabilis* (Greene) T.M. Barkley = *Packera neomexicana* (Gray) W.A. Weber & A. Löve var. *mutabilis* (Greene) W.A. Weber & A. Löve

*neomexicanus* Gray = *Packera neomexicana* (Gray) W.A. Weber & A. Löve var. *neomexicana*

*neomexicanus* Gray var. *toumeyii* (Greene) T.M. Barkley = *Packera neomexicana* (Gray) W.A. Weber & A. Löve var. *toumeyii* (Greene) Trock & Barkley

*oblanceolatus* Rydberg = *Packera thurberi* (Gray) B.L. Turner

*obovatus* Muhlenberg ex Willdenow = *Packera obovata* (Muhlenberg ex Willdenow) W.A. Weber & A. Löve

*oresbius* Greenman = *Packera neomexicana* (Gray) W.A. Weber & A. Löve var. *neomexicana*

***parryi*** Gray [M&H; W&S]

*pauperculus* Michaux = *Packera paupercula* (Michaux) W.A. Weber & A. Löve

*pentadontus* Greene = *Packera werneriiifolia* (Gray) W.A. Weber & A. Löve

*plattensis* Nuttall = *Packera plattensis* (Nuttall) W.A. Weber & A. Löve

*pseudoureus* Rydberg var. *flavulus* (Greene) Greenman = *Packera pseudoureus* (Rydberg) W.A. Weber & A. Löve var. *flavula* (Greene) Trock & Barkley

*pudicus* Greene : Reported for NM by M&H and W&S, but authentic specimens are unknown; awaits verification.

*Ligularia pudica* (Greene) W.A. Weber

*Senecio cernuus* Gray

*quaerens* Greene = *Packera hartiana* (A. Heller) W.A. Weber & A. Löve

*quercetorum* Greene = *Packera quercetorum* (Greene) C. Jeffrey

*remifolius* Wootton & Standley = *Packera thurberi* (Gray) B.L. Turner

***riddellii*** Torrey & Gray [M&H; W&S]

*Senecio spartioides* Torrey & Gray var. *riddellii* (Torrey & Gray) Greenman

*rusbyi* Greene = *Senecio bigelovii* Gray var. *bigelovii*

**+*sacramentanus*** Wootton & Standley [M&H; W&S]

*salignus* A.P. de Candolle = *Barkleyanthus salicifolius* (Kunth) H. Robinson & Brettell

*sanguisorboides* Rydberg = *Packera sanguisorboides* (Rydberg) W.A. Weber & A. Löve

*saxosus* Klatt = *Packera werneriiifolia* (Gray) W.A. Weber & A. Löve

*scopulinus* Greene = *Senecio bigelovii* Gray var. *hallii* Gray

***serra*** Hooker var. ***admirabilis*** (Greene) A. Nelson [Heil et al. 2002]

*Senecio admirabilis* Greene

*soldanella* Gray : Reported by Spellenberg et al. 1986, but the specimen in question is correctly identified as *Senecio amplectens* A. Gray var. *holmii* (Greene) Harrington (fide Chick Keller 2009); other reports are likewise misidentified or only tentative.

*Ligularia soldanella* (Gray) W.A. Weber

***spartioides*** Torrey & Gray [M&H; W&S]

*Senecio multicapitatus* Greenman ex Rydberg

*Senecio spartioides* Torrey & Gray var. *multicapitatus* (Greenman ex Rydberg) S.L. Welsh

*spartioides* Torrey & Gray var. *multicapitatus* (Greenman ex Rydberg) S.L. Welsh = *Senecio spartioides* Torrey & Gray

- spartioides* Torrey & Gray var. *riddellii* (Torrey & Gray) Greenman = *Senecio riddellii* Torrey & Gray
- spellenbergii* T.M. Barkley = *Packera spellenbergii* (T.M. Barkley) C. Jeffrey
- streptanthifolia* Greene = *Packera streptanthifolia* (Greene) W.A. Weber & A. Löve
- taraxacoides*** (Gray) Greene [M&H; W&S]  
*Ligularia taraxacoides* (Gray) W.A. Weber  
*Senecio amplexans* Gray var. *taraxacoides* Gray
- thurberi* Gray = *Packera thurberi* (Gray) B.L. Turner
- toluccanus* var. *microdontus* Gray = *Senecio wootonii* Greene
- triangularis*** Hooker [M&H; W&S]
- tridenticulatus* Rydberg = *Packera thurberi* (Gray) B.L. Turner
- \**vulgaris*** Linnaeus [M&H; W&S]
- warnockii*** Shinnery [Barkley 2006]
- werneriiifolius* (Gray) Gray = *Packera werneriiifolia* (Gray) W.A. Weber & A. Löve
- wootonii*** Greene [M&H; W&S]  
*Senecio anacletus* Greene  
*Senecio microdontus* (Gray) Heller, not *Senecio microdontus* Baker  
*Senecio toluccanus* var. *microdontus* Gray
- Serratula arvensis* Linnaeus = *Cirsium arvensis* (Linnaeus) Scopoli
- Seriphidium bigelovii* (Gray) K. Bremer & Humphries = *Artemisia bigelovii* Gray  
*novum* (A. Nelson) W.A. Weber = *Artemisia nova* A. Nelson
- pygmaeum* (A. Gray) W.A. Weber = *Artemisia pygmaea* A. Gray
- tridentatum* (Nuttall) W.A. Weber = *Artemisia tridentata* Nuttall
- tidentatum* (Nuttall) W.A. Weber subsp. *wyomingense* (Beetle & A.M. Young) W.A. Weber = *Artemisia tridentata* Nuttall subsp. *wyomingensis* Beetle & A.M. Young
- vaseyanum* (Rydberg) W.A. Weber = *Artemisia tridentata* Nuttall subsp. *vaseyana* (Rydberg) Beetle
- Sideranthus annuus* Rydberg = *Rayjacksonia annua* (Rydberg) Hartman & Lane
- australis* (Greene) Rydberg = *Xanthisma spinulosum* (Pursh) Morgan & Hartman var. *spinulosum*  
*glaberrimus* Rydberg = *Xanthisma glaberrimum* (Rydberg) Nesom & O'Kennon
- gracilis* (Nuttall) Rydberg = *Xanthisma gracile* (Nuttall) Morgan & Hartman
- grindelioides* Nuttall = *Xanthisma grindelioides* (Nuttall) Morgan & Hartman
- laevis* Wooton & Standley = *Xanthisma spinulosum* (Pursh) Morgan & Hartman var. *spinulosum*
- serratus* (Greene) Standley = *Xanthisma blephariphyllum* (Gray) Morgan & Hartman
- spinulosus* (Pursh) Sweet ex Rydberg = *Xanthisma spinulosum* (Pursh) Morgan & Hartman var. *spinulosum*
- viscidus* Wooton & Standley = *Xanthisma viscidum* (Wooton & Standley) Morgan & Hartman
- wootonii* (Greene) Standley = *Xanthisma spinulosum* (Pursh) Morgan & Hartman var. *spinulosum*
- Sidneya*** *goldeneye*  
Schilling, E. E. & J. L. Panero. 2011. A revised classification of subtribe Helianthinae (Asteraceae: Heliantheae): II. Derived lineages. Bot. J. Linnean Society 167: 311-331.
- tenuifolia*** (A. Gray) E.E. Schilling & Panero [M&H; W&S]  
*Gymnolomia tenuifolia* (A. Gray) Bentham & Hooker  
*Heliomeris tenuifolia* A. Gray  
*Viguiera stenoloba* S.F. Blake
- Silphium*** *compass-plant*  
Clevinger, J.A. 2006. *Silphium*, pp. 77-82. IN: Flora of North America, vol. 21. Oxford University Press. [*Silphium integrifolium*]
- Heil, K. & A. Clifford. 2003. Plant distribution reports. The New Mexico Botanist 28:8. [*Silphium laciniatum*]
- \**integrifolium*** Michaux var. *laeve* Torrey & Gray [Clevinger 2006]
- \**laciniatum*** Linnaeus [Heil & Clifford 2003]
- peristenium* Rafinesque = *Engelmannia peristenia* (Rafinesque) Goodman & Lawson
- Silybum*** *milk-thistle*  
Moore, R.J. & C. Frankton. 1974. The thistles of Canada. Res. Branch, Canada Dept. Agr., Monogr. No. 10.
- \**marianum*** (Linnaeus) Gaertner [Spellenberg et al. 1986]

*Carduus marianus* Linnaeus**Simsia** *simsia*

Spooner, D.M. 1990. Systematics of *Simsia* (Compositae-Heliantheae). Syst. Bot. Monogr. 30:1-90.

Worthington, R.D. 2002. New plant distribution records. The New Mexico Botanist 22:7. [*Simsia lagasceiformis*]

**calva** (Engelmann & Gray) Gray [Spooner 1990]

*Barrattia calva* Engelmann & Gray

*exaristata* Gray = *Simsia lagasceiformis* A.P. de Candolle

**lagasceiformis** A.P. de Candolle [Spooner 1990; Worthington 2002]

*Encelia exaristata* (Gray) Gray

*Simsia exaristata* Gray

*scaposa* Gray = *Encelia scaposa* (Gray) Gray

*Sitilias multicaulis* (A.P. de Candolle) Greene = *Pyrrhopappus pauciflorus* (D. Don) A.P. de Candolle

**Solidago** *goldenrod*

Anderson, L.C., & J.B. Creech. 1975. Comparative leaf anatomy of *Solidago* and related Asteraceae. Amer. J. Bot. 62: 486-493.

Beck, J.B., G.L. Nesom, P.J. Calie, G.I. Baird, R.S. Small & E.E. Schilling. 2004. Is subtribe Solidagininae (Asteraceae) monophyletic? Taxon 53: 691-698.

Brouillet, L., T. Lowrey, L. Urbatsch, V. Karaman-Castro, G. Sancho, S. Wagstaff, & J.C. Semple. 2009. Asteraceae, pp. 449-490. IN: Systematics, Evolution and Biogeography of the Compositae, Funk, V.A., A. Susanna, T. Stuessy, & R. Bayer (eds.). IAPT, Vienna, Austria.

Cockerell, T.D.A. & D.M. Andrews. 1936. A new goldenrod from northern New Mexico. Torreya 36(2):35-36. [*Solidago capulinensis*]

Cronquist, A. 1994. Intermountain flora; vascular plants of the Intermountain West, U.S.A. Vol. 5. Asterales. New York Botanical Garden. New York.

Heard, S.B. & J.C. Semple. 1988. The *Solidago rigida* complex (Compositae: Astereae): a multivariate morphometric analysis and chromosome numbers. Can. J. Bot. 66: 1800-1807.

Heil, K. 2007. Plant distribution reports. The New Mexico Botanist 38:7. [*Solidago lepida salebrosa*]

Keller, C.F. 1999. New Mexico *Solidagos*: A preliminary look at a difficult problem, with a tentative key. The New Mexico Botanist 11:1-5.

Nesom, G.L. 1989. Taxonomy of *Solidago velutina* with a new, related species from Mexico. Phytologia 67(6):441-450.

Nesom, G.L. 1989. *Solidago simplex*, the correct name for *S. glutinosa*. Phytologia 68:155-157.

Nesom, G.L. 1993. Taxonomic infrastructure of *Solidago* and *Oligoneuron* (Asteraceae: Astereae) and observations on their phylogenetic position. Phytologia 75(1):1-44.

Nesom, G.L. 2008. Taxonomic review of *Solidago petiolaris* and *S. wrightii* (Asteraceae: Astereae). Phytologia 90(1):21-35. [*Solidago wrightii guadalupensis*]

Nesom, G.L. & T.K. Lowrey. 2011. *Solidago capulinensis* (Asteraceae: Astereae) redivivus. Phytoneuron 2011-24:1-22.

Noyes, R. D. & L.H. Rieseberg. 1999. ITS sequence data support a single origin for North American Astereae (Asteraceae) and reflect deep geographic divisions in *Aster* S.L. Amer. J. Bot. 86: 398-412.

Peirson, J.A., A.A. Reznicek, & J.C. Semple. 2012. Polyploidy, infraspecific cytotype variation, and speciation in goldenrods: The cytogeography of *Solidago* subsect. *Humiles* (Asteraceae) in North America. Taxon 61(1):197-210.

Ringius, G.S. 1991. New combinations in *Solidago simplex*. Phytologia 70:396-399.

Ringius, G.S. & J.C. Semple. 1987. Cytogeography of *Solidago spathulata-glutinosa* complex. Can. J. Bot. 65:2459-2462.

Schilling, E.E., J.B. Beck, P.J. Calie, & R.L. Small. 2008. Molecular analysis of *Solidaster* cv. Lemore, a hybrid goldenrod (Asteraceae). Journal of the Botanical Research Institute of Texas 2: 7-18.

Semple, J.C. 2003. New names and combinations in goldenrods, *Solidago* (Asteraceae: Astereae). Sida 20(4):1605-1606.

Semple, J.C. 2016. An intuitive phylogeny and summary of chromosome number variation in the goldenrod genus *Solidago* (Asteraceae: Astereae). Phytoneuron 2016-32. 1-9.

Semple, J.C., H. Faheemuddin, Y.A. Chong, M.K. Sorour, J.A. Hood, I. Khamis, Y. Ma, & K. Kornobis. 2013. A multivariate morphometric study of the *Solidago canadensis* / *S. lepida* complex of *Solidago* subsect. *Triplinerviae*. I. Northeastern taxa (Asteraceae: Astereae). Phytoneuron 2013-58: 1-20.

Semple, J.C., H. Faheemuddin, M. Sorour, & Y.A. Chong. 2017. A Multivariate studies of *Solidago* subsect. *Triplinerviae* in western North America: The *Solidago lepida* complex (Asteraceae: Astereae). Phytoneuron 2017-47: 1-43.

Semple, J.C. & K. Gandhi. 2004. *Solidago* sect. *Ptarmicoides*, a new combination to replace a "rankless" name used by Torrey and Gray (Asteraceae: Astereae). Sida 21: 755-757.



- Semple, J.C., J.G. Chmielewski, & R.A. Brammel. 1990. A multivariate morphometric study of *Solidago nemoralis* (Compositae-Asteraceae) and comparison with *S. californica* and *S. sparsiflora*. *Can. J. Bot.* 68:2070-2082.
- Semple, J.C. & R.E. Cook. 2006. *Solidago*, p. 107-166. IN: *Flora of North America*, vol. 20. Oxford University Press, New York.
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- Semple, J.C., H. Rahman, S. Bzovsky, M.K. Sorour, K. Kornobis, R. Lopez Laphitz, & L. Tong. 2015. A multivariate morphometric study of the *Solidago altissima* complex and *S. canadensis* (Asteraceae: Astereae). *Phytoneuron* 2015-10. 1-31.
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- Taylor, C. & J. Taylor. 1983. New species, new combinations and notes on the goldenrods (*Euthamia* and *Solidago*- Asteraceae). *Sida* 10(2):176-183.
- Taylor, C. & J. Taylor. 1984. *Solidago* in Oklahoma and Texas. *Sida* 10:176-251.
- Zhang, Jie. 1996. A molecular systematic study on North American *Solidago* and related genera (Asteraceae: Astereae) based on chloroplast DNA RFLP analysis. Department of Biology, University of Waterloo. Waterloo, Ontario.
- algida* Piper = *Solidago multiradiata* Aiton
- altiplanities*** C.E.S. Taylor & R.J. Taylor [FNM I]
- altissima*** Linnaeus subsp. ***gilvocanescens*** (Rydberg) Semple [M&H; W&S]  
*Doria gilvocanescens* (Rydberg) Lunell  
*Solidago canadensis* Linnaeus subsp. *gilvocanescens* (Rydberg) A. Löve & D. Löve  
*Solidago canadensis* Linnaeus var. *gilvocanescens* Rydberg  
*Solidago gilvocanescens* (Rydberg) Smith
- altissima*** Linnaeus subsp. ***pluricephala*** M.C. Johnston [FNM I]  
*arizonica* (Gray) Wootton & Standley = *Solidago velutina* A.P. de Candolle  
*aureola* Greene = *Solidago glutinosa* Nuttall  
*bigelovii* Gray = *Solidago wrightii* Gray  
*bombycinum* (Lunell) Friesner = *Solidago rigida* Linnaeus subsp. *humilis* (Porter) Heard & Semple  
*californica* Nuttall var. *nevadensis* A. Gray = *Solidago velutina* A.P. de Candolle  
*canadensis* Linnaeus s.s. : Reported by numerous authors for western states, but I follow the narrow circumscription of Semple & Cook (2006), who show its nearest occurrence in Nebraska; NM material called this is most likely referred to *Solidago lepida* A.P. de Candolle, or two other species of the subsection *Triplinerviae*, *Solidago altissima* Linnaeus and *Solidago gigantea* Aiton.  
*canadensis* of western authors = *Solidago lepida* A.P. de Candolle  
*canadensis* Linnaeus var. *arizonica* Gray = *Solidago velutina* A.P. de Candolle  
*canadensis* Linnaeus subsp. *gilvocanescens* (Rydberg) A. Löve & D. Löve = *Solidago altissima* Linnaeus subsp. *gilvocanescens* (Rydberg) Semple  
*canadensis* Linnaeus var. *gilvocanescens* Rydberg = *Solidago altissima* Linnaeus subsp. *gilvocanescens* (Rydberg) Semple  
*canadensis* Linnaeus var. *lepida* (A.P. de Candolle) Cronquist = *Solidago lepida* A.P. de Candolle var. *lepida*  
*canadensis* Linnaeus subsp. *salebrosa* (Piper) Keck = *Solidago lepida* A.P. de Candolle var. *salebrosa* (Piper) Semple  
*canadensis* Linnaeus var. *salebrosa* (Piper) M.E. Jones = *Solidago lepida* A.P. de Candolle var. *salebrosa* (Piper) Semple  
*canadensis* Linnaeus var. *subserrata* (A.P. de Candolle) Cronquist = *Solidago lepida* A.P. de Candolle var. *lepida*  
*canescens* (Rydberg) Friesner = *Solidago rigida* Linnaeus subsp. *humilis* (Porter) Heard & Semple
- capulinensis*** Cockerell & Andrews [Cockerell & Andrews 1936; Nesom & Lowrey 2011]  
*ciliosa* Greene = *Solidago multiradiata* Aiton  
*cleliae* A.P. de Candolle = *Solidago gigantea* Aiton  
*concinna* A. Nelson = *Solidago missouriensis* Nuttall

**correllii** Semple [Nesom 2008]

- Solidago wrightii* A. Gray var. *guadalupensis* G.L. Nesom  
*cusickii* Piper = *Solidago multiradiata* Aiton  
*decemflora* A.P. de Candolle = *Solidago nemoralis* Aiton var. *decemflora* (A.P. de Candolle) Fernald  
*decumbens* Greene = *Solidago glutinosa* Nuttall  
*decumbens* Greene var. *oreophila* (Rydberg) Fernald = *Solidago glutinosa* Nuttall  
*dilatata* A. Nelson = *Solidago multiradiata* Aiton  
*dumetorum* Lunell = *Solidago gigantea* Aiton  
*duriuscula* Greene = *Solidago missouriensis* Nuttall  
*garrettii* Rydberg = *Solidago velutina* A.P. de Candolle

**gigantea** Aiton [M&H; W&S]

- Aster latissimifolius* (Miller) Kuntze var. *serotinus* Kuntze  
*Doria dumetorum* (Lunell) Lunell  
*Doria pitcheri* (Nuttall) Lunell  
*Solidago cliviae* A.P. de Candolle  
*Solidago dumetorum* Lunell  
*Solidago gigantea* var. *leiophylla* Fernald  
*Solidago gigantea* var. *pitcheri* (Nuttall) Shinnars  
*Solidago gigantea* subsp. *serotina* (Kuntze) McNeill  
*Solidago gigantea* var. *serotina* (Kuntze) Cronquist  
*Solidago gigantea* var. *shinnarsii* Beaudry  
*Solidago pitcheri* Nuttall  
*Solidago serotina* Aiton 1789 not Retzius 1781  
*Solidago serotina* var. *gigantea* (Aiton) A. Gray  
*Solidago serotina* var. *minor* Hooker  
*Solidago serotinoides* A. Löve & D. Löve  
*Solidago shinnarsii* (Beaudry) Beaudry  
*Solidago somesii* Rydberg  
*gigantea* Aiton var. *leiophylla* Fernald = *Solidago gigantea* Aiton  
*gigantea* var. *pitcheri* (Nuttall) Shinnars = *Solidago gigantea* Aiton  
*gigantea* Aiton var. *salebrosa* (Piper) Friesner = *Solidago lepida* A.P. de Candolle var. *salebrosa* (Piper) Semple  
*gigantea* var. *serotina* (Kuntze) Cronquist = *Solidago gigantea* Aiton  
*gigantea* var. *shinnarsii* Beaudry = *Solidago gigantea* Aiton  
*gilvocanescens* (Rydberg) Smith = *Solidago altissima* Linnaeus subsp. *gilvocanescens* (Rydberg) Semple  
*glaberrima* Martens = *Solidago missouriensis* Nuttall  
*glaberrima* var. *montana* (A. Gray) Lunell = *Solidago missouriensis* Nuttall  
*glaberrima* var. *moritura* (Steele) Palmer & Steyermark = *Solidago missouriensis* Nuttall  
*glaucophylla* Rydberg = *Solidago missouriensis* Nuttall
- glutinosa** Nuttall [M&H; W&S]
- Aster bonplandii* Kuntze  
*Aster confertiflorus* (A.P. de Candolle) Kuntze  
*Solidago aureola* Greene  
*Solidago decumbens* Greene  
*Solidago decumbens* Greene var. *oreophila* (Rydberg) Fernald  
*Solidago multiradiata* Aiton var. *neomexicana* Gray  
*Solidago neomexicana* (A. Gray) Wooton & Standley  
*Solidago oreophila* Rydberg  
*Solidago spathulata* A.P. de Candolle subsp. *glutinosa* (Nuttall) Keck  
*Solidago spathulata* A.P. de Candolle var. *neomexicana* (Gray) Cronquist  
*Solidago verspertina* Piper  
*Solidago virgaurea* Linnaeus var. *confertiflora* (A.P. de Candolle) Kurtz  
*graminea* (Wooton & Standley) Blake = *Petradoria pumila* (Nuttall) Greene subsp. *graminea* (Wooton & Standley) L.C. Anderson  
*hapaniana* Rydberg = *Solidago missouriensis* Nuttall  
*heterophylla* Nuttall = *Solidago multiradiata* Aiton  
*howellii* Wooton & Standley = *Solidago velutina* A.P. de Candolle  
*incana* Torrey & A. Gray = *Solidago mollis* Bartling

- jacksonii* (Kuntze) Fernald var. *humilis* (Porter) Beaudry = *Solidago rigida* Linnaeus subsp. *humilis* (Porter) Heard & Semple
- lepida*** A.P. de Candolle var. ***lepida*** [Semple & Cook 2006]  
*Aster lepidus* (A.P. de Candolle) Kuntze  
*Solidago canadensis* of western authors  
*Solidago canadensis* Linnaeus var. *lepida* (A.P. de Candolle) Cronquist  
*Solidago canadensis* Linnaeus var. *subserrata* (A.P. de Candolle) Cronquist  
*Solidago lepida* A.P. de Candolle var. *subserrata* A.P. de Candolle
- lepida*** A.P. de Candolle var. ***salebroso*** (Piper) Semple [Heil 2007; Semple & Cook 2006]  
*Solidago canadensis* of western authors  
*Solidago canadensis* Linnaeus subsp. *salebroso* (Piper) Keck  
*Solidago canadensis* Linnaeus var. *salebroso* (Piper) M.E. Jones  
*Solidago gigantea* Aiton var. *salebroso* (Piper) Friesner  
*Solidago salebroso* (Piper) Rydberg  
*Solidago serotina* Retzius var. *salebroso* Piper  
*Solidago serra* Rydberg
- lepida* A.P. de Candolle var. *subserrata* A.P. de Candolle = *Solidago lepida* A.P. de Candolle var. *lepida*
- marshallii* Rothrock = *Solidago missouriensis* Nuttall
- missouriensis*** Nuttall [M&H; W&S]  
*Aster marshallii* (Rothrock) Kuntze  
*Aster missouriensis* (Nuttall) Kuntze  
*Aster tolmieanus* (A. Gray) Kuntze  
*Doria concinna* (A. Nelson) Lunell  
*Doria glaberrima* (M. Martens) Lunell  
*Doria glaberrima* var. *montana* (A. Gray) Lunell  
*Solidago concinna* A. Nelson  
*Solidago duriuscula* Greene  
*Solidago glaberrima* Martens  
*Solidago glaberrima* var. *montana* (A. Gray) Lunell  
*Solidago glaberrima* var. *moritura* (Steele) Palmer & Steyermark  
*Solidago glaucophylla* Rydberg  
*Solidago hapemaniana* Rydberg  
*Solidago marshallii* Rothrock  
*Solidago missouriensis* Nuttall var. *extraria* A. Gray  
*Solidago missouriensis* Nuttall var. *fasciculata* Holzinger  
*Solidago missouriensis* Nuttall var. *glaberrima* (M. Martens) Rosendahl & Cronquist  
*Solidago missouriensis* Nuttall var. *montana* A. Gray  
*Solidago missouriensis* Nuttall var. *tenuissima* (Wooton & Standley) C. & J. Taylor  
*Solidago missouriensis* Nuttall var. *tolmieana* (A. Gray) Cronquist  
*Solidago moritura* Steele  
*Solidago tenuissima* Wooton & Standley  
*Solidago tolmieana* A. Gray
- missouriensis* var. *extraria* A. Gray = *Solidago missouriensis* Nuttall  
*missouriensis* Nuttall var. *fasciculata* Holzinger = *Solidago missouriensis* Nuttall  
*missouriensis* var. *glaberrima* (M. Martens) Rosendahl & Cronquist = *Solidago missouriensis* Nuttall
- missouriensis* var. *montana* A. Gray = *Solidago missouriensis* Nuttall  
*missouriensis* Nuttall var. *tenuissima* (Wooton & Standley) C. & J. Taylor = *Solidago missouriensis* Nuttall
- missouriensis* var. *tolmieana* (A. Gray) Cronquist = *Solidago missouriensis* Nuttall
- mollis*** Bartling [M&H]  
*Doria incana* (Torrey & A. Gray) Lunell  
*Doria mollis* (Bartling) Lunell  
*Solidago incana* Torrey & A. Gray  
*Solidago mollis* Bartling var. *angustata* Shinnars  
*Solidago nemoralis* Aiton var. *incana* (Torrey & A. Gray) A. Gray

- Solidago nemoralis* var. *mollis* (Bartling) A. Gray  
*mollis* Bartling var. *angustata* Shinnery = *Solidago mollis* Bartling  
*mollis* Rothrock [not Bartling] = *Solidago velutina* A.P. de Candolle  
*moritura* Steele = *Solidago missouriensis* Nuttall
- multiradiata*** Aiton [M&H; W&S]  
*Aster multiradiatus* (Aiton) Kuntze  
*Solidago algida* Piper  
*Solidago ciliosa* Greene  
*Solidago cusickii* Piper  
*Solidago dilatata* A. Nelson  
*Solidago heterophylla* Nuttall  
*Solidago multiradiata* Aiton var. *arctica* (A.P. de Candolle) Fernald  
*Solidago multiradiata* Aiton var. *scopulorum* A. Gray  
*Solidago rubra* Rydberg  
*Solidago virgaurea* Linnaeus var. *arctica* A.P. de Candolle  
*Solidago virgaurea* Linnaeus var. *multiradiata* (Aiton) Torrey & A. Gray  
*multiradiata* Aiton var. *arctica* (A.P. de Candolle) Fernald = *Solidago multiradiata* Aiton  
*multiradiata* Aiton var. *neomexicana* A. Gray = *Solidago glutinosa* Nuttall  
*multiradiata* Aiton var. *scopulorum* A. Gray = *Solidago multiradiata* Aiton
- nana*** Nuttall [Cronquist 1994; Keller 1999]  
*Aster nanus* (Nuttall) Kuntze  
*Solidago nivea* Rydberg
- nemoralis*** Aiton subsp. ***decemflora*** (A.P. de Candolle) Bramall ex Semple [M&H]  
*Solidago decemflora* A.P. de Candolle  
*Solidago nemoralis* Aiton var. *decemflora* (A.P. de Candolle) Fernald  
*Solidago nemoralis* Aiton var. *longipetiolata* (Mackenzie & Bush) Palmer & Steyermark
- nemoralis* Aiton subsp. *decemflora* (A.P. de Candolle) Brammall ex Semple = *Solidago nemoralis* Aiton var. *decemflora* (A.P. de Candolle) Fernald  
*nemoralis* Aiton var. *incana* (Torrey & A. Gray) A. Gray = *Solidago mollis* Bartling  
*nemoralis* Aiton var. *longipetiolata* (Mackenzie & Bush) Palmer & Steyermark = *Solidago nemoralis* Aiton var. *decemflora* (A.P. de Candolle) Fernald  
*nemoralis* var. *mollis* (Bartling) A. Gray = *Solidago mollis* Bartling  
*neomexicana* (A. Gray) Wootton & Standley = *Solidago glutinosa* Nuttall  
*nivea* Rydberg = *Solidago nana* Nuttall  
*occidentalis* (Nuttall) Torrey & Gray = *Euthamia occidentalis* Nuttall  
*oreophila* Rydberg = *Solidago glutinosa* Nuttall
- pallida*** (Porter) Rydberg [Sivinski et al. 1995]  
*Solidago speciosa* Nuttall var. *pallida* Porter  
*Solidago speciosa* Nutt. subsp. *pallida* (Porter) Semple  
*parryi* (Gray) Greene = *Oreochrysum parryi* (Gray) Rydberg  
*parvirigida* Beaudry = *Solidago rigida* Linnaeus subsp. *humilis* (Porter) Heard & Semple
- petiolaris*** Aiton var. ***wardii*** (Britton) Fernald [Gleason 1963; Semple & Cook 2006]  
*Solidago petiolaris* Aiton var. *angusta* (Torrey & Gray) Gray  
*Solidago wardii* Britton
- petiolaris* Aiton var. *angusta* (Torrey & Gray) Gray = *Solidago petiolaris* Aiton  
*petradoria* Blake = *Petradoria pumila* (Nuttall) Greene subsp. *pumila*  
*pitcheri* Nuttall = *Solidago gigantea* Aiton
- rigida*** Linnaeus subsp. ***humilis*** (Porter) Heard & Semple [M&H; Taylor & Taylor 1984; W&S]  
*Oligoneuron bombycinum* Lunell  
*Oligoneuron canescens* Rydberg  
*Oligoneuron corymbosum* (Elliott) Small var. *humilis* (Porter) Beaudry & Kapoor  
*Oligoneuron rigidum* (Linnaeus) T.C. Porter  
*Oligoneuron rigidum* (Linnaeus) Small var. *humile* (Porter) Nesom  
*Solidago bombycinum* (Lunell) Friesner  
*Solidago canescens* (Rydberg) Friesner  
*Solidago jacksonii* (Kuntze) Fernald var. *humilis* (Porter) Beaudry

- Solidago parvirigida* Beaudry  
*Solidago rigida* var. *canescens* (Rydberg) Breitung  
*Solidago rigida* Linnaeus var. *humilis* Porter  
*rigida* var. *canescens* (Rydberg) Breitung = *Solidago rigida* Linnaeus subsp. *humilis* (Porter) Heard & Semple  
*rigida* Linnaeus var. *humilis* Porter = *Solidago rigida* Linnaeus subsp. *humilis* (Porter) Heard & Semple  
*rubra* Rydberg = *Solidago multiradiata* Aiton  
*salebrosa* (Piper) Rydberg = *Solidago lepida* A.P. de Candolle var. *salebrosa* (Piper) Semple  
*sarothrae* Pursh = *Gutierrezia sarothrae* (Pursh) Britton & Rusby  
*scopulorum* (Gray) A. Nelson = *Solidago multiradiata* Aiton  
*serotina* Aiton 1789 not Retzius 1781 = *Solidago gigantea* Aiton  
*serotina* var. *gigantea* (Aiton) A. Gray = *Solidago gigantea* Aiton  
*serotina* var. *minor* Hooker = *Solidago gigantea* Aiton  
*serotina* Retz. var. *salebrosa* Piper = *Solidago lepida* A.P. de Candolle var. *salebrosa* (Piper) Semple  
*serotinoides* A. Löve & D. Löve = *Solidago gigantea* Aiton  
*serra* Rydberg = *Solidago lepida* A.P. de Candolle var. *salebrosa* (Piper) Semple  
*shimmersii* (Beaudry) Beaudry = *Solidago gigantea* Aiton  
*simplex* Kunth var. *nana* (Gray) Ringius : Restricted in concept by Ringius and Semple (1987) and endemic to the Pacific Northwest; NM material referred to *Solidago simplex* Kunth var. *simplex*.  
*Solidago spathulata* A.P. de Candolle var. *nana* (Gray) Cronquist  
*simplex* of NM reports = *Solidago glutinosa* Nuttall  
*somesii* Rydberg = *Solidago gigantea* Aiton  
*sparsiflora* Gray = *Solidago velutina* A.P. de Candolle  
*spathulata* A.P. de Candolle subsp. *glutinosa* (Nuttall) Keck = *Solidago glutinosa* Nuttall  
*spathulata* A.P. de Candolle var. *nana* (Gray) Cronquist = *Solidago simplex* Kunth var. *nana* (Gray) Ringius  
*spathulata* A.P. de Candolle var. *neomexicana* (Gray) Cronquist = *Solidago glutinosa* Nuttall  
*speciosa* Nuttall var. subsp. *pallida* (Porter) Semple = *Solidago pallida* (Porter) Rydberg  
*speciosa* Nuttall var. *pallida* Porter = *Solidago pallida* (Porter) Rydberg  
*tenuissima* Wooton & Standley = *Solidago missouriensis* Nuttall  
*tolmieana* A. Gray = *Solidago missouriensis* Nuttall  
*trinervata* Greene = *Solidago velutina* A.P. de Candolle  
***velutina*** A.P. de Candolle [M&H; W&S]  
*Aster sparsiflorus* (A.P. de Candolle) Kuntze  
*Aster velutinus* (A.P. de Candolle) Kuntze  
*Solidago arizonica* (A. Gray) Wooton & Standley  
*Solidago californica* Nuttall var. *nevadensis* A. Gray  
*Solidago canadensis* Linnaeus var. *arizonica* A. Gray  
*Solidago garrettii* Rydberg  
*Solidago howellii* Wooton & Standley  
*Solidago mollis* Rothrock [not Bartling]  
*Solidago sparsiflora* A. Gray  
*Solidago sparsiflora* A. Gray var. *subcinerea* A. Gray  
*Solidago trinervata* Greene  
*Solidago velutina* A.P. de Candolle var. *nevadensis* (A. Gray) Taylor & Taylor  
*Solidago velutina* A.P. de Candolle subsp. *sparsiflora* (Gray) Semple  
*velutina* A.P. de Candolle var. *nevadensis* (A. Gray) Taylor & Taylor = *Solidago velutina* A.P. de Candolle  
*velutina* A.P. de Candolle subsp. *sparsiflora* (Gray) Semple = *Solidago velutina* A.P. de Candolle  
*vespertina* Piper = *Solidago glutinosa* Nuttall  
*virgaurea* Linnaeus var. *arctica* A.P. de Candolle = *Solidago multiradiata* Aiton  
*virgaurea* Linnaeus var. *confertiflora* (A.P. de Candolle) Kurtz = *Solidago glutinosa* Nuttall  
*virgaurea* Linnaeus var. *multiradiata* (Aiton) Torrey & A. Gray = *Solidago glutinosa* Nuttall

*wardii* Britton = *Solidago petiolaris* Aiton var. *wardii* (Britton) Fernald

***wrightii*** A. Gray [M&H; W&S]

*Aster brittonii* Kuntze

*Solidago bigelovii* A. Gray

*Solidago bigelovii* A. Gray var. *wrightii* (A. Gray) A. Gray

*Solidago wrightii* A. Gray forma *adenophora* (Blake) Nesom

*Solidago wrightii* A. Gray var. *adenophora* Blake

*wrightii* A. Gray forma *adenophora* (Blake) Nesom = *Solidago wrightii* A. Gray

*wrightii* A. Gray var. *adenophora* Blake = *Solidago wrightii* A. Gray

*wrightii* Gray var. *guadalupensis* Nesom = *Solidago correllii* Semple

***Sonchus*** sow-thistle

Boulos, L. 1972-74. Révision systématique du genre *Sonchus* Linnaeus. Bot. Not. 125:287-319; 126:155-196; 127:7-37, 402-451.

Heil, K. & S. O'Kane. 2007. Plant distribution reports. The New Mexico Botanist 41:7. [*Sonchus arvensis uliginosus*]

\****arvensis*** Linnaeus var. ***arvensis*** [M&H; W&S]

\****arvensis*** Linnaeus var. ***uliginosus*** (Bieberstein) Trautvetter [Heil & O'Kane 2007]

*Sonchus uliginosus* Bieberstein

\****asper*** (Linnaeus) Hill [M&H; W&S]

*biennis* Moench = *Lactuca biennis* (Moench) Fernald

*ludovicianus* Nuttall = *Lactuca ludoviciana* (Nuttall) Riddell

\****oleraceus*** Linnaeus [M&H; W&S]

*pulchellus* Pursh = *Lactuca oblongifolia* Nuttall

*uliginosus* Bieberstein = *Sonchus arvensis* Linnaeus var. *uliginosus* (Bieberstein)

Trautvetter

***Stenotus*** goldenweed

Lane, M.A. & R.L. Hartman. 1996. Reclassification of North American *Haplopappus* (Compositae: Astereae) completed: *Rayjacksonia* gen. nov. Amer. J. Bot. 83(3):356-370.

***armerioides*** Nuttall [M&H; W&S]

*Haplopappus armerioides* (Nuttall) Gray

*pygmaeus* Torrey & Gray = *Tonestus pygmaeus* (Torrey & Gray) A. Nelson

***Stephanomeria*** wire-lettuce

Gottlieb, L.D. 1972. A proposal for the classification of the annual species of *Stephanomeria* (Compositae). *Madroño* 21:463-481.

Gottlieb, L.B. 2006. *Stephanomeria*, p. 350-359. IN: Flora of North America, vol. 19. Oxford University Press, New York.

***exigua*** Nuttall subsp. ***exigua*** [M&H; W&S]

*Hemiptilium bigelovii* Gray

*Lygodesmia bigelovii* (Gray) Shinnars

*Ptiloria bigelovii* (Gray) Wootton & Standley

*Ptiloria exigua* (Nuttall) Greene

*tenuifolia* (Rafinesque) Hall = *Stephanomeria tenuifolia* (Rafinesque) Hall

*neomexicana* (Greene) Cory = *Stephanomeria tenuifolia* (Rafinesque) Hall

***pauciflora*** (Torrey) A. Nelson [M&H; W&S]

*Prenanthes pauciflora* Torrey

*Ptiloria pauciflora* (Torrey) Rafinesque

*ramosa* (Rydberg) Kittell = *Stephanomeria tenuifolia* (Rafinesque) Hall

*runcinata* Nuttall : Reported by the map in Gottlieb (2006), but the map is an erroneous duplicate of that for *Stephanomeria pauciflora*.

***tenuifolia*** (Rafinesque) Hall [M&H; W&S]

*Lygodesmia minor* Hooker [1833]

*Lygodesmia wrightii* (Gray) Shinnars

*Prenanthes tenuifolia* Torrey [not *Prenanthes tenuifolia* Linnaeus]

*Ptiloria neomexicana* Greene

*Ptiloria ramosa* Rydberg

*Ptiloria tenuifolia* Rafinesque [1832]

*Stephanomeria minor* (Hooker) Nuttall

*Stephanomeria neomexicana* (Greene) Cory

*Stephanomeria ramosa* (Rydberg) Kittell

*Stephanomeria wrightii* Gray

**thurberi** Gray [M&H; W&S]*Lygodesmia thurberi* (Gray) Shoiners*Ptiloria thurberi* (Gray) Greene*wrightii* Gray = *Stephanomeria tenuifolia* (Rafinesque) Hall**Stevia** candyleafNesom, G.L. 2006. *Stevia*, pp. 483-486. IN: Flora of North America, vol. 21. Oxford University Press, New York. [*Stevia salicifolia*]Nesom, G.L. & B.L. Turner. 2006. New distribution records for Eupatorieae (Asteraceae) in the United States. *Sida* 22(2):1249-1253.Robinson, B.L. 1930. The stevias of North America. *Contr. Gray herb.* 90:90-159.**micrantha** Lagasca [M&H; W&S]**plummerae** Gray [M&H; W&S]*salicifolia* Cavanilles [Nesom 2006; Nesom & Turner 2006]**serrata** Cavanilles [M&H; W&S]*sphacelata* Nuttall ex Torrey = *Palafoxia sphacelata* (Nuttall ex Torrey) Cory**Stylocline** wooly-headsAlexander, P.J. 2020. iNaturalist observation of *Stylocline sonorensis* in New Mexico,[https://www.inaturalist.org/observations?place\\_id=9&taxon\\_id=79282](https://www.inaturalist.org/observations?place_id=9&taxon_id=79282), accessed 2 Apr 2020.**micropoides** Gray [M&H; W&S]*sonorensis* Wiggins [Alexander 2020]**Symphotrichum** asterAllred, K.W. 1999. New plant distribution records. *The New Mexico Botanist* 13:7. [*Symphotrichum porteri*]Bleakly, D. 1999. New plant distribution records. *The New Mexico Botanist* 11:8. [*Symphotrichum ciliatum*]Brouillet, L., J.C. Semple, G.A. Allen, K.L. Chambers, & S.D. Sundberg. 2006. *Symphotrichum*, p. 465-539. IN: Flora of North America, vol. 20. Oxford University Press.Heil, K.D., S.L. O'Kane, & A. Clifford. 2002. Additions to the flora of New Mexico from the San Juan Basin Flora project. *The New Mexico Botanist* 24:1-4. [*Symphotrichum campestre*, *Symphotrichum ciliatum*, *Symphotrichum ericoides pansum*]Jones, R.L., C.T. Witsell, & G.L. Nesom. 2008. Distribution and taxonomy of *Symphotrichum sericeum* and *S. pratense* (Asteraceae: Astereae). *J. Bot. Res. Inst. Texas* 2(1):731-739.Nesom, G.L. 1994 [1995]. Review of the taxonomy of *Aster sensu lato* (Asteraceae: Astereae), emphasizing the New World species. *Phytologia* 77(3):141-297.Sundberg, S.D. 2004. New combinations in North American *Symphotrichum* subgenus *Astropolium* (Asteraceae: Astereae). *Sida* 21(2):903-910.**ascendens** (Lindley) Nesom [M&H; W&S]*Aster ascendens* Lindley*Aster chilensis* Nees subsp. *ascendens* (Lindley) Cronquist*Aster vallicola* Greene*bracteolatum* auctores non (Nuttall) Nesom p.p. = *Symphotrichum eatonii* (Gray) Nesom**campestre** (Nuttall) G.L. Nesom [Heil et al. 2002]*Aster campestris* Nuttall**ciliatum** (Ledebour) Nesom [Bleakly 1999; Heil et al. 2002]*Aster brachyactis* Blake*Erigeron ciliatus* Ledebour*divaricatum* (Nuttall) Nesom = *Symphotrichum subulatum* (Michaux) Nesom var. *ligulatum* (Shoiners) S.D. Sundberg**eatonii** (A. Gray) Nesom [M&H; W&S]*Aster foliaceus* Lindley ex A.P. de Candolle var. *eatonii* A. Gray*Aster lonchophyllus* Greene*Aster oregonus* auctores non (Nuttall) Torrey & Gray*Symphotrichum bracteolatum* auctores non (Nuttall) Nesom p.p.**ericoides** (Linnaeus) Nesom var. **ericoides** [M&H; W&S]*Aster ericoides* Linnaeus*Aster hebecladus* A.P. de Candolle*Aster multiflorus* Aiton**ericoides** (Linnaeus) Nesom var. **pansum** (Blake) Nesom [Heil et al. 2002]*Aster multiflorus* Aiton var. *pansus* Blake*expansum* (Poeppig ex Sprengel) Nesom = *Symphotrichum subulatum* (Michaux) G.L. Nesom var. *parviflorum* (Nees) S.D. Sundberg

- falcatum** (Lindley) Nesom var. **commutatum** (Torrey & Gray) Nesom [M&H; W&S]  
*Aster commutatus* (Torrey & Gray) Gray var. *commutatus*  
*Aster commutatus* (Torrey & Gray) Gray var. *polycephalus* Blake, non *Aster polycephalus* Rydberg  
*Aster commutatus* (Torrey & Gray) Gray var. *crassulus* (Rydberg) Blake  
*Aster crassulus* Rydberg  
*Aster falcatus* Lindley var. *crassulus* (Rydberg) Cronquist  
*Aster multiflorus* Aiton var. *commutatus* Torrey & Gray  
*Symphytotrichum falcatum* (Lindley) Nesom var. *crassulum* (Rydberg) Nesom
- falcatum** (Lindley) Nesom var. **crassulum** (Rydberg) Nesom = *Symphytotrichum falcatum* (Lindley) Neson var. *commutatum* (Torrey & Gray) Nesom
- falcatum** (Lindley) Nesom var. **falcatum** [M&H]  
*Aster falcatus* Lindley
- fendleri** (A. Gray) Nesom [M&H; W&S]  
*Aster fendleri* Gray  
*Aster jemensis* A. Nelson
- foliaceum** (Lindley ex A.P. de Candolle) Nesom var. **apricum** (A. Gray) Nesom [M&H; W&S]  
*Aster apricus* (Gray) Rydberg  
*Aster foliaceus* Lindley ex A.P. de Candolle var. *apricus* Gray
- foliaceum** (Lindley ex A.P. de Candolle) Nesom var. **canbyi** (A. Gray) Nesom [M&H; W&S]  
*Aster canbyi* (A. Gray) Vasey  
*Aster foliaceus* Lindley ex A.P. de Candolle var. *burkei* A. Gray  
*Aster foliaceus* Lindley ex A.P. de Candolle var. *canbyi* A. Gray
- foliaceum** (Lindley ex A.P. de Candolle) Nesom var. **parryi** (D.C. Eaton) Nesom [M&H]  
*Aster ascendens* Lindley var. *parryi* D.C. Eaton  
*Aster foliaceus* Lindley ex A.P. de Candolle var. *frondeus* A. Gray  
*Aster foliaceus* Lindley ex A.P. de Candolle var. *parryi* (D.C. Eaton) A. Gray  
*Aster frondeus* (A. Gray) Greene
- frondosum** (Nuttall) Nesom [M&H; W&S]  
*Aster frondosus* (Nuttall) Torrey & Gray  
*Aster woodhousei* Wooton  
*Brachyactis frondosus* (Nuttall) Gray  
*Brachyactis woodhousei* (Wooton) Wooton & Standley  
*Tripolium frondosum* Nuttall
- laevis** (Linnaeus) Löve & Löve var. **geyeri** (A. Gray) Nesom [M&H; W&S]  
*Aster laevis* Linnaeus var. *geyeri* Gray  
*Aster laevis* Linnaeus var. *guadalupensis* A.G. Jones
- lanceolatum** (Willdenow) Nesom var. **hesperium** (A. Gray) Nesom [M&H; W&S]  
*Aster caeruleus* A.P. de Candolle var. *wootonii* (Greene) Wiegand  
*Aster hesperius* Gray var. *hesperius*  
*Aster hesperius* Gray var. *laetivirens* (Greene) Cronquist  
*Aster hesperius* Gray var. *wootonii* Greene  
*Aster laetivirens* Greene  
*Aster wootonii* Greene
- novae-angliae** (Linnaeus) Nesom [M&H; W&S]  
 New England aster  
*Aster novae-angliae* Linnaeus
- oblongifolium** (Nuttall) Nesom [M&H; W&S]  
*Aster kumleini* Fries  
*Aster oblongifolius* Nuttall  
*Aster oblongifolius* Nuttall var. *rigidulus* Gray
- porteri** (A. Gray) Nesom [Allred 1999]  
*Aster porteri* A. Gray
- praealtum** (Poiret) Nesom [M&H; W&S] Note: This species is excluded from NM by Brouillet et al. (2006); warrants verification.



- Aster praealtus* Poiret  
*Aster salicifolius* Aiton  
sericeum (Ventenat) Nesom : Reported without documentation by Tidestrom & Kittell (1941), but Jones et al. (2008) demonstrate that it does not occur in NM.  
*Aster sericeus* Ventenat
- spathulatum*** (Lindley) Nesom var. ***spathulatum*** [M&H]  
*Aster corymbiformis* Rydberg  
*Aster fremontii* (Torrey & Gray) Gray  
*Aster occidentalis* (Nuttall) Torrey & Gray  
*Aster spathulatus* Lindley
- subulatum*** (Michaux) Nesom var. ***ligulatum*** (Shinners) S.D. Sundberg [M&H; W&S]  
*Aster exilis* of NM authors  
*Aster neomexicanus* Wooton & Standley  
*Aster subulatus* Michaux var. *ligulatus* Shinners  
*Symphytotrichum divaricatum* (Nuttall) Nesom
- subulatum*** (Michaux) Nesom var. ***parviflorum*** (Nees) S.D. Sundberg [Brouillet et al. 2006]  
*Aster exilis* of NM authors  
*Aster subulatus* Michaux var. *cubensis* Shinners  
*Symphytotrichum expansum* (Poeppig ex Sprengel) Nesom  
*Tripolium subulatum* (Michaux) A.P. de Candolle var. *parviflorum* Nees
- subulatum (Michaux) Nesom s.s. : Not known to occur in NM; our material is referred to *Symphytotrichum subulatum* (Michaux) Nesom var. *ligulatum* (Shinners) S.D. Sundberg or to *Symphytotrichum subulatum* (Michaux) Nesom var. *parviflorum* (Nees) S.D. Sundberg [Brouillet et al. 2006].
- Tagetes**  
marigold  
***micrantha*** Cavanilles [M&H; W&S]  
*papposa* Ventenat = *Dyssodia papposa* (Ventenat) Hitchcock
- Tanacetum**  
tansy  
***vulgare*** Linnaeus [M&H; W&S]
- Taraxacum**  
dandelion  
Brouillet, L. 2006. *Taraxacum*, p. 239-252. IN: Flora of North America, vol. 19. Oxford University Press, New York.  
Peterson, R.S. 2000. New plant distribution records. The New Mexico Botanist 15:7. [*Taraxacum lyratum*]  
***ceratophorum*** (Ledebour) A.P. de Candolle [M&H; W&S]  
*Leontodon ceratophorus* Ledebour  
*Taraxacum dumetorum* Greene  
*Taraxacum montanum* Nuttall  
*Taraxacum officinale* G.H. Weber ex F.H. Wiggers subsp. *ceratophorum* (Ledebour) Schinz ex Thellung  
*dumetorum* Greene = *Taraxacum ceratophorum* (Ledebour) A.P. de Candolle  
***erythrospermum*** Andrzejowski ex Besser [M&H]  
*Taraxacum laevigatum* (Willdenow) A.P. de Candolle var. *erythrospermum* (Andrzejowski ex Besser) J. Weiss  
*Taraxacum officinale* F.H. Wiggers var. *erythrospermum* (Andrzejowski ex Besser) Babington  
laevigatum (Willdenow) A.P. de Candolle s.s. = a European name of uncertain application (Brouillet 2006)  
laevigatum (Willdenow) A.P. de Candolle var. *erythrospermum* = *Taraxacum erythrospermum* Andrzejowski ex Besser  
lyratum (Ledebour) A.P. de Candolle s.s. : Applied in the narrow sense to Asian plants (Brouillet 2006); our plants referred to *Taraxacum scopulorum* (A. Gray) Rydberg  
montanum Nuttall = *Taraxacum ceratophorum* (Ledebour) A.P. de Candolle  
mexicanum A.P. de Candolle = *Taraxacum officinale* Weber ex F.H. Wigg  
***officinale*** G.H. Weber ex F.H. Wiggers [M&H; W&S]  
*Taraxacum mexicanum* A.P. de Candolle  
*Taraxacum taraxacum* (Linnaeus) Karsten

- officinale* F.H. Wiggers var. *erythrospermum* (Andrzejowski ex Besser) Babington =  
*Taraxacum erythrospermum* Andrzejowski ex Besser  
*officinale* G.H. Weber ex F.H. Wiggers subsp. *ceratophorum* (Ledebour) Schinz ex  
 Thellung = *Taraxacum ceratophorum* (Ledebour) A.P. de Candolle  
*officinale* Linnaeus var. *scopulorum* A. Gray = *Taraxacum scopulorum* (A. Gray) Rydberg  
***scopulorum*** (A. Gray) Rydberg [M&H; Peterson 2000]  
*Taraxacum officinale* Linnaeus var. *scopulorum* A. Gray  
*taraxacum* (Linnaeus) Karsten = *Taraxacum officinale* Weber ex F.H. Wigg  
*Tessaria sericea* (Nuttall) Shinnars = *Pluchea sericea* (Nuttall) Cavanilles

***Tetradymia*** horsebrush

Strother, J.L. 1974. Taxonomy of *Tetradymia* (Compositae: Senecioneae). *Brittonia* 26:177-202.

***canescens*** A.P. de Candolle [M&H; Strother 1974; W&S]

*Tetradymia inermis* Nuttall

+***filifolia*** Greene [M&H; Strother 1979; W&S]

*inermis* Nuttall = *Tetradymia canescens* A.P. de Candolle

***spinosa*** Hooker & Arnott [M&H; Strother 1979]

***Tetraneris*** rubberweed

Biernier, M.W. 1994. Submersion of *Dugaldia* and *Plummera* in *Hymenoxys* (Asteraceae: Heliantheae: Gaillardiiinae). *Sida* 16(1):1-8.

Biernier, M.W. & R.K. Jansen. 1998. Systematic implications of DNA restriction site variation in *Hymenoxys* and *Tetraneris* (Asteraceae, Helenieae, Gaillardiiinae). *Lundellia* 21:17-26.

Biernier, M.W. and B.L. Turner. 2003. Taxonomy of *Tetraneris* (Asteraceae: Helenieae: Tetranerinae). *Lundellia* 6: 44-96.

Parker, K.F. 1981. New combinations in *Tetraneris* Greene (Heliantheae, Asteraceae). *Phytologia* 45:467.

Schiebout, M.H., D.L. Hazlett, & N. Snow. 2008. A floristic survey of vascular plants over parts of northeastern New Mexico. *J. Res. Inst. Texas* 2(2):1407-1447. [*Tetraneris torreyana*]

***acaulis*** (Pursh) Greene var. ***acaulis*** [M&H; W&S]

*Actinea acaulis* (Pursh) Sprengel

*Actinella acaulis* Pursh

*Actinella depressa* Torrey & Gray var. *pygmaea* Gray

*Hymenoxys acaulis* (Pursh) Parker

*Tetraneris pygmaea* (Torrey & Gray) Wootton & Standley

*Tetraneris trinervata* Greene

***acaulis*** (Pursh) Greene var. ***arizonica*** (Greene) Parker [M&H; W&S]

*Actinea acaulis* (Pursh) Sprengel subsp. *arizonica* (Greene) Blake

*Actinea arizonica* (Greene) A. Nelson

*Hymenoxys acaulis* (Pursh) Parker var. *arizonica* (Greene) Parker

*Hymenoxys acaulis* (Pursh) Parker var. *nana* Welsh

*Tetraneris arizonica* Greene

*Tetraneris crandallii* Rydberg

***acaulis*** (Pursh) Greene var. ***caespitosa*** A. Nelson [M&H]

*Hymenoxys acaulis* (Pursh) Parker var. *caespitosa* (A. Nelson) Parker

*Tetraneris crandallii* Rydberg

*Tetraneris lanata* (Nuttall) Greene

*Tetraneris lanigera* Daniels

***acaulis*** (Pursh) Greene var. ***nana*** (Welsh) Kartesz & Gandhi = *Hymenoxys acaulis* (Pursh)

Greene var. *arizonica* (Greene) Parker

***angustifolia*** Greene = *Tetraneris scaposa* (A.P. de Candolle) Greene var. *scaposa*

***argentea*** (Gray) Greene [M&H; W&S]

*Actinea formosa* (Greene ex Wootton & Standley) Nelson

*Actinella argentea* Gray

*Actinella leptoclada* Gray

*Hymenoxys argentea* (Gray) Parker

*Hymenoxys argentea* (Gray) Parker var. *thoreauensis* Atwood, Welsh, & Clifford

*Tetraneris formosa* Greene ex Wootton & Standley

*Tetraneris leptoclada* (Gray) Greene

***arizonica*** Greene = *Tetraneris acaulis* (Pursh) Greene var. *arizonica* (Greene) Parker

***brandegeei*** (Porter ex Gray) Parker = *Hymenoxys brandegeei* Porter ex Gray

***crandallii*** Rydberg = *Tetraneris acaulis* (Pursh) Greene var. *arizonica* (Greene) Parker

*depressa* (Torrey & Gray ex Gray) Greene = *Tetraneuris torreyana* (Nuttall) Greene  
*formosa* Greene ex Wootton & Standley = *Tetraneuris argentea* (Gray) Greene  
*glabriuscula* Greene = *Tetraneuris scaposa* (A.P. de Candolle) Greene var. *scaposa*  
***ivesiana*** Greene [M&H; W&S]

*Hymenoxys acaulis* (Pursh) Parker var. *ivesiana* (Greene) Parker

*Hymenoxys ivesiana* (Greene) Parker

*lanata* (Nuttall) Greene = *Tetraneuris acaulis* (Pursh) Greene var. *caespitosa* A. Nelson

*lanigera* Daniels = *Tetraneuris acaulis* (Pursh) Greene var. *caespitosa* A. Nelson

*leptoclada* (Gray) Greene = *Tetraneuris argentea* (Gray) Greene

***linearifolia*** (Hooker) Greene [M&H; W&S]

*Actinea linearifolia* (Hooker) Torrey & Gray var. *oblongifolia* (Greene) Kittell

*Actinella linearifolia* (Hooker) Torrey & Gray

*Hymenoxys linearifolia* Hooker

*Tetraneuris oblongifolia* Greene

*linearis* (Nuttall) Greene = *Tetraneuris scaposa* (A.P. de Candolle) Greene

*oblongifolia* Greene = *Tetraneuris linearifolia* (Hooker) Greene

*pygmaea* (Torrey & Gray) Wootton & Standley = *Tetraneuris acaulis* (Pursh) Greene var. *acaulis*

*scaposa* (A.P. de Candolle) Greene var. *linearis* (Nuttall) Parker = *Tetraneuris scaposa*  
 (A.P. de Candolle) Greene

***scaposa*** (A.P. de Candolle) Greene var. ***scaposa*** [M&H; W&S]

*Actinea scaposa* (A.P. de Candolle) Kuntze

*Actinella glabra* Nuttall

*Actinella scaposa* (A.P. de Candolle) Nuttall

*Actinella scaposa* (A.P. de Candolle) Nuttall var. *angustifolia* (Greene) Kittell

*Actinella scaposa* (A.P. de Candolle) Nuttall var. *linearis* Nuttall

*Cephalophora scaposa* A.P. de Candolle

*Hymenoxys scaposa* (A.P. de Candolle) Parker

*Hymenoxys scaposa* (A.P. de Candolle) Parker var. *glabra* (Nuttall) Parker

*Hymenoxys scaposa* (A.P. de Candolle) Parker var. *linearis* (Nuttall) Parker

*Hymenoxys scaposa* (A.P. de Candolle) Parker var. *villosa* Shinners

*Hymenoxys scaposa* (A.P. de Candolle) Parker var. *scaposa*

*Tetraneuris angustifolia* Greene

*Tetraneuris glabriuscula* Greene

*Tetraneuris linearis* (Nuttall) Greene

*Tetraneuris scaposa* (A.P. de Candolle) Greene var. *linearis* (Nuttall) Parker

*Tetraneuris scaposa* (A.P. de Candolle) Greene var. *villosa* (Shinners) Shinners

*Tetraneuris stenophylla* Rydberg

*scaposa* (A.P. de Candolle) Greene var. *villosa* (Shinners) Shinners = *Tetraneuris scaposa*  
 (A.P. de Candolle) Greene var. *scaposa*

*stenophylla* Rydberg = *Tetraneuris scaposa* (A.P. de Candolle) Greene

***torreyana*** (Nuttall) Greene [Schiebout et al. 2009; W&S]

*Actinella torreyana* Nuttall

*Hymenoxys torreyana* (Nuttall) K.F. Parker

*Tetraneuris depressa* (Torrey & Gray ex Gray) Greene

*trinervata* Greene = *Tetraneuris acaulis* (Pursh) Greene var. *acaulis*

### ***Thelesperma*** greenthread

Alexander, E.J. 1955. *Thelesperma*. N. Amer. Fl. II. 2:65-69.

Hansen, C.J., L. Allphin, M.D. Windham. 2002. Biosystematic analysis of the *Thelesperma subnudum* complex (Asteraceae). Sida 20(1):71-96.

Shinners, L.H. 1950. The Texas species of *Thelesperma* (Compositae). Field & Lab. 18:17-24.

Turner, B.L. 2010. Intraspecific categories in *Thelesperma filifolium* (Asteraceae: Coreoideae). Phytologia 92(1):27-30.

***ambiguum*** Gray [Alexander 1955]

***filifolium*** Gray var. ***intermedium*** (Rydberg) Shinners [M&H; W&S]

*Thelesperma formosum* Greene

*Thelesperma intermedium* Rydberg

*Thelesperma trifidum* (Poiret) Britton

*filifolium* Gray var. *intermedium* (Rydberg) Shinners = *Thelesperma filifolium* Gray var. *intermedium* (Rydberg) Shinners

*formosum* Greene = *Thelesperma filifolium* Gray var. *intermedium* (Rydberg) Shinnery  
*gracile* (Torrey) Gray = *Thelesperma megapotamicum* (Sprengel) Kuntze [M&H]  
*intermedium* Rydberg = *Thelesperma filifolium* Gray var. *intermedium* (Rydberg) Shinnery

***longipes*** Gray [M&H; W&S]

***megapotamicum*** (Sprengel) Kuntze [M&H; W&S]

*Bidens megapotamicum* Sprengel

*Thelesperma gracile* (Torrey) Gray

***simplicifolium*** Gray [M&H]

***subnudum*** Gray var. ***subnudum*** [M&H; W&S]

*trifidum* (Poiret) Britton = *Thelesperma filifolium* Gray var. *intermedium* (Rydberg) Shinnery

***Thymophylla*** dogweed

Strother, J.L. 1969. Systematics of *Dyssodia* Cavanilles (Compositae: Tageteae). Univ. Calif. Pub. Bot. 48:1-86.

Strother, J.L. 1986. Renovation of *Dyssodia* (Compositae: Tageteae). Sida 11:371-378.

Turner, B.L. 2009. Biological status of the varietal taxa of *Thymophylla pentachaeta* (Asteraceae: Tageteae). Phytologia 91(2):340-346.

Worthington, R.D. 2004. Plant distribution reports. The New Mexico Botanist 31:2. [*Thymophylla tenuiloba*]

***acerosa*** (A.P. de Candolle) Strother [M&H; W&S]

*Aciphyllaea acerosa* (A.P. de Candolle) Gray

*Dyssodia acerosa* A.P. de Candolle

***aurea*** (Gray) Greene ex Britton var. ***aurea*** [M&H; W&S]

*Dyssodia aurea* (Gray) A. Nelson

*Hymenatherum aureum* Gray

*Lowellia aurea* Gray

***aurea*** (Gray) Greene ex Britton var. ***polychaeta*** (Gray) Strother [M&H; W&S]

*Dyssodia polychaeta* (Gray) Robinson

*Hymenatherum polychaetum* Gray

*Thymophylla polychaeta* (Gray) Small

*greggii* Gray = *Thymophylla setifolia* Lagasca var. *greggii* (Gray) Strother

*hartwegii* (Gray) Wootton & Standley = *Thymophylla pentachaeta* (A.P. de Candolle) Small var. *hartwegii* (Gray) Strother

*neomexicana* (Gray) Wootton & Standley = *Adenophyllum wrightii* Gray

***pentachaeta*** (A.P. de Candolle) Small var. ***belenidium*** (A.P. de Candolle)

Strother [M&H; W&S]

*Dyssodia thurberi* (Gray) Robinson

*Hymenatherum belenidium* A.P. de Candolle

*Hymenatherum thurberi* Gray

*Thymophylla gracilis* Rydberg

*Thymophylla thurberi* (Gray) Wootton & Standley

***pentachaeta*** (A.P. de Candolle) Small var. ***hartwegii*** (Gray) Strother [M&H; W&S]

*Dyssodia hartwegii* (Gray) Robinson

*Hymenatherum hartwegii* Gray

*Thymophylla hartwegii* (Gray) Wootton & Standley

*pentachaeta* (A.P. de Candolle) Small var. *pentachaeta* : Reported by M&H & W&S, but this variety occurs in central Texas south into Mexico; our material thought to be this most likely belongs to var. *belenidium* (A.P. de Candolle) Strother [Strother 1969].

*Dyssodia pentachaeta* (A.P. de Candolle) Robinson

*Hymenatherum pentachaetum* A.P. de Candolle

*polychaeta* (Gray) Small = *Thymophylla aurea* (Gray) Greene in Britton & Brown var. *polychaeta* (Gray) Strother

***setifolia*** Lagasca var. ***greggii*** (Gray) Strother [M&H; Strother 2006]

*Dyssodia setifolia* (Lagasca) Robinson var. *greggii* (Gray) Shinnery

*Thymophylla greggii* Gray

*Thymophylla setifolia* Lagasca var. *radiata* (Gray) Strother, nom. illeg.

*setifolia* Lagasca var. *radiata* (Gray) Strother = *Thymophylla setifolia* Lagasca var. *greggii* (Gray) Strother

***tenuiloba*** (A.P. de Candolle) Small var. ***tenuiloba*** [Worthington 2004]

- Dyssodia tenuiloba* (A.P. de Candolle) B.L. Robinson  
*Hymenatherum tenuilobum* A.P. de Candolle  
*thurberi* (Gray) Wootton & Standley = *Thymophylla pentachaeta* (A.P. de Candolle) Small  
 var. *belenidium* (A.P. de Candolle) Strother
- Tonestus** serpent-weed  
 Lane, M.A. & R.L. Hartman. 1996. Reclassification of North American *Haplopappus* (Compositae: Astereae) completed: *Rayjacksonia* gen. nov. Amer. J. Bot. 83(3):356-370.  
 Nesom, G.L. and D.R. Morgan. 1990. Reinstatement of *Tonestus* (Asteraceae: Astereae). Phytologia 68:174-180.  
*microcephalus* (Cronquist) Nesom & Morgan = *Lorandersonia microcephala* (Cronquist) Urbatsch, Roberts & Neubig
- pygmaeus** (Torrey & Gray) A. Nelson [M&H; W&S]  
*Haplopappus pygmaeus* (Torrey & Gray) Gray  
*Stenotus pygmaeus* Torrey & Gray
- Torximom cuspidatum* Pursh = *Nothocalais cuspidata* (Pursh) Greene
- Townsendia** townsendia  
 Beaman, J.H. 1957. The systematics and evolution of *Townsendia* (Compositae). Contr. Gray Herb. 183.  
 Lowrey, T.K. and P.J. Knight. 1994. *Townsendia gypsophila* (Compositae: Astereae): a new species from northern New Mexico. Brittonia 46:194-199.  
 Strother, J.L. 2006. *Townsendia*, p. 193-203. IN: Flora of North America, vol. 20. Oxford University Press, New York.
- annua** Beaman [M&H]  
*arizonica* Gray = *Townsendia incana* Nuttall
- eximia** Gray [M&H; W&S]  
 Rocky Mountain Townsend-daisy
- excscapa** (Richardson) Porter [M&H; W&S]  
*Aster excscapus* Richardson  
*Townsendia sericea* Hooker
- fendleri** Gray [M&H; W&S]
- formosa** Greene [M&H; W&S]  
*glabella* Gray : Not occurring in NM; previous reports were based on a misidentification of *Townsendia grandiflora* Nuttall [Tim Lowrey, pers. comm. 1995].
- grandiflora** Nuttall [M&H; W&S]  
 +**gypsophila** Lowrey & Knight [Lowrey & Knight 1994]  
 gyp Townsend-daisy
- incana** Nuttall [M&H; W&S]  
*Townsendia arizonica* Gray
- leptotes** (Gray) Osterhout [M&H]  
 common Townsend-daisy  
*Townsendia sericea* Hooker var. *leptotes* Gray  
*rothrockii* Gray ex Rothrock : Reported by Kartesz (1999) without documentation; awaits verification.  
*sericea* Hooker = *Townsendia excscapa* (Richardson) Porter  
*sericea* Hooker var. *leptotes* Gray = *Townsendia leptotes* (Gray) Osterhout  
*strigosa* Nuttall : Reported by Strother (2006), but no specimens known from NM; awaits verification.
- Tragopogon** salsify  
 Ownbey, M. 1950. Natural hybridization and amphiploidy in the genus *Tragopogon*. Amer. J. Bot. 37:487-499.
- \***dubius** Scopoli [M&H]  
 \***porrifolius** Linnaeus [M&H; W&S]  
 \***pratensis** Linnaeus [M&H]
- Trichophyllum oppositifolium* Nuttall = *Picradeniopsis oppositifolia* (Nuttall) Rydberg
- Tripleurospermum** false mayweed  
 McGrath, J. 2010. Plant distribution reports (*Tripleurospermum inodorum*). The New Mexico Botanist 50:5  
**inodorum** (Linnaeus) Schultz-Bipontinus [McGrath 2010]  
*Matricaria inodora* Linnaeus
- Tripolium frondosum* Nuttall = *Symphytotrichum frondosum* (Nuttall) Nesom

*subulatum* (Michaux) A.P. de Candolle var. *parviflorum* Nees = *Symphotrichum*  
*subulatum* (Michaux) Nesom var. *parviflorum* (Nees) S.D. Sundberg

**Trixis** threefold

Anderson, C. 1972. A monograph of the Mexican and Central American species of *Trixis* (Compositae).  
 Mem. N.Y. Bot. Gard. 22(3):1-68.

**californica** Kellogg [M&H; W&S]

*Troximon arizonicum* Greene = *Agoseris aurantiaca* (Hooker) Greene var. *purpurea* (Gray)  
 Cronquist

*glaucum* Pursh = *Agoseris glauca* (Pursh) Rafinesque var. *glauca*

*glaucum* Pursh var. *dasycephala* Torrey & Gray = *Agoseris glauca* (Pursh) Rafinesque var.  
*dasycephala* (Torrey & Gray) Jepson

*heterophyllum* (Nuttall) Greene = *Agoseris heterophylla* (Nuttall) Greene var. *heterophylla*

*parviflorum* Nuttall = *Agoseris parviflora* (Nuttall) D. Dietrich

**Uropappus** silverpuff

*linearifolius* Nuttall = *Uropappus lindleyi* (A.P. de Candolle) Nuttall

**lindleyi** (A.P. de Candolle) Nuttall [M&H; W&S]

*Calais lindleyi* A.P. de Candolle

*Microseris linearifolia* (Nuttall) Schultz-Bipontinus

*Microseris lindleyi* (A.P. de Candolle) Gray

*Uropappus linearifolius* Nuttall

*Uropappus pruinosus* Greene

*pruinusus* Greene = *Uropappus lindleyi* (A.P. de Candolle) Nuttall

*Varilla texana* Gray : Reported for NM from near El Paso by Vines (1960), but this seems  
 unlikely in view of its distribution in the Tamaulipan vegetation of south  
 Texas and adjacent Mexico and its exclusion from the Chihuahuan Desert  
 flora by Henrickson & Johnston (1997).

**Verbesina** crownbeard

Coleman, J.R. 1966. A taxonomic revision of section *Ximenesia* of the genus *Verbesina* (Compositae).  
 Amer. Midl. Naturalist 76:475-481.

Strother, J.L. 2006. *Verbesina*, pp. 106-111. IN: Flora of North America, vol. 21. Oxford University Press.

*alba* Linnaeus = *Eclipta prostrata* (Linnaeus) Linnaeus

**encelioides** (Cavanilles) Benth & Hooker f. ex Gray var. **encelioides** [M&H]  
 cowpen daisy

*Ximenesia encelioides* Cavanilles

**encelioides** (Cavanilles) Benth & Hooker f. ex Gray var. **exauriculata** B.L.  
 Robinson & J.L. Greenman [M&H; W&S]

cowpen daisy

*Ximenesia exauriculata* (B.L. Robinson & J.L. Greenman) Rydberg

**longifolia** (Gray) Gray [M&H; W&S]

*Actinomeris longifolia* Gray

**nana** (Gray) B.L. Robinson & J.L. Greenman [M&H; W&S]

*Woottonella nana* (Gray) Standley

*Ximenesia encelioides* Cavanilles var. *nana* Gray

**oreophila** Wootton & Standley [M&H; W&S]

*podocephala* Gray = *Lasianthaea podocephala* (Gray) Baker

*prostrata* Linnaeus = *Eclipta prostrata* (Linnaeus) Linnaeus

**rothrockii** B.L. Robinson & J.L. Greenman [M&H; W&S]

*Verbesina wrightii* Gray, not Grisebach

*wrightii* Gray = *Verbesina rothrockii* Robinson

**Vernonia** ironweed

Carson National Forest, USDA Forest Service. 2000. New plant distribution records 15:7. [*Vernonia*  
*noveborascensis*]

Jones, S.B. 1972. A systematic study of the Fasciculatae group of *Vernonia* (Comositae). *Brittonia* 24:28-  
 45.

*altissima* Nuttall var. *marginata* Torrey = *Vernonia marginata* (Torrey) Rafinesque  
*baldwinii* Torrey subsp. *interior* (Small) Faust : Reported by Kartesz (1999) without  
 documentation; awaits verification.

*jamesii* Torrey & Gray = *Vernonia marginata* (Torrey) Rafinesque

**marginata** (Torrey) Rafinesque [M&H; W&S]

*Vernonia altissima* Nuttall var. *marginata* Torrey

*Vernonia jamesii* Torrey & Gray

**missurica** Rafinesque [M&H; W&S]

novoborensensis (Linnaeus) Michaux : Reported in a listing by the Carson National Forest (2000), but this seems unlikely in view of this species's distribution east of the Mississippi; perhaps a recent exotic; needs verification.

**Viguiera** goldeneeye

Blake, S.F. 1918. A revision of the genus *Viguiera*. Contr. Gray Herb. 54:1-218.

Schilling, E.E. 2006. *Viguiera*, in pp. 172-174. IN: Flora of North America, vol. 21(3). Oxford University Press.

Schilling, E. E. & J. L. Panero. 2011. A revised classification of subtribe Helianthinae (Asteraceae: Heliantheae); II. Derived lineages. Botanical J. Linnean Society 167: 311-331.

*annua* (M.E. Jones) Blake = *Heliomeris longifolia* (B.L. Robinson & J.L. Greenman) Cockerell var. *annua* (M.E. Jones) W.F. Yates

*ciliata* (B.L. Robinson & J.L. Greenman) Blake = *Heliomeris hispida* (Gray) Cockerell

*cordifolia* Gray = *Aldama cordifolia* (A. Gray) E.E. Schilling & Panero

**dentata** (Cavanilles) Sprengel [M&H; W&S]

*Helianthus dentatus* Cavanilles

*Viguiera texana* Torrey & Gray

*longifolia* (B.L. Robinson & J.L. Greenman) Blake var. *longifolia* = *Heliomeris longifolia* (B.L. Robinson & J.L. Greenman) var. *longifolia*

*longifolia* (B.L. Robinson & J.L. Greenman) Blake var. *annua* (M.E. Jones) Welsh = *Heliomeris longifolia* (B.L. Robinson & J.L. Greenman) Cockerell var. *annua* (M.E. Jones) W.F. Yates

*multiflora* (Nuttall) Blake = *Heliomeris multiflora* Nuttall var. *multiflora*

*multiflora* (Nuttall) Blake var. *ovalis* Blake = *Heliomeris multiflora* Nuttall var. *brevifolia* (Greene ex Wooton & Standley) W.F. Yates

*ovalis* Blake = *Heliomeris multiflora* Nuttall var. *brevifolia* (Greene ex Wooton & Standley) W.F. Yates

*stenoloba* Blake = *Sidneya tenuifolia* (A. Gray) E.E. Schilling & Panero

*texana* Torrey & Gray = *Viguiera dentata* (Cavanilles) Sprengel

*triloba* (Gray) J. Olsen = *Zaluzania grayana* B.L. Robinson & J.L. Greenman

*Villanova biternata* (Gray) Wooton & Standley = *Hymenothrix biternata* (A. Gray) B.G. Baldwin

*chrysanthemoides* A. Gray = *Hymenothrix dissecta* (A. Gray) B.G. Baldwin

*dissecta* (Gray) Rydberg = *Hymenothrix dissecta* (A. Gray) B.G. Baldwin

*Wootonella nana* (Gray) Standley = *Verbesina nana* (Gray) Robinson

*Wootonia parviflora* (Gray) Greene = *Dicranocarpus parviflorus* Gray

**Wyethia** mule's-ears

Weber, W.A. 1946. A taxonomic and cytological study of the genus *Wyethia*, family Compositae, with notes on the related genus *Balsamorhiza*. Amer. Midl. Naturalist 35:400-452.

Weber, W.A. 2006. *Scabrethia*, pp. 99-100. IN: Flora of North America, vol. 21. Oxford University Press. [*Wyethia scabra attenuata*]

**arizonica** Gray [M&H; W&S; Weber 1946]

**scabra** Hooker var. **attenuata** W.A. Weber [Weber 2006]

*Scabrethia scabra* (Hooker) W.A. Weber subsp. *attenuata* (W.A. Weber) W.A. Weber

**scabra** Hooker var. **canescens** W.A. Weber [M&H; Weber 1946]

*Scabrethia scabra* (Hooker) W.A. Weber subsp. *canescens* (W.A. Weber) W.A. Weber

*Wyomingia cana* (Gray) A. Nelson = *Erigeron canus* Gray

*cinerea* A. Nelson = *Erigeron pulcherrimus* Heller var. *pulcherrimus*

*pulcherrima* (Heller) A. Nelson = *Erigeron pulcherrimus* Heller var. *pulcherrimus*

**Xanthisma** sleep-daisy

Hartman, R.L. 2006. *Xanthisma*, pp. 383-393. IN: Flora of North America, vol. 20. Oxford University Press, New York.

Hershey, A.L. & P.J. Leyendecker, Jr. 1944. Notes on plants of New Mexico—III. Leaflets of Western Botany 4(2):21-25. [*Xanthisma texanum*]

Morgan, D.R. & R.L. Hartman. 2003. A synopsis of *Machaeranthera* (Asteraceae: Astereae), with recognition of segregate genera. Sida 20(4):1387-1416.

Nesom, G.L. 2003. New combinations in *Xanthisma* (Asteraceae: Astereae). Sida 20(4):1585-1588.

Nesom, G.L. & B.L. Turner. 2007. Taxonomic review of the *Xanthisma spinulosum* complex (Asteraceae: Astereae). Phytologia 89(3):371-389.

Sample, J.C. 1974. The phytogeography and systematics of *Xanthisma texanum* A.P. de Candolle (Asteraceae): proper usage of infraspecific categories. *Rhodora* 76:1-19.

**blephariphyllum** (Gray) Morgan & Hartman [Hartman 2006; M&H]

*Aplopappus blephariphyllus* Gray

*Aster gymnocephalus* auctores non (A.P. de Candolle) Gray

*Haplopappus gymnocephalus* auctores non A.P. de Candolle

*Sideranthus serratus* (Greene) Standley

*Machaeranthera blephariphylla* (Gray) Shinnery

*Machaeranthera gymnocephala* auctores non (A.P. de Candolle) Shinnery

*glaberrimum* (Rydberg) Nesom & O'Kennon = *Xanthisma spinulosum* (Pursh) Morgan & Hartman var. *glaberrimum* (Rydberg) Morgan & Hartman

**gracile** (Nuttall) Morgan & Hartman [Hartman 2006; M&H]

*Dieteria gracilis* Nuttall

*Haplopappus gracilis* (Nuttall) Gray

*Machaeranthera gracilis* (Nuttall) Shinnery

*Sideranthus gracilis* (Nuttall) Nelson

**grindelioides** (Nuttall) Morgan & Hartman [Hartman 2006; M&H; W&S]

*Haplopappus nuttallii* Torrey & Gray

*Machaeranthera grindelioides* (Nuttall) Shinnery

*Sideranthus grindelioides* Nuttall

**gypsophilum** (B.L. Turner) Morgan & Hartman [Hartman 2006]

*Machaeranthera gypsophila* B.L. Turner

*paradoxum* (Turner & Hartman) Turner & Nesom = *Xanthisma spinulosum* (Pursh) Morgan & Hartman var. *paradoxa* (Turner & Hartman) Morgan & Hartman

**spinulosum** (Pursh) Morgan & Hartman var. **chihuahuanum** (Turner &

Hartman) Morgan & Hartman [Hartman 2006; Turner & Hartman 1976]

*Machaeranthera pinnatifida* (Hooker) Shinnery var. *chihuahuana* B.L. Turner & Hartman

**spinulosum** (Pursh) Morgan & Hartman var. **glaberrimum** (Rydberg) Morgan & Hartman [M&H; Turner & Hartman 1976; W&S]

*Haplopappus spinulosus* (Pursh) A.P. de Candolle subsp. *glaberrimus* (Rydberg) Hall

*Machaeranthera pinnatifida* (Hooker) Shinnery var. *glaberrima* (Rydberg) Turner & Hartman

*Sideranthus glaberrimus* Rydberg

*Xanthisma glaberrimum* (Rydberg) Nesom & O'Kennon

**spinulosum** (Pursh) Morgan & Hartman var. **paradoxum** (Turner & Hartman) Morgan & Hartman [Hartman 2006]

*Machaeranthera pinnatifida* (Hooker) Shinnery var. *paradoxa* B. L. Turner & R. L. Hartman

*Xanthisma paradoxum* (Turner & Hartman) Turner & Nesom

**spinulosum** (Pursh) Morgan & Hartman var. **spinulosum** [M&H; Turner & Hartman 1976; W&S]

*Amellus spinulosus* Pursh

*Eriocarpum wootonii* Greene

*Haplopappus spinulosus* (Pursh) A.P. de Candolle subsp. *australis* (Greene) Hall

*Haplopappus spinulosus* (Pursh) A.P. de Candolle subsp. *laevis* (Wooton & Standley) Hall

*Haplopappus spinulosus* (Pursh) A.P. de Candolle subsp. *scabrellus* (Greene) Hall

*Haplopappus spinulosus* (Pursh) A.P. de Candolle subsp. *spinulosus*

*Machaeranthera australis* (Greene) Shinnery

*Machaeranthera pinnatifida* (Hooker) Shinnery

*Sideranthus laevis* Wooton & Standley

*Sideranthus spinulosus* (Pursh) Sweet ex Rydberg

*Sideranthus wootonii* (Greene) Standley



- texanum** A.P. de Candolle subsp. **drummondii** (Torrey & Gray) Semple [Hershey & Leyendecker 1944; M&H] Note: not reported for NM by Hartman (2006); perhaps warrants investigation.  
*Centaureidium drummondii* Torrey & Gray
- viscidum** (Wooton & Standley) Morgan & Hartman [M&H; Hartman 1990; W&S]  
*Haplopappus havardii* Waterfall  
*Machaeranthera havardii* (Waterfall) Shinnery  
*Machaeranthera viscida* (Wooton & Standley) Hartman  
*Sideranthus viscidus* Wooton & Standley
- glaberrimum** (Rydberg) Nesom & O'Kennon = *Xanthisma spinulosum* (Pursh) Morgan & Hartman var. *glaberrimum* (Rydberg) Morgan & Hartman
- Xanthium**  
 cocklebur  
 Cronquist, A. 1994. *Xanthium*, pp. 64-65. IN: Intermountain Flora, vol. 5. New York Botanical Garden.
- campestre* Greene = *Xanthium strumarium* Linnaeus var. *canadense* (Miller) Torrey  
*canadense* Miller = *Xanthium strumarium* Linnaeus var. *canadense* (Miller) Torrey  
*chinense* Miller = *Xanthium strumarium* Linnaeus var. *glabratum* (A.P. de Candolle) Cronquist
- commune* Britton = *Xanthium strumarium* Linnaeus var. *canadense* (Miller) Torrey  
*commune* Britton var. *wootonii* Cockerell = *Xanthium strumarium* Linnaeus var. *glabratum* (A.P. de Candolle) Cronquist
- italicum* Moretti = *Xanthium strumarium* Linnaeus var. *canadense* (Miller) Torrey  
*macrocarpum* A.P. de Candolle var. *glabratum* A.P. de Candolle = *Xanthium strumarium* Linnaeus var. *glabratum* (A.P. de Candolle) Cronquist
- pennsylvanicum* Walther = *Xanthium strumarium* Linnaeus var. *glabratum* (A.P. de Candolle) Cronquist
- saccharatum* Walther = *Xanthium strumarium* Linnaeus var. *canadense* (Miller) Torrey
- \*spinosum** Linnaeus [M&H; W&S]  
 spiny cocklebur  
*Acanthoxanthium spinosum* (Linnaeus) Fourreau
- strumarium** Linnaeus var. **canadense** (Miller) Torrey [M&H; W&S]  
*Xanthium campestre* Greene  
*Xanthium canadense* Miller  
*Xanthium commune* Britton  
*Xanthium italicum* Moretti  
*Xanthium saccharatum* Walther
- strumarium** Linnaeus var. **glabratum** (A.P. de Candolle) Cronquist [M&H; W&S]  
*Xanthium chinense* Miller  
*Xanthium commune* Britton var. *wootonii* Cockerell  
*Xanthium macrocarpum* A.P. de Candolle var. *glabratum* A.P. de Candolle  
*Xanthium pennsylvanicum* Walther  
*Xanthium strumarium* Linnaeus var. *wootonii* (Cockerell) M.E. Peck  
*Xanthium strumarium* Linnaeus var. *wootonii* (Cockerell) Martin & Hutchins ined. [not validly published by Martin & Hutchins]  
*Xanthium wootonii* (Cockerell) Cockerell
- strumarium* Linnaeus var. *wootonii* (Cockerell) Martin & Hutchins ined. [This combination not validly published by M&H; ICBN, Article 33] = *Xanthium strumarium* Linnaeus var. *glabratum* (A.P. de Candolle) Cronquist
- strumarium* Linnaeus var. *wootonii* (Cockerell) M.E. Peck = *Xanthium strumarium* Linnaeus var. *glabratum* (A.P. de Candolle) Cronquist
- wootonii* (Cockerell) Cockerell
- Xanthocephalum dracunculoides* (A.P. de Candolle) Shinnery = *Amphiachyris dracunculoides* (A.P. de Candolle) Nuttall
- microcephalum* (A.P. de Candolle) Shinnery = *Gutierrezia microcephala* (A.P. de Candolle) Gray
- sarothrae* (Pursh) Shinnery = *Gutierrezia sarothra* (Pursh) Britton & Rusby
- sphaerocephalum* (Gray) Shinnery = *Gutierrezia sphaerocephala* Gray
- wrightii* (A. Gray) A. Gray = *Gutierrezia wrightii* A. Gray
- Ximenesia encelioides* Cavanilles = *Verbesina encelioides* (Cavanilles) Bentham & Hooker var. *encelioides*

*exauriculata* (B.L. Robinson & J.L. Greenman) Rydberg = *Verbesina encelioides* (Cavanilles) Benth & Hooker var. *exauriculata* B.L. Robinson & J.L. Greenman

*encelioides* Cavanilles var. *nana* Gray = *Verbesina nana* (Gray) Robinson

*Xylorhiza tortifolia* (Torrey & Gray) Greene : Reported for NM by Tidestrom & Kittell (1941), but restricted to more western localities by all subsequent authors (i.e., Hickman 1993; Kearney & Peebles 1969; Nesom 2002; Welsh et al. 1993); awaits verification.

**Zaluzania** zaluzania

Strother, J.L. 2006. *Zaluzania*, p. 63. IN: Flora of North America, vol. 21. Oxford University Press, New York.

**grayana** B.L. Robinson & J.L. Greenman [M&H; Strother 2006; W&S]

*Viguiera triloba* (Gray) J. Olsen

*Zexmenia brevifolia* Gray = *Jefea brevifolia* (Gray) Strother

*podocephala* (Gray) Gray = *Lasiantha podocephala* (Gray) Baker

**Zinnia** zinnia

Torres, A.M. 1963. Taxonomy of *Zinnia*. *Brittonia* 15:1-25.

Turner, B.L. 2012. Taxonomy and distribution of the *Zinnia acerosa* (Asteraceae) complex. *Phytoneuron* 2012-19:1-8.

**acerosa** (A.P. de Candolle) Gray [M&H; W&S]

*Crassina pumila* (Gray) Kuntze

*Diplothrix acerosa* A.P. de Candolle

*Zinnia pumila* Gray

**grandiflora** Nuttall [M&H; W&S]

*Crassina grandiflora* (Nuttall) Kuntze

*pumila* Gray = *Zinnia acerosa* (A.P. de Candolle) Gray

**Family BERBERIDACEAE** [1/7/7]

*Alloberberis*

Kim, Y.-D., S.-H. Kim, & L.R. Landrum. 2004. Taxonomic and phylogeographic implications from ITS phylogeny in *Berberis* (Berberidaceae). *J. Plant Res.* 117: 175-182.

*fremontii* (Torrey) C.C. Yu & K.F. Chung = *Berberis fremontii* Torrey

*haematocarpa* (Wooton) C.C. Yu & K.F. Chung = *Berberis haematocarp* Wooton

*trifoliolata* (Moricond) C.C. Yu & K.F. Chung = *Berberis trifoliolata* Moricond

**Berberis** barberry

Ahrendt, L.W.A. 1961. *Berberis* and *Mahonia*: A taxonomic revision. *Botanical Journal of the Linnean Society* 57: 1-410.

Adhikari, B., R. Milne, R.T. Pennington, T. Särkinen, & C.A. Pendry. 2015. Systematics and biogeography of *Berberis* s.l. inferred from nuclear ITS and chloroplast *ndhF* gene sequences. *Taxon* 64(1): 39-48.

Bodner, G., J.A. Montoya, R. Hanson, & W. Anderson (eds.). 2005. Natural heritage of the Peloncillo Mountains region. Sky Island Alliance, Tucson, AZ.

Cox, G.W. 2001. New plant distribution records. *The New Mexico Botanist* 20:8. [*Berberis vulgaris*]

Hall, H.H. & S. Flowers. 1961. Vascular plants found in the Navajo Reservoir Basin, pp. 47-87. IN: D.M. Pendergast (ed.). Ecological studies of the flora and fauna of Navajo Reservoir Basin, Colorado and New Mexico. Univ. Utah Anthropological Papers, number 55. [*Berberis vulgaris*]

Kim, Y.-D., S.-H. Kim, & L.R. Landrum. 2004. Taxonomic and phylogeographic implications from ITS phylogeny in *Berberis* (Berberidaceae). *J. Plant Res.* 117: 175-182.

Whittemore, A.T. 1997. *Berberis*, pp. 276-286. IN: Flora of North America, vol. 3. Oxford University Press.

**aquifolium** Pursh [FNM I]

*Mahonia aquifolium* (Pursh) Nuttall

*aquifolium* Pursh var. *repens* (Lindley) Scoggan = *Berberis repens* Lindley

**fendleri** Gray [Whittemore 1997; M&H; W&S]

*Mahonia fendleri* (Gray) Wooton & Standley

*fremontii* Torrey : Reported by Whittemore (1997), M&H & W&S, but authentic fruiting specimens are unknown; awaits verification.

*Alloberberis fremontii* (Torrey) C.C. Yu & K.F. Chung

*Mahonia fremontii* (Torrey) Fedde

*Odostemon fremontii* (Torrey) Rydberg

**haematocarpa** Wooton [Whittemore 1997; M&H; W&S]

*algerita*

*Alloberberis haematocarpa* (Wooton) C.C. Yu & K.F. Chung

- Mahonia haematocarpa* (Wooton) Fedde  
*Odostemon haematocarpus* (Wooton) Heller  
*nana* Greene = *Berberis repens* Lindley  
***repens*** Lindley [Whittemore 1997; M&H; W&S]  
 Oregon-grape  
*Berberis aquifolium* Pursh var. *repens* (Lindley) Scoggan  
*Berberis nana* Greene  
*Mahonia repens* (Lindley) G. Don  
*Odostemon repens* (Lindley) Cockerell  
***trifoliolata*** Moricand [Whittemore 1997; M&H; W&S]  
 algerita  
*Alloberberis trifoliolata* (Moricand) C.C. Yu & K.F. Chung  
*Mahonia trifoliolata* (Moricand) Fedde  
*Odostemon trifoliolatus* (Moricand) Heller  
**\**vulgaris*** Linnaeus [Cox 2001; Hall & Flowers 1961]  
***wilcoxii*** Kearney [Bodner et al. 2005; M&H; Moir 2002; W&S; Whittemore 1997]  
*Odostemon wilcoxii* (Kearney) Heller  
*Mahonia aquifolium* (Pursh) Nuttall = *Berberis aquifolium* Pursh  
*fendleri* (Gray) Wooton & Standley = *Berberis fendleri* Gray  
*fremontii* (Torrey) Fedde = *Berberis fremontii* Torrey  
*haematocarpa* (Wooton) Fedde = *Berberis haematocarpa* Wooton  
*repens* (Lindley) G. Don = *Berberis repens* Lindley  
*trifoliolata* (Moricand) Fedde = *Berberis trifoliolata* Moricand  
*Odostemon fremontii* (Torrey) Rydberg = *Berberis fremontii* Torrey  
*haematocarpus* (Wooton) Heller = *Berberis haematocarpa* Wooton  
*repens* (Lindley) Cockerell = *Berberis repens* Lindley  
*trifoliolatus* (Moricand) Heller = *Berberis trifoliolata* Moricand  
*wilcoxii* (Kearney) Heller = *Berberis wilcoxii* Kearney

**Family BETULACEAE** [3/5/6]

- Furlow, J.J. 1997. Betulaceae, pp. 507-538. IN: Flora of North America, vol. 3. Oxford Univrsity Press.
- Alnus*** alder  
 Furlow, J.J. 1979. The systematics of the American species of *Alnus* (Betulaceae). *Rhodora* 81:151-248.  
*acuminata* of NM reports = *Alnus oblongifolia* Torrey  
***incana*** (Linnaeus) Moench subsp. ***tenuifolia*** (Nuttall) Breitung [Furlow 1997; M&H; W&S]  
*Alnus tenuifolia* Nuttall  
***oblongifolia*** Torrey [Whittemore 1997; M&H; W&S]  
*Alnus acuminata* of NM reports  
*tenuifolia* Nuttall = *Alnus incana* (Linnaeus) Moench subsp. *tenuifolia* (Nuttall) Breitung
- Betula*** birch  
 Hartman, R.L., B. Reif, B.E. Nelson, & B. Jacobs. 2006. New vascular plant records for New Mexico. *Sida* 22(2):1225-1233. [*Betula glandulosa*]  
*fontinalis* Sargent = *Betula occidentalis* Hooker  
***glandulosa*** Michaux [Harman et al. 2006]  
***occidentalis*** Hooker [M&H; W&S]  
*Betula fontinalis* Sargent
- Ostrya*** hop-hornbeam  
*baileyi* Rose = *Ostrya knowltonii* Coville  
***knowltonii*** Coville [M&H; W&S]  
*Ostrya baileyi* Rose

**Family BIGNONIACEAE** [5/5/6]

- Olmstead, R.G, M.L. Zjhra, L.G. Lohmann, S.O. Grose, & A.J. Eckert. 2009. A molecular phylogeny and classification of Bignoniaceae. *Amer. J. Bot.* 96(9): 1731-1743.  
*Bignonia stans* Linnaeus = *Tecoma stans* (Linnaeus) Jussieu ex Kunth

**Campsis** trumpet-vine

Heil, K.D., S.L. O'Kane, L.M. Reeves, & A. Clifford. 2013. Flora of the Four Corners Region. Monographs in Systematic Botany from the Missouri Botanical Garden, Vol. 124. Missouri Bot. Gard. Press, St. Louis. 1098 pp. [*Campsis radicans*]

**radicans** (Linnaeus) Seemann [Heil et al. 2013]

**Catalpa** catalpa

Heil, K.D., S.L. O'Kane, & A. Clifford. 2002. Additions to the flora of New Mexico from the San Juan Basin Flora project. The New Mexico Botanist 24:1-4.

Olsen, R.T. & J.H. Kirkbride, Jr. 2017. Taxonomic revision of the genus *Catalpa* (Bignoniaceae). Brittonia 69(3): 387-421.

*bignonioides* Walter var. *speciosa* Warder = *Catalpa speciosa* (Warder) Warder ex Engelman

\***speciosa** (Warder) Warder ex Engelman [Heil et al. 2002]

*Catalpa bignonioides* Walter var. *speciosa* Warder

**Chilopsis** desert-willow

Henrickson, J. 1985. A taxonomic revision of *Chilopsis* (Bignoniaceae). Aliso 11:179-197.

**linearis** (Cavanilles) Sweet var. **arcuata** Fosberg [Henrickson 1985]

*Chilopsis linearis* (Cavanilles) Sweet subsp. *arcuata* (Fosberg) Henrickson

**linearis** (Cavanilles) Sweet var. **linearis** [M&H; W&S]

desert-willow

*Chilopsis saligna* D. Don

*linearis* (Cavanilles) Sweet subsp. *arcuata* (Fosberg) Henrickson = *Chilopsis linearis* (Cavanilles) Sweet var. *arcuata* Fosberg

*saligna* D. Don = *Chilopsis linearis* (Cavanilles) Sweet var. *linearis*

**Chitalpa** chitalpa

\***tashkentensis** T.S. Elias & Wisura [FNM I]

*Stenolobium incisum* Rose & Standley = *Tecoma stans* (Linnaeus) Jussieu ex Kunth var. *angustata* Rehder

**Tecoma** trumpet-bush

Turner, B.L. 2013. Taxonomy of *Tecoma stans* (Bignoniaceae) in North America. Phytologia 95(3): 222-224.

*stans* (Linnaeus) Jussieu ex Kunth var. *stans* : Not known from New Mexico

*Bignonia stans* Linnaeus

**stans** (Linnaeus) Jussieu ex Kunth var. **angustata** Rehder [M&H; W&S]

*Stenolobium incisum* Rose & Standley

**Family BORAGINACEAE** [16/59/67]

Boraginales Working Group (BWG). 2016. Familial classification of the Boraginales. Taxon 65(3): 502-522.

Cronquist, A. 1984. Boraginaceae, pp. 207-293. IN: Intermountain Flora, vol. 4. New York Botanical Garden.

Hasenstab-Lehman, K.E. 2017. Phylogenetics of the borage family: delimiting Boraginales and assessing closest relatives. Aliso 35(1):41-49.

Higgins, L.C. 1979. Boraginaceae of the southwestern United States. Great Basin Naturalist 39(4):293-350.

Sivinski, R.C. 2013. Boraginaceae, pp 321-337. In: Flora of the Four Corners Region. Missouri Botanical Garden Press, St. Louis.

*Allocarya scopulorum* Greene = *Plagiobothrys scopulorum* (Greene) I.M. Johnston

*Amblynotopsis floribunda* (Torrey) J.F. Macbride = *Antiphytum floribundum* (Torrey) Gray

**Amsinckia** amsinckia

Sivinski, R.C. 2005. Plant distribution reports (*Amsinckia intermedia*, *Astragalus eremiticus*). The New Mexico Botanist 33:7.

**intermedia** Fischer & Meyer [Sivinski 2005]

*Amsinckia menziesii* (Lehmann) A. Nelson & J.F. Macbride var. *intermedia*

(Fischer & Meyer) ined. Note: This combination has not been published, and was never published by Ganders (who is usually given as the combining author).

*menziesii* (Lehmann) A. Nelson & J.F. Macbride var. *intermedia* (Fischer & Meyer) ined. = *Amsinckia intermedia* Fischer & Meyer

**tessellata** Gray [Higgins 1979; M&H]

**Antiphytum** saucer-flower

Sivinski, R.C., T. Lowrey and R. Peterson. 1994. Additions to the native and adventive flora of New Mexico. *Phytologia* 76(6):473-479. [*Antiphytum floribundum*]

**floribundum** (Torrey) Gray [Sivinski et al. 1994]

*Amblynotopsis floribunda* (Torrey) J.F. Macbride

*Eritrichium floribundum* Torrey

*Krynitzkia floribunda* Torrey

*Coldenia canescens* A.P. de Candolle = *Tiquilia canescens* (A.P. de Candolle) A. Richardson

*gossypina* (Wootton & Standley) I.M. Johnston = *Tiquilia gossypina* (Wootton & Standley) A. Richardson

*greggii* (Torrey) Gray = *Tiquilia greggii* (Torrey) A. Richardson

*hispidissima* (Torrey) Gray = *Tiquilia hispidissima* (Torrey) A. Richardson

**Cryptantha** cat's-eye

Hasenstab-Lehman, K.E. and M.G. Simpson. 2012. Cat's eyes and popcorn flowers: phylogenetic systematics of the genus *Cryptantha* s.l. (Boraginaceae). *Systematic Botany* 37(3):738-757.

Mabry, M.E. & M.G. Simpson. 2018. Evaluating the monophyly and biogeography of *Cryptantha* (Boraginaceae). *Syst. Bot.* 43(1): 53-76.

Simpson, M.G. & R.B. Kelley. 2017. *Cryptantha nevadensis* var. *rigida* elevated to species with a new name, *C. juniperensis*. *Phytotaxa* 295 (3): 227–236.

Sivinski, R.C. 1993. Noteworthy collections (New Mexico). *Madroño* 40:273-274. [*Cryptantha gracilis*, *Cryptantha recurvata*]

Sivinski, R.C. 1994. A review of *Cryptantha fulvocanescens* (Boraginaceae) with the re-evaluation of Greene's *Oreocarya nitida*. *Madroño* 41(4):243-253.

Sivinski, R.C. 1998. The genus *Cryptantha* (Boraginaceae) in New Mexico. *The New Mexico Botanist* 8:2-9.

Sivinski, R.C. 2006. Plant distribution reports. *The New Mexico Botanist* 35:3. [*Cryptantha nevadensis rigida*]

Sivinski, R.C. 2006. Plant distribution reports. *The New Mexico Botanist* 36:7. [*Cryptantha flavocolata*]

Spellenberg, R., M. Mahrt & R. Brozka. 1991. Noteworthy collections, New Mexico. *Madroño* 38:298-301. [*Cryptantha pterocarya pterocarya*]

**albida** (Kunth) I.M. Johnston [M&H; Sivinski 1998]

*Cryptantha ramosa* (Lehmann) Greene

*Myosotis albida* Kunth

*angustifolia* (Torrey) Greene = *Johnstonella angustifolia* (Torrey) Hasenstab & Simpson

*bakeri* (Greene) Payson = *Oreocarya bakeri* Greene

**barbigera** (Gray) Greene [Sivinski 1998]

*Eritrichium barbigera* Gray

*cinerea* (Greene) Cronquist var. *cinerea* = *Oreocarya suffruticosa* (Torrey) Greene var. *suffruticosa*

*cinerea* (Greene) Cronquist var. *jamesii* Cronquist = *Oreocarya suffruticosa* (Torrey) Greene var. *suffruticosa*

*cinerea* (Greene) Cronquist var. *laxa* (Macbride) Higgins = *Oreocarya suffruticosa* (Torrey) Greene var. *suffruticosa*

*cinerea* (Greene) Cronquist var. *pustulosa* (Rydberg) Higgins = *Oreocarya suffruticosa* (Torrey) Greene var. *pustulosa* (Rydberg) R.B. Kelley

*coryi* I.M. Johnston = *Cryptantha palmeri* (Gray) Payson

**crassisepala** (Torrey & Gray) Greene var. **crassisepala** [M&H; Sivinski 1998]

*Eritrichium crassisepalum* Torrey & Gray

*Krynitzkia crassisepala* (Torrey & Gray) Gray

**crassisepala** (Torrey & Gray) Greene var. **elachantha** I.M. Johnston [M&H; Sivinski 1998]

*cycloptera* Greene = *Cryptantha pterocarya* (Torrey) Greene var. *cycloptera* (Greene) Macbride

**fendleri** (Gray) Greene [M&H; Sivinski 1998]

*Cryptantha pattersonii* (A. Gray) Greene

*Krynitzkia fendleri* Gray

*flava* (A. Nelson) Payson = *Oreocarya flava* A. Nelson

**flavocolata** (A. Nelson) Payson [Sivinski 2006]

*fulvocanescens* (S. Watson) Payson var. *echinoides* (Jones) Higgins = *Cryptantha fulvocanescens* (S. Watson) Payson var. *fulvocanescens*

**fulvocanescens** (S. Watson) Payson var. **fulvocanescens** [M&H; Sivinski 1998; W&S]

*Cryptantha fulvocanescens* (S. Watson) Payson var. *echinoides* (Jones) Higgins

- Oreocarya fulvocanescens* (S. Watson) Greene  
***fulvocanescens*** (S. Watson) Payson var. ***nitida*** (Greene) Sivinski [Sivinski 1994; Sivinski 1998]  
***gracilis*** Osterhout [Sivinski 1993; Sivinski 1998]  
 slender cat's-eye  
*jamesii* (Torrey) Payson var. *disticha* (Eastwood) Payson = *Oreocarya suffruticosa* (Torrey) Greene var. *suffruticosa*  
*jamesii* (Torrey) Payson var. *jamesii* = *Cryptantha Oreocarya suffruticosa* (Torrey) Greene var. *suffruticosa*  
*jamesii* (Torrey) Payson var. *laxa* (Macbride) Payson = *Oreocarya suffruticosa* (Torrey) Greene var. *suffruticosa*  
*jamesii* (Torrey) Payson var. *multicaulis* (Torrey) Payson = *Oreocarya suffruticosa* (Torrey) Greene var. *suffruticosa*  
*jamesii* (Torrey) Payson var. *pustulosa* (Rydberg) Harrington = *Oreocarya suffruticosa* (Torrey) Greene var. *pustulosa* (Rydberg) R.B. Kelley  
*jamesii* (Torrey) Payson var. *setosa* (Jones) Johnston ex. Tidestrom = *Oreocarya suffruticosa* (Torrey) Greene var. *suffruticosa*  
***juniperensis*** R.B. Kelley & M.B. Simpson [Sivinski 2006]  
*Cryptantha nevadensis* Nelson & Kennedy var. *rigida* I.M. Johnston  
***mexicana*** (Brandegee) I.M. Johnston [M&H; Sivinski 1998]  
*Krynitzkia mexicana* Brandegee  
*micrantha* (Torrey) I.M. Johnston = *Eremocarya micrantha* (Torrey) Greene  
***minima*** Rydberg [M&H; Sivinski 1998]  
***nevadensis*** A. Nelson & Kennedy [Sivinski 1998; Spellenberg et al. 1993]  
*nevadensis* A. Nelson & Kennedy var. *rigida* I.M. Johnston = *Cryptantha juniperensis* R.B. Kelley & M.B. Simpson  
***oblata*** (M.E. Jones) Payson [M&H; Sivinski 1998; W&S]  
*Krynitzkia oblata* M.E. Jones  
*Oreocarya hispidissima* sensu Wootton & Standley  
*Oreocarya oblata* (M.E. Jones) Macbride  
***palmeri*** (Gray) Payson [M&H; Sivinski 1998]  
*Cryptantha coryi* I.M. Johnston  
*Krynitzkia palmeri* Gray  
*Oreocarya palmeri* (Gray) Greene  
***paradoxa*** (A. Nelson) Payson [M&H; Sivinski 1998]  
*Oreocarya paradoxa* A. Nelson  
*pattersonii* (A. Gray) Greene = *Cryptantha fendleri* (Gray) Greene  
***paysonii*** (Macbride) I.M. Johnston [M&H; Sivinski 1998]  
*Oreocarya paysonii* Macbride  
***pterocarya*** (Torrey) Greene var. ***cycloptera*** (Greene) Macbride [M&H; Sivinski 1998]  
*Cryptantha cycloptera* Greene  
*Krynitzkia cycloptera* Greene  
***pterocarya*** (Torrey) Greene var. ***pterocarya*** [Spellenberg et al. 1991; Sivinski 1998]  
*Eritrichium pterocaryum* Torrey  
*Krynitzkia pterocarya* (Torrey) Gray  
*pusilla* (Torrey & Gray) Greene = *Johnstonella pusilla* (Torrey & Gray) Hasenstab & Simpson  
*pustulosa* (Rydberg) Payson = *Oreocarya suffruticosa* (Torrey) Greene var. *pustulosa* (Rydberg) R.B. Kelley  
*ramosa* (Lehmann) Greene = *Cryptantha albida* (Kunth) I.M. Johnston  
***recurvata*** Coville [Sivinski 1993; Sivinski 1998]  
***setosissima*** (Gray) Payson [Sivinski 1998]  
*thyrsiflora* (Greene) Payson = *Oreocarya thyrsiflora* Greene  
***Cynoglossum*** hound's-tongue  
 \****officinale*** Linnaeus [M&H; W&S]  
*Echinosperrum floribundum* Lehmann = *Hackelia floribunda* (Lehmann) I.M. Johnston  
*ursinum* Greene ex Gray = *Hackelia ursina* (Greene ex Gray) I.M. Johnston var. *ursina*

\**Echium vulgare* Linnaeus : Reported by M&H, but the plants in question were cultivated garden plants; not known in the wild in NM.

*Eddya gossypina* Wooton & Standley = *Tiquilia gossypina* (Wooton & Standley) A. Richardson  
*hispidissima* Torrey = *Tiquilia hispidissima* (Torrey) A. Richardson

**Eremocarya**

Hasenstab-Lehman, K.E. and M.G. Simpson. 2012. Cat's eyes and popcorn flowers: phylogenetic systematics of the genus *Cryptantha* s.l. (Boraginaceae). *Systematic Botany* 37(3):738-757.

***micrantha*** (Torrey) Greene [M&H; Sivinski 1998]  
*Cryptantha micrantha* (Torrey) I.M. Johnston  
*Eritrichium micranthum* Torrey  
*Krynitzkia micrantha* (Torrey) A. Gray

**Eritrichium** alpine forget-me-not

Murray, D.F. 2015. Notes on *Eritrichium* (Boraginaceae) in North America II. *J. Bot. Res. Inst. Texas* 9(2):311-315.

*angustifolium* Torrey = *Johnstonella angustifolia* (Torrey) Hasenstab & Simpson  
*aretioides* (Chamisso) A.P. de Candolle var. *elongatum* Rydberg = *Eritrichium nanum* (Villars) Schrader ex Gaudin  
*argenteum* W. Wight = *Eritrichium nanum* (Villars) Schrader ex Gaudin  
*barbigera* Gray = *Cryptantha barbigera* (Gray) Greene  
*canescens* Gray var. *arizonicum* Gray = *Plagiobothrys arizonicum* (Gray) Greene ex Gray  
*crassisepalum* Torrey & Gray = *Cryptantha crassisepala* (Torrey & Gray) Greene var. *crassisepala*  
*elongatum* (Rydberg) W.F. Wright = *Eritrichium nanum* (Villars) Schrader ex Gaudin  
*elongatum* (Rydberg) var. *argenteum* (W. Wight) I. M. Johnston = *Eritrichium nanum* (Villars) Schrader ex Gaudin  
*floribundum* Torrey = *Antiphytum floribundum* (Torrey) Gray  
*glomeratum* (Pursh) A.P. de Candolle var. *hispidissimum* Torrey = *Oreocarya thyriflora* Greene  
*jamesii* Torrey [nom. illegit.] = *Oreocarya suffruticosa* (Torrey) Greene var. *suffruticosa*  
*micranthum* Torrey = *Eremocarya micrantha* (Torrey) Greene  
*multicaule* Torrey = *Oreocarya suffruticosa* (Torrey) Greene var. *suffruticosa*  
***nanum*** (Villars) Schrader ex Gaudin [M&H; W&S]  
*Eritrichium aretioides* (Chamisso) A.P. de Candolle var. *elongatum* Rydberg  
*Eritrichium elongatum* (Rydberg) W.F. Wright  
*Eritrichium elongatum* (Rydberg) var. *argenteum* (W. Wight) I. M. Johnston  
*Eritrichium nanum* (Linnaeus) Gaudin var. *elongatum* (Rydberg) Cronquist  
*nanum* (Linnaeus) Gaudin var. *elongatum* (Rydberg) Cronquist = *Eritrichium nanum* (Villars) Schrader ex Gaudin  
*pterocaryum* Torrey = *Cryptantha pterocarya* (Torrey) Greene var. *pterocarya*  
*pusillum* Torrey & Gray = *Johnstonella pusilla* (Torrey & Gray) Hasenstab & Simpson

*Euploca*...go to HELIOTROPIACEAE

**Hackelia** stickseed

Gentry, J.L. & R.L. Carrier 1976. a revision of *Hackelia* (Boraginaceae) in North America, north of Mexico. *Mem. New York Bot. Gard.* 26(1):121-227.

Sivinski, R.C., T. Lowrey, and C. Keller. 1995 [1996]. Additions to the floras of Colorado and New Mexico. *Phytologia* 79(5):319-324. [*Hackelia ursina pustulata*]

***besseyi*** (Rydberg) J.L. Gentry [M&H; W&S]  
*Hackelia grisea* (Wooton & Standley) I.M. Johnston  
*Lappula besseyi* Rydberg  
*Lappula grisea* Wooton & Standley

***floribunda*** (Lehmann) I.M. Johnston [M&H; W&S]  
*Echinosperrum floribundum* Lehmann  
*Lappula floribunda* (Lehmann) Greene  
*grisea* (Wooton & Standley) I.M. Johnston = *Hackelia besseyi* (Rydberg) J.L. Gentry  
**+*hirsuta*** (Wooton & Standley) I.M. Johnston [M&H; W&S]  
*Lappula hirsuta* Wooton & Standley

***pinetorum*** (Greene ex Gray) I.M. Johnston var. ***jonesii*** J.L. Gentry [Gentry 1974; Higgins 1979; M&H]

***pinetorum*** (Greene ex Gray) I.M. Johnston var. ***pinetorum*** [Gentry 1974; M&H; W&S]

*Lappula pinetorum* Greene

**ursina** (Greene ex Gray) I.M. Johnston var. **pustulata** (Macbride) J.L. Gentry  
[Sivinski et al. 1995]

*Lappula pustulata* Macbride

**ursina** (Greene ex Gray) I.M. Johnston var. **ursina** [Gentry 1974; M&H; W&S]

*Echinosperrum ursinum* Greene

*Lappula leucantha* Greene

*Lappula ursina* Greene

*Heliotropium*...go to HELIOTROPIACEAE

### **Johnstonella**

Hasenstab-Lehman, K.E. & M.G. Simpson. 2012. Cat's eyes and popcorn flowers: phylogenetic systematics of the genus *Cryptantha* s.l. (Boraginaceae). *Syst. Bot.* 37(3):738-757.

Mabry, M.E. & M.G. Simpson. 2018. Evaluating the monophyly and biogeography of *Cryptantha* (Boraginaceae). *Syst. Bot.* 43(1):53-76

**angustifolia** (Torrey) Hasenstab & Simpson [M&H; Sivinski 1998]

*Cryptantha angustifolia* (Torrey) Greene

*Eritrichium angustifolium* Torrey

*Krynitzkia angustifolia* (Torrey) Gray

**pusilla** (Torrey & Gray) Hasenstab & Simpson [M&H; Sivinski 1998]

*Cryptantha pusilla* (Torrey & Gray) Greene

*Eritrichium pusillum* Torrey & Gray

*Krynitzkia pusilla* (Torrey & Gray) Gray

*Krynitzkia angustifolia* (Torrey) Gray = *Johnstonella angustifolia* (Torrey) Hasenstab & Simpson

*crassisejala* (Torrey & Gray) Gray = *Cryptantha crassisejala* (Torrey & Gray) Greene var. *crassisejala*

*cycloptera* Greene = *Cryptantha pterocarya* (Torrey) Greene var. *cycloptera* (Greene) Macbride

*fendleri* Gray = *Cryptantha fendleri* (Gray) Greene

*floribunda* Torrey = *Antiphytum floribundum* (Torrey) Gray

*jamesii* (Torrey) Gray = *Oreocarya suffruticosa* (Torrey) Greene var. *suffruticosa*

*mexicana* Brandege = *Cryptantha mexicana* (Brandegee) I.M. Johnston

*micrantha* (Torrey) A. Gray = *Eremocarya micrantha* (Torrey) Greene

*multicaulis* Torrey var. *setosa* M.E. Jones = *Oreocarya suffruticosa* (Torrey) Greene var. *suffruticosa*

*oblata* M.E. Jones = *Oreocarya oblata* (M.E. Jones) Macbride

*palmeri* Gray = *Oreocarya palmeri* (Gray) Greene

*pterocarya* (Torrey) Gray = *Cryptantha pterocarya* (Torrey) Greene var. *pterocarya*

*pusilla* (Torrey & Gray) Gray = *Johnstonella pusilla* (Torrey & Gray) Hasenstab & Simpson

### **Lappula** sheepbur

Allred, K.W. 1999. New plant distribution records. *The New Mexico Botanist* 13:7. [*Lappula squarrosa*]

*besseyi* Rydberg = *Hackelia besseyi* (Rydberg) J.L. Gentry

*cupulata* (Gray) Rydberg = *Lappula occidentalis* (S. Watson) Greene var. *cupulata* (Gray) Higgins

*heterosperma* Greene = *Lappula occidentalis* (S. Watson) Greene var. *cupulata* (Gray) Higgins

**occidentalis** (S. Watson) Greene var. **cupulata** (Gray) Higgins [M&H; W&S]

*Lappula cupulata* (Gray) Rydberg

*Lappula heterosperma* Greene

*Lappula redowskii* (Hornemann) Greene var. *cupulata* (Gray) M.E. Jones

*Lappula redowskii* (Hornemann) Greene var. *texana* (Scheele) Britton

*Lappula texana* (Scheele) Britton

*Lappula texana* (Scheele) Britton var. *heterosperma* (Greene) A. Nelson & Macbride

*Lappula texana* (Scheele) Britton var. *coronata* (Greene) A. Nelson & Macbride

**occidentalis** (S. Watson) Greene var. **occidentalis** [M&H; W&S]

*Lappula leucotricha* Rydberg

*Lappula redowskii* (Hornemann) Greene

*Lappula redowskii* (Hornemann) Greene var. *desertorum* (Greene) I.M. Johnston



- echinata* Gilibert = *Lappula squarrosa* (Retzius) Dumortier  
*floribunda* (Lehmann) Greene = *Hackelia floribunda* (Lehmann) I.M. Johnston  
*grisea* Wooton & Standley = *Hackelia grisea* (Wooton & Standley) I.M. Johnston  
*hirsuta* Wooton & Standley = *Hackelia hirsuta* (Wooton & Standley) I.M. Johnston  
*leucantha* Greene = *Hackelia ursina* (Greene) I.M. Johnston  
*leucotricha* Rydberg = *Lappula occidentalis* (S. Watson) Greene var. *occidentalis*  
*pinetorum* Greene = *Hackelia pinetorum* (Greene) I.M. Johnston  
*pustulata* Macbride = *Hackelia ursina* (Greene ex Gray) I.M. Johnston var. *pustulata*  
 (Macbride) J.L. Gentry  
*redowskii* (Hornemann) Greene = *Lappula occidentalis* (S. Watson) Greene var.  
*occidentalis*  
*redowskii* (Hornemann) Greene var. *cupulata* (Gray) M.E Jones = *Lappula occidentalis* (S.  
 Watson) Greene var. *cupulata* (Gray) Higgins  
*redowskii* (Hornemann) Greene var. *desertorum* (Greene) I.M. Johnston = *Lappula*  
*occidentalis* (S. Watson) Greene var. *occidentalis*  
*redowskii* (Hornemann) Greene var. *texana* (Scheele) Britton = *Lappula occidentalis* (S.  
 Watson) Greene var. *cupulata* (Gray) Higgins  
**\**squarrosa*** (Retzius) Dumortier [Allred 1999]  
*Lappula echinata* Gilibert  
*texana* (Scheele) Britton var. *coronata* (Greene) A. Nelson & Macbride = *Lappula*  
*occidentalis* (S. Watson) Greene var. *cupulata* (Gray) Higgins  
*texana* (Scheele) Britton var. *heterosperma* (Greene) A. Nelson & Macbride = *Lappula*  
*occidentalis* (S. Watson) Greene var. *cupulata* (Gray) Higgins  
*texana* (Scheele) Britton var. *texana* = *Lappula occidentalis* (S. Watson) Greene var.  
*cupulata* (Gray) Higgins  
*ursina* Greene = *Hackelia ursina* (Greene) I.M. Johnston

***Lithospermum*** gromwell

- Boyd, A. 2002. Morphological analysis of Sky Island populations of *Macromeria viridiflora*  
 (Boraginaceae). Syst. Bot. 27(1):116-126.  
 Cohen, J.I. & J.I Davis. 2009. Nomenclatural changes in *Lithospermum* (Boraginaceae) and related taxa  
 following a reassessment of phylogenetic relationships. Brittonia 61(2):101-111.  
 Turner, B.L. 1994. Synoptical study of the genus *Macromeria* (Boraginaceae). Phytologia 77(5):393-407.  
 Turner, B.L. 1995. Synopsis of the genus *Onosmodium* (Boraginaceae). Phytologia 78:39-60.  
*angustifolium* Michaux = *Lithospermum incisum* Lehmann  
*caroliniense* (Walter) MacMillan : Reported as expected by M&H; awaits verification.  
***cobrense*** Greene [M&H; W&S]  
*cognatum* Greene ex Spengler = *Lithospermum multiflorum* Torrey ex Gray  
 confine I.M. Johnston : Reported by Higgins (1979), but no specimens are known;  
 probably confused with *Lappula multiflorum*; awaits verification.  
***incisum*** Lehmann [M&H; W&S]  
*Lithospermum angustifolium* Michaux  
*Lithospermum linearifolium* Goldie  
*Lithospermum oblongum* Greene  
*linearifolium* Goldie = *Lithospermum incisum* Lehmann  
***macromeria*** J. Cohen [M&H; Turner 1994; W&S]  
*Macromeria thurberi* (Gray) Mackenzie  
*Macromeria viridiflora* A.P. de Candolle  
*Macromeria viridiflora* A.P. de Candolle var. *thurberi* (Gray) I.M. Johnston  
*Onosmodium thurberi* Gray  
***multiflorum*** Torrey ex Gray [M&H; W&S]  
 puceoon  
*Lithospermum cognatum* Greene ex Spengler  
*oblongum* Greene = *Lithospermum incisum* Lehmann  
***onosmodium*** J. Cohen [M&H; Turner 1995; W&S]  
*Onosmodium bejariense* A.P. de Candolle var. *occidentale* (Mackenzie) B.L.  
 Turner  
*Onosmodium molle* Michaux var. *occidentale* (Mackenzie) I.M. Johnston  
*Onosmodium occidentale* Mackenzie  
*palmeri* S. Watson = *Lithospermum viride* Greene  
***parksii*** I.M. Johnston. [M&H]

**ruderalis** Douglas ex Lehmann [TCFNM]

**viridis** Greene [M&H; W&S]

*Lithospermum palmeri* S. Watson

*Macromeria thurberi* (Gray) Mackenzie = *Lithospermum macromeria* J. Cohen

*viridiflora* A.P. de Candolle var. *thurberi* (Gray) I.M. Johnston = *Lithospermum macromeria* J. Cohen

*viridiflora* A.P. de Candolle var. *viridiflora* = *Lithospermum macromeria* J. Cohen

**Mertensia** bluebells

Higgins, L.C. 1979. Boraginaceae of the southwestern United States. *The Great Basin Naturalist* 39(4):293-350.

Nazaire, M. & L. Hufford. 2014. Phylogenetic systematics of the genus *Mertensia* (Boraginaceae). *Systematic Botany* 39(1):268-303.

Williams, L.O. 1937. A monograph of the genus *Mertensia* in North America. *Ann. Missouri Bot. Gard.* 24:17-159.

*alba* Rydberg = *Mertensia franciscana* Heller

**alpina** (Torrey) G. Don [M&H; Williams 1937]

*amoena* A. Nelson = *Mertensia bakeri* Greene

*amplifolia* Wooton & Standley = *Mertensia fendleri* Gray var. *pubens* MacBride

**bakeri** Greene [M&H; Williams 1937]

*Mertensia amoena* A. Nelson

*Mertensia lateriflora* of NM reports

*Mertensia lanceolata* (Pursh) A.P. de Candolle var. *nivalis* of NM reports, in part

*Mertensia paniculata* (Aiton) G. Don var. *nivalis* of NM reports

*Mertensia viridis* of NM reports

*brevistyla* of NM reports = *Mertensia fendleri* Gray or *M. ovata* Rydberg var. *ovata*

**ciliata** (James ex Torrey) G. Don [M&H; Williams 1937]

*Mertensia cynoglossoides* of NM reports

*Pulmonaria ciliata* James ex Torrey

*coriacea* A. Nelson : Sometimes reported for NM, but authentic specimens are unknown.

*Mertensia lanceolata* (Pursh) A.P. de Candolle var. *coriacea* (A. Nelson)

Higgins & Welsh

*cynoglossoides* of NM reports = *Mertensia ciliata* (James ex Torrey) G. Don

**fendleri** Gray var. **fendleri** [Williams 1937]

*Mertensia lanceolata* (Pursh) A.P. de Candolle var. *fendleri* Gray

*Mertensia brevistyla* of NM reports, in part

*Mertensia fusiformis* of NM reports, in part

**fendleri** Gray var. **pubens** Macbride [Williams 1937; W&S]

*Mertensia amplifolia* Wooton & Standley

*Mertensia brevistyla* of NM reports, in part

*Mertensia lanceolata* (Pursh) A.P. de Candolle var. *pubens* (MacBride)

Williams

*Mertensia fusiformis* of NM reports, in part

**franciscana** Heller [M&H; W&S; Williams 1937]

*Mertensia alba* Rydberg

*Mertensia grandis* Wooton & Standley

*Mertensia pratensis* of NM reports

*lanceolata* (Pursh) A.P. de Candolle var. *coriacea* (A. Nelson) Higgins & Welsh :

Sometimes reported for NM, but authentic specimens are unknown.

*lanceolata* (Pursh) A.P. de Candolle var. *nivalis* of NM reports = *Mertensia bakeri* Greene

or *M. ovata* Rydberg var. *caelestina* (A. Nelson & Cockerell) Nazaire & Hufford

*lanceolata* (Pursh) A.P. de Candolle var. *pubens* (MacBride) Williams = *Mertensia fendleri* Gray var. *pubens* Macbride

*lateriflora* of NM reports = *Mertensia bakeri* Greene

+**ovata** Rydberg var. **caelestina** (A. Nelson & Cockerell) Nazaire & Hufford

*Mertensia caelestina* A. Nelson & Cockerell

*Mertensia viridis* A. Nelson var. *caelestina* (A. Nelson & Cockerell) L.O.

Williams

*Mertensia lanceolata* (Pursh) A.P. de Candolle var. *nivalis* of NM reports, in part

*Mertensia viridis* A. Nelson var. *caelestina* (A. Nelson & Cockerell) L.O. Williams

**ovata** Rydberg var. **ovata** [Nazaire & Hufford 2014]

*Mertensia brevistyla* of NM reports, in part

*Mertensia fusiformis* of NM reports, in part

*paniculata* (Aiton) G. Don var. *nivalis* of NM reports = *Mertensia bakeri* Greene

*pratensis* of NM reports = *Mertensia franciscana* Heller

*viridis* of NM reports = *Mertensia bakeri* Greene

*viridis* A. Nelson var. *caelestina* (A. Nelson & Cockerell) L.O. Williams = *Mertensia ovata*

Rydberg var. *caelestina* (A. Nelson & Cockerell) Nazaire & Hufford

**Myosotis** forget-me-not

Hutchins, C.R. 1974. A flora of the White Mountains area, southern Lincoln and northern Otero counties, New Mexico. Privately published. [*Myosotis scorpioides*]

*albida* Kunth = *Cryptantha albida* (Kunth) I.M. Johnston

*palustris* Lamarck = *Myosotis scorpioides* Linnaeus

**\*scorpioides** Linnaeus [Hutchins 1974; M&H]

*Myosotis palustris* Lamarck

*suffruticosa* Torrey = *Oreocarya suffruticosa* (Torrey) Greene var. *suffruticosa*

*Onosmodium bejariense* A.P. de Candolle var. *occidentale* (Mackenzie) B.L. Turner =

*Lithospermum onosmodium* J. Cohen

*molle* Michaux var. *occidentale* (Mackenzie) I.M. Johnston = *Lithospermum onosmodium* J. Cohen

*occidentale* Mackenzie = *Lithospermum onosmodium* J. Cohen

*thurberi* Gray = *Lithospermum macromeria* J. Cohen

**Oreocarya** cats-eye

Hasenstab-Lehman, K.E. and M.G. Simpson. 2012. Cat's eyes and popcorn flowers: phylogenetic systematics of the genus *Cryptantha* s. l. (Boraginaceae). *Systematic Botany* 37(3):738-757.

Sivinski, R.C. 1994. A review of *Cryptantha fulvocanescens* (Boraginaceae) with the re-evaluation of Greene's *Oreocarya nitida*. *Madroño* 41(4):243-253.

Sivinski, R.C. 1998. The genus *Cryptantha* (Boraginaceae) in New Mexico. *The New Mexico Botanist* 8:2-9.

Sivinski, R.C. 2006. Plant distribution reports. *The New Mexico Botanist* 36:7. [*Cryptantha flavoculata*]

**bakeri** Greene [Sivinski 1998]

*Cryptantha bakeri* (Greene) Payson

*cinerea* Greene = *Oreocarya suffruticosa* (Torrey) Greene var. *suffruticosa*

*disticha* Eastwood = *Oreocarya suffruticosa* (Torrey) Greene var. *suffruticosa*

*echinoides* M.E. Jones = *Oreocarya fulvocanescens* (S. Watson) Greene var. *fulvocanescens*

**flava** A. Nelson

*Cryptantha flava* (A. Nelson) Payson

*Oreocarya lutescens* Greene

**flavoculata** A. Nelson

*Cryptantha flavoculata* (A. Nelson) Payson

**fulvocanescens** (S. Watson) Greene var. **fulvocanescens** [M&H; W&S]

*Cryptantha fulvocanescens* (S. Watson) Payson

*Cryptantha fulvocanescens* (S. Watson) Payson var. *echinoides* (Jones) Higgins

*Oreocarya echinoides* M.E. Jones

**fulvocanescens** (S. Watson) Greene var. **nitida** (Greene) R.B. Kelley [Sivinski 1994, 1998]

*Cryptantha fulvocanescens* (S. Watson) Payson var. *nitida* (Greene) Sivinski

*Oreocarya nitida* Greene

*hispidissima* (Torrey) Rydberg = *Oreocarya thyriflora* Greene

*hispidissima* sensu W&S = *Cryptantha oblata* (M.E. Jones) Payson

*lutescens* Greene = *Oreocarya flava* A. Nelson

*multicaulis* (Torrey) Greene = *Oreocarya suffruticosa* (Torrey) Greene var. *suffruticosa*

*multicaulis* (Torrey) Greene var. *laxa* Macbride = *Cryptantha cinerea* (Greene) Cronquist var. *laxa* (Macbride) Higgins

**oblata** (M.E. Jones) Macbride

*Cryptantha oblata* (M.E. Jones) Payson

**palmeri** (Gray) Greene

*Cryptantha coryi* I.M. Johnston  
*Cryptantha palmeri* (Gray) Payson  
*Krynitzkia palmeri* Gray

**paradoxa** A. Nelson

*Cryptantha paradoxa* (A. Nelson) Payson

**paysonii** Macbride

*Cryptantha paysonii* (Macbride) I.M. Johnston

*pustulosa* Rydberg = *Oreocarya suffruticosa* (Torrey) Greene var. *pustulosa* (Rydberg) R.B. Kelley

**setosissima** (Gray) Greene

*Cryptantha setosissima* (Gray) Payson

*suffruticosa* var. *laxa* (Macbride) R.B. Kelley = *Oreocarya suffruticosa* (Torrey) Greene var. *suffruticosa*

*suffruticosa* (Torrey) Greene var. *multicaulis* (Torrey) Payson = *Oreocarya suffruticosa* (Torrey) Greene var. *suffruticosa*

**suffruticosa** (Torrey) Greene var. **suffruticosa** [M&H; Sivinski 1998; W&S]

*Cryptantha cinerea* (Greene) Cronquist  
*Cryptantha cinerea* (Greene) Cronquist var. *jamesii* Cronquist  
*Cryptantha cinerea* var. *laxa* (Macbride) Higgins  
*Cryptantha jamesii* (Torrey) Payson  
*Cryptantha jamesii* (Torrey) Payson var. *disticha* (Eastwood) Payson  
*Cryptantha jamesii* (Torrey) Payson var. *laxa*  
*Cryptantha jamesii* (Torrey) Payson var. *multicaulis* (Torrey) Payson  
*Cryptantha jamesii* (Torrey) Payson var. *setosa* (Jones) Johnston ex Tidestrom  
*Eritrichium jamesii* Torrey [nom. illegit.]  
*Eritrichium multicaule* Torrey  
*Krynitzkia jamesii* (Torrey) Gray  
*Krynitzkia multicaulis* Torrey var. *setosa* M.E. Jones

*Myosotis suffruticosa* Torrey

*Oreocarya cinerea* Greene

*Oreocarya disticha* Eastwood

*Oreocarya multicaulis* (Torrey) Greene

*Oreocarya multicaulis* (Torrey) Greene var. *laxa* Macbride

*Oreocarya suffruticosa* var. *laxa* (Macbride) R.B. Kelley

*Oreocarya suffruticosa* (Torrey) Greene var. *multicaulis* (Torrey) Payson

*Oreocarya suffruticosa* (Torrey) Greene var. *setosa* (M.E. Jones) R.B. Kelley

**suffruticosa** (Torrey) Greene var. **pustulosa** (Rydberg) R.B. Kelley [Sivinski 1998]

*Cryptantha cinerea* (Greene) Cronquist var. *pustulosa* (Rydberg) Higgins

*Cryptantha jamesii* (Torrey) Payson var. *pustulosa* (Rydberg) Harrington

*Cryptantha pustulosa* (Rydberg) Payson

*Oreocarya pustulosa* Rydberg

*suffruticosa* (Torrey) Greene var. *setosa* (M.E. Jones) R.B. Kelley = *Oreocarya suffruticosa* (Torrey) Greene var. *suffruticosa*

**thyrsiflora** Greene [M&H; Sivinski 1998]

*Eritrichium glomeratum* (Pursh) A.P. de Candolle var. *hispidissimum* Torrey

*Oreocarya hispidissima* (Torrey) Rydberg

*Oreocarya urticacea* Wootton & Standley

*urticacea* Wootton & Standley = *Oreocarya thyrsiflora* Greene

**Pectocarya** pectocarya

Allred, K.W. 1999. New plant distribution records. The New Mexico Botanist 13:7. [*Pectocarya heterocarpa*]

Cronquist, A. 1984. Boraginaceae, pp. 207-293. IN: Intermountain Flora, vol. 4. New York Botanical Garden. [*Pectocarya setosa*]

Guilliams, C.M., B.A. Veno, M.G. Simpson & R.B. Kelley. 2013. *Pectocarya anisocarpa*, a new species of Boraginaceae, and a revised key for the genus in western North America. *Aliso* 31(1): 1-13.

Veno, B.A. 1979. A revision of the genus *Pectocarya* (Boraginaceae), including reduction to synonymy of the genus *Harpagonella* (Boraginaceae). Ph.D. Dissertation, Univ. California, Los Angeles. 201 pp.

*gracilis* I.M. Johnston var. *platycarpa* Munz & I.M. Johnston = *Pectocarya platycarpa* (Munz & I.M. Johnston) Munz & I.M. Johnston

*heterocarpa* I.M. Johnston. [Allred 1999]

*platycarpa* (Munz & I.M. Johnston) Munz & I.M. Johnston [Higgins 1979; M&H]

*Pectocarya gracilis* I.M. Johnston var. *platycarpa* Munz & I.M. Johnston

*recurvata* I.M. Johnston [Higgins 1979; M&H]

setosa A. Gray : Reported for NM by Cronquist (1984), but specimens are unknown; awaits verification.

**Plagiobothrys** popcorn-flower

*arizonicus* (Gray) Greene ex Gray [Higgins 1979; W&S]

*Eritrichium canescens* Gray var. *arizonicum* Gray

*scopulorum* (Greene) I.M. Johnston = *Plagiobothrys scouleri* (Hooker & Arnott) I.M.

Johnston var. *hispidulus* (Greene) Dorn

*scouleri* (Hooker & Arnott) I.M. Johnston var. *hispidulus* (Greene) Dorn [Higgins 1979; M&H]

*Allocarya scopulorum* Greene

*Plagiobothrys scopulorum* (Greene) I.M. Johnston

*Plagiobothrys scouleri* (Hooker & Arnott) I.M. Johnston var. *penicillatus* (Greene) Cronquist

*scouleri* (Hooker & Arnott) I.M. Johnston var. *penicillatus* (Greene) Cronquist =

*Plagiobothrys scouleri* (Hooker & Arnott) I.M. Johnston var. *hispidulus* (Greene) Dorn

*Ptilocalyx greggii* Torrey = *Tiquilia greggii* (Torrey) A. Richardson

*Pulmonaria ciliata* James ex Torrey = *Mertensia ciliata* (James ex Torrey) G. Don

*Stegnocarpus canescens* (A.P. de Candolle) Torrey = *Tiquilia canescens* (A.P. de Candolle) A. Richardson var. *canescens*

**Symphytum** comfrey

Sivinski, R.C. 1999. Plant distribution records. The New Mexico Botanist 12:8. [*Symphytum officinale*]

\**officinale* Linnaeus [Sivinski 1999]

*Tiquilia*...go to EHRETIACEAE

### Family BRASSICACEAE (CRUCIFERAE) [49/170/180]

Al-Shehbaz, I.A. (ed.). 2010. Brassicaceae, p. 224-746. IN: Flora of North America, vol. 7. Oxford University Press, New York.

Al-Shehbaz, I.A. 2012. A generic and tribal synopsis of Brassicaceae (Cruciferae). Taxon 61(5): 931-954.  
Rollins, R.C. 1993. The Cruciferae of Continental North America: Systematics of the Mustard Family from the Arctic to Panama. Stanford University Press, Stanford, California. pp. 1-976.

**Alyssum** alyssum

Heil, K. 2007. Plant distribution reports. The New Mexico Botanist 38:7. [*Alyssum alyssoides*]

Sivinski, R.C., T. Lowrey and R. Peterson. 1994. Additions to the native and adventive flora of New Mexico. Phytologia 76(6):473-479. [*Alyssum desertorum*]

Spellenberg, R., R. Worthington, P. Knight, and R. Fletcher. 1986. Additions to the flora of New Mexico. Sida 11(4):455-470. [*Alyssum minus*]

\**alyssoides* (Linnaeus) Linnaeus [Heil 2007]

*Clypeola alyssoides* Linnaeus

\**desertorum* Stapf [Sivinski et al. 1994]

*ludovicianum* Nuttall = *Physaria ludoviciana* (Nuttall) O'Kane & Al-Shehbaz

*maritimum* Linnaeus = *Lobularia maritima* (Linnaeus) Desvoux

*minus* (Linnaeus) Rothmaler nom. illeg. = *Alyssum simplex* Rudolphi

*minus* (Linnaeus) Rothmaler var. *micranthium* (C.A. Meyer) Dudley = *Alyssum simplex* Rudolphi

\**simplex* Rudolphi [Spellenberg et al. 1986]

*Alyssum minus* (Linnaeus) Rothmaler nom. illeg.

*Alyssum minus* (Linnaeus) Rothmaler var. *micranthium* (C.A. Meyer) Dudley

**Arabidopsis** arabidopsis

Allred, K.W. 2008. Plant distribution reports. The New Mexico Botanist 42:39. [*Arabidopsis thaliana*]

O'Kane, S.L. & I.A. Al-Shehbaz. 2003. Phylogenetic position and generic limits of *Arabidopsis* (Brassicaceae) based on sequences of nuclear ribosomal DNA. Ann. Missouri Bot. Gard. 90: 603-612.

\**thaliana* (Linnaeus) Heynhold : Reported by Allred (2008), but this corrected to *Cardamine flexuosa* Withering

Thal cress

*Arabis thaliana* Linnaeus

**Arabis** rock-cress

Al-Shehbaz, I.A. 2003. Transfer of most North American species of *Arabis* to *Boechera* (Brassicaceae).  
Novon 13:381-391.

*angulata* Greene ex Wooton & Standley = *Boechera perennans* (S. Watson) W.A. Weber

*consanguinea* Greene = *Boechera consanguinea* (Greene) Windham & Al-Shehbaz

*divaricarpa* of NM reports = *Boechera fendleri* × *stricta* hybrids

*drummondii* Gray = *Boechera stricta* (Graham) Al-Shehbaz

*eremophila* Greene = *Boechera perennans* (S. Watson) W.A. Weber

*fendleri* (S. Watson) Greene var. *fendleri* = *Boechera fendleri* (S. Watson) W.A. Weber

*fendleri* (S. Watson) Greene var. *spatifolia* of NM reports = *Boechera sanluisensis* P.J.

Alexander

*formosa* Greene = *Boechera formosa* (Greene) Windham & Al-Shehbaz

*glabra* (Linnaeus) Bernhardt = *Turritis glabra* Linnaeus

*gracilenta* Greene = *Boechera gracilenta* (Greene) Windham & Al-Shehbaz

*hirsuta* (Linnaeus) Scopoli var. *pyncocarpa* (Hopkins) Rollins = *Arabis pyncocarpa*

Hopkins

*holboellii* of NM reports = *Boechera consanguinea* (Greene) Windham & Al-Shehbaz

*holboellii* Hornemann var. *fendleri* S. Watson = *Boechera fendleri* (S. Watson) W.A. Weber

*holboellii* Hornemann var. *retrofracta* of NM reports = *Boechera consanguinea* (Greene)

Windham & Al-Shehbaz

*lignifera* of NM reports = *Boechera kelseyana* Windham & Alphin

*longirostris* S. Watson = *Streptanthus longirostris* (S. Watson) S. Watson

*ovata* (Pursh) Poiret = *Arabis pyncocarpa* Hopkins

*oxyphylla* Greene = *Boechera stricta* (Graham) Al-Shehbaz

*pallidifolia* of NM reports = *Boechera thompsonii* (S.L. Welsh) N.H. Holmgren

*perennans* S. Watson = *Boechera perennans* (S. Watson) W.A. Weber

*porphyrea* Wooton & Standley = *Boechera porphyrea* (Wooton & Standley) Windham, Al-

Shehbaz, & P.J. Alexander

*pulchra* M.E. Jones ex S. Watson var. *duchesnensis* Rollins of NM reports = *Boechera*

*formosa* × *kelseyana* × *perennans* hybrids

*pulchra* M.E. Jones ex S. Watson var. *pallens* of NM reports = *Boechera formosa* (Greene)

Windham & Al-Shehbaz

***pyncocarpa*** Hopkins var. ***pyncocarpa*** [M&H; W&S]

*Arabis hirsuta* (Linnaeus) Scopoli var. *pyncocarpa* (Hopkins) Rollins

*Arabis ovata* (Pursh) Poiret

*reptans* Lamarck = *Tomostima reptans* (Lamarck) Al-Shehbaz, Koch, & Jordon-Thaden

*retrofracta* of NM reports = *Boechera consanguinea* (Greene) Windham & Al-Shehbaz

*selbyi* Rydberg of NM reports = *Boechera thompsonii* (S.L. Welsh) N.H. Holmgren

*spatifolia* of NM reports = *Boechera sanluisensis* P.J. Alexander

*thaliana* Linnaeus = *Arabidopsis thaliana* (Linnaeus) Heynhold

**Armoracia** horseradish

Al-Shehbaz, I.A. 2010. *Armoracia*, p. 459-460. IN: Flora of North America, vol. 7. Oxford University Press, New York. [*Armoracia rusticana*]

*lapathifolia* Gilibert = *Armoracia rusticana* P. Gaertner

\****rusticana*** P. Gaertner [Al-Shehbaz 2010]

*Armoracia lapathifolia* Gilibert

*Cochlearia armoracia* Linnaeus

**Barbarea** yellow-rocket

Hartman, R.L. 1973. New plant records for New Mexico. Southwestern Naturalist 18(2):241-242.

[*Barbarea vulgaris*]

*americana* Rydberg = *Barbarea orthoceras* Ledebour

***orthoceras*** Ledebour [M&H]

*Barbarea americana* Rydberg

*verna* (Miller) Ascherson : Reported as expected by M&H; awaits verification.

\****vulgaris*** W.T. Aiton [Hartman 1973; M&H]

*Erysimum barbarea* Linnaeus

**Berteroa** berteroa

Sivinski, R.C., T. Lowrey, and C. Keller. 1995. Additions to the floras of Colorado and New Mexico.

Phytologia 79(5):319-324. [*Berteroa incana*]

\****incana*** (Linnaeus) A.P. de Candolle [Sivinski et al. 1995]

*Alyssum incanum* Linnaeus**Boechera** rock-cress

- Alexander, P. J., M. D. Windham, J. B. Beck, I. A. Al-Shehbaz, L. Allphin, & C. D. Bailey. 2015. Weaving a tangled web: divergent and reticulate speciation in *Boechera fendleri* sensu lato (Brassicaceae: Boecheae). *Systematic Botany* 40(2):572-596.
- Al-Shehbaz, I.A. 2003. Transfer of most North American species of *Arabis* to *Boechera* (Brassicaceae). *Novon* 13:381-391.
- Al-Shehbaz, I.A. & M.D. Windham. 2010. *Boechera*, p. 348-412. IN: Flora of North America, vol. 7. Oxford University Press, New York. [*Boechera consanguinea*, *B. duchesnensis*]
- Windham, M.D. & I.A. Al-Shehbaz. 2006. New and noteworthy species of *Boechera* (Brassicaceae) I: Sexual diploids. *Harvard Papers in Botany* 11(1):61-88.
- Windham, M.D. & I.A. Al-Shehbaz. 2007. New and noteworthy species of *Boechera* (Brassicaceae) II: Apomictic hybrids. *Harvard Papers in Botany* 11(2):257-274.
- Windham, M. D. & I. A. Al-Shehbaz. 2007. New and noteworthy species of *Boechera* (Brassicaceae) III: additional sexual diploids and apomictic hybrids. *Harvard Papers in Botany* 12:235-257.
- Windham, M. D., J. B. Beck, F-W. Li, L. Allphin, J. G. Carman, D. A. Sherwood, C. A. Rushworth, E. Sigel, P.J. Alexander, C. D. Bailey, and I. A. Al-Shehbaz. 2015. Searching for diamonds in the apomictic rough: a case study involving *Boechera lignifera* (Brassicaceae). *Systematic Botany* 40(4):1031-1044.

**carrizozensis** P.J. Alexander [Alexander et al. 2015]

**centrifendleri** P.J. Alexander [Alexander et al. 2015]

**consanguinea** (Greene) Windham & Al-Shehbaz [Al-Shehbaz & Windham 2010]

*Arabis consanguinea* Greene

*Arabis holboellii* of NM reports

*Arabis holboellii* Hornemann var. *retrofracta* of NM reports

*Boechera retrofracta* of NM reports

*divaricarpa* of NM reports = *Boechera fendleri* × *stricta* hybrids

*Arabis divaricarpa* A. Nelson

*drummondii* (Gray) A. & D. Löve = *Boechera stricta* (Graham) Al-Shehbaz

*duchesnensis* of NM reports = *Boechera formosa* × *kelseyana* × *perennans* hybrids

*Arabis pulchra* M.E. Jones ex S. Watson var. *duchesnensis* Rollins

**fendleri** (S. Watson) W.A. Weber [M&H; W&S]

*Arabis fendleri* (S. Watson) Greene

*Arabis holboellii* var. *fendleri* S. Watson

*fendleri* (S. Watson) W.A. Weber var. *spatifolia* (Rydberg) W.A. Weber of NM reports = *Boechera sanluisensis* P.J. Alexander

**formosa** (Greene) Windham & Al-Shehbaz [M&H; Rollins 1993; W&S]

*Arabis formosa* Greene

*Arabis pulchra* M.E. Jones ex S. Watson var. *pallens* M.E. Jones

**gracilentata** (Greene) Windham & Al-Shehbaz [Al-Shehbaz & Windham 2010]

*Arabis gracilentata* Greene

**gracilipes** (Greene) Dorn [FNM I]

*holboellii* (Hornemann) A. & D. Löve s.s. : In the narrow sense of Al-Shehbaz & Windham (2010, and followed here), *Boechera holboellii* is found in North America only in Greenland; our material is referred to *Boechera consanguinea* (Greene) Windham & Al-Shehbaz

**kelseyana** Windham & Allphin [M&H; FNM]

*Arabis lignifera* of NM reports

*Boechera lignifera* of NM reports

*lignifera* of NM reports = *Boechera kelseyana* Windham & Allphin

*pallidifolia* of NM reports = *Boechera thompsonii* (S.L. Welsh) N.H. Holmgren

**perennans** (S. Watson) W.A. Weber [M&H; W&S]

*Arabis angulata* Greene ex Wootton & Standley

*Arabis eremophila* Greene

*Arabis perennans* S. Watson

**porphyrea** (Wootton & Standley) Windham, Al-Shehbaz, & P.J. Alexander [M&H; W&S]

*Arabis porphyrea* Wootton & Standley

*pulchra* (M.E. Jones ex S. Watson) W.A. Weber s.s. : Not occurring in NM; our material of this complex is referable to the segregate species *Boechera formosa* (Greene) Windham & Al-Shehbaz [Windham & Al-Shehbaz 2006].

*retrofracta* of NM reports = *Boecheera consanguinea* (Greene) Windham & Al-Shehbaz  
***sanluisensis*** P.J. Alexander [Alexander et al. 2015]

*Arabis fendleri* (S. Watson) Greene var. *spatifolia* of NM reports

*Arabis spatifolia* of NM reports

*Boecheera fendleri* (S. Watson) W.A. Weber var. *spatifolia* of NM reports

*selbyi* of NM reports = *Boecheera thompsonii* (S.L. Welsh) N.H. Holmgren

*spatifolia* of NM reports = *Boecheera sanluisensis* P.J. Alexander

***stricta*** (Graham) Al-Shehbaz [M&H; W&S]

*Arabis drummondii* Gray

*Arabis oxyphylla* Greene

*Boecheera drummondii* (Gray) A. & D. Löve

*Turritis stricta* Graham

*texana* of NM reports = *Boecheera zephyra* P.J. Alexander

***thompsonii*** (S.L. Welsh) N.H. Holmgren [M&H; FNM]

*Arabis pallidifolia* of NM reports

*Boecheera pallidifolia* of NM reports

*Arabis selbyi* Rydberg of NM reports

*Boecheera villosa* Windham & Al-Shehbaz

*Boecheera selbyi* (Rydberg) W.A. Weber of NM reports

*villosa* Windham & Al-Shehbaz = *Boecheera thompsonii* (S.L. Welsh) N.H. Holmgren

***zephyra*** P.J. Alexander [Alexander et al. 2015]

*Brachiolobos hispidus* Desvieux = *Rorippa palustris* (Linnaeus) Besser var. *hispidus* (Desvieux)  
 Rydberg

**Brassica** mustard

Allred, K.W. 1999. New plant distribution records. The New Mexico Botanist 13:7. [*Brassica napus*]

Huff, C. 1996. New plant distribution records. The New Mexico Botanist 3:6. [*Brassica rapa*]

McIntosh, L. 1996. Seven additions to the flora of New Mexico. Phytologia 81(5):365-368. [*Brassica tournefortii*]

Warwick, S.I. 2010. *Brassica*, p. 419-424. IN: Flora of North America, vol. 7. Oxford University Press, New York. [*Brassica nigra*]

*alba* (Linnaeus) Boissier = *Sinapis alba* Linnaeus

*arvensis* (Linnaeus) Britton, Sterns, & Poggenburg = *Sinapis arvensis* Linnaeus

*campestris* Linnaeus = *Brassica rapa* Linnaeus

*hirta* Moench = *Sinapis alba* Linnaeus

\****juncea*** (Linnaeus) Cosson [M&H; W&S]

Chinese mustard

*Sinapis juncea* Linnaeus

*kaber* (A.P. de Candolle) L.C. Wheeler = *Sinapis arvensis* Linnaeus

\****napus*** Linnaeus [Allred 1999]

turnip

\****nigra*** (Linnaeus) Koch [Warwick 2010]

black mustard

*Sinapis nigra* Linnaeus

\****oleracea*** Linnaeus [FNM I]

*orientalis* Linnaeus = *Conringia orientalis* (Linnaeus) Dumortier

\****rapa*** Linnaeus [Huff 1996; M&H]

rape

*Brassica campestris* Linnaeus

\****tournefortii*** Gouan [McIntosh 1996]

Sahara mustard

*Bursa bursa-pastoris* (Linnaeus) Webber = *Capsella bursa-pastoris* (Linnaeus) Medikus

**Camelina** false-flax

Heil, K. 2007. Plant distribution reports. The New Mexico Botanist 38:7. [*Camelina rumelica*]

\****microcarpa*** Andrzejowski ex A.P. de Candolle [M&H; W&S]

\****rumelica*** Velenovsky [Heil 2007]

\**sativa* (Linnaeus) Crantz : Reported by M&H, but all specimens examined are referred to *Camelin microcarpa* Andrzejowski; recent reports from the Four Corners region are unverified.



- Capsella** shepherd's purse  
 \**bursa-pastoris* (Linnaeus) Medikus [M&H; W&S]  
*Bursa bursa-pastoris* (Linnaeus) Webber  
*Thlaspi bursa-pastoris* Linnaeus
- Cardamine** bitter-cress  
 Forbes, A. 1998. New plant distribution records. The New Mexico Botanist 8:10. [*Cardamine hirsuta*]  
 Hartman, R.L., B. Reif, B.E. Nelson, & B. Jacobs. 2006. New vascular plant records for New Mexico. Sida 22(2):1225-1233. [*Cardamine cordifolia incana*]  
 Heil, K.D., S.L. O'Kane, & A. Clifford. 2002. Additions to the flora of New Mexico from the San Juan Basin Flora project. The New Mexico Botanist 24:1-4. [*Cardamine pensylvanica*]  
 \**cordifolia* Gray [M&H; W&S]  
*Cardamine cordifolia* Gray var. *incana* Gray ex M.E. Jones  
*cordifolia* Gray var. *incana* Gray ex M.E. Jones = *Cardamine cordifolia* Gray  
 \**flexuosa* Withering [FNM I]  
*Cardamine hirsuta* Linnaeus subsp. *flexuosa* (Withering) Forbes & Hemsley  
 \**hirsuta* Linnaeus [Forbes 1998]  
*hirsuta* Linnaeus subsp. *flexuosa* (Withering) Forbes & Hemsley = *Cardamine flexuosa* Withering  
 \**pensylvanica* Muhlenberg ex Willdenow [Heil et al. 2002]
- Cardaria**  
 Al-Shehbaz, I.A., K. Mummenhoff, & O. Appel. 2002. *Cardaria*, *Coronopus*, and *Stroganowia* are united with *Lepidium* (Brassicaceae). Novon 12:5-11.  
*chalepensis* (Linnaeus) Handel-Mazzetti = *Lepidium chalepense* Linnaeus  
*draba* (Linnaeus) Desvaux = *Lepidium draba* Linnaeus  
*latifolia* (Linnaeus) Spach = *Lepidium latifolium* Linnaeus  
*pubescens* (C.A. Meyer) Jarmolenko = *Lepidium appelianum* Al-Shehbaz  
*Caulanthus lasiophyllus* (Hooker & Arnott) Payson = *Streptanthus lasiophyllus* (Hooker & Arnott) Hoover
- Cheiranthus asper** Nuttall = *Erysimum asperum* (Nuttall) A.P. de Candolle  
*aridus* A. Nelson = *Erysimum capitatum* (Douglas ex Hooker) Greene var. *purshii* (Durand) Rollins  
*aridus* Greene = *Erysimum capitatum* (Douglas ex Hooker) Greene var. *purshii* (Durand) Rollins  
*capitatus* Douglas ex Hooker = *Erysimum capitatum* (Douglas ex Hooker) Greene  
*longipetalus* Ventenat = *Matthiola longipetala* (Ventenat) A.P. de Candolle
- Cheirinia arida** (A. Nelson) Rydberg = *Erysimum capitatum* (Douglas ex Hooker) Greene var. *purshii* (Durand) Rollins  
*aspera* (Nuttall) Rydberg = *Erysimum asperum* (Nuttall) A.P. de Candolle  
*asperrima* (Greene) Rydberg = *Erysimum capitatum* (Douglas ex Hooker) Greene var. *purshii* (Durand) Rollins  
*bakeri* (Greene) Rydberg = *Erysimum capitatum* (Douglas ex Hooker) Greene var. *purshii* (Durand) Rollins  
*desertorum* Wooton & Standley = *Erysimum capitatum* (Douglas ex Hooker) Greene var. *purshii* (Durand) Rollins  
*elata* of NM reports = *Erysimum capitatum* (Douglas ex Hooker) Greene var. *purshii* (Durand) Rollins  
*inconspicua* (S. Watson) Rydberg = *Erysimum inconspicuum* (S. Watson) MacMillan  
*wheeleri* of NM reports = *Erysimum capitatum* (Douglas ex Hooker) Greene var. *purshii* (Durand) Rollins
- Chorispora** crossflower  
 \**tenella* (Pallas) A.P. de Candolle [M&H; Marley & Wagner 1981]  
*Raphanus tenella* Pallas
- Clypeola alyssoides* Linnaeus = *Alyssum alyssoides* (Linnaeus) Linnaeus  
*Cochlearia armoracia* Linnaeus = *Armoracia rusticana* P. Gaertner
- Conringia** rabbit-ears mustard  
 \**orientalis* (Linnaeus) C. Presl [M&H; W&S]  
*Brassica orientalis* Linnaeus  
*Coronopus didymus* (Linnaeus) I.E. Smith = *Lepidium didymum* Linnaeus

**Descurainia** tansy-mustard

Goodson, B.E. & I.A. Al-Shehbaz. 2010. *Descurainia*, p. 518-529. IN: Flora of North America, vol. 7. Oxford University Press, New York.

Goodson, B.E., S.K. Rehman, & R.K. Jansen. 2011. Molecular systematics and biogeography of *Descurainia* (Brassicaceae) based on nuclear ITS and non-coding chloroplast DNA. *Syst. Bot.* 36(4): 957-980.

Reif, B., J. Larson, B.R. Jacobs, B.E. Nelson, & R.L. Hartman. 2009. Floristic studies in north central New Mexico, U.S.A., the Tusa Mountains and the Jemez Mountains. *J. Bot. Res. Inst. Texas* 3(2):921-961. [*Descurainia incisa paysonii*]

**adenophora** (Wooton & Standley) O.E. Schulz [M&H; W&S]

*Descurainia obtusa* (Greene) O.E. Schultz subsp. *adenophora* (Wooton & Standley) Detling

*Sophia adenophora* Wooton & Standley

*andrenarum* (Cockerell) Shinnars = *Descurainia pinnata* (Walter) Britton subsp. *ochroleuca* (Wooton) Detling

**brevisiliqua** (Detling) Al-Shehbaz & Goodson [Goodson & Shehbaz 2010]

*Descurainia obtusa* (Greene) O.E. Schultz subsp. *brevisiliqua* Detling

**californica** (Gray) O. E. Schulz [Goodson & Shehbaz 2010; M&H]

*Smelowskia californica* Gray

**incana** (Bernhardi ex Fischer & Meyer) Dorn [Goodson & Shehbaz 2010; M&H; W&S]

*Descurainia richardsonii* (Sweet) O.E. Schulz subsp. *procera* (Greene) Detling

*Sisymbrium incanum* Bernhardi ex Fischer & Meyer

*Sophia procera* Greene

*incisa* (Engelmann ex A. Gray) Britton subsp. *filipes* (A. Gray) Rollins = *Descurainia longepedicellata* (Fournier) O.E. Schulz

**incisa** (Engelmann ex A. Gray) Britton subsp. **incisa** [M&H; Rollins 1993; W&S]

*Descurainia incisa* (Engelmann ex A. Gray) Britton subsp. *viscosa* (Rydberg) Rollins

*Descurainia richardsonii* (Sweet) O.E. Schulz subsp. *incisa* (Engelmann ex A. Gray) Detling

*Descurainia richardsonii* (Sweet) O.E. Schulz var. *sonnei* (B.L. Robinson) C.L. Hitchcock

*Sisymbrium incisum* Engelmann ex A. Gray

*Sophia incisa* (Engelmann ex A. Gray) Greene

*Sophia serrata* Greene

**incisa** (Engelmann ex A. Gray) Britton subsp. **paysonii** (Detling) Rollins [Goodson & Shehbaz 2010; M&H; Reif et al. 2009]

*Descurainia pinnata* (Walter) Britton subsp. *paysonii* Detling

*incisa* (Engelmann ex A. Gray) Britton subsp. *viscosa* (Rydberg) Rollins = *Descurainia incisa* (Engelmann ex A. Gray) Britton subsp. *incisa*

*Descurainia richardsonii* (Sweet) O.E. Schulz subsp. *viscosa* (Rydberg) Detling

*Sophia viscosa* Rydberg

*intermedia* (Rydberg) Daniels = *Descurainia pinnata* (Walter) Britton subsp. *brachycarpa* (Richardson) Detling

**longepedicellata** (Fournier) O.E. Schulz [Rollins 1993]

*Descurainia incisa* (Engelmann ex A. Gray) Britton subsp. *filipes* (A. Gray) Rollins

*Sisymbrium incisum* Engelmann ex A. Gray var. *filipes* A. Gray

*Sisymbrium longepedicellatum* Fournier

*obtusa* (Greene) O.E. Schultz subsp. *adenophora* (Wooton & Standley) Detling = *Descurainia adenophora* (Wooton & Standley) O.E. Schulz

*obtusa* (Greene) O.E. Schultz subsp. *brevisiliqua* Detling = *Descurainia brevisiliqua* (Detling) Al-Shehbaz & Goodson

**obtusa** (Greene) O. E. Schulz [Goodson & Shehbaz 2010; M&H; W&S]

*Sophia obtusa* Greene

*pinnata* (Walter) Britton subsp. *brachycarpa* (Richardson) Detling : Reported by M&H, but no specimens have been located from NM; awaits verification.

*Descurainia intermedia* (Rydberg) Daniels

*Sisymbrium brachycarpum* Richardson

*Sophia intermedia* Rydberg

**pinnata** (Walter) Britton subsp. **glabra** (Wooton & Standley) Detling [M&H; W&S]

*Sophia glabra* Wooton & Standley

*pinnata* (Walter) Britton subsp. *halictorum* (Cockerell) Detling = *Descurainia pinnata* (Walter) Britton subsp. *ochroleuca* (Wooton) Detling

*pinnata* (Walter) Britton subsp. *intermedia* (Rydberg) C.L. Hitchcock = *Descurainia pinnata* (Walter) Britton subsp. *brachycarpa* (Richardson) Detling

**pinnata** (Walter) Britton subsp. **ochroleuca** (Wooton) Detling [M&H; W&S]

*Descurainia andrenarum* (Cockerell) Cory

*Descurainia andrenarum* (Cockerell) Cory var. *osmiarum* (Cockerell) O.E. Schulz

*Descurainia pinnata* (Walter) Britton subsp. *halictorum* (Cockerell) Detling

*Descurainia pinnata* (Walter) Britton var. *osmiarum* (Cockerell) Shinnars

*Sophia halictorum* Cockerell

*Sophia ochroleuca* Wooton

*pinnata* (Walter) Britton var. *osmiarum* (Cockerell) Shinnars = *Descurainia pinnata*

(Walter) Britton subsp. *ochroleuca* (Wooton) Detling

*pinnata* (Walter) Britton subsp. *paysonii* Detling = *Descurainia incisa* (Engelmann ex A. Gray) Britton subsp. *paysonii* (Detling) Rollins

*richardsonii* (Sweet) O.E. Schulz subsp. *incisa* (Engelmann) Detling = *Descurainia incisa* (Engelmann ex A. Gray) Britton subsp. *incisa*

*richardsonii* (Sweet) O.E. Schulz subsp. *procera* (Greene) Detling = *Descurainia incana* (Bernhardi ex Fischer & Meyer) Dorn

*richardsonii* (Sweet) O.E. Schulz var. *sonnei* (B.L. Robinson) C.L. Hitchcock = *Descurainia incisa* (Engelmann ex Gray) Britton subsp. *incisa*

*richardsonii* (Sweet) O.E. Schulz subsp. *viscosa* (Rydberg) Detling = *Descurainia incisa* (Engelmann ex A. Gray) Britton subsp. *incisa*

\***sophia** (Linnaeus) Webb ex Prantl [Goodson & Shehbaz 2010] M&H]

flixweed

*Sisymbrium sophia* Linnaeus

**Dimorphocarpa** spectacle-pod

Rollins, R.C. 1979. *Dithyrea* and a related genus (Cruciferae). The Bussey Institute of Harvard University. pp. 1-32.

*candicans* (Rafinesque) Rollins = *Dimorphocarpa wislizeni* (Engelmann) Rollins

*palmeri* (Payson) Rollins = *Dimorphocarpa wislizeni* (Engelmann) Rollins

**wislizeni** (Engelmann) Rollins [M&H; Rollins 1979, 1993; W&S]

*Dimorphocarpa candicans* (Rafinesque) Rollins

*Dimorphocarpa palmeri* (Payson) Rollins

*Dithyrea griffithsii* Wooton & Standley

*Dithyrea wislizeni* Engelmann

*Dithyrea wislizeni* Engelmann var. *griffithsii* (Wooton & Standley) Payson

*Dithyrea wislizeni* Engelmann var. *palmeri* Payson

**Diplotaxis** wall-rocket

Marley, G.A. & W.L. Wagner. 1981. Noteworthy collections (New Mexico). *Madroño* 28:41-43.

[*Diplotaxis muralis*]

Spellenberg, R., R. Worthington, P. Knight, and R. Fletcher. 1986. Additions to the flora of New Mexico. *Sida* 11(4):455-470. [*Diplotaxis tenuifolius*]

\***muralis** (Linnaeus) A.P. de Candolle [Marley & Wagner 1981]

*Sisymbrium murale* Linnaeus

\***tenuifolia** (Linnaeus) A.P. de Candolle [Spellenberg et al. 1986]

*Sisymbrium tenuifolium* Linnaeus

*Disaccanthus luteus* Greene = *Streptanthus carinatus* Wright ex Gray subsp. *arizonicus* (S. Watson) Kruckeberg, Rodman, & Worthington

*mogollonicus* Greene = *Streptanthus carinatus* Wright ex Gray subsp. *arizonicus* (S. Watson) Kruckeberg, Rodman, & Worthington

*validus* Greene = *Streptanthus carinatus* Wright ex Gray subsp. *carinatus*

*Dithyrea griffithsii* Wooton & Standley = *Dimorphocarpa wislizeni* (Engelmann) Rollins

*wislizeni* Engelmann = *Dimorphocarpa wislizeni* (Engelmann) Rollins

*wislizeni* Engelmann var. *griffithsii* (Wooton & Standley) Payson = *Dimorphocarpa wislizeni* (Engelmann) Rollins

**Draba** whitlow-grass

- Al-Shehbaz, I.A. 2009. Two new North American species of *Draba* (Brassicaceae): *D. heilii* from New Mexico and *D. mulliganii* from Alaska. *Harvard Papers in Botany* 14(1):83-86. [*Draba heilii*]
- Al-Shehbaz, I.A. 2013. *Draba henrici* (Brassicaceae), a new species from northern New Mexico. *Harvard Papers in Botany* 18(1): 91-93. [*Draba henrici*]
- Al-Shehbaz, I.A. & M.D. Windham. 2007. New or noteworthy North American *Draba* (Brassicaceae). *Harvard Papers in Botany* 12(2): 409-419. [*Draba abajoensis*, *D. spectabilis*]
- Al-Shehbaz, I.A., M.D. Windham, & R. Elven. 2010. *Draba*, p. 269-347. IN: *Flora of North America*, vol. 7. Oxford University Press, New York. [*Draba crassa*]
- Hartman, R.L., B. Reif, B.E. Nelson, & B. Jacobs. 2006. New vascular plant records for New Mexico. *Sida* 22(2):1225-1233. [*Draba grayana*]
- Heil, K. 2007. Plant distribution reports. *The New Mexico Botanist* 38:7. [*Draba albertina*]
- Heil, K.D. 2009. Plant distribution reports [*Draba smithii*]. *The New Mexico Botanist* 46:7.
- Legler, B.S. 2010. Additions to the vascular flora of New Mexico. *J. Bot. Res. Inst. Texas* 4(2):777-784. [*Draba streptobrachia*]
- Peterson, R.S. 2000. New plant distribution records. *The New Mexico Botanist* 15:7. [*Draba spectabilis*]
- abajoensis** Windham & Al-Shehbaz [Al-Shehbaz et al. 2010]  
*Draba spectabilis* Greene var. *glabrescens* O.E. Schulz
- albertina** Greene [Heil 2007]
- aurea** Vahl ex Hornemann [M&H]  
*Draba aurea* Vahl ex Hornemann var. *leiocarpa* (Payson & St. John) C.L. Hitchcock  
*Draba leiocarpa* Payson & St. John
- aurea* Vahl ex Hornemann var. *leiocarpa* (Payson & St. John) C.L. Hitchcock = *Draba aurea* Vahl ex Hornemann
- aurea* Vahl var. *neomexicana* (Greene) Tidestrom = *Draba helleriana* Greene
- aurea* Vahl var. *stylosa* A. Gray = *Draba helleriana* Greene
- brachycarpa* Nuttall : Reported as expected by M&H; awaits verification.
- breweri* S. Watson var. *cana* (Rydberg) Rollins = *Draba cana* Rydberg
- cana** Rydberg [M&H; W&S]  
*Draba breweri* S. Watson var. *cana* (Rydberg) Rollins  
*Draba lanceolata* of North American authors, not Royle
- coloradensis* Rydberg = *Tomostima reptans* (Lamarck) Al-Shehbaz, Koch, & Jordon-Thaden
- crassa** Rydberg [Al-Shehbaz et al. 2010]
- crassifolia** Graham [M&H]
- cuneifolia* Nuttall ex Torrey & Gray = *Tomostima cuneifolia* (Nuttall ex Torrey & Gray) Al-Shehbaz, Koch, & Jordon-Thaden
- cuneifolia* Nuttall var. *platycarpa* (Torrey & Gray) S. Watson (= *Draba platycarpa* Torrey & Gray) : Reported as expected by M&H map; awaits verification.
- gilgiana* Wootton & Standley = *Draba standleyi* Macbride & Payson
- grayana** (Rydberg) C.L. Hitchcock [Hartman et al. 2006]  
*Draba streptocarpa* var. *grayana* Rydberg
- +**heilii** Al-Shehbaz [Al-Shehbaz 2009]
- helleriana* Greene var. *blumeri* C.L. Hitchcock = *Draba petrophila* Greene
- helleriana** Greene [Al-Shehbaz et al. 2010; M&H; W&S]  
*Draba aurea* Vahl var. *neomexicana* (Greene) Tidestrom  
*Draba aurea* Vahl var. *stylosa* A. Gray  
*Draba helleriana* Greene var. *leiocarpa* O.E. Schulz  
*Draba helleriana* Greene var. *neomexicana* (Greene) O.E. Schulz  
*Draba helleriana* Greene var. *patens* (Heller) O.E. Schulz  
*Draba helleriana* Greene var. *pinetorum* (Greene) O. E. Schulz  
*Draba neomexicana* Greene  
*Draba neomexicana* Greene var. *robusta* Heller  
*Draba pallida* Heller  
*Draba patens* Heller  
*Draba pinetorum* Greene
- helleriana* Greene var. *leiocarpa* O.E. Schulz = *Draba helleriana* Greene
- helleriana* Greene var. *neomexicana* (Greene) O.E. Schulz
- helleriana* Greene var. *patens* (Heller) O.E. Schulz = *Draba helleriana* Greene
- helleriana* Greene var. *pinetorum* (Greene) O. E. Schulz = *Draba helleriana* Greene

- henrici** Al-Shehbaz [Al-Shehbaz 2013]  
*lanceolata* of North American authors, not Royle = *Draba cana* Rydberg  
*leiocarpa* Payson & St. John = *Draba aurea* Vahl ex Hornemann  
*micrantha* Nuttall = *Tomostima reptans* (Lamarck) Al-Shehbaz, Koch, & Jordon-Thaden
- mogollonica** Greene [M&H; W&S]  
*montana* S. Watson = *Draba rectifruca* C.L. Hitchcock  
*neomexicana* Greene = *Draba helleriana* Greene  
*neomexicana* Greene var. *robusta* Heller = *Draba helleriana* Greene  
*pallida* Heller = *Draba helleriana* Greene  
*patens* Heller = *Draba helleriana* Greene  
*petrophila* Greene : Reported by M&H and W&S, but our plants belong to other species, generally *Draba helleriana* Greene  
*Draba helleriana* Greene var. *blumeri* C.L. Hitchcock  
*pinetorum* Greene = *Draba helleriana* Greene
- rectifruca** C.L. Hitchcock [M&H; W&S]  
*Draba montana* S. Watson (1878, not Bergeret 1786)  
*reptans* (Lamarck) Fernald = *Tomostima reptans* (Lamarck) Al-Shehbaz, Koch, & Jordon-Thaden  
*reptans* (Lamarck) Fernald forma *micrantha* (Nuttall) C.L. Hitchcock = *Tomostima reptans* (Lamarck) Al-Shehbaz, Koch, & Jordon-Thaden
- smithii** Gilg ex O.E. Schulz [Heil 2009]
- spectabilis** Greene [Al-Shehbaz & Windham 2007; Peterson 2000]  
*spectabilis* Greene var. *dasycarpa* (O.E. Schulz) C.L. Hitchcock = *Draba streptobrachia* R.A. Price  
*spectabilis* Greene var. *glabrescens* O.E. Schulz = *Draba abajoensis* Windham & Al-Shehbaz
- standleyi** Macbride & Payson [M&H; W&S]  
*Draba gilgiana* Wooton & Standley
- streptobrachia** R.A. Price [Legler 2010]  
*Draba spectabilis* Greene var. *dasycarpa* (O.E. Schulz) C.L. Hitchcock (not *D. dasycarpa* Bernhardt 1800)
- streptocarpa** Gray [M&H; W&S]  
*Draba streptocarpa* Gray var. *tonsa* (Wooton & Standley) O.E. Schulz  
*Draba tonsa* Wooton & Standley  
*streptocarpa* var. *grayana* Rydberg = *Draba grayana* (Rydberg) C.L. Hitchcock  
*streptocarpa* Gray var. *tonsa* (Wooton & Standley) O.E. Schulz = *Draba streptocarpa* Gray  
*tonsa* Wooton & Standley = *Draba streptocarpa* Gray
- Dryopetalon** rock-mustard
- runcinatum** Gray [M&H; W&S]
- Eruca** garden-rocket  
 Warwick, S.I. 2010. *Eruca*, pp. 434-435. IN: Flora of North America, vol. 7. Oxford University Press, New York.  
*eruca* (Linnaeus) Britton = *Eruca vesicaria* (Linnaeus) Cavanilles subsp. *sativa* (Miller) Thellung  
*sativa* Miller = *Eruca vesicaria* (Linnaeus) Cavanilles subsp. *sativa* (Miller) Thellung  
 \**vesicaria* (Linnaeus) Cavanilles subsp. *sativa* (Miller) Thellung [M&H; W&S]  
*Eruca eruca* (Linnaeus) Britton  
*Eruca sativa* Miller
- Erucastrum pollichii* Schimper & Spenner [= *Erucastrum gallicum* (Willdenow) O.E. Schulz] :  
 Reported by Campbell & Little (1935), but the identification is corrected to *Thelypodium wrightii* Gray.
- Erysimum** wallflower  
 Al-Shehbaz, I.A. 2010. *Erysimum*, pp. 534-545. IN: Flora of North America North of Mexico, vol. 7.  
 Price, R.A. 1987. Systematics of the *Erysimum capitatum* alliance (Brassicaceae) in North America. Ph.D. dissertation. University of California, Berkeley.  
 Rossbach, G.B. 1958. The genus *Erysimum* (Cruciferae) in North America north of Mexico – A key to the species and varieties. Madroño 14: 261-267.  
*aperrimum* (Greene) Rydberg = *Erysimum captiatum* (Douglas ex Hooker) Greene var. *purshii* (Durand) Rollins  
*asperum* (Nuttall) A.P. de Candolle [M&H; W&S]

- Cheiranthus asper* Nuttall  
*Cheirinia aspera* (Nuttall) Rydberg  
*asperum* (Nuttall) A.P. de Candolle var. *inconspicuum* S. Watson = *Erysimum*  
*inconspicuum* (S. Watson) MacMillan  
*bakeri* Rydberg = *Erysimum capitatum* (Douglas ex Hooker) Greene var. *purshii* (Durand)  
Rollins  
*capitatum* (Douglas ex Hooker) Greene var. *purshii* (Durand) Rollins [M&H;  
W&S]  
*Cheiranthus aridus* Greene  
*Cheirinia arida* Greene  
*Cheirinia asperrima* (Greene) Rydberg  
*Cheirinia bakeri* (Greene) Rydberg  
*Cheirinia desertorum* Wooton & Standley  
*Erysimum asperrimum* (Greene) Rydberg  
*Erysimum bakeri* Rydberg  
*Erysimum capitatum* (Douglas ex Hooker) Greene var. *argillosum* (Greene) R.J.  
Davis  
*Erysimum capitatum* (Douglas ex Hooker) Greene var. *nivale* (Greene) N.H.  
Holmgren  
*Erysimum desertorum* (Wooton & Standley) Rossbach  
*Erysimum wheeleri* of NM reports  
\**cheiranthoides* Linnaeus [FNM I]  
*desertorum* (Wooton & Standley) Rossbach = *Erysimum capitatum* (Douglas ex Hooker)  
Greene var. *purshii* (Durand) Rollins  
*elatum* of NM reports = *Erysimum capitatum* (Douglas ex Hooker) Greene var. *purshii*  
(Durand) Rollins  
*inconspicuum* (S. Watson) MacMillan [M&H; W&S]  
*Cheirinia inconspicua* (S. Watson) Rydberg  
*Erysimum asperum* (Nuttall) A.P. de Candolle var. *inconspicuum* S. Watson  
*Erysimum parviflorum* Nuttall  
*parviflorum* Nuttall = *Erysimum inconspicuum* (S. Watson) MacMillan  
\**repandum* Linnaeus [M&H]  
*wheeleri* of NM reports = *Erysimum capitatum* (Douglas ex Hooker) Greene var. *purshii*  
(Durand) Rollins  
*Euklisia crassifolia* (Greene) Rydberg = *Streptanthus cordatus* Nuttall  
*longirostris* (S. Watson) Rydberg = *Streptanthus longirostris* (S. Watson) S. Watson  
*valida* (Greene) Wooton & Standley = *Streptanthus carinatus* C. Wright ex A. Gray subsp.  
*carinatus*  
*Greggia camporum* Gray = *Nerisyrenia camporum* (Gray) Greene  
*camporum* Gray var. *linearifolium* (S. Watson) M.E. Jones = *Nerisyrenia linearifolia* (S.  
Watson) Greene  
*linearifolia* S. Watson = *Nerisyrenia linearifolia* (S. Watson) Greene  
**Halimolobos** halimolobos  
Bailey, C.D., I.A. Al-Shehbaz, & G. Rajanikanth. 2007. Generic limits in the tribe Halimolobeae and the  
description of the new genus *Exhalimolobos* (Brassicaceae). Syst. Bot. 32: 140-156.  
*diffusa* (Gray) O.E. Schulz [M&H; W&S]  
*Sisymbrium diffusum* Gray  
**Hesperidanthus** plains-mustard  
Al-Shehbaz, I.A. 2005. *Hesperidanthus* (Brassicaceae) revisited. Harvard Pap. Bot. 10: 47-51.  
Rollins, R.C. 1982. *Thelypodopsis* and *Schoenocrambe* (Cruciferae). Contr. Gray Herb. 212:71-102.  
Warwick, S.L., A. Al-Shehbaz, R.A. Price, & C. Sauder. 2002. Phylogeny of *Sisymbrium* (Brassicaceae)  
based on ITS sequences of nuclear ribosomal DNA. Can. J. Bot. 80:1002-1017.  
*linearifolius* (Gray) Rydberg [M&H; Rollins 1982; W&S]  
*Schoenocrambe linearifolia* (Gray) Rollins  
*Sisymbrium linearifolium* (Gray) Payson  
*Streptanthus linearifolius* Gray  
*Thelypodopsis linearifolia* (Gray) Al-Shehbaz  
*Thelypodium linearifolium* (Gray) S. Watson

**Hesperis** rocket

Cox, G.W. & R.S. Peterson. 2000. New plant distribution records. The New Mexico Botanist 15:7. [*Hesperis matronalis*]

*africana* Linnaeus = *Strigosella africana* (Linnaeus) Botschantzev

\**matronalis* Linnaeus [Cox & Peterson 2000]

*Heterothrix longifolia* (Benth) Rydberg = *Pennellia longifolia* (Benth) Rollins

*micrantha* (Gray) Rydberg = *Pennellia micrantha* (Gray) Niewl.

**Hornungia** hornungia

Appel, O. & I.A. Al-Shehbaz. 1997. Generic limits and taxonomy of *Hornungia*, *Pritzelago*, and *Hymenolobus* (Brassicaceae). Novon 7:338-340.

Heil, K. 2004. Plant distribution reports. The New Mexico Botanist 31:2. [*Hutchinsia procumbens*]

\**procumbens* (Linnaeus) Hayek [Heil 2004]

*Hutchinsia procumbens* (Linnaeus) Desvoux

*Lepidium procumbens* Linnaeus

*Hutchinsia procumbens* (Linnaeus) Desvoux = *Hornungia procumbens* (Linnaeus) Hayek

**Iberis** candytuft

Allred, K.W. 1999. New plant distribution records. The New Mexico Botanist 13:7. [*Iberis umbellata*]

\**umbellata* Linnaeus [Allred 1999]

**Isatis** woad

Allred, K.W. 1996. New plant distribution records. The New Mexico Botanist 4:6. [*Isatis tinctoria*]

\**tinctoria* Linnaeus [Allred 1996]

dyer's woad

*Lamprophragma longifolium* (S. Watson) O. E. Schulz = *Pennellia longifolia* (Benth) Rollins

**Lepidium** pepperweed, hoary cress

Allred, K.W. 1999. New plant distribution records. The New Mexico Botanist 13:7. [*Lepidium latifolium*]

Al-Shehbaz, I.A. 1986. The genera of Lepidieae (Cruciferae; Brassicaceae) in the southeastern United States. J. Arnold Arboretum 67:265-311. [*Lepidium austrinum*]

Al-Shehbaz, I.A. & J.F. Gaskin. 2010. *Lepidium*, p. 570-595. IN: Flora of North America, vol. 7. Oxford University Press, New York.

Al-Shehbaz, I.A., K. Mummenhoff, & O. Appel. 2002. *Cardaria*, *Coronopus*, and *Stroganowia* are united with *Lepidium* (Brassicaceae). Novon 12:5-11.

Atwood, N.D. & S.L. Welsh. 2007. New taxa of *Camissonia* (Onagraceae); *Erigeron*, *Hymenoxys*, and *Tetradymia* (Compositae); *Lepidium* and *Physaria* (Cruciferae) from Arizona, New Mexico, and Utah. Rhodora 109 (940):395-414. [*Lepidium montanum todiltoensis*]

Bleakly, D. 2003. Plant distribution reports. The New Mexico Botanist 25:7. [*Lepidium appelianum*]  
Great Plains Flora Association. 1977. Atlas of the Flora of the Great Plains. Iowa State Univ. Press. 600 pp. [*Lepidium campestre*]

Hartman, R.L. 2003. Preliminary checklist of the vascular plants of Valles Caldera National Preserve, New Mexico. Distributed by the author <rhartman@uwoyo.edu>. [*Lepidium ramosissimum bourgeauanum*]

Hartman, R.L., B. Reif, B.E. Nelson, & B. Jacobs. 2006. New vascular plant records for New Mexico. Sida 22(2):1225-1233. [*Lepidium ramosissimum bourgeauanum*]

Heil, K.D., S.L. O'Kane, & A. Clifford. 2002. Additions to the flora of New Mexico from the San Juan Basin Flora project. The New Mexico Botanist 24:1-4. [*Lepidium montanum montanum*]

Hitchcock, C.L. 1936. The genus *Lepidium* in the United States. Madroño 3:265-320.

Mulligan, G.A. & J.N. Findlay. 1974. The biology of Canadian weeds. 3. *Cardaria draba*, *C. chalapensis*, and *C. pubescens*. Canadian Journal of Plant Science 54(1):149-160.

Sivinski, R.C., T. Lowrey and R. Peterson. 1994. Additions to the native and adventive flora of New Mexico. Phytologia 76(6):473-479. [*Lepidium chalapense*]

Spellenberg, R., L. McIntosh, and L. Brouillet. 1993. New records of angiosperms from southern New Mexico. Phytologia 75:224-230. [*Lepidium didymum*]

Strahan, R. 2007. Plant distribution reports. The New Mexico Botanist 40:16. [*Lepidium sordidum*]

Wagner, W.L. 1983. Noteworthy collections (New Mexico). Madroño 30:126. [*Lepidium oblongum*]

*alyssoides* Gray [M&H; Rollins 1993; W&S]

*Lepidium montanum* Nuttall var. *alyssoides* (Gray) M.E. Jones

*Lepidium montanum* Nuttall var. *angustifolium* C.L. Hitchcock

*alyssoides* Gray var. *angustifolium* (C.L. Hitchcock) Rollins = *Lepidium alyssoides* Gray

*alyssoides* Gray var. *eastwoodiae* (Wooton) Rollins = *Lepidium eastwoodiae* Wooton

\**appelianum* Al-Shehbaz [Bleakly 2003]

hoary-cress

*Cardaria pubescens* (C.A. Meyer) Jarmolenko

*petalum* Willdenow = *Lepidium densiflorum* Schrader

*austrinum* Small [Al-Shehbaz 1986]

- bourgeauanum* Thellung = *Lepidium ramosissimum* A. Nelson  
**\*campestre** (Linnaeus) R. Brown [Great Plains Flora Assoc. 1977]  
*Thlaspi campestre* Linnaeus  
**\*chalepense** Linnaeus [Sivinski et al. 1994]  
 hoary-cress  
*Cardaria chalepensis* (Linnaeus) Handel-Mazzetti  
**crenatum** (Greene) Rydberg [Rollins 1993]  
*Lepidium montanum* Nuttall var. *spathulatum* (Vasey ex Robinson) C.L. Hitchcock  
*Lepidium vasayanum* Thellung  
*Thelypodium crenatum* Greene  
*densiflorum* Schrader var. *bourgeauanum* (Thellung) Hitchcock = *Lepidium ramosissimum* A. Nelson  
**densiflorum** Schrader [M&H; W&S]  
*Lepidium apetalum* Linnaeus  
*Lepidium densiflorum* Schrader var. *macrocarpum* G.A. Mulligan  
*Lepidium ramosum* A. Nelson  
*densiflorum* Schrader var. *macrocarpum* G.A. Mulligan = *Lepidium densiflorum* Schrader  
*densiflorum* Schrader var. *ramosum* (A. Nelson) Thellung = *Lepidium densiflorum* Schrader  
**\*didymum** Linnaeus [Spellenberg et al. 1993]  
*Coronopus didymus* (Linnaeus) I.E. Smith  
**\*draba** Linnaeus [M&H; W&S]  
 hoary-cress  
*Cardaria draba* (Linnaeus) Desvaux  
**eastwoodiae** Wooton [M&H; W&S]  
*Lepidium alyssoides* Gray var. *eastwoodiae* (Wooton) Rollins  
*Lepidium montanum* Nuttall var. *eastwoodiae* (Wooton) C.L. Hitchcock  
*glaucum* Greene = *Lepidium virginicum* Linnaeus var. *menziesii* (A.P. de Candolle) Thellung  
*hirsutum* Rydberg = *Lepidium virginicum* Linnaeus var. *menziesii* (A.P. de Candolle) Thellung  
*intermedium* Gray = *Lepidium virginicum* Linnaeus var. *menziesii* (A.P. de Candolle) Thellung  
*intermedium* Gray var. *pubescens* Greene = *Lepidium virginicum* Linnaeus var. *menziesii* (A.P. de Candolle) Thellung  
*jonesii* Rydberg = *Lepidium montanum* Nuttall  
**lasiocarpum** Nuttall ex Torrey & Gray var. **lasiocarpum** [Al-Shehbaz & Gaskin 2010]  
*lasiocarpum* Nuttall var. *rotundum* C.L. Hitchcock = *Lepidium lasiocarpum* Nuttall ex Torrey & Gray var. *wrightii* (Gray) C.L. Hitchcock  
**lasiocarpum** Nuttall ex Torrey & Gray var. **wrightii** (Gray) C.L. Hitchcock [M&H; Rollins 1993; W&S]  
*Lepidium lasiocarpum* Nuttall var. *rotundum* C.L. Hitchcock  
*Lepidium wrightii* Gray  
**\*latifolium** Linnaeus [Allred 1999]  
 perennial pepperweed  
*Cardaria latifolia* (Linnaeus) Spach  
*medium* Greene var. *medium* = *Lepidium virginicum* Linnaeus var. *menziesii* (A.P. de Candolle) Thellung  
*medium* Greene var. *pubescens* (Greene) Robinson = *Lepidium virginicum* Linnaeus var. *menziesii* (A.P. de Candolle) Thellung  
*montanum* Nuttall var. *alyssoides* (Gray) M.E. Jones = *Lepidium alyssoides* Gray  
*montanum* Nuttall var. *angustifolium* C.L. Hitchcock = *Lepidium alyssoides* Gray  
*montanum* Nuttall var. *canescens* (Thellung) C.L. Hitchcock = *Lepidium montanum* Nuttall  
*montanum* Nuttall var. *eastwoodiae* (Wooton) C.L. Hitchcock = *Lepidium eastwoodiae* Wooton  
*montanum* Nuttall var. *jonesii* (Rydberg) C.L. Hitchcock = *Lepidium montanum* Nuttall  
**montanum** Nuttall [Al-Shehbaz & Gaskin 2010; Heil et al. 2002]  
*Lepidium jonesii* Rydberg



- Lepidium montanum* Nuttall var. *canescens* (Thellung) C.L. Hitchcock  
*Lepidium montanum* Nuttall var. *jonesii* (Rydberg) C.L. Hitchcock  
*Lepidium montanum* Nuttall var. *todiltoensis* Atwood & Welsh  
*montanum* Nuttall var. *spathulatum* (Vasey ex Robinson) C.L. Hitchcock = *Lepidium crenatum* (Greene) Rydberg  
*montanum* Nuttall var. *todiltoensis* Atwood & Welsh = *Lepidium montanum* Nuttall  
***oblongum*** Small [M&H; Wagner 1983]  
**\**perfoliatum*** Linnaeus [M&H]  
*procumbens* Linnaeus = *Hornungia procumbens* (Linnaeus) Hayek  
*ramosissimum* A. Nelson var. *bourgeauanum* (Thellung) Rollins = *Lepidium ramosissimum* A. Nelson  
***ramosissimum*** A. Nelson [Al-Shehbaz & Gaskin 2010; Hartman 2003; Rollins 1993]  
*Lepidium bourgeauanum* Thellung  
*Lepidium densiflorum* Schrader var. *bourgeauanum* (Thellung) Hitchcock  
*ramosum* A. Nelson = *Lepidium densiflorum* Schrader  
**\**ruderales*** Linnaeus [Al-Shehbaz & Gaskin 2010]  
***sordidum*** A. Gray [Strahan 2007]  
***thurberi*** Wootton [M&H; W&S]  
*vaseyanum* Thellung = *Lepidium crenatum* (Greene) Rydberg  
***virginicum*** Linnaeus var. ***virginicum*** [Al-Shehbaz & Gaskin 2010]  
***virginicum*** Linnaeus var. ***menziesii*** (A.P. de Candolle) Thellung [M&H; W&S]  
*Lepidium glaucum* Greene  
*Lepidium hirsutum* Rydberg  
*Lepidium intermedium* Gray  
*Lepidium intermedium* Gray var. *pubescens* Greene  
*Lepidium medium* Greene  
*Lepidium medium* Greene var. *pubescens* (Greene) Robinson  
*virginicum* Linnaeus var. *medium* (Greene) Hitchcock = *Lepidium virginicum* Linnaeus var. *menziesii* (A.P. de Candolle) Thellung  
*virginicum* Linnaeus var. *pubescens* (Greene) Thellung = *Lepidium virginicum* Linnaeus var. *menziesii* (A.P. de Candolle) Thellung  
*wrightii* Gray = *Lepidium lasiocarpum* Nuttall ex Torrey & Gray var. *wrightii* (Gray) C.L. Hitchcock

*Lesquerella*

- Al-Shehbaz, I.A. & S.L. O'Kane. 2002. *Lesquerella* is united with *Physaria* (Brassicaceae). *Novon* 12:319-329.
- alpina* (Nuttall) S. Watson var. *intermedia* S. Watson = *Physaria intermedia* (S. Watson) O'Kane & Al-Shehbaz  
*aurea* Wootton = *Physaria aurea* (Wootton) O'Kane & Al-Shehbaz  
*calvicola* Rollins = *Physaria calvicola* (Rollins) O'Kane & Al-Shehbaz  
*fendleri* (Gray) S. Watson = *Physaria fendleri* (Gray) O'Kane & Al-Shehbaz  
*goodingii* Rollins & Shaw = *Physaria goodingii* (Rollins & Shaw) O'Kane & Al-Shehbaz  
*gordonii* (A. Gray) S. Watson var. *densifolia* Rollins = *Physaria gordonii* (A. Gray) O'Kane & Al-Shehbaz  
*gordonii* (Gray) S. Watson var. *gordonii* = *Physaria gordonii* (A. Gray) O'Kane & Al-Shehbaz  
*gordonii* (Gray) S. Watson var. *sessilis* S. Watson [= *Lesquerella tenella* A. Nelson] : Reported as expected by M&H; awaits verification.  
*intermedia* (S. Watson) Heller = *Physaria intermedia* (S. Watson) O'Kane & Al-Shehbaz  
*lata* Wootton & Standley = *Physaria pinetorum* (Wootton & Standley) O'Kane & Al-Shehbaz  
*ludoviciana* (Nuttall) S. Watson = *Physaria ludoviciana* (Nuttall) O'Kane & Al-Shehbaz  
*montana* (Gray) S. Watson = *Physaria montana* (Gray) E.L. Greene  
*montana* (Gray) S. Watson var. *suffruticosa* Payson = *Physaria montana* (Gray) E.L. Greene  
*navajoensis* O'Kane = *Physaria navajoensis* (O'Kane) O'Kane & Al-Shehbaz  
*ovalifolia* Rydberg = *Physaria ovalifolia* (Rydberg) O'Kane & Al-Shehbaz  
*pinetorum* Wootton & Standley = *Physaria pinetorum* (Wootton & Standley) O'Kane & Al-Shehbaz  
*praecox* Wootton & Standley = *Physaria fendleri* (Gray) O'Kane & Al-Shehbaz  
*pruinosa* Greene = *Physaria pruinosa* (Greene) O'Kane & Al-Shehbaz

*purpurea* (Gray) S. Watson = *Physaria purpurea* (Gray) O'Kane & Al-Shehbaz  
*rectipes* Wooton & Standley = *Physaria rectipes* (Wooton & Standley) O'Kane & Al-Shehbaz  
*valida* Greene = *Physaria valida* (Greene) O'Kane & Al-Shehbaz

**Lobularia** sweet-alyssum

Allred, K.W. 1999. New plant distribution records. The New Mexico Botanist 13:7. [*Lobularia maritima*]

\**maritima* (Linnaeus) Desvoux [Allred 1999]

*Alyssum maritimum* Linnaeus

*Malcolmia africana* (Linnaeus) R. Brown = *Strigosella africana* (Linnaeus) Botschantzev

**Matthiola** stock

Allred, K.W. 1999. New plant distribution records. The New Mexico Botanist 13:7. [*Matthiola longipetala*]  
*bicornis* (Sibthorp & Smith) A.P. de Candolle = *Matthiola longipetala* (Ventenat) A.P. de Candolle

\**longipetala* (Ventenat) A.P. de Candolle [Allred 1999]

*Cheiranthus longipetalus* Ventenat

*Matthiola bicornis* (Sibthorp & Smith) A.P. de Candolle

*Matthiola longipetala* (Ventenat) A.P. de Candolle subsp. *bicornis* (Sibthorp & Smith) P.W. Ball

*longipetala* (Ventenat) A.P. de Candolle subsp. *bicornis* (Sibthorp & Smith) P.W. Ball =  
*Matthiola longipetala* (Ventenat) A.P. de Candolle

**Mostacillastrum**

Al-Shehbaz, I.A. 2012. Notes on miscellaneous species of the Tribe Thelypodieae (Brassicaceae). Harvard Pap. Bot. 17(1): 3-10.

Ward, D. & R. Spellenberg. 1981. Noteworthy collections (New Mexico). Madroño 28:185-186.

[*Mostacillastrum purpusii*, as *Thelypodiopsis purpusii*]

*purpusii* (Brandege) Al-Shehbaz [M&H; Rollins 1993; W&S; Ward & Spellenberg 1981]

*Sisymbrium purpusii* (Brandege) O.E. Schulz

*Thelypodiopsis purpusii* (Brandege) Rollins

*Thelypodium purpusii* Brandege

*Thelypodium vernale* Wooton & Standley

*subauriculatum* Al-Shehbaz [M&H; Rollins 1982; W&S]

*Sisymbrium vaseyi* S. Watson ex Robinson (1895), not *Thelypodium vaseyi* Coulter, 1890 [=*Mostacillastrum vaseyi* (Coulter) Al-Shehbaz]

*Thelypodiopsis vaseyi* (S. Watson ex Robinson) Rollins

*Myagrum rugosum* Linnaeus = *Rapistrum rugosum* (Linnaeus) Allioni

**Nasturtium** water-cress

Al-Shehbaz, I.A. & R.A. Price. 1998. Delimitation of the genus *Nasturtium* (Brassicaceae). Novon 8:124-126.

Al-Shehbaz, I.A. 2010. *Nasturtium*, pp. 489-492. IN: Flora of North America, vol. 7. Oxford University Press, New York. [*Nasturtium microphyllum*]

*austriacum* Crantz = *Rorippa austriaca* (Crantz) Besser

*hispidum* (Desvoux) A.P. de Candolle = *Rorippa palustris* (Linnaeus) Besser var. *palustris*

*linifolium* Nuttall = *Schoenocrambe linifolia* (Nuttall) Greene

\**microphyllum* Boehmer ex Reichenbach [Rollins 1993]

*Nasturtium uniseriatum* Howard & Manton

*Rorippa microphylla* (Boehmer ex Reichenbach) Hyland ex Löve and Löve  
*microtitis* (Robinson) O. E. Schulz = *Rorippa microtitis* (Robinson) Rollins

*obtusum* Nuttall var. *alpinum* S.Watson = *Rorippa alpina* (S. Watson) Rydberg

\**officinale* R. Brown [M&H; W&S]

*Radicula nasturtium-aquaticum* (Linnaeus) Britton & Rendle

*Rorippa nasturtium* Rusby

*Rorippa nasturtium-aquaticum* (Linnaeus) Schinz & Thellung

*Sisymbrium nasturtium-aquaticum* Linnaeus

*palustre* Linnaeus = *Rorippa palustris* (Linnaeus) Besser var. *palustris*

*sinuatum* Nuttall = *Rorippa sinuata* (Nuttall) A.S. Hitchcock

*sphaerocarpum* Gray = *Rorippa sphaerocarpa* (Gray) Britton

*sylvestre* Linnaeus = *Rorippa sylvestris* (Linnaeus) Besser

*terrestre* R.Brown var. *occidentalis* S. Watson = *Rorippa palustris* (Linnaeus) Besser var. *palustris*

*trachycarpum* Gray = *Rorippa sinuata* (Nuttall) A.S. Hitchcock

- uniseriatum* Howard & Manton = *Nasturtium microphyllum* Boehmer ex Reichenbach
- Nerisyrenia** nerisyrenia
- Alexander, P.J., N.A. Douglas, H. Ochoterena, H. Flores-Olvera, & M.J. Moore. 2014. Recent findings on the gypsum flora of the rim of the Guadalupe Mountains, New Mexico, U.S.A.: New species of *Nerisyrenia* (Brassicaceae), a new state record, and an updated checklist. *J. Bot. Res. Inst. Texas* 8(2):383-393.
- Bacon, J.D. 1978. Taxonomy of *Nerisyrenia* (Cruciferae). *Rhodora* 80:159-227.
- camporum** (Gray) Greene [Bacon 1978; M&H; Rollins 1993; W&S]  
*Greggia camporum* Gray  
*Parrasia camporum* (Gray) Greene
- linearifolia** (S. Watson) Greene [Bacon 1978; M&H; Rollins 1993; W&S]  
*Greggia camporum* Gray var. *linearifolium* (S. Watson) M.E. Jones  
*Greggia linearifolia* S. Watson  
*Parrasia linearifolia* (S. Watson) Greene
- Noccaea** mountain-cress
- Al-Shehbaz, I.A. 2014. A synopsis of the genus *Noccaea* (Coluteocarpeae, Brassicaceae). *Harvard Papers in Botany* 19(1): 25-51.
- Holmgren, P.K. 1971. A biosystematic study of North American *Thlaspi montanum* and its allies. *Mem. N.Y. Bot. Gard.* 21:1-106.
- Koch, M. & I. Al-Shehbaz. 2004. Taxonomic and phylogenetic evaluation of the American "*Thlaspi*" species: Identity and relationship to the Eurasian genus *Noccaea* (Brassicaceae). *Syst. Bot.* 29(2):375-384.
- fendleri** (Gray) Holub subsp. **fendleri** [Holmgren 1971; W&S]  
*Thlaspi fendleri* Gray  
*Thlaspi montanum* Linnaeus var. *fendleri* (Gray) Holmgren
- fendleri** (Gray) Holub subsp. **glauca** (A. Nelson) Al-Shehbaz & M. Koch [Holmgren 1971; W&S]  
*Thlaspi alpestre* of NM authors  
*Thlaspi alpestre* L. var. *glaucum* A. Nelson  
*Thlaspi coloradense* Rydberg  
*Thlaspi fendleri* Gray var. *glaucum* (A. Nelson) C.L. Hitchcock  
*Thlaspi purpurascens* Rydberg
- Norta altissima* (Linnaeus) Britton = *Sisymbrium altissimum* Linnaeus  
*irio* (Linnaeus) Britton = *Sisymbrium irio* Linnaeus
- Pachypodium integrifolium* Nuttall = *Thelypodium integrifolium* (Nuttall) Endlicher ex Walpers
- Parrasia camporum* (Gray) Greene = *Nerisyrenia camporum* (Gray) Greene  
*linearifolia* (S. Watson) Greene = *Nerisyrenia linearifolia* (S. Watson) Greene
- Pennellia** pennellia
- Fuentes-Soriano, S. 2004. A taxonomic revision of *Pennellia* (Brassicaceae). *Harvard Pap. Bot.* 8: 173-202.
- Rollins, R.C. 1980. The genus *Pennellia* (Cruciferae) in North America. *Contr. Gray Herb.* 210:5-21.
- longifolia** (Benth) Rollins [M&H; Rollins 1980; W&S]  
*Heterothrix longifolia* (Benth) Rydberg  
*Lamphrophragma longifolium* (S. Watson) O. E. Schulz  
*Streptanthus longifolius* Benth  
*Thelypodium longifolium* (Benth) S. Watson
- micrantha** (Gray) Nieuwland [M&H; Rollins 1980; W&S]  
*Heterothrix micrantha* (Gray) Rydberg  
*Streptanthus micranthus* Gray  
*Thelypodium micranthum* (Gray) S. Watson
- Physaria** bladderpod
- Al-Shehbaz, I.A. & S.L. O'Kane. 2002. *Lesquerella* is united with *Physaria* (Brassicaceae). *Novon* 12:319-329.
- Heil, K.D., S.L. O'Kane, & A. Clifford. 2002. Additions to the flora of New Mexico from the San Juan Basin Flora project. *The New Mexico Botanist* 24:1-4. [*Physaria ludoviciana*]
- Jercinovic, E. 2013. Robert DeWitt Ivey: 1923-2013. Native Plant Society of New Mexico, online webpage (<http://www.npsnm.org/2013/10/17/robert-dewitt-ivey-1923-2013/>), accessed 16 Jan 2017.
- O'Kane, S.L., Jr. 1999. *Lesquerella navajoensis* (Brassicaceae), a new species of the *L. hitchcockii* complex from New Mexico. *Madroño* 46:88-91.
- O'Kane, S.L., Jr. 2000. New plant distribution records. *The New Mexico Botanist* 16:7. [*Physaria pruinosa*]
- O'Kane, S.L. 2010. *Physaria*, pp. 616-665. IN: *Flora of North America*, vol. 7. Oxford University Press, New York.

- O’Kane, S.L., Jr., K.N. Smith, & K.A. Arp. 2012. *Physaria iveyana* (Brassicaceae), a new species from the Sandia Mountains, New Mexico. *Phytoneuron* 31-12-53:1-6.
- Rollins, R.C. and E.A. Shaw. 1973. The genus *Lesquerella* (Cruciferae) in North America. Harvard Univ. Press. 288 pp.
- Sivinski, R.C. 1999. A new variety of *Physaria newberryi* (Brassicaceae) from New Mexico. *Sida* 18(3):673-677. [*Physaria newberryi yesicola*]
- Turner, B.L. 2013. Taxonomy of *Physaria purpurea* (Brassicaceae). *Phytologia* 95(4): 321-323.
- acutifolia** Rydberg var. **acutifolia** [M&H; Rollins 1993]  
*Physaria australis* (Payson) Rollins  
*Physaria didymocarpa* (Hooker) Gray var. *australis* Payson
- +**aurea** (Wooton) O’Kane & Al-Shehbaz [M&H; Rollins 1993; W&S]  
*Lesquerella aurea* Wooton
- australis* (Payson) Rollins = *Physaria acutifolia* Rydberg var. *acutifolia*
- calcicola** (Rollins) O’Kane & Al-Shehbaz [M&H; Rollins 1993]  
*Lesquerella calcicola* Rollins
- didymocarpa* (Hooker) Gray var. *australis* Payson = *Physaria acutifolia* Rydberg var. *acutifolia*
- fendleri** (A. Gray) O’Kane & Al-Shehbaz [M&H; W&S]  
*Lesquerella fendleri* (Gray) S. Watson  
*Lesquerella praecox* Wooton & Standley  
*Lesquerella stenophylla* (Gray) Rydberg  
*Vesicaria fendleri* Gray
- floribunda** Rydberg var. **floribunda** [M&H; Rollins 1993]
- gooddingii** (Rollins & Shaw) O’Kane & Al-Shehbaz [M&H; Rollins 1993]  
*Lesquerella gooddingii* Rollins & Shaw
- gordonii* (A. Gray) O’Kane & Al-Shehbaz var. *densifolia* (Rollins) O’Kane & Al-Shehbaz  
 = *Physaria gordonii* (A. Gray) O’Kane & Al-Shehbaz
- gordonii** (A. Gray) O’Kane & Al-Shehbaz [M&H; Rollins 1993; W&S]  
*Lesquerella gordonii* (Gray) S. Watson  
*Lesquerella gordonii* (A. Gray) S. Watson var. *densifolia* Rollins  
*Vesicaria gordonii* Gray
- intermedia** (S. Watson) O’Kane & Al-Shehbaz [M&H; Rollins 1993; W&S]  
*Lesquerella alpina* (Nuttall) S. Watson var. *intermedia* S. Watson  
*Lesquerella intermedia* (S. Watson) Heller
- iveyana* O’Kane, Smith, & Arp = *Physaria pinetorum* (Wooton & Standley  
*lata* (Wooton & Standley) O’Kane & Al-Shehbaz = *Physaria pinetorum* (Wooton & Standley) O’Kane & Al-Shehbaz
- ludoviciana** (Nuttall) O’Kane & Al-Shehbaz [Heil et al. 2002]  
*Alyssum ludovicianum* Nuttall  
*Lesquerella ludoviciana* (Nuttall) S. Watson
- montana** (A. Gray) Greene [M&H; Rollins 1993; W&S]  
*Lesquerella montana* (A. Gray) S. Watson  
*Lesquerella montana* (Gray) S. Watson var. *suffruticosa* Payson  
*Vesicaria montana* A. Gray
- navajoensis** (O’Kane) O’Kane & Al-Shehbaz [O’Kane 1999]  
*Lesquerella navajoensis* O’Kane & Al-Shehbaz
- newberryi** A. Gray var. **newberryi** [M&H; Rollins 1993; W&S]  
 +**newberryi** A. Gray var. **yesicola** Sivinski [Sivinski 1999]
- ovalifolia** (Rydberg) O’Kane & Al-Shehbaz subsp. **ovalifolia** [M&H; Rollins 1993; W&S]  
*Lesquerella ovalifolia* Rydberg
- pinetorum** (Wooton & Standley) O’Kane & Al-Shehbaz [M&H; Rollins 1993; W&S]  
*Lesquerella lata* Wooton & Standley  
*Lesquerella pinetorum* Wooton & Standley  
*Physaria iveyana* O’Kane, Smith, & Arp  
*Physaria lata* (Wooton & Standley) O’Kane & Al-Shehbaz
- pruinosa** (Greene) O’Kane & Al-Shehbaz [O’Kane 2000]  
*Lesquerella pruinosa* Greene
- purpurea** (Gray) O’Kane & Al-Shehbaz [M&H; W&S]

*Lesquerella purpurea* (Gray) S. Watson

*Vesicaria purpurea* Gray

**rectipes** (Wootton & Standley) O’Kane & Al-Shehbaz [M&H; Rollins 1993; W&S]

*Lesquerella rectipes* Wootton & Standley

*stenophylla* (Gray) Rydberg = *Physaria fendleri* (A. Gray) O’Kane & Al-Shehbaz

**valida** (Greene) O’Kane & Al-Shehbaz [M&H; Rollins 1993; W&S]

*Lesquerella valida* Greene

*Pleurophragma gracilipes* (Robinson) Rydberg = *Thelypodium integrifolium* (Nuttall ex Torrey & Gray) Endlicher subsp. *gracilipes* (Robinson) Al-Shehbaz

*integrifolium* (Nuttall) Rydberg = *Thelypodium integrifolium* (Nuttall ex Torrey & Gray) Endlicher subsp. *integrifolium*

*Radicula calycina* (Engelmann) Greene [= *Rorippa calycina* (Engelmann) Rydberg] : Reported by W&S, but not known from NM [Stuckey 1972].

*hispida* (Desvaux) Britton = *Rorippa palustris* (Linnaeus) Besser var. *palustris*

*nasturtium-aquaticum* (Linnaeus) Britton & Rendle = *Nasturtium officinale* R.Br.

*obtusata* (Nuttall) Greene [= *Rorippa teres* (Michaux) Stuckey] : Reported by W&S, but not known from NM [Stuckey 1972].

*sinuata* (Nuttall) Greene = *Rorippa sinuata* (Nuttall ex Torrey & Gray) Hitchcock

*sinuata* (Nuttall) Greene var. *truncata* Jepson = *Rorippa curvipes* Greene var. *truncata* (Jepson) Rollins

*sphaerocarpa* (Gray) Greene = *Rorippa sphaerocarpa* (Gray) Britton

*sylvestris* (Linnaeus) Druce = *Rorippa sylvestris* (Linnaeus) Besser

*tenerrima* (Greene) Greene = *Rorippa tenerrima* Greene

*terrestris* (R. Brown) Wootton & Standley = *Rorippa palustris* (Linnaeus) Besser var. *palustris*

**Raphanus** radish

Warwick, S.I. 2010. *Raphanus*, p. 438-440. IN: Flora of North America, vol. 7. Oxford University Press, New York. [*Raphanus raphanistrum*]

\***raphanistrum** Linnaeus [Warwick 2010]

\***sativus** Linnaeus [M&H; W&S]

*Raphanus raphanistrum* Linnaeus subsp. *sativus* (Linnaeus) Domin

*tenella* Pallas = *Chorispora tenella* (Pallas) A.P. de Candolle

**Rapistrum** bastard-cabbage

Allred, K.W. & J. Travis Columbus. 1989. Additions to the flora of New Mexico. *Phytologia* 67(5):361-365. [*Rapistrum rugosum*]

\***rugosum** (Linnaeus) Allioni subsp. **rugosum** [Allred & Columbus 1989]

*Myagrum rugosum* Linnaeus

**Rorippa** yellow-cress

Al-Shehbaz, I.A. 2010. *Rorippa*, p. 493-506. IN: Flora of North America, vol. 7. Oxford University Press, New York.

Hartman, R.L., B. Reif, B.E. Nelson, & B. Jacobs. 2006. New vascular plant records for New Mexico. *Sida* 22(2):1225-1233. [*Rorippa sylvestris*]

Heil, K. 2007. Plant distribution reports. *The New Mexico Botanist* 38:7. [*Rorippa alpina*, *Rorippa palustris palustris*]

Stuckey, R.L. 1972. Taxonomy and distribution of the genus *Rorippa* (Cruciferae) in North America. *Sida* 4:279-430.

**alpina** (S. Watson) Rydberg [Heil 2007]

*Nasturtium obtusum* Nuttall var. *alpinum* S.Watson

\***austriaca** (Crantz) Besser [Shehbaz 2010]

*Nasturtium austriacum* Crantz

**curvipes** Greene [M&H; Rollins 1993; W&S]

*Radicula sinuata* (Nuttall) Greene var. *truncata* Jepson

*Rorippa curvipes* Greene var. *truncata* (Jepson) Rollins

*Rorippa truncata* (Jepson) Stuckey

*curvipes* Greene var. *truncata* (Jepson) Rollins = *Rorippa curvipes* Greene

*islandica* (Oeder) Borbás var. *fernaldiana* Butters & Abbe = *Rorippa palustris* (Linnaeus) Besser var. *palustris*

*microphylla* (Boehmer ex Reichenbach) Hyland ex Löve and Löve = *Nasturtium microphyllum* Boehmer ex Reichenbach

**microtitis** (Robinson) Rollins [M&H]

- Nasturtium microtitis* (Robinson) O. E. Schulz  
*Sisymbrium microtitis* Robinson  
*nasturtium* Rusby = *Nasturtium officinale* R. Brown  
*nasturtium-aquaticum* (Linnaeus) Schinz & Thellung = *Nasturtium officinale* R. Brown  
*obtusum* (Nuttall ex Torrey & Gray) Britton = *Rorippa teres* (Michaux) Stuckey var. *teres*  
*obtusum* (Nuttall) Britton var. *sphaerocarpa* (Gray) Cory = *Rorippa sphaerocarpa* (Gray) Britton  
*palustris* (Linnaeus) Besser subsp. *glabra* (O.E. Schulz) Stuckey var. *glabra* = *Rorippa palustris* (Linnaeus) Besser var. *palustris*  
*palustris* (Linnaeus) Besser var. *fernaldiana* (Butters & Abbe) Stuckey = *Rorippa palustris* (Linnaeus) Besser var. *palustris*  
***palustris*** (Linnaeus) Besser var. ***hispidum*** (Desvaux) Rydberg [M&H; Rollins 1993; W&S]  
*Brachiolobos hispidum* Desvaux  
*Nasturtium hispidum* (Desvaux) A.P. de Candolle  
*Radicula hispidum* (Desvaux) Britton  
*palustris* (Linnaeus) Besser var. *occidentalis* (S. Watson) Rollins = *Rorippa palustris* (Linnaeus) Besser var. *palustris*  
***palustris*** (Linnaeus) Besser var. ***palustris*** [Heil 2007]  
*Nasturtium palustre* Linnaeus  
*Nasturtium terrestre* R. Brown var. *occidentalis* S. Watson  
*Radicula terrestris* (R. Brown) Wootton & Standley  
*Rorippa palustris* (Linnaeus) Besser subsp. *glabra* (O.E. Schulz) Stuckey var. *glabra*  
*Rorippa palustris* (Linnaeus) Besser var. *fernaldiana* (Butters & Abbe) Stuckey  
*Rorippa palustris* (Linnaeus) Besser var. *occidentalis* (S. Watson) Rollins  
***sinuatum*** (Nuttall) A.S. Hitchcock [M&H; W&S]  
*Nasturtium sinuatum* Nuttall  
*Nasturtium trachycarpum* Gray  
*Radicula sinuatum* (Nuttall) Greene  
***sphaerocarpa*** (Gray) Britton [M&H; W&S]  
*Nasturtium sphaerocarpum* Gray  
*Radicula sphaerocarpa* (Gray) Greene  
*Rorippa obtusum* (Nuttall) Britton var. *sphaerocarpa* (Gray) Cory  
**\**sylvestris*** (Linnaeus) Besser [Hartman et al. 2006]  
*Nasturtium sylvestre* Linnaeus  
***tenerrima*** Greene [M&H]  
*Radicula tenerrima* (Greene) Greene  
***teres*** (Michaux) Stuckey [Schiebout et al. 2008; W&S]  
*Rorippa obtusum* (Nuttall ex Torrey & Gray) Britton  
*truncatum* (Jepson) Stuckey = *Rorippa curvipes* Greene var. *truncatum* (Jepson) Rollins  
*Schoenocrambe linearifolia* (Gray) Rollins = *Hesperidanthus linearifolius* (Gray) Rydberg  
*linifolia* (Nuttall) Greene = *Sisymbrium linifolium* (Nuttall) Nuttall ex Torrey & Gray  
***Selenia*** *selenia*  
 Urban, L. & C.D. Bailey. 2013. Phylogeny of *Leavenworthia* and *Selenia* (Brassicaceae). Syst. Bot. 38(3): 723-736.  
***dissecta*** Torrey & Gray [M&H; Rollins 1993]  
*Sibara grisea* Rollins = *Thelypodium texanum* (Cory) Rollins  
***Sinapis*** *charlock*  
 Warwick, S.I. 2010. *Sinapis*, p. 441-443. IN: Flora of North America, vol. 7. Oxford University Press, New York.  
**\**alba*** Linnaeus [M&H]  
*Brassica alba* (Linnaeus) Boissier  
*Brassica hirta* Moench  
**\**arvensis*** Linnaeus [M&H; W&S]  
*Brassica arvensis* (Linnaeus) Britton, Sterns, & Poggenburg  
*Brassica kaber* (A.P. de Candolle) L.C. Wheeler  
*juncea* Linnaeus = *Brassica juncea* (Linnaeus) Cosson  
*nigra* Linnaeus = *Brassica nigra* (Linnaeus) Koch

**Sisymbrium** hedge-mustard

Allred, K.W. & J. Travis Columbus. 1989. Additions to the flora of New Mexico. *Phytologia* 67(5):361-365. [*Sisymbrium loeselii*]

Al-Shehbaz, I.A. 2010. *Sisymbrium*, pp. 667-671. IN: Flora of North America, vol. 7. Oxford University Press, New York.

Warwick, S.I., A. Al-Shehbaz, R.A. Price, & C. Sauder. 2002. Phylogeny of *Sisymbrium* (Brassicaceae) based on ITS sequences of nuclear ribosomal DNA. *Can. J. Bot.* 80:1002-1017.

Warwick, S.I. & I.A. Al-Shehbaz. 2003. Nomenclatural notes on *Sisymbrium* (Brassicaceae). *Novon* 13:265-267.

**\*altissimum** Linnaeus [M&H; W&S]

*Norta altissima* (Linnaeus) Britton

*aureum* (Eastwood) Payson = *Thelypodiopsis aurea* (Eastwood) Rydberg

*brachycarpum* Richardson = *Descurainia pinnata* (Walter) Britton subsp. *brachycarpa* (Richardson) Detling

*diffusum* Gray = *Halimolobos diffusa* (Gray) O.E. Schulz

*incanum* Bernhardt ex Fischer & Meyer = *Descurainia incana* (Bernhardt ex Fischer & Meyer) Dorn

*incisum* Engelmann ex A. Gray = *Descurainia incisum* (Engelmann ex A. Gray) Britton

*incisum* Engelmann ex A. Gray var. *filipes* A. Gray = *Descurainia longepedicellata* (Fournier) O.E. Schulz

**\*irio** Linnaeus [M&H]

London rocket

*Norta irio* (Linnaeus) Britton

*linearifolium* (Gray) Payson = *Hesperidanthus linearifolius* (Gray) Rydberg

**linifolium** (Nuttall) Nuttall ex Torrey & Gray [M&H; Rollins 1982, 1993; W&S]

*Nasturtium linifolium* Nuttall

*Schoenocrambe linifolia* (Nuttall) Greene

**\*loeselii** Linnaeus [Allred & Columbus 1989]

*longepedicellatum* Fournier = *Descurainia longepedicellata* (Fournier) O.E. Schulz

*microtitis* Robinson = *Rorippa microtitis* (Robinson) Rollins

*murale* Linnaeus = *Diplotaxis muralis* (Linnaeus) A.P. de Candolle

*nasturtium-aquaticum* Linnaeus = *Nasturtium officinale* R. Brown

*officinale* (Linnaeus) Scopoli var. *leiocarpum* A.P. de Candolle = *Sisymbrium officinale* (Linnaeus) Scopoli

**\*officinale** (Linnaeus) Scopoli [M&H; W&S]

*Erysimum officinale* Linnaeus

*Sisymbrium officinale* (Linnaeus) Scopoli var. *leiocarpum* A.P. de Candolle

**\*orientale** Linnaeus [Rollins, in Kartesz 1999]

*purpusii* (Brandegee) O.E. Schulz = *Mostacillastrum purpusii* (Brandegee) Al-Shehbaz

*sophia* Linnaeus = *Descurainia sophia* (Linnaeus) Webb ex Prantl

*tenuifolium* Linnaeus = *Diplotaxis tenuifolia* (Linnaeus) A.P. de Candolle

*vaseyi* S. Watson ex Robinson = *Mostacillastrum vaseyi* (S. Watson ex Robinson) Al-Shehbaz

*Smelowskia californica* Gray = *Descurainia californica* (Gray) O.E. Schulz

*Sophia adenophora* Wooton & Standley = *Descurainia adenophora* (Wooton & Standley) O.E. Schulz

*andrenarum* Cockerell *osmiarum* Cockerell = *Descurainia pinnata* (Walter) Britton subsp. *ochroleuca* (Wooton) Detling

*glabra* Wooton & Standley = *Descurainia pinnata* (Walter) Britton subsp. *glabra* (Wooton & Standley) Detling

*halictorum* Cockerell = *Descurainia pinnata* (Walter) Britton subsp. *ochroleuca* (Wooton) Detling

*incisa* (Engelmann) Greene = *Descurainia incisum* (Engelmann ex A. Gray) Britton subsp. *incisa*

*intermedia* Rydberg = *Descurainia pinnata* (Walter) Britton subsp. *brachycarpa* (Richardson) Detling

*ochroleuca* Wooton = *Descurainia pinnata* (Walter) Britton subsp. *ochroleuca* (Wooton) Detling

*obtusa* Greene = *Descurainia obtusa* (Greene) O. E. Schulz

*procera* Greene = *Descurainia incana* (Bernhardt ex Fischer & Meyer) Dorn

*serrata* Greene = *Descurainia incisa* (Engelmann ex A. Gray) Britton subsp. *incisa*  
*viscosa* Rydberg = *Descurainia incisa* (Engelmann ex A. Gray) Britton subsp. *incisa*

**Stanleya** prince's-plume

Heil, K. 2007. Plant distribution reports. The New Mexico Botanist 38:7. [*Stanleya pinnata integrifolia*]  
 Peterson, R.S. 2000. New plant distribution records. The New Mexico Botanist 15:7. [*Stanleya viridiflora*]

**albescens** M.E. Jones [M&H; W&S] Note: The reports are based on a single specimen collected  
 by Palmer (#99) from the Fort Wingate area (or westward) in 1869; the specimen is at  
 US, annotated by Rollins; perhaps no longer present in the state.

*arcuata* Rydberg = *Stanleya pinnata* (Pursh) Britton

*collina* M.E. Jones, nom. illeg. = *Stanleya viridiflora*

**pinnata** (Pursh) Britton var. **integrifolia** C. James [Heil 2007]

**pinnata** (Pursh) Britton var. **pinnata** [M&H; W&S]

*Cleome pinnata* Pursh

*Stanleya arcuata* Rydberg

**viridiflora** Nuttall ex Torrey & Gray [Peterson 2000]

*Stanleya collina* M.E. Jones, nom. illeg.

*Stanleyella texana* (Cory) Rollins = *Thelypodium texanum* (Cory) Rollins

*wrightii* (Gray) Rydberg = *Thelypodium wrightii* Gray

*Streptanthella longirostris* (S. Watson) Rydberg = *Streptanthus longirostris* (S. Watson) S.  
 Watson

**Streptanthus** jewel-flower

Al-Shehbaz, I.A. and M.S. Mayer. 2008. New and noteworthy *Streptanthus* (Brassicaceae) for the Flora of  
 North America. *Novon* 18(3):279-283. [merger of *S. sparsiflorus* into *S. platycarpus*]

Cacho, N.I., A.M. Burrell, A.E. Pepper, & S.Y. Strauss. 2014. Novel nuclear markers inform the  
 systematics and the evolution of serpentine use in *Streptanthus* and allies (Thelypodieae,  
 Brassicaceae). *Molec. Phylog. Evol.* 72: 72-81.

Kruckeberg, A.R., J.E. Rodman, and R.D. Worthington. 1982. Natural hybridization between *Streptanthus*  
*arizonicus* and *S. carinatus* (Cruciferae). *Syst. Bot.* 7(3):291-299.

Spellenberg, R., R. Worthington, P. Knight, & R. Fletcher. 1986. Additions to the flora of New Mexico.  
*Sida* 11(4):455-470. [*Streptanthus platycarpus*, as *S. sparsiflorus*]

Spellenberg, R., L. McIntosh, and L. Brouillet. 1993. New records of angiosperms from southern New  
 Mexico. *Phytologia* 75:224-230. [*Streptanthus lasiophyllus*, as *Caulanthus lasiophyllus*]

*arizonicus* S. Watson = *Streptanthus carinatus* Wright ex Gray subsp. *arizonicus* (S.  
 Watson) Kruckeberg, Rodman, & Worthington

**carinatus** Wright ex Gray subsp. **arizonicus** (S. Watson) Kruckeberg, Rodman,  
 & Worthington [Kruckeberg et al. 1982; Rollins 1993]

*Disaccanthus luteus* Greene

*Disaccanthus mogollonicus* Greene

*Streptanthus arizonicus* S. Watson

**carinatus** Wright ex Gray subsp. **carinatus** [M&H; W&S]

*Disaccanthus validus* Greene

*Euklisia valida* (Greene) Wootton & Standley

*Streptanthus validus* (Greene) Cory

**cordatus** Nuttall var. **cordatus** [M&H; Rollins 1993; W&S]

*Euklisia crassifolia* (Greene) Rydberg

*Streptanthus crassifolius* Greene

*crassifolius* Greene = *Streptanthus cordatus* Nuttall var. *cordatus*

**lasiophyllus** (Hooker & Arnott) Hoover [Spellenberg et al. 1993]

*Caulanthus lasiophyllus* (Hooker & Arnott) Payson

*Thelypodium lasiophyllum* (Hooker & Arnott) Greene

*Turritis lasiophylla* Hooker & Arnott

*linearifolius* Gray = *Hesperidanthus linearifolius* (Gray) Rydberg

*longifolius* Bentham = *Pennellia longifolia* (Bentham) Rollins

**longirostris** (S. Watson) S. Watson [M&H; W&S]

*Arabis longirostris* S. Watson

*Euklisia longirostris* (S. Watson) Rydberg

*Streptanthella longirostris* (S. Watson) Rydberg

*micranthus* Gray = *Pennellia micrantha* (Gray) Nieuwland

**platycarpus** A. Gray [Spellenberg et al. 1986]

*Streptanthus sparsiflorus* Rollins

*sparsiflorus* Rollins = *Streptanthus platycarpus* A. Gray



- validus* (Greene) Cory = *Streptanthus carinatus* C. Wright ex A. Gray subsp. *carinatus*
- Strigosella** African mustard  
 Al-Shehbaz, I.A., D.A. German, K. Mummenhoff, & H. Moazzeni. 2014. Systematics, tribal placements, and synopses of the *Malcolmia* s.l. segregates (Brassicaceae). Harvard Pap. Bot. 19(1): 53-71.  
 Botschantzev, V.P. 1972. The genus *Strigosella* Boiss. and its relation to the genus *Malcolmia* R. Br. (Cruciferae). Bot. Zhurn. (Moscow & Leningrad) 57: 1033-1046.  
 Marley, G. & W.L. Wagner. 1981. Noteworthy collections (New Mexico). Madroño 28:41-43. [*Malcolmia africana*]
- \**africana* (Linnaeus) Botschantzev [Marley & Wagner 1981]  
*Hesperis africana* Linnaeus  
*Malcolmia africana* (Linnaeus) R. Brown
- Thelypodiopsis** thelypodiopsis  
 Rollins, R.C. 1982. *Thelypodiopsis* and *Schoenocrambe* (Cruciferae). Contr. Gray Herb. 212:71-102.
- aurea** (Eastwood) Rydberg [M&H; Rollins 1982]  
*Sisymbrium aureum* (Eastwood) Payson  
*Thelypodium aureum* Eastwood  
*linearifolia* (Gray) Al-Shehbaz = *Hesperidanthus linearifolia* (Gray) Rydberg  
*purpusii* (Brandegee) Rollins = *Mostacillastrum purpusii* (Brandegee) Al-Shehbaz  
*vaseyi* (S. Watson ex Robinson) Rollins = *Mostacillastrum vaseyi* (S. Watson ex Robinson) Al-Shehbaz
- Thelypodium** thelypody  
 Al-Shehbaz, I.A. 1973. The biosystematics of the genus *Thelypodium* (Cruciferae). Contr. Gray Herb. 204:3-148.  
 Heil, K. 2007. Plant distribution reports. The New Mexico Botanist 38:7. [*Thelypodium laxiflorum*]  
 Rollins, R.C. 1981. Species of *Draba*, *Lesquerella*, and *Sibara* (Cruciferae). Contr. Gray Herb. 211:107-113. [*Thelypodium texanum*, as *Sibara grisea*]
- aureum** Eastwood = *Thelypodiopsis aurea* (Eastwood) Rydberg  
**crenatum** Greene = *Lepidium crenatum* (Greene) Rydberg
- integrifolium** (Nuttall) Endlicher ex Walpers subsp. **gracilipes** (Robinson) Al-Shehbaz [Al-Shehbaz 1973; M&H; W&S]  
*Pleophragma gracilipes* (Robinson) Rydberg  
*Thelypodium integrifolium* (Nuttall) Endlicher ex Walpers var. *gracilipes* Robinson  
*integrifolium* (Nuttall) Endlicher ex Walpers var. *gracilipes* Robinson = *Thelypodium integrifolium* (Nuttall) Endlicher subsp. *gracilipes* (Robinson) Al-Shehbaz  
*integrifolium* (Nuttall) Endlicher ex Walpers var. *integrifolium* : Reported by M&H, but our plants belong to *Thelypodium integrifolium* (Nuttall) Endlicher subsp. *gracilipes* (Robinson) Al-Shehbaz [Al-Shehbaz 1973].  
*Pachypodium integrifolium* Nuttall  
*Pleophragma integrifolium* (Nuttall) Rydberg  
*Thelypodium lilacinum* Greene  
*lasiophyllum* (Hooker & Arnott) Greene = *Streptanthus lasiophyllum* (Hooker & Arnott) Hoover  
*lilacinum* Greene = *Thelypodium integrifolium* (Nuttall) Endlicher ex Walpers
- laxiflorum** Al-Shehbaz [Heil 2007]  
*Thelypodium wrightii* Gray var. *tenellum* M.E. Jones  
*longifolium* (Bentham) S. Watson = *Pennellia longifolia* (Bentham) Rollins  
*micranthum* (Gray) S. Watson = *Pennellia micrantha* (Gray) Niewl.  
*purpusii* Brandegee = *Mostacillastrum purpusii* (Brandegee) Al-Shehbaz
- texanum** (Cory) Rollins [Rollins 1981, 1993]  
*Sibara grisea* Rollins  
*Stanleyella texana* (Cory) Rollins  
*vernale* Wooton & Standley = *Mostacillastrum purpusii* (Brandegee) Al-Shehbaz
- wrightii** Gray [M&H; W&S]  
*Stanleyella wrightii* (Gray) Rydberg  
*wrightii* Gray var. *tenellum* M.E. Jones = *Thelypodium laxiflorum* Al-Shehbaz
- Thlaspi** penny-cress  
 Holmgren, P.K. 1971. A biosystematic study of North American *Thlaspi montanum* and its allies. Mem. N.Y. Bot. Gard. 21:1-106.

Koch, M. & I. Al-Shehbaz. 2004. Taxonomic and phylogenetic evaluation of the American "*Thlaspi*" species: Identity and relationship to the Eurasian genus *Noccaea* (Brassicaceae). *Syst. Bot.* 29(2):375-384.

*alpestre* of NM authors = *Noccaea fendleri* (Gray) Holub subsp. *glauca* (A. Nelson) Al-Shehbaz & M. Koch

*alpestre* L. var. *glaucum* A. Nelson = *Noccaea fendleri* (Gray) Holub subsp. *glauca* (A. Nelson) Al-Shehbaz & M. Koch

\**arvense* Linnaeus [M&H]

*bursa-pastoris* Linnaeus = *Capsella bursa-pastoris* (Linnaeus) Medikus

*campestre* Linnaeus = *Lepidium campestre* (Linnaeus) R. Brown

*coloradense* Rydberg = *Noccaea fendleri* (Gray) Holub subsp. *glauca* (A. Nelson) Al-Shehbaz & M. Koch

*fendleri* Gray = *Noccaea fendleri* (Gray) Holub

*fendleri* Gray var. *glaucum* (A. Nelson) C.L. Hitchcock = *Noccaea fendleri* (Gray) Holub subsp. *glauca* (A. Nelson) Al-Shehbaz & M. Koch

*glaucum* A. Nelson = *Noccaea fendleri* (Gray) Holub subsp. *glauca* (A. Nelson) Al-Shehbaz & M. Koch

*montanum* Linnaeus var. *fendleri* (Gray) Holmgren = *Noccaea fendleri* (Gray) Holub subsp. *fendleri*

*montanum* Linnaeus s.s. : This is a European species perhaps separable from the North American *Thlaspi fendleri* Gray

*purpurascens* Rydberg = *Noccaea fendleri* (Gray) Holub subsp. *glauca* (A. Nelson) Al-Shehbaz & M. Koch

### ***Thysanocarpus*** fringedpod

Alexander, P.J., M.D. Windham, R. Govindarajulu, I.A. Al-Shehbaz, & C.D. Bailey. 2010. Molecular phylogenetics and taxonomy of the genus *Thysanocarpus* (Brassicaceae). *Syst. Bot.* 35(3):559-577.

Alexander, P.J. 2010. *Thysanocarpus*, pp. 739-741. IN: *Flora of North America*, vol. 7. Oxford University Press, New York.

*amplectens* Greene = *Thysanocarpus curvipes* Hooker

*curvipes* Hooker subsp. *amplectens* (Greene) P.J. Alexander & Windham [M&H; Rollins 1993; W&S]

*Thysanocarpus amplectens* Greene

### ***Tomostima***

Al-Shehbaz, I.A. 2012. A generic and tribal synopsis of Brassicaceae (Cruciferae). *Taxon* 61(5): 931-954.  
 Jordon-Thaden, I., I. Hase, I. Al-Shehbaz, & M.A. Koch. 2010. Molecular phylogeny and systematics of the genus *Draba* (Brassicaceae) and identification of its most closely related genera. *Molec. Phylog. Evol.* 55: 524-540.

*cuneifolia* (Nuttall ex Torrey & Gray) Al-Shehbaz, Koch, & Jordon-Thaden [M&H; W&S]

*Draba cuneifolia* Nuttall ex Torrey & Gray

*reptans* (Lamarck) Al-Shehbaz, Koch, & Jordon-Thaden [M&H; W&S]

*Arabis reptans* Lamarck

*Draba coloradensis* Rydberg

*Draba micrantha* Nuttall

*Draba reptans* (Lamarck) Fernald

*Draba reptans* (Lamarck) Fernald forma *micrantha* (Nuttall) C.L. Hitchcock

### ***Turritis***

tower-mustard

*glabra* Linnaeus [M&H]

*Arabis glabra* (Linnaeus) Bernhardt

*lasiophylla* Hooker & Arnott = *Streptanthus lasiophyllus* (Hooker & Arnott) Hoover

*stricta* Graham = *Boechera stricta* (Graham) Al-Shehbaz

*Vesicaria fendleri* Gray = *Physaria fendleri* (Gray) O'Kane & Al-Shehbaz

*gordonii* Gray = *Physaria gordonii* (Gray) O'Kane & Al-Shehbaz

*montana* Gray = *Physaria montana* (Gray) Greene

*purpurea* Gray = *Physaria purpurea* (Gray) O'Kane & Al-Shehbaz

*Family BUDDLEJACEAE = SCROPHULARIACEAE*

### Family BUXACEAE

*Buxus chinensis* Link = *Simmondsia chinensis* (Link) C. Schneider (Simmondsiaceae)

**Family CACTACEAE** [17/64/72]

- Anderson, E.F. 2001. The Cactus Family. Timber Press, Portland, Oregon. 776 pp.
- Benson, L. 1982. The Cacti of the United States and Canada. Stanford Univ. Press. 1044 p.
- Griffith, M.P. & J.M. Porter. 2009. Phylogeny of Opuntioideae (Cactaceae). *Int. J. Plant Sci.* 170(1): 107-116.
- Hernandez-Hernandez, T., H.M. Hernandez, J.A. De-Nova, R. Puente, L.E. Eguarte, & S. Magallon. 2011. Phylogenetic relationships and evolution of growth form in Cactaceae (Caryophyllales, Eudicotyledoneae). *Amer. J. Bot.* 98(1): 44-61.
- Nyffeler, R. & U. Eggli. 2010. A farewell to dated ideas and concepts: molecular phylogenetics and a revised suprageneric classification of the family Cactaceae. *Schumannia* 6: 109-149.
- Parfitt, B.D. & A.C. Gibson. 2003. Cactaceae, pp. 92-257. IN: *Flora of North America*, vol. 4. Oxford University Press, New York.
- Powell, A.M., J.F. Weedon, & S.A. Powell. 2008. *Cacti of Texas, A Field Guide*. Texas Tech University Press, Lubbock. 383 pp.
- Vazquez-Sanchez, M., T. Terrazas, S. Arias, & H. Ochoterena. 2013. Molecular phylogeny, origin and taxonomic implications of the tribe Cacteeae (Cactaceae). *Systematics & Biodiversity* 11(1): 103-116.
- Weniger, D. 1984. *Cacti of Texas and neighboring states*. University of Texas Press, Austin. 356 pp.
- Ancistrocactus uncinatus* (Galeotti) L. Benson var. *wrightii* (Engelmann) L. Benson =  
*Glandulicactus uncinatus* (Galeotti) Backeberg var. *wrightii* (Engelmann)  
 Backeberg
- Cactus ficus-indica* Linnaeus = *Opuntia ficus-indica* (Linnaeus) Miller  
*fragilis* Nuttall = *Opuntia fragilis* (Nuttall) Haworth  
*viviparus* Nuttall = *Escobaria vivipara* (Nuttall) F. Buxbaum
- Cereus chloranthus* Engelmann = *Echinocereus viridiflorus* Engelmann  
*coccineus* (Engelmann) Engelmann var. *cylindricus* Engelmann = *Echinocereus coccineus*  
 Engelmann var. *coccineus*  
*coccineus* (Engelmann) Engelmann var. *melanacanthus* Engelmann = *Echinocereus*  
*coccineus* Engelmann var. *coccineus*  
*conoideus* Engelmann & Bigelow = *Echinocereus coccineus* Engelmann var. *coccineus*  
*fendleri* Engelmann = *Echinocereus fendleri* (Engelmann) Sencke ex J.N. Haage  
*fendleri* Engelmann var. *pauperculus* Engelmann = *Echinocereus fasciculatus* (Engelmann  
 ex S. Watson) L. Benson  
*greggii* Engelmann = *Peniocereus greggii* (Engelmann) Britton & Rose  
*greggii* Engelmann var. *transmontanus* Engelmann = *Peniocereus greggii* (Engelmann)  
 Britton & Rose var. *transmontanus* (Engelmann) Backeberg  
*imbricatus* Haworth = *Cylindropuntia imbricata* (Haworth) F.M. Knuth var. *imbricata*  
*mojavensis* Engelmann & Bigelow = *Echinocereus triglochidiatus* Engelmann  
*pectinatus* Engelmann in Gray var. *rigidissimus* Engelmann = *Echinocereus rigidissimus*  
 (Engelmann) Rose  
*roetteri* Engelmann = *Echinocereus* × *roetteri* (Engelmann) Rümpler  
*stramineus* Engelmann = *Echinocereus stramineus* (Engelmann) F. Seitz
- Coloradoa mesae-verdae* Boissevain & C. Davidson = *Sclerocactus mesae-verdae* (Boissevain ex  
 Boissevain & C. Davidson) L. Benson
- Corynopuntia*** club-cholla
- Griffith, M.P. 2002. *Grusonia pulchella* classification and its impacts on the genus *Grusonia*;  
 morphological and molecular evidence. *Haseltonia* 9: 86-93.
- Griffith, M.P. & J.M. Porter. 2009. Phylogeny of Opuntioideae (Cactaceae). *Int. J. Plant Sci.* 170(1): 107-116.
- Pinkava, D.J. 2003. *Grusonia*, pp. 118-123. IN: *Flora of North America*, vol. 4, pt. 1. Oxford University Press, New York.
- +*clavata*** (Engelmann) F.M. Knuth [M&H; W&S]  
*Cylindropuntia clavata* (Engelmann) F.M. Knuth  
*Opuntia clavata* Engelmann  
*Grusonia clavata* (Engelmann) H. Robinson
- emoryi*** (Engelmann) M.P. Griff [M&H; W&S]  
*Grusonia emoryi* (Engelmann) Pinkava  
*Opuntia emoryi* Engelmann  
*Opuntia stanlyi* Engelmann ex B.D. Jackson
- grahamii*** (Engelmann) F.M. Knuth  
*Grusonia grahamii* (Engelmann) H. Robinson  
*Opuntia densispina* Ralston & Hilsenbeck  
*Opuntia grahamii* Engelmann

*Opuntia schottii* Engelm. var. *grahamii* (Engelm.) L. Benson

**Coryphantha** beehive-cactus

- Baker, M.A. & C.A. Butterworth. 2013. Geographic distribution and taxonomic circumscription of populations within *Coryphantha* section *Robustispina* (Cactaceae). *Amer. J. Bot.* 100(5): 984-997.
- Dicht, R.F. & A.D. Lüthy. 2005. *Coryphantha*, Cacti of Mexico and Southern USA. Springer-Verlag, New York. 200 pp.
- Gorelick, R. 2015. New combinations in *Coryphantha* and *Escobaria* (Cactaceae). *J. Bot. Res. Inst. Texas* 9(1): 25-30.
- Gorelick, R. 2015. Corrigendum: New combinations in *Coryphantha* and *Escobaria* (Cactaceae). *J. Bot. Res. Inst. Texas* 9(2): 351-352.
- Sivinski, R.C. and K. Lightfoot, eds. 1994. Inventory of rare and endangered plants of New Mexico. New Mexico Forestry and Resources Conservation Division, Misc. Publ. No. 3. [*Coryphantha scheeri uncinata*]
- Zimmerman, A.D. & B.D. Parfitt. 2003. *Coryphantha*, pp. 220-237. IN: Flora of North America, vol. 4, pt. 1. Oxford University Press, New York.
- arizonica* (Engelm.) Britton & Rose = *Escobaria vivipara* (Nuttall) F. Buxbaum
- bisbeeana* Orcutt = *Escobaria vivipara* (Nuttall) F. Buxbaum
- organensis* D. Zimmerman = *Escobaria sneedii* Britton & Rose
- dasyacantha* of NM reports = *Escobaria sneedii* Britton & Rose
- deserti* Engelm. [= *Coryphantha chlorantha* (Engelm.) Britton & Rose] : Reported for NM by Weniger (1984) and Rogers (1953), but Benson (1982) and Zimmerman & Parfitt (2003) exclude it from the state; awaits verification.
- duncanii* (Hester) L. Benson = *Escobaria duncanii* (Hester) Backeberg
- macromeris** (Engelm.) Lemaire [M&H; W&S; Zimmerman & Parfitt 2003]
- Mammillaria macromeris* Engelm.
- missouriensis* (Sweet) Britton & Rose = *Escobaria missouriensis* (Sweet) D.R. Hunt
- muehlenpfordtii* (Poselger) Britton & Rose = *Coryphantha robustispina* (Schott ex Engelm.) Britton & Rose
- muehlenpfordtii* (Poselger) Britton & Rose subsp. *uncinata* (L.D. Benson) Dicht = *Coryphantha robustispina* (Schott ex Engelm.) Britton & Rose subsp. *uncinata* (L. Benson) N.P. Taylor
- robustispina* (Schott ex Engelm.) Britton & Rose subsp. *robustispina* : Not occurring in NM; our material belongs to *Coryphantha robustispina* (Schott ex Engelm.) Britton & Rose subsp. *uncinata* (L. Benson) N.P. Taylor (Baker & Butterworth 2013).
- Coryphantha muehlenpfordtii* (Poselger) Britton & Rose
- Mammillaria robustispina* Schott ex Engelm.
- robustispina** (Schott ex Engelm.) Britton & Rose subsp. **scheeri** (Lemaire) N.P. Taylor [Baker & Butterworth 2013]
- Coryphantha scheeri* Lemaire
- Coryphantha scheeri* Lemaire var. *valida* (Engelm.) L. Benson
- Mammillaria scheeri* Muehlenpfordt, nom. illeg.
- Mammillaria scheeri* Muehlenpfordt var. *valida* Engelm. [1856]
- robustispina** (Schott ex Engelm.) Britton & Rose subsp. **uncinata** (L. Benson) N.P. Taylor [Baker & Butterworth 2013]
- Coryphantha muehlenpfordtii* (Poselger) Britton & Rose subsp. *uncinata* (L.D. Benson) Dicht
- Coryphantha scheeri* Lemaire var. *uncinata* L. Benson [1969]
- scheeri* (Muehlenpfordt) Lemaire = *Coryphantha robustispina* (Schott ex Engelm.) Britton & Rose subsp. *scheeri* (Lemaire) N.P. Taylor
- scheeri* (Muehlenpfordt) Lemaire var. *uncinata* L. Benson = *Coryphantha robustispina* (Schott ex Engelm.) Britton & Rose subsp. *uncinata* (L. Benson) N.P. Taylor
- scheeri* (Muehlenpfordt) Lemaire var. *valida* (Engelm.) L. Benson = *Coryphantha robustispina* (Schott ex Engelm.) Britton & Rose subsp. *scheeri* (Lemaire) N.P. Taylor
- sneedii* (Britton & Rose) A. Berger = *Escobaria sneedii* Britton & Rose
- strobiliformis* of NM reports = *Escobaria tuberculosa* (Engelm.) Britton & Rose
- strobiliformis* (Poselger) Orcutt var. *orcuttii* (Rose) L. Benson = *Escobaria sneedii* Britton & Rose
- tuberculosa* (Engelm.) A. Berger = *Escobaria tuberculosa* (Engelm.) Britton & Rose

*vivipara* (Nuttall) Britton & Rose = *Escobaria vivipara* (Nuttall) F. Buxbaum

***Cylindropuntia*** cholla

Allred, K.W. 2009. Plant distribution reports [*Cylindropuntia bigelovii*]. The New Mexico Botanist 48:7.  
Baker, M.A., M.A. Cloud-H., J.P. Rebman, & L.C. Majure. 2019. Nomenclatural changes in *Cylindropuntia* (Cactaceae). Madrono 66(3): 92-96.

Griffith, M.P. & J.M. Porter. 2009. Phylogeny of Opuntioideae (Cactaceae). Int. J. Plant Sci. 170(1): 107-116.

Pinkava, D.J. 2003. *Cylindropuntia*, pp. 103-118. IN: Flora of North America, vol. 4, pt.1. Oxford University Press, New York.

\****bigelovii*** (Engelmann) F.N. Knuth [Allred 2009]

teddy-bear cholla

*Opuntia bigelovii* Engelmann

*clavata* (Engelmann) F.M. Knuth = *Corynopuntia clavata* (Engelmann) F.M. Knuth

***davisii*** (Engelmann & Bigelow) F.M. Knuth [M&H; Pinkava 2003; W&S]

*Opuntia davisii* Engelmann & Bigelow

*Opuntia tunicata* (Lehmann) Link & Otto var. *davisii* (Engelmann & Bigelow)

L. Benson

***fulgida*** (Engelmann) F.M. Knuth [FNM I]

*Opuntia fulgida* Engelmann

***imbricata*** (Haworth) F.M. Knuth var. ***imbricata*** [M&H; Pinkava 2003; W&S]

cane cholla

*Cereus imbricatus* Haworth

*Opuntia arborescens* Engelmann in Wislizenus

*Opuntia imbricata* (Haworth) A.P. de Candolle

***imbricata*** (Haworth) F.M. Knuth var. ***spinosior*** (Engelmann) Baker, Cloud-H. & Majure [M&H; Pinkava 2003; W&S]

*Opuntia imbricata* (Haworth) F.M. Knuth subsp. *spinosior* (Engelmann) Baker, Cloud-H. & Majure

*Opuntia spinosior* (Engelmann) Toumey

*Opuntia spinosior* (Engelmann) Toumey var. *neomexicana* Toumey

*Opuntia whipplei* Engelmann & Bigelow var. *spinosior* Engelmann

*imbricata* (Haworth) F.M. Knuth subsp. *spinosior* (Engelmann) Baker, Cloud-H. & Majure = *Cylindropuntia imbricata* (Haworth) F.M. Knuth var. *spinosior* (Engelmann) Baker, Cloud-H. & Majure

***kleiniae*** (A.P. de Candolle) F.M. Knuth [M&H; Pinkava 2003; W&S]

*Opuntia kleiniae* A.P. de Candolle

***leptocaulis*** (A.P. de Candolle) F.M. Knuth [M&H; Pinkava 2003; W&S]

desert Christmas cactus

*Opuntia leptocaulis* A.P. de Candolle

*spinosior* (Engelmann) F.M. Knuth = *Cylindropuntia imbricata* (Haworth) F.M. Knuth var. *spinosior* (Engelmann) Baker, Cloud-H. & Majure

×*viridiflora* (Britton & Rose) F.M. Knuth = *Cylindropuntia whipplei* (Engelmann & Bigelow) F.M. Knuth

***whipplei*** (Engelmann & Bigelow) F.M. Knuth [M&H; Pinkava 2003; W&S]

*Cylindropuntia ×viridiflora* (Britton & Rose) F.M. Knuth

*Opuntia viridiflora* Britton & Rose

*Opuntia whipplei* Engelmann & Bigelow

*Opuntia whipplei* Engelmann & Bigelow var. *viridiflora* (Britton & Rose) L. Benson

***Echinocactus*** echinocactus

Vargas-Luna, M.D., P. Hernández-Ledesma, L.C. Majure, R. Puente-Martínez, H.M. Hernández Macías, & R.T. Bárcenas Luna. 2018. Splitting *Echinocactus*: morphological and molecular evidence support the recognition of *Homalocephala* as a distinct genus in the Cactaceae. PhytoKeys 111: 31-59.

Vazquez-Sanchez, M., T. Terrazas, S. Arias, & H. Ochoterena. 2013. Molecular phylogeny, origin and taxonomic implications of the tribe Cactaceae (Cactaceae). Systematics & Biodiversity 11(1): 103-116.

Zimmerman, A.D. & B.D. Parfitt. 2003. *Echinocactus*, pp. 188-191. IN: Flora of North America, vol. 4, pt.1. Oxford University Press, New York.

*bicolor* Galeotti ex Pfeiffer = *Thelocactus bicolor* (Galeotti ex Pfeiffer) Britton & Rose

*dasyacanthus* Engelm. = *Echinomastus intertextus* (Engelm.) Britton & Rose var. *dasyacanthus* (Engelm.) Backeberg

*glaucus* K. Schumann [= *Sclerocactus glaucus* (J.A. Purpus) L. Benson] : Reported by W&S, but not occurring in NM [Benson 1982; Heil & Porter 1994].

*hamatacanthus* Muehlenpfordt = *Ferocactus hamatacanthus* (Muehlenpfordt) Britton & Rose

***horizontalonius*** Lemaire [M&H; W&S; Zimmerman & Parfitt 2003]

eagle-claw cactus

*intertextus* Engelm. = *Echinomastus intertextus* (Engelm.) Britton & Rose

*mesae-verdae* (Boissevain & C. Davidson) L. Benson = *Sclerocactus mesae-verdae* (Boissevain ex Boissevain & C. Davidson) L. Benson

*papyracanthus* Engelm. = *Sclerocactus papyracanthus* (Engelm.) N.P. Taylor

*polycephalus* Engelm. & J.M. Bigelow var. *xeranthemoides* J.M. Coulter : Reported by Hall & Flowers (1961); out of range; awaits verification.

*reichenbachii* Terschek ex Walpers = *Echinocereus reichenbachii* (Terschek ex Walpers) Haage f.

*strobiliformis* of NM reports = *Escobaria tuberculosa* (Engelm.) Britton & Rose

*texensis* Hopffer = *Homalocephala texensis* (Hopffer) Britton & Rose

*uncinatus* Galeotti var. *wrightii* Engelm. = *Glandulicactus uncinatus* (Galeotti)

Backeberg var. *wrightii* (Engelm.) Backeberg

*wislizeni* Engelm. = *Ferocactus wislizeni* (Engelm.) Britton & Rose

***Echinocereus*** hedgehog-cactus

Baker, M.A. 2006. Circumscription of *Echinocereus arizonicus* subsp. *arizonicus*: Phenetic analysis of morphological characters in section *Triglochidiatus* (Cactaceae), part II. *Madrono* 53(4): 388-399. [*Echinocereus arizonicus nigrihorridispinus*]

Baker, M.A. 2007. Defining populations of the Kuenzler's hedgehog cactus (*Echinocereus fendleri* var. *kuenzleri*). A multivariate study of morphological characters. Report to U.S. Forest Service, Lincoln National Forest, Alamogordo, New Mexico.

Blum, W., M. Lange, W. Rischer, & J. Rutow. 1998. *Echinocereus*. Fa. Proost. N.V., Turnhout, Belgium. [*Echinocereus arizonicus nigrihorridispinus*]

Castetter, E.F., P. Pierce, and K.H. Schwerin. 1976. A new cactus species and two new varieties from New Mexico. *Cactus & Succulent J.* 48:77-81. [*Echinocereus kuenzleri*]

Felix, D., H. Bauer, & W. Blum. 2014. *Echinocereus fendleri* (G. Engelm.) F. Senke ex J.N. Haage: und seine Unterarten. *ECHINOCEREUS Online-journal* 2(2): 58-112.

Ferguson, D.J. 1989. Revision of the U.S. members of the *Echinocereus triglochidiatus* group. *Cactus & Succulent Journal (U.S.)* 61:217-224.

Great Plains Flora Association. 1977. Atlas of the Flora of the Great Plains. Iowa State Univ. Press. 600 pp. [*Echinocereus reichenbachii baileyi*]

Powell, A.M., A.D. Zimmerman, & R.A. Hilsenbeck. 1991. Experimental documentation of natural hybridization in Cactaceae: origin of Lloyd's hedgehog cactus, *Echinocereus xloydii*. *Pl. Syst. Evol.* 178:107-122.

Sanchez, D., S. Arias, & T. Terrazas. 2014. Phylogenetic relationships of *Echinocereus* (Cactaceae, Cactoideae). *Syst. Bot.* 39(4): 1183-1196.

Taylor, N.P. 1985. The genus *Echinocereus*. Timber Press, Portland, Oregon.

Zimmerman, A.D. & B.D. Parfitt. 2003. *Echinocereus*, pp. 157-174. IN: *Flora of North America*, vol. 4, pt.1. Oxford University Press, New York.

*arizonicus* Rose ex Orcutt of NM reports = *Echinocereus arizonicus* Rose ex Orcutt subsp. *nigrihorridispinus* W. Blum & Rutow

*Echinocereus coccineus* Engelm. var. *arizonicus* (Rose ex Orcutt) Ferguson

*Echinocereus triglochidiatus* Engelm. var. *arizonicus* (Rose ex Orcutt) L. Benson

***arizonicus*** Rose ex Orcutt subsp. ***nigrihorridispinus*** W. Blum & Rutow [Baker 2006; Blum et al. 1998; Ferguson 1989; Zimmerman & Parfitt 2003]

*Echinocereus arizonicus* of NM reports

*chloranthus* Engelm. = *Echinocereus viridiflorus* Engelm.

*chloranthus* Engelm. var. *cylindricus* (Engelm.) N.P. Taylor = *Echinocereus viridiflorus* Engelm.

*chloranthus* Engelm. subsp. *rhyolithensis* Blum & Lange = *Echinocereus viridiflorus* Engelm.

*coccineus* Engelm. var. *arizonicus* (Rose ex Orcutt) Ferguson = *Echinocereus arizonicus* Rose ex Orcutt

***coccineus*** Engelm. [Ferguson 1989; M&H; W&S; Zimmerman & Parfitt 2003]

*Cereus coccineus* (Engelm.) Engelm. var. *cylindricus* Engelm.

- Cereus coccineus* (Engelmann) Engelmann var. *melanacanthus* Engelmann  
*Cereus conoideus* Engelmann & Bigelow  
*Echinocereus conoideus* (Engelmann & Bigelow) Engelmann  
*Echinocereus melanacanthus* (Engelmann) Engelmann  
*Echinocereus polyacanthus* Engelmann  
*Echinocereus rosei* Wootton & Standley  
*Echinocereus triglochidiatus* Engelmann var. *melanacanthus* (Engelmann) L. Benson  
*coccineus* Engelmann var. *gurneyi* (Benson) Heil & Brack = *Echinocereus* ×roetteri (Engelmann) Rümpler  
*conoideus* Engelmann = *Echinocereus coccineus* Engelmann  
***dasyacanthus*** Engelmann [M&H; W&S; Zimmerman & Parfitt 2003]  
*Echinocereus pectinatus* (Schwidweiler) Engelmann var. *dasyacanthus* (Engelmann) N.P. Taylor  
*dasyacanthus* Engelmann in Wislizenus var. *rigidissimus* (Engelmann) W.T. Marshall = *Echinocereus rigidissimus* (Engelmann) Rose  
*enneacanthus* Engelmann var. *brevispinus* (W.O. Moore) L. Benson : Erroneously reported for NM by Taylor (1985), citing the Ash Canyon record for *Echinocereus enneacanthus* Engelmann var. *enneacanthus* reported by Benson (1982).  
***enneacanthus*** Engelmann var. ***enneacanthus*** [Benson 1982]. Note: Reported from Ash Canyon, San Andres Mts, Doña Ana County, but Zimmerman & Parfitt (2003) dispute this; warrants verification.  
*Echinocereus enneacanthus* Engelmann var. *dubius* (Engelmann) L. Benson  
*enneacanthus* Engelmann var. *dubius* (Engelmann) L. Benson = *Echinocereus enneacanthus* Engelmann var. *enneacanthus*  
*enneacanthus* Engelmann var. *stramineus* (Engelmann) L. Benson = *Echinocereus stramineus* (Engelmann) F. Seitz  
*fasciculatus* (Engelmann) L. Benson : Not known from NM (Zimmerman & Parfitt 2003); NM reports probably pertain to *Echinocereus fendleri* (Engelmann) Sencke ex J.N. Haage  
*Cereus fendleri* Engelmann var. *pauperculus* Engelmann  
*Echinocereus fendleri* (Engelmann) Sencke ex J.N. Haage var. *fasciculatus* (Engelmann ex S. Watson) N.P. Taylor  
*fendleri* (Engelmann) Sencke ex J.N. Haage var. *fasciculatus* (Engelmann ex S. Watson) N.P. Taylor = *Echinocereus fasciculatus* (Engelmann ex S. Watson) L. Benson  
***fendleri*** (Engelmann) Sencke ex J.N. Haage [M&H; Zimmerman & Parfitt 2003]  
*Cereus fendleri* Engelmann  
*Echinocereus fendleri* (Engelmann) Sencke ex J.N. Haage subsp. *kuenzleri* (Castetter, Pierce & Schwerin) Blum & Felix  
*Echinocereus fendleri* (Engelmann) Sencke ex J.N. Haage var. *kuenzleri* (Castetter, Pierce & Schwerin) L. Benson  
*Echinocereus fendleri* (Engelmann) Sencke ex J.N. Haage var. *rectispinus* (Peebles) L. Benson  
*Echinocereus kuenzleri* Castetter, Pierce & Schwerin  
*Echinocereus rectispinus* Peebles  
*fendleri* (Engelmann) Sencke ex J.N. Haage var. *kuenzleri* (Castetter, Pierce & Schwerin) L. Benson = *Echinocereus fendleri* (Engelmann) Sencke ex J.N. Haage  
*fendleri* (Engelmann) Sencke ex J.N. Haage subsp. *kuenzleri* (Castetter, Pierce & Schwerin) Blum & Felix = *Echinocereus fendleri* (Engelmann) Sencke ex J.N. Haage  
*fendleri* (Engelmann) Sencke ex J.N. Haage var. *rectispinus* (Peebles) L. Benson = *Echinocereus fendleri* (Engelmann) Sencke ex J.N. Haage  
*gonacanthus* (Engelmann & Bigelow) Engelmann ex Rümpler = *Echinocereus triglochidiatus* Engelmann  
*kuenzleri* Castetter, Pierce & Schwerin = *Echinocereus fendleri* (Engelmann) Sencke ex J.N. Haage  
*lloydii* Britton & Rose = *Echinocereus* ×roetteri (Engelmann) Rümpler  
*melanacanthus* Engelmann = *Echinocereus coccineus* Engelmann  
*neomexicanus* Coulter = *Echinocereus* ×roetteri (Engelmann) Rümpler  
*neomexicanus* Standley = *Echinocereus triglochidiatus* Engelmann

- paucispinus Engelman ex Rümpler [=Echinocereus triglochidiatus Engelman var. paucispinus (Engelman) Engelman ex W.T. Marshall] : Reported by W&S, but not by any others; needs verification.
- pectinatus* (Schwidweiler) Engelman var. *dasyacanthus* (Engelman) N.P. Taylor = *Echinocereus dasyacanthus* Engelman
- pectinatus* (Schwidweiler) Engelman var. *minor* (Engelman) L. Benson = *Echinocereus* ×*roetteri* (Engelman) Rümpler
- pectinatus* (Schwidweiler) Engelman var. *neomexicanus* (Coulter) L. Benson = *Echinocereus* ×*roetteri* (Engelman) Rümpler
- pectinatus* (Schwidweiler) Engelman var. *rigidissimus* (Engelman) Engelman ex Rümpler = *Echinocereus rigidissimus* (Engelman) Rose
- polyacanthus* Engelman = *Echinocereus coccineus* Engelman
- rectispinus* Peebles = *Echinocereus fendleri* (Engelman) Sencke ex J.N. Haage
- reichenbachii*** (Terscheck ex Walpers) Haage f. [M&H; Zimmerman & Parfitt 2003]  
*Echinocactus reichenbachii* Terscheck ex Walpers  
*Echinocereus reichenbachii* (Terscheck ex Walpers) Haage f. var. *albospinus* (Lahman) L. Benson  
*Echinocereus reichenbachii* (Terscheck ex Walpers) Haage f. var. *baileyi* (Rose) N.P. Taylor  
*Echinocereus reichenbachii* (Terscheck ex Walpers) Haage f. var. *perbellus* (Britton & Rose) L. Benson
- reichenbachii* (Terscheck ex Walpers) Haage f. var. *albospinus* (Lahman) L. Benson = *Echinocereus reichenbachii* (Terscheck ex Walpers) Haage f.
- reichenbachii* (Terscheck ex Walpers) Haage f. var. *baileyi* (Rose) N.P. Taylor = *Echinocereus reichenbachii* (Terscheck ex Walpers) Haage f.
- reichenbachii* (Terscheck ex Walpers) Haage f. var. *perbellus* (Britton & Rose) L. Benson = *Echinocereus reichenbachii* (Terscheck ex Walpers) Haage f.
- rigidissimus*** (Engelman) Rose var. ***rigidissimus*** [M&H; W&S; Zimmerman & Parfitt 2003]  
*Cereus pectinatus* Engelman in Gray var. *rigidissimus* Engelman  
*Echinocereus dasyacanthus* Engelman in Wislizenus var. *rigidissimus* (Engelman) W.T. Marshall  
*Echinocereus pectinatus* (Schwidweiler) Engelman var. *rigidissimus* (Engelman) Engelman ex Rümpler
- rosei* Wooton & Standley = *Echinocereus coccineus* Engelman
- ×***roetteri*** (Engelman) Rümpler [Anderson 2001; M&H; Zimmerman & Parfitt 2003]  
*Cereus roetteri* Engelman  
*Echinocereus coccineus* Engelman var. *gurneyi* (Benson) Heil & Brack  
*Echinocereus lloydii* Britton & Rose  
*Echinocereus neomexicanus* Coulter  
*Echinocereus pectinatus* (Schwidweiler) Engelman var. *minor* (Engelman) L. Benson  
*Echinocereus pectinatus* (Schwidweiler) Engelman var. *neomexicanus* (Coulter) L. Benson  
*Echinocereus triglochidiatus* Engelman var. *gurneyi* Benson
- stramineus*** (Engelman) F. Seitz [M&H; W&S; Zimmerman & Parfitt 2003]  
 strawberry hedgehog-cactus  
*Cereus stramineus* Engelman  
*Echinocereus enneacanthus* Engelman var. *stramineus* (Engelman) L. Benson
- triglochidiatus* Engelman var. *arizonicus* (Rose ex Orcutt) L. Benson = *Echinocereus arizonicus* Rose ex Orcutt
- triglochidiatus* Engelman var. *gonacanthus* (Engelman & Bigelow) Boissevain = *Echinocereus triglochidiatus* Engelman
- triglochidiatus* Engelman var. *gurneyi* L. Benson = *Echinocereus* ×*roetteri* (Engelman) Rümpler
- triglochidiatus* Engelman var. *melanacanthus* (Engelman) L. Benson = *Echinocereus coccineus* Engelman
- triglochidiatus* Engelman var. *mojavensis* (Engelman & Bigelow) L. Benson = *Echinocereus triglochidiatus* Engelman



- triglochidiatus* Engelmann var. *neomexicanus* (Standley) Standley ex W.T. Marshall =  
Echinocereus triglochidiatus Engelmann
- triglochidiatus*** Engelmann [1848] [Ferguson 1989; M&H; W&S; Zimmerman & Parfitt 2003]  
claret-cup cactus  
*Cereus gonacanthus* Engelmann & Bigelow  
*Cereus mojavenensis* Engelmann & Bigelow [1856]  
*Echinocereus neomexicanus* Standley  
*Echinocereus gonacanthus* (Engelmann & Bigelow) Engelmann ex Rümpler  
*Echinocereus triglochidiatus* Engelmann var. *gonacanthus* (Engelmann &  
Bigelow) Boissevain  
*Echinocereus triglochidiatus* Engelmann var. *mojavenensis* (Engelmann &  
Bigelow) L. Benson  
*Echinocereus triglochidiatus* Engelmann var. *neomexicanus* (Standley) Standley  
ex W.T. Marshall
- viridiflorus* Engelmann subsp. *chloranthus* (Engelmann) N.P. Taylor = Echinocereus  
viridiflorus Engelmann
- viridiflorus* Engelmann subsp. *cylindricus* (Engelmann) N.P. Taylor = Echinocereus  
viridiflorus Engelmann
- viridiflorus*** Engelmann [M&H; W&S; Zimmerman & Parfitt 2003]  
*Cereus chloranthus* Engelmann  
*Echinocereus chloranthus* (Engelmann) Haage  
*Echinocereus chloranthus* Engelmann var. *cylindricus* (Engelmann) N.P. Taylor  
*Echinocereus chloranthus* Engelmann subsp. *rhyolithensis* Blum & Lange  
*Echinocereus viridiflorus* Engelmann subsp. *chloranthus* (Engelmann) N.P.  
Taylor  
*Echinocereus viridiflorus* Engelmann subsp. *cylindricus* (Engelmann) N.P.  
Taylor
- Echinomastus*** early-bloomer  
Nyffeler, R. & U. Eggli. 2010. A farewell to dated ideas and concepts: molecular phylogenetics and a  
revised suprageneric classification of the family Cactaceae. *Schumannia* 6: 109-149.
- Vazquez-Sanchez, M., T. Terrazas, S. Arias, & H. Ochoterena. 2013. Molecular phylogeny, origin and  
taxonomic implications of the tribe Cactaeae (Cactaceae). *Systematics & Biodiversity* 11(1): 103-  
116.
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pt.1. Oxford University Press, New York.
- dasyacanthus* (Engelmann) Britton & Rose = Echinomastus intertextus (Engelmann)  
Britton & Rose var. *dasyacanthus* (Engelmann) Backeberg
- intertextus*** (Engelmann) Britton & Rose var. ***dasyacanthus*** (Engelmann)  
Backeberg [M&H; W&S; Zimmerman & Parfitt 2003]  
*Echinocactus dasyacanthus* Engelmann  
*Echinomastus dasyacanthus* (Engelmann) Britton & Rose  
*Neolloydia intertexta* (Engelmann) L. Benson var. *dasyacantha* (Engelmann) L.  
Benson
- intertextus*** (Engelmann) Britton & Rose var. ***intertextus*** [M&H; W&S; Zimmerman &  
Parfitt 2003]  
*Echinocactus intertextus* Engelmann  
*Neolloydia intertexta* (Engelmann) L. Benson
- Epithelantha*** button cactus  
Aquino, D., R.C. Cervantes, D.S. Gemandt, & S. Arias. 2019. Species delimitation and phylogeny of  
*Epithelantha* (Cactaceae). *Syst. Bot.* 44(3): 600-615.
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1. Oxford University Press, New York.
- micromeris*** (Engelmann) Weber ex Britton & Rose var. ***micromeris*** [M&H; W&S;  
Zimmerman & Parfitt 2003]  
*Mammillaria micromeris* Engelmann
- Escobaria*** pincushion cactus  
Baker, M.A. & R.A. Johnson. 2000. Morphometric analysis of *Escobaria sneedii* var. *sneedii*, *E. sneedii*  
var. *lei*, and *E. guadalupensis* (Cactaceae). *Syst. Bot.* 25(4):577-587.
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*Journal* (U.S.) 58(4):165-177.
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*Succ. J.* (USA). 78(4): 184-189.

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- Gorelick, R. 2015. Corrigendum: New combinations in *Coryphantha* and *Escobaria* (Cactaceae). J. Bot. Res. Inst. Texas 9(2): 351-352.
- Taylor, N.P. 1978. Review of the genus *Escobaria* B. & R. Cactus & Succulent J. of Great Britain 40(2):31-37.
- Zimmerman, A.D. & B.D. Parfitt. 2003. *Coryphantha*, pp. 220-237. IN: Flora of North America, vol. 4, pt. 1. Oxford University Press, New York.
- dasyacantha* (Engelmann) Britton & Rose : Though reported by M&H, W&S, and Gorelick 2006, plants reputed to be this species have been studied in detail by Baker & Johnson (2000) and other NM botanists, who all agree that the population belongs to *Escobaria sneedii* Britton & Rose  
*Coryphantha dasyacantha* (Engelmann) A. Berger  
*Mammillaria dasyacantha* Engelmann
- duncanii*** (Hester) Backeberg [M&H; Zimmerman & Parfitt 2003]  
*Coryphantha duncanii* (Hester) L. Benson  
*Escobeseya duncanii* Hester
- guadalupensis* Brack & Heil = *Escobaria sneedii* Britton & Rose  
*leei* Rose ex Bodecker = *Escobaria sneedii* Britton & Rose
- missouriensis*** (Sweet) D.R. Hunt [M&H; Zimmerman & Parfitt 2003]  
*Coryphantha missouriensis* (Sweet) Britton & Rose  
*Mammillaria missouriensis* Sweet  
*Neobessya missouriensis* (Sweet) Britton & Rose
- orcuttii* (Rose ex Orcutt) Bödeker var. *koenigii* Castetter, Pierce, & Schwerin = *Escobaria sneedii* Britton & Rose
- orcuttii* (Rose ex Orcutt) Bödeker var. *macraxina* Castetter, Pierce, & Schwerin = *Escobaria sneedii* Britton & Rose
- orcuttii* (Rose ex Orcutt) Bödeker = *Escobaria sneedii* Britton & Rose
- organensis* (D. Zimmerman) Castetter, Pierce, & Schwerin = *Escobaria sneedii* Britton & Rose
- sandbergii* Castetter, Pierce, & Schwerin = *Escobaria sneedii* Britton & Rose
- sneedii*** Britton & Rose [M&H; Zimmerman & Parfitt 2003]  
*Coryphantha sneedii* (Britton & Rose) Berger  
*Coryphantha sneedii* (Britton & Rose) Berger var. *guadalupensis* (Brack & Heil) A.D. Zimmerman  
*Coryphantha sneedii* (Britton & Rose) Berger var. *leei* (Bödecker) L. Benson  
*Coryphantha sneedii* (Britton & Rose) Berger var. *orcuttii* (Rose ex Bödeker) Gorelick  
*Coryphantha strobiliformis* (Poselger) Orcutt var. *orcuttii* (Rose ex Bödeker) L. Benson  
*Coryphantha organensis* D. Zimmerman  
*Escobaria guadalupensis* Brack & Heil  
*Escobaria leei* Rose ex Bödecker  
*Escobaria orcuttii* Boedeker  
*Escobaria orcuttii* (Rose ex Orcutt) Bödeker var. *koenigii* Castetter, Pierce, & Schwerin  
*Escobaria orcuttii* (Rose ex Orcutt) Bödeker var. *macraxina* Castetter, Pierce, & Schwerin  
*Escobaria organensis* (D. Zimmerman) Castetter, Pierce, & Schwerin  
*Escobaria sandbergii* Castetter, Pierce, & Schwerin  
*Escobaria sneedii* Britton & Rose subsp. *leei* (Rose ex Bödecker) D.R. Hunt  
*Escobaria sneedii* Britton & Rose var. *orcuttii* (Rose ex Bödeker) Gorelick ined., not validly published  
*Escobaria sneedii* Britton & Rose subsp. *sandbergii* (Castetter, Pierce, & Schwerin) Lüthy  
*Escobaria sneedii* Britton & Rose subsp. *villardii* (Castetter, Pierce, & Schwerin) Lüthy  
*Escobaria villardii* Castetter, Pierce, & Schwerin  
*Mammillaria leei* (Rose ex Bödecker) Rose  
*sneedii* Britton & Rose var. *guadalupensis* = *Escobaria sneedii* Britton & Rose  
*sneedii* Britton & Rose var. *leei* (Bödecker) D.R. Hunt = *Escobaria sneedii* Britton & Rose

- sneedii* Britton & Rose subsp. *villardii* (Castetter, Pierce, & Schwerin) Lüthy = *Escobaria sneedii* Britton & Rose
- strobiliformis* (Poselger) Scheere ex Bödeker : The type of this taxon belongs to *Escobaria chihuahuensis* Britton & Rose, not known from NM; our plants belong to *Escobaria tuberculosa* (Engelmann) Britton & Rose
- tuberculosa*** (Engelmann) Britton & Rose [M&H; W&S; Zimmerman & Parfitt 2003]  
*Coryphantha strobiliformis* of NM reports  
*Coryphantha tuberculosa* (Engelmann) A. Berger  
*Echinocactus strobiliformis* of NM reports  
*Escobaria strobiliformis* of NM reports  
*Mammillaria tuberculosa* Engelmann
- villardii* Castetter, Pierce, & Schwerin = *Escobaria sneedii* Britton & Rose
- vivipara*** (Nuttall) F. Buxbaum [M&H; W&S; Zimmerman & Parfitt 2003]  
*Cactus viviparus* Nuttall  
*Coryphantha arizonica* (Engelmann) Britton & Rose  
*Coryphantha bisbeeana* Orcutt  
*Coryphantha vivipara* (Nuttall) Britton & Rose var. *arizonica* (Engelmann) W.T. Marshall  
*Coryphantha vivipara* (Nuttall) Britton & Rose var. *bisbeeana* (Orcutt) L. Benson  
*Coryphantha vivipara* (Nuttall) Britton & Rose var. *radiosa* (Engelmann) Backeberg  
*Escobaria vivipara* (Nuttall) F. Buxbaum var. *arizonica* (Engelmann) D.R. Hunt  
*Escobaria vivipara* (Nuttall) F. Buxbaum var. *bisbeeana* (Orcutt) D.R. Hunt  
*Escobaria vivipara* (Nuttall) F. Buxbaum var. *neomexicana* (Engelmann) F. Buxbaum  
*Escobaria vivipara* (Nuttall) F. Buxbaum var. *radiosa* (Engelmann) D.R. Hunt  
*Mammillaria arizonica* Engelmann  
*Mammillaria neomexicana* Engelmann  
*Mammillaria radiosa* Engelmann  
*Mammillaria vivipara* (Nuttall) Haworth var. *neomexicana* (Engelmann) Engelmann  
*Mammillaria vivipara* (Nuttall) Haworth
- vivipara* (Nuttall) F. Buxbaum var. *arizonica* (Engelmann) D.R. Hunt = *Escobaria vivipara* (Nuttall) F. Buxbaum
- vivipara* (Nuttall) F. Buxbaum var. *bisbeeana* (Orcutt) D.R. Hunt = *Escobaria vivipara* (Nuttall) F. Buxbaum
- vivipara* (Nuttall) F. Buxbaum var. *radiosa* (Engelmann) D.R. Hunt = *Escobaria vivipara* (Nuttall) F. Buxbaum
- vivipara* (Nuttall) F. Buxbaum var. *neomexicana* (Engelmann) F. Buxbaum = *Escobaria vivipara* (Nuttall) F. Buxbaum
- vivipara* (Nuttall) F. Buxbaum = *Escobaria vivipara* (Nuttall) F. Buxbaum
- Escobeseya duncanii* Hester = *Escobaria duncanii* (Hester) Backeberg
- Ferocactus*** fish-hook cactus  
Zimmerman, A.D. & B.D. Parfitt. 2003. *Ferocactus*, pp. 243-247. IN: Flora of North America, vol. 4, pt. 1. Oxford University Press, New York.
- hamatacanthus* (Muehlenpfordt) Britton & Rose : Reported by Benson (1982), M&H, and Zimmerman & Parfitt (2003), all based on a personal communication from E.F. Castetter to L. Benson; no specimens are known or were ever cited; awaits verification.  
*Echinocactus hamatacanthus* Muehlenpfordt
- wislizeni*** (Engelmann) Britton & Rose [Benson 1982; M&H; W&S; Zimmerman & Parfitt 2003]  
*Echinocactus wislizeni* Engelmann
- Glandulicactus*** fish-hook cactus  
Zimmerman, A.D. & B.D. Parfitt. 2003. *Glandulicactus*, pp. 207-208. IN: Flora of North America, vol. 4, pt. 1. Oxford University Press, New York.
- uncinatus*** (Galeotti) Backeberg var. ***wrightii*** (Engelmann) Backeberg [M&H; W&S; Zimmerman & Parfitt 2003]

- Ancistrocactus uncinatus* (Galeotti) L. Benson var. *wrightii* (Engelmann) L. Benson  
*Echinocactus uncinatus* Galeotti var. *wrightii* Engelmann  
*Sclerocactus uncinatus* (Galeotti) N.P. Taylor subsp. *wrightii* (Engelmann) N.P. Taylor  
*Thelocactus uncinatus* (Galeotti) Marshall var. *wrightii* (Engelmann) Marshall  
*Grusonia clavata* (Engelmann) H. Robinson = *Corynopuntia clavata* (Engelmann) F.M. Knuth  
*emoryi* (Engelmann) Pinkava = *Corynopuntia* (Engelmann) M.P. Griff  
*grahamii* (Engelmann) H. Robinson = *Corynopuntia grahamii* (Engelmann) F.M. Knuth  
**Homalocephala** horse-crippler  
Vargas-Luna, M.D., P. Hernández-Ledesma, L.C. Majure, R. Puente-Martínez, H.M. Hernández Macías, & R.T. Bárcenas Luna. 2018. Splitting *Echinocactus*: morphological and molecular evidence support the recognition of *Homalocephala* as a distinct genus in the Cactaeae. *PhytoKeys* 111: 31-59.  
Vazquez-Sanchez, M., T. Terrazas, S. Arias, & H. Ochoterena. 2013. Molecular phylogeny, origin and taxonomic implications of the tribe Cactaeae (Cactaceae). *Systematics & Biodiversity* 11(1): 103-116.  
Zimmerman, A.D. & B.D. Parfitt. 2003. *Echinocactus*, pp. 188-191. IN: *Flora of North America*, vol. 4, pt.1. Oxford University Press, New York.  
**texensis** (Hopffer) Britton & Rose [M&H; W&S; Zimmerman & Parfitt 2003]  
horse-crippler  
**Mammillaria** nipple-cactus  
Butterworth, C.A. & R.S. Wallace. 2004. Phylogenetic studies of *Mammillaria* (Cactaceae) – insights from chloroplast sequence variation and hypothesis testing using the parametric bootstrap. *Amer. J. Bot.* 91(7): 1086-1098.  
Hunt, D.R. 1971. Schumann and Buxbaum reconciled. The Schumann system of *Mammillaria* classification brought provisionally up-to-date. *Cact. Succ. J. Gr. Brit.* 33:53-72.  
Zimmerman, A.D. & B.D. Parfitt. 2003. *Mammillaria*, pp. 247-257. IN: *Flora of North America*, vol. 4, pt. 1. Oxford University Press, New York.  
*applanata* Engelmann = *Mammillaria heyderi* Muehlenpfordt var. *heyderi*  
*arizonica* Engelmann = *Escobaria vivipara* (Nuttall) F. Buxbaum  
**barbata** Engelmann [M&H; Zimmerman & Parfitt 2003]  
*Mammillaria chavezzei* Cowper  
*Mammillaria orestera* L. Benson  
*Mammillaria viridiflora* (Britton & Rose) Bödeker  
*chavezzei* Cowper = *Mammillaria barbata* Engelmann  
*dasyacantha* Engelmann = *Coryphantha dasyacantha* (Engelmann) Orcutt  
**grahamii** Engelmann [M&H; W&S; Zimmerman & Parfitt 2003]  
*Mammillaria microcarpa* Engelmann  
*gummifera* Engelmann var. *applanata* (Engelmann) L. Benson = *Mammillaria heyderi* Muehlenpfordt var. *heyderi*  
*gummifera* Engelmann var. *meiacantha* (Engelmann) L. Benson = *Mammillaria meiacantha* Engelmann  
**heyderi** Muehlenpfordt var. **heyderi** [M&H; W&S; Zimmerman & Parfitt 2003]  
*Mammillaria applanata* Engelmann  
*Mammillaria gummifera* Engelmann var. *applanata* (Engelmann) L. Benson  
**heyderi** Muehlenpfordt var. **bullingtoniana** Castetter, P. Pierce & K.H. Schwerin [Zimmerman & Parfitt 2003]  
*Mammillaria heyderi* Muehlenpfordt var. *macdougalii* of NM reports  
*heyderi* Muehlenpfordt var. *macdougalii* (Rose) L. Benson [= *Mammillaria macdougalii* Rose] : Known only from near Tucson, Arizona; NM reports refer to *Mammillaria heyderi* Muehlenpfordt var. *bullingtoniana* Castetter, P. Pierce & K.H. Schwerin  
*heyderi* Muehlenpfordt var. *meiacantha* (Engelmann) L. Benson = *Mammillaria meiacantha* Engelmann  
**lasiacantha** Engelmann [M&H; W&S; Zimmerman & Parfitt 2003]  
*Mammillaria lasiacantha* Engelmann var. *denudata* Engelmann  
*lasiacantha* Engelmann var. *denudata* Engelmann = *Mammillaria lasiacantha* Engelmann  
*leei* (Boedeker) Rose = *Escobaria sneedii* Britton & Rose  
*macromeris* Engelmann = *Coryphantha macromeris* (Engelmann) Britton & Rose  
**meiacantha** Engelmann [M&H; W&S; Zimmerman & Parfitt 2003]  
*Mammillaria gummifera* Engelmann var. *meiacantha* (Engelmann) L. Benson

- Mammillaria heyderi* Muehlenpfordt var. *meiacantha* (Engelmann) L. Benson  
*Mammillaria melanocentra* Poselger var. *meiacantha* (Engelmann) Craig  
*melanocentra* Poselger var. *meiacantha* (Engelmann) Craig = *Mammillaria meiacantha*  
 Engelmann  
*microcarpa* Engelmann = *Mammillaria grahamii* Engelmann  
*micromeris* Engelmann = *Epithelantha micromeris* (Engelmann) Weber ex Britton & Rose  
*missouriensis* Sweet = *Escobaria missouriensis* (Sweet) D.R. Hunt  
*neomexicana* Engelmann = *Escobaria vivipara* (Nuttall) F. Buxbaum  
*orestera* Benson = *Mammillaria barbata* Engelmann  
*radiosa* Engelmann = *Escobaria vivipara* (Nuttall) F. Buxbaum  
*robustispina* Schott ex Engelmann = *Coryphantha robustispina* (Schott ex Engelmann)  
 Britton & Rose  
*scheeri* Muehlenpfordt = *Coryphantha robustispina* (Schott ex Engelmann) Britton & Rose  
 subsp. *scheeri* (Lemair) N.P. Taylor  
*scheeri* Muehlenpfordt var. *valida* Engelmann = *Coryphantha robustispina* (Schott ex  
 Engelmann) Britton & Rose subsp. *scheeri* (Lemair) N.P. Taylor  
*tuberculosa* Engelmann = *Escobaria tuberculosa* (Engelmann) Britton & Rose  
*viridiflora* (Britton & Rose) Bödeker = *Mammillaria barbata* Engelmann  
*vivipara* (Nuttall) Haworth = *Escobaria vivipara* (Nuttall) F. Buxbaum  
*vivipara* (Nuttall) Haworth var. *neomexicana* (Engelmann) Engelmann = *Escobaria vivipara*  
 (Nuttall) F. Buxbaum  
*wilcoxii* Toumey ex Schumann = *Mammillaria wrightii* Engelmann var. *wilcoxii* (Toumey  
 ex Schumann) Marshall  
***wrightii*** Engelmann var. ***wilcoxii*** (Toumey ex Schumann) Marshall [Benson 1982;  
 Zimmerman & Parfitt 2003]  
*Mammillaria wilcoxii* Toumey ex Schumann  
***wrightii*** Engelmann var. ***wrightii*** [Benson 1982; M&H; W&S; Zimmerman & Parfitt 2003]  
*Neobessya missouriensis* (Sweet) Britton & Rose = *Escobaria missouriensis* (Sweet) D.R. Hunt  
*Neolloydia intertexta* (Engelmann) L. Benson var. *dasyacantha* (Engelmann) L. Benson =  
*Echinomastus intertextus* (Engelmann) Britton & Rose var. *dasyacantha*  
 (Engelmann) Backeberg  
*intertexta* (Engelmann) L. Benson = *Echinomastus intertextus* (Engelmann) Britton & Rose  
 var. *intertextus*
- Opuntia***  
 prickly-pear
- Denham, R.A. 1996. New plant distribution records. The New Mexico Botanist 4:6. [*Opuntia*  
*chihuahuensis*]  
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 J. (U.S.) 59:256-260.  
 Ferguson, D.J. 1988. *Opuntia macrocentra* Eng. and *Opuntia chlorotica* Eng. & Big. Cactus and Succulent  
 Journal (U.S.) 60(3):155-160.  
 Grant, V. & K.A. Grant. 1979. Systematics of the *Opuntia phaeacantha* group in Texas. Bot. Gaz  
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*macrorhiza* (Cactaceae). The Southwestern Naturalist 56(2): 147-153.  
 Leuenberger, B.E. 1971. Interpretation and typification of *Cactus ficus-indica* Linnaeus and *Opuntia ficus-*  
*indica* (Linnaeus) Miller (Cactaceae). Taxon 40:621-627.  
 Majure, L.C., R. Puente, M.P. Griffith, W.S. Judd, P.S. Soltis, & D.E. Soltis. 2012. Phylogeny of *Opuntia*  
 s.s. (Cactaceae): Clade delineation, geographic origins, and reticulate evolution. Amer. J. Bot.  
 99(5): 847-864.  
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 and *O. lindheimeri* (Cactaceae). Madroño 35(4):342-349.  
 Pinkava, D.J. 2003. *Opuntia*, pp. 123-148. IN: Flora of North America, vol. 4, pt.1. Oxford University  
 Press, New York.  
 Pinkava, D.J. and B.D. Parfitt. 1988. Nomenclatural changes in Chihuahuan Desert *Opuntia* (Cactaceae).  
 Sida 13(2):125-130.  
 Sivinski, R.C. and K. Lightfoot, eds. 1994. Inventory of rare and endangered plants of New Mexico. New  
 Mexico Forestry and Resources Conservation Division, Misc. Publ. No. 3. [*Opuntia valida*]  
*arborescens* Engelmann in Wislizenus = *Cylindropuntia imbricata* (Haworth) F.M. Knuth  
*arenaria* Engelmann = *Opuntia polyacantha* Haworth var. *arenaria* (Engelmann) Parfitt  
*bigelovii* Engelmann = *Cylindropuntia bigelovii* (Engelmann) F.M. Knuth

- brachyarthra* Engelm. & Bigelow = *Opuntia fragilis* Nuttall  
***camanchica*** Engelm. & Bigelow [W&S]  
*Opuntia chihuahuensis* Rose  
*Opuntia phaeacantha* Engelm. var. *camanchica* (Engelm. & Bigelow) L. Benson  
*chihuahuensis* Rose = *Opuntia camanchica* Engelm.  
***chlorotica*** Engelm. & Bigelow var. ***chlorotica*** [M&H; W&S]  
***chlorotica*** Engelm. & Bigelow var. ***santa-rita*** Griffiths & Hare [M&H; W&S]  
*Opuntia santa-rita* (Griffiths & Hare) Rose  
*Opuntia violacea* Engelm. var. *santa-rita* (Griffiths & Hare) L. Benson  
*clavata* Engelm. = *Corynopuntia clavata* (Engelm.) F.M. Knuth  
*confusa* Griffiths = *Opuntia dulcis* Engelm.  
*cyclodes* (Engelm. & Bigelow) Rose = *Opuntia dulcis* Engelm.  
*cymochila* Engelm. & Bigelow = *Opuntia tortispina* Engelm. & J.M. Bigelow  
*cymochila* Engelm. var. *montana* Engelm. & Bigelow = *Opuntia pottsii* Salm-Dyck  
*davisii* Engelm. & Bigelow = *Cylindropuntia davisii* (Engelm. & Bigelow) F.M. Knuth  
*densispina* Ralston & Hilsenbeck = *Corynopuntia grahamii* (Engelm.) F.M. Knuth  
*dillei* Griffiths = *Opuntia orbiculata* Salm-Dyck ex Pfeiffer  
*discata* Griffiths = *Opuntia engelmannii* Salm-Dyck ex Engelm.  
***dulcis*** Engelm. [W&S]  
*Opuntia confusa* Griffiths  
*Opuntia cyclodes* (Engelm. & Bigelow) Rose  
*Opuntia engelmannii* Salm-Dyck ex Engelm. var. *cyclodes* Engelm. & Bigelow  
*Opuntia laevis* Coulter  
*Opuntia phaeacantha* Engelm. var. *major* Engelm.  
*emoryi* Engelm. = *Corynopuntia emoryi* (Engelm.) M.P. Griff  
***engelmannii*** Salm-Dyck ex Engelm. [M&H; W&S]  
*Opuntia discata* Griffiths  
*Opuntia microcarpa* Engelm. ex B.D. Jackson  
*Opuntia phaeacantha* Engelm. var. *discata* (Griffiths) Benson  
*Opuntia phaeacantha* Engelm. var. *wootonii* (Griffiths) L. Benson  
*Opuntia riparia* Griffiths  
*Opuntia tardospina* Griffiths  
*Opuntia wootonii* Griffiths  
*engelmannii* Salm-Dyck ex Engelm. var. *cyclodes* Engelm. & Bigelow = *Opuntia dulcis* Engelm.  
*engelmannii* Salm-Dyck ex Engelm. var. *linguiformis* (Griffiths) Parfitt & Pinkava = *Opuntia lindheimeri* Engelm.  
*erinacea* Engelm. & Bigelow ex Engelm. = *Opuntia polyacantha* Haworth var. *erinacea* (Engelm. & Bigelow) Parfitt  
*erinacea* Engelm. & Bigelow ex Engelm. var. *hystricina* (Engelm. & Bigelow) L. Benson = *Opuntia polyacantha* Haworth var. *hystricina* (Engelm. & Bigelow) Parfitt  
*erinacea* Engelm. & Bigelow var. *utahensis* (Engelm.) L. Benson : Reported by Benson (1982) and M&H, but not known to occur in NM [Ferguson, pers. comm. 1997; Parfitt, pers. comm. 1999].  
*Opuntia sphaerocarpa* Engelm. & Bigelow var. *utahensis* Engelm.  
 \**ficus-indica* (Linnaeus) Miller : Reported by Benson (1982), who cites one specimen from southern NM, but Ferguson (pers. comm. 1994) and Parfitt (pers. comm. 1999) maintain that this species is not known outside of cultivation in NM; warrants verification.  
*Cactus ficus-indica* Linnaeus  
*filipendula* Engelm. = *Opuntia pottsii* Salm-Dyck  
*fragilis* Nuttall var. *brachyarthra* (Engelm. & Bigelow) Coulter = *Opuntia fragilis* Nuttall  
***fragilis*** (Nuttall) Haworth [Benson 1982; M&H; W&S]  
*Cactus fragilis* Nuttall  
*Opuntia brachyarthra* Engelm. & Bigelow  
*Opuntia fragilis* Nuttall var. *brachyarthra* (Engelm. & Bigelow) Coulter

- fulgida* Engelmann = *Cylindropuntia fulgida* (Engelmann) F.M. Knuth  
*grahamii* Engelmann = *Corynopuntia grahamii* (Engelmann) F.M. Knuth  
***gilvescens*** Griffiths [FNM I]  
*Opuntia macrocentra* Engelmann var. *martiniana* L.D. Benson  
*gregoriana* Griffiths = *Opuntia phaeacantha* Engelmann  
*hystricina* Engelmann & Bigelow = *Opuntia polyacantha* Haworth var. *hystricina*  
 (Engelmann & Bigelow) Parfitt  
*imbricata* (Haworth) A.P. de Candolle = *Cylindropuntia imbricata* (Haworth) F.M. Knuth  
*kleiniae* A.P. de Candolle = *Cylindropuntia kleiniae* (A.P. de Candolle) F.M. Knuth  
 kunzei Rose : Not occurring in NM; plants called this by M&H and W&S belong to  
*Grusonia emoryi* (Engelmann) Pinkava [Parfitt, pers. comm. 1999].  
*laevis* Coulter = *Opuntia dulcis* Engelmann  
*leptocaulis* A.P. de Candolle = *Cylindropuntia leptocaulis* (A.P. de Candolle) F.M. Knuth  
***lindheimeri*** Engelmann [Benson 1982; M&H; W&S]  
*Opuntia engelmannii* Salm-Dyck ex Engelmann var. *lindheimeri* (Engelmann)  
 Parfitt & Pinkava  
*Opuntia engelmannii* Salm-Dyck ex Engelmann var. *linguiformis* (Griffiths)  
 Parfitt & Pinkava  
*Opuntis lindheimeri* Engelmann var. *linguiformis* (Griffiths) L.D. Benson  
*Opuntia linguiformis* Griffiths  
*lindheimeri* Engelmann var. *linguiformis* (Griffiths) L.D. Benson = *Opuntia lindheimeri*  
 Engelmann  
*linguiformis* Griffiths = *Opuntia lindheimeri* Engelmann  
*mackensenii* Rose = *Opuntia tirtuspina* Engelmann & J.M. Bigelow  
***macrocentra*** Engelmann [M&H; W&S]  
*Opuntia violacea* Engelmann ex B.D. Jackson  
*Opuntia violacea* Engelmann ex B.D. Jackson var. *castetteri* L. Benson  
*Opuntia violacea* Engelmann ex B.D. Jackson var. *macrocentra* (Engelmann) L.  
 Benson  
*macrocentra* Engelmann var. *martiniana* L.D. Benson = *Opuntia gilvescens* Griffiths  
***macrorhiza*** Engelmann [M&H; W&S]  
*Opuntia plumbea* Rose  
*Opuntia stenochila* Engelmann  
*macrorhiza* Engelmann var. *pottsii* (Salm-Dyck) L. Benson = *Opuntia pottsii* Salm-Dyck  
*microcarpa* Engelmann ex B.D. Jackson = *Opuntia engelmannii* Salm-Dyck ex Engelmann  
 var. *engelmannii*  
***microdasys*** (Lehmann) Pfeiffer [FNM I]  
 bunny ears prickly pear  
***orbiculata*** Salm-Dyck ex Pfeiffer [FNM I]  
*Opuntia dillei* Griffiths  
*phaeacantha* Engelmann var. *camanchica* (Engelmann & Bigelow) L. Benson = *Opuntia*  
*camanchica* Engelmann & Bigelow  
*phaeacantha* Engelmann var. *discata* Engelmann = *Opuntia engelmannii* Salm-Dyck ex  
 Engelmann  
*phaeacantha* Engelmann var. *major* Engelmann = *Opuntia dulcis* Engelmann  
***phaeacantha*** Engelmann [M&H; W&S]  
*Opuntia gregoriana* Griffiths  
*Opuntia toumeyii* Rose  
*Opuntia zuniensis* Griffiths  
*phaeacantha* Engelmann var. *wootonii* (Griffiths) L. Benson = *Opuntia engelmannii*  
*plumbea* Rose = *Opuntia macrorhiza* Engelmann  
***polyacantha*** Haworth var. *arenaria* (Engelmann) Parfitt [M&H; W&S]  
 starvation prickly-pear  
*Opuntia arenaria* Engelmann  
 polyacantha Haworth var. *erinacea* (Engelmann & Bigelow) Parfitt : Reported by Benson  
 (1982) and M&H, but known from western Arizona and Utah and  
 westward [Pinkava 2003].  
*Opuntia erinacea* Engelmann & Bigelow

- polyacantha** Haworth var. **hystricina** (Engelmann & Bigelow) Parfitt [M&H; W&S]  
*Opuntia erinacea* Engelmann & Bigelow ex Engelmann var. *hystricina* (Engelmann & Bigelow) L. Benson  
*Opuntia hystricina* Engelmann & Bigelow  
*polyacantha* Haworth var. *juniperina* (Engelmann) L. Benson = *Opuntia polyacantha* Hawarth var. *polyacantha*
- polyacantha** Haworth var. **polyacantha** [M&H; W&S]  
*Opuntia polyacantha* Haworth var. *juniperina* (Engelmann) L. Benson  
*Opuntia polyacantha* Haworth var. *rufispina* (Engelmann & Bigelow ex Engelmann) L. Benson  
*Opuntia polyacantha* Haworth var. *schweriniana* (K. Schumann) Backeberg  
*Opuntia polyacantha* Haworth var. *trichophora* (Engelmann & Bigelow) Coulter  
*Opuntia sphaerocarpa* Engelmann & Bigelow  
*Opuntia trichophora* (Engelmann & Bigelow) Britton & Rose  
*polyacantha* Haworth var. *schweriniana* (K. Schumann) Backeberg = *Opuntia polyacantha* Hawarth var. *polyacantha*  
*polyacantha* Haworth var. *rufispina* (Engelmann & Bigelow ex Engelmann) L. Benson = *Opuntia polyacantha* Hawarth var. *polyacantha*  
*polyacantha* Haworth var. *trichophora* (Engelmann & Bigelow) Coulter = *Opuntia polyacantha* Hawarth var. *polyacantha*
- pottsii** Salm-Dyck [M&H; W&S]  
*Opuntia cymochila* Engelmann var. *montana* Engelmann & Bigelow  
*Opuntia filipendula* Engelmann  
*Opuntia macrorhiza* Engelmann var. *pottsii* (Salm-Dyck) L. Benson  
*Opuntia pottsii* Salm-Dyck var. *montana* (Engelmann & Bigelow) Bulot  
*Opuntia tenuispina* Engelmann  
*pottsii* Salm-Dyck var. *montana* (Engelmann & Bigelow) Bulot = *Opuntia pottsii* Salm-Dyck
- riparia* Griffiths = *Opuntia engelmannii* Salm-Dyck ex Engelmann var. *engelmannii*  
*santa-rita* (Griffiths & Hare) Rose = *Opuntia chlorotica* Engelmann & Bigelow var. *santa-rita* Griffiths & Hare  
*schottii* Engelmann var. *grahamii* (Engelmann) L. Benson = *Corynopuntia grahamii* (Engelmann) F.M. Knuth  
*sphaerocarpa* Engelmann & Bigelow = *Opuntia polyacantha* Haworth var. *polyacantha*  
*sphaerocarpa* Engelmann & Bigelow var. *utahensis* Engelmann = *Opuntia erinacea* Engelmann & Bigelow var. *utahensis* (Engelmann) L. Benson  
*spinosior* (Engelmann) Toumey = *Cylindropuntia imbricata* (Haworth) F.M. Knuth var. *spinosior* (Engelmann) Baker, Cloud-H. & Majure  
*spinosior* (Engelmann) Toumey var. *neomexicana* Toumey = *Cylindropuntia imbricata* (Haworth) F.M. Knuth var. *spinosior* (Engelmann) Baker, Cloud-H. & Majure  
*stanlyi* Engelmann ex B.D. Jackson = *Corynopuntia emoryi* (Engelmann) M.P. Griff  
*stenochila* Engelmann = *Opuntia macrorhiza* Engelmann  
*tardospina* Griffiths = *Opuntia engelmannii* Salm-Dyck ex Engelmann var. *engelmannii*  
*tenuispina* Engelmann = *Opuntia pottsii* Salm-Dyck
- tortispina** Engelmann & Bigelow [Ferguson 1987; Pinkava 2003; W&S]  
*Opuntia cymochila* Engelmann & J.M. Bigelow  
*Opuntia mackensenii* Rose  
*Opuntia tortispina* Engelmann var. *cymochila* (Engelman & Bigelow) Backeberg  
*toumeyi* Rose = *Opuntia phaeacantha* Engelmann  
*trichophora* Britton & Rose = *Opuntia polyacantha* Haworth var. *polyacantha*  
*tunicata* (Lehmann) Link & Otto var. *davisii* (Engelmann & Bigelow) L. Benson = *Cylindropuntia davisii* (Engelmann & Bigelow) F.M. Knuth
- valida** Griffiths [FNM I]  
*violacea* Engelmann ex B.D. Jackson = *Opuntia macrocentra* Engelmann  
*violacea* Engelmann var. *castetteri* L. Benson = *Opuntia macrocentra* Engelmann



- violacea* Engelm. var. *macrocentra* (Engelm.) L. Benson = *Opuntia macrocentra* Engelm.
- violacea* Engelm. var. *santa-rita* (Griffiths & Hare) L. Benson = *Opuntia chlorotica* Engelm. & Bigelow var. *santa-rita* Griffiths & Hare
- viridiflora* Britton & Rose = *Cylindropuntia whipplei* (Engelm. & Bigelow) F.M. Knuth
- whipplei* Engelm. & Bigelow var. *viridiflora* (Britton & Rose) L. Benson = *Cylindropuntia whipplei* (Engelm. & Bigelow) F.M. Knuth
- whipplei* Engelm. & Bigelow var. *spinosior* Engelm. = *Cylindropuntia imbricata* (Haworth) F.M. Knuth var. *spinosior* (Engelm.) Baker, Cloud-H. & Majure
- whipplei* Engelm. & Bigelow var. *whipplei* = *Cylindropuntia whipplei* (Engelm. & Bigelow) F.M. Knuth
- wootonii* Griffiths = *Opuntia engelmannii* Salm-Dyck ex Engelm.
- zuniensis* Griffiths = *Opuntia phaeacantha* Engelm.
- Pediocactus** pincushion-cactus
- Heil, K., B. Armstrong, & D. Schleser. 1981. A review of the genus *Pediocactus*. *Cactus & Succulent J.* (U.S.A.) 53:17-39.
- Heil, K.D. & J.M. Porter. 2003. *Pediocactus*, pp. 211-216. IN: *Flora of North America*, vol. 4, pt. 1. Oxford University Press, New York.
- +*knowltonii* L. Benson [Heil & Porter 2003; M&H]
- papyracanthus* (Engelm.) L. Benson = *Sclerocactus papyracanthus* (Engelm.) N.P. Taylor
- knowltonii* L. Benson var. *papyracanthus* (Engelm.) L. Benson = *Sclerocactus papyracanthus* (Engelm.) N.P. Taylor
- simpsonii* Engelm. = *Pediocactus simpsonii* (Engelm.) Britton & Rose
- simpsonii* (Engelm.) Britton & Rose var. *minor* (Engelm.) Cockerell = *Pediocactus simpsonii* (Engelm.) Britton & Rose
- simpsonii** (Engelm.) Britton & Rose [Heil & Porter 2003; M&H]
- Echinocactus simpsonii* Engelm.
- Echinocactus simpsonii* Engelm. var. *minor* Engelm.
- Peniocereus** cereus
- Arias, S., T. Terrazas, H.J. Arreola-Nava, M. Vazquez-Sanchez, & K.M. Cameron. 2005. Phylogenetic relationships in *Peniocereus* (Cactaceae) inferred from plastid DNA sequence data. *J. Plant Res.* 118: 317-328.
- greggii** (Engelm.) Britton & Rose var. **greggii** [M&H; W&S]
- night-blooming cereus
- Cereus greggii* Engelm.
- greggii (Engelm.) Britton & Rose var. *transmontanus* (Engelm.) Backeberg :  
Reported by M&H as probably occurring in Hidalgo County; awaits verification.
- Sclerocactus** fish-hook cactus
- Castetter, E.F., P. Pierce, and K.H. Schwerin. 1976. A new cactus species and two new varieties from New Mexico. *Cactus & Succulent J.* 48:77-81. [*Sclerocactus whipplei* var. *heilii* and var. *reevesii*]
- Heil, K.D. & J.M. Porter. 1994. *Sclerocactus* (Cactaceae): A revision. *Haseltonia* 2:20-46.
- Heil, K.D. & J.M. Porter. 2003. *Sclerocactus*, pp. 197-207. IN: *Flora of North America*, vol. 4, pt. 1. Oxford University Press, New York.
- Muldavin, E. R. Sivinski, M. East, Y. Chauvin, and M. Horner. 2016. Brack's Hardwall Cactus Distribution, Habitat, and Status Survey 2015. Natural Heritage New Mexico Report 393. Natural Heritage New Mexico, University of New Mexico, Albuquerque, NM. 61
- Sivinski, R.C. & K. Lightfoot. 1994. Status summary for the grama grass cactus (*Toumeyia papyracantha*). U.S. Fish and Wildlife Service, Albuquerque, NM.
- cloverae* Heil & Porter subsp. *brackii* Heil & Porter = *Sclerocactus cloverae* Heil & Porter
- cloverae** Heil & Porter [Castetter et al. 1976; Heil & Porter 1994; M&H]
- Sclerocactus cloverae* Heil & Porter subsp. *brackii* Heil & Porter
- Sclerocactus whipplei* (Engelm. & Bigelow) Britton & Rose var. *heilii* Castetter, Pierce & Schwerin
- Sclerocactus whipplei* (Engelm. & Bigelow) Britton & Rose var. *reevesii* Castetter, Pierce & Schwerin
- intermedius* Peebles = *Sclerocactus parviflorus* Clover & Jotter subsp. *intermedius* (Peebles) Heil & Porter
- mesae-verdae** (Boissvain & C. Davidson) L. Benson [Heil & Porter 1994; M&H]

*Coloradoa mesae-verdae* Boissevain & C. Davidson

*Echinocactus mesae-verdae* (Boissevain & C. Davidson) L. Benson

**papyracanthus** (Engelmann) N.P. Taylor [M&H; Sivinski & Lightfoot 1994; W&S]  
paper-spine cactus

*Echinocactus papyracanthus* Engelmann

*Pediocactus knowltonii* L. Benson var. *papyracanthus* (Engelmann) L. Benson

*Pediocactus papyracanthus* (Engelmann) L. Benson

*Toumeyia papyracantha* (Engelmann) Britton & Rose

*parviflorus* Clover & Jotter var. *intermedius* (Peebles) Woodruff & Benson = *Sclerocactus parviflorus* Clover & Jotter subsp. *intermedius* (Peebles) Heil & Porter

**parviflorus** Clover & Jotter subsp. *intermedius* (Peebles) Heil & Porter [Heil & Porter 1994; M&H]

*Sclerocactus intermedius* Peebles

*Sclerocactus parviflorus* Clover & Jotter var. *intermedius* (Peebles) Woodruff & Benson

*Sclerocactus whipplei* (Engelmann & Bigelow) Britton & Rose var. *intermedius* (Peebles) L. Benson

*uncinatus* (Galeotti) N.P. Taylor subsp. *wrightii* (Engelmann) N.P. Taylor = *Glandulicactus uncinatus* (Galeotti) Backeberg var. *wrightii* (Engelmann) Backeberg

*whipplei* (Engelmann & Bigelow) Britton & Rose var. *heilii* Castetter, Pierce & Schwerin = *Sclerocactus cloverae* Heil & Porter subsp. *cloverae*

*whipplei* (Engelmann & Bigelow) Britton & Rose var. *intermedius* (Peebles) L. Benson = *Sclerocactus parviflorus* Clover & Jotter subsp. *intermedius* (Peebles) Heil & Porter

*whipplei* (Engelmann & Bigelow) Britton & Rose var. *reevesii* Castetter, Pierce & Schwerin = *Sclerocactus cloverae* Heil & Porter subsp. *cloverae*

*whipplei* (Engelmann & Bigelow) Britton & Rose var. *roseus* (Clover) L. Benson [= *Sclerocactus parviflorus* Clover & Jotter subsp. *parviflorus*] : Reported by M&H, but not yet known in NM [Benson 1982; Heil & Porter 1994].

***Thelocactus*** nipple cactus

Anderson, E.F. 1987. A revision of the genus *Thelocactus* B. & R. (Cactaceae). *Bradleya* 5: 49–76.

Zimmerman, A.D. & B.D. Parfitt. 2003. *Thelocactus*, pp. 216-218. IN: *Flora of North America*, vol. 4, pt. 1. Oxford University Press, New York.

**bicolor** (Galeotti ex Pfeiffer) Britton & Rose [FNM I]

*Echinocactus bicolor* Galeotti ex Pfeiffer

*uncinatus* (Galeotti) L. Benson var. *wrightii* (Engelmann) L. Benson = *Glandulicactus uncinatus* (Galeotti) Backeberg var. *wrightii* (Engelmann) Backeberg

*Toumeyia papyracantha* (Engelmann) Britton & Rose = *Sclerocactus papyracanthus* (Engelmann) N.P. Taylor

Family CAESALPINIACEAE = FABACEAE

Family CALLITRICHACEAE = PLANTAGINACEAE

Family CAMPANULACEAE [4/9/10]

[Lobeliaceae]

***Campanula*** bellflower

Great Plains Flora Association. 1977. *Atlas of the Flora of the Great Plains*. Iowa State Univ. Press. 600 pp. [*Campanula rapunculoides*]

Peterson, R.S. 2000. New plant distribution records. *The New Mexico Botanist* 15:7. [*Campanula rapunculoides*]

Roquet, C., L. Sáez, J.J. Aldasoro, A. Susanna, M.L. Alarcón, & N. Garcia-Jacas. 2008. Natural deliniation, molecular phylogeny and floral evolution in *Campanula*. *Syst. Bot.* 33(1): 203-217.

*biflora* Ruiz & Pavon = *Triodanis perfoliata* (Linnaeus) Nieuwland var. *biflora* (Ruiz & Pavon) Bradley

**parryi** Gray [M&H; W&S]

*perfoliata* Linnaeus = *Triodanis perfoliata* (Linnaeus) Nieuwland var. *perfoliata*

*petiolata* A.P. de Candolle = *Campanula rotundifolia* Linnaeus

**\*rapunculoides** Linnaeus [Great Plains Flora Association 1977; Peterson 2000]

**rotundifolia** Linnaeus [M&H; W&S]

*Campanula petiolata* A.P. de Candolle

**uniflora** Linnaeus [M&H]

**Lobelia** cardinal-flower, lobelia

Thompson, S.W. & T.G. Lammers. 1997. Phenetic analysis of morphological variation in the *Lobelia cardinalis* complex (Campanulaceae: Lobelioideae). Syst. Bot. 22(2):315-332.

**anatina** Wimmer

**cardinalis** Linnaeus subsp. **graminea** (Lamarck) McVaugh

*Lobelia graminea* Lamarck

*Lobelia splendens* Willdenow

**fenestralis** Cavanilles

gruina Cavanilles : Reported by Kartesz (2028), but the plants in question belong to *Lobelia fenestralis* Cavanilles.

*splendens* Willdenow = *Lobelia cardinalis* Linnaeus subsp. *graminea* (Lamarck) McVaugh

**Nemacladus** threadplant

McVaugh, R. 1939. Some realignments in the genus *Nemacladus*. Amer. Midl. Naturalist 22: 521-550.

Morin, N.R. 2008. Nomenclatural changes in *Nemacladus* (Campanulaceae). J. Bot. Res. Inst. Texas 2(1): 397-400.

Ward, D. & R. Spellenberg. 1981. Noteworthy collections (New Mexico). Madroño 28:185-186.

[*Nemacladus glanduliferus orientalis*]

*glanduliferus* Jepson var. *orientalis* McVaugh = *Nemacladus orientalis* (McVaugh) Morin

**orientalis** (McVaugh) Morin [Ward & Spellenberg 1981]

*Nemacladus glanduliferus* Jepson var. *orientalis* McVaugh

*Specularia holzingeri* (McVaugh) Fernald = *Triodanis holzingeri* McVaugh

*perfoliata* (Linnaeus) A.P. de Candolle = *Triodanis perfoliata* (Linnaeus) Nieuwland var. *perfoliata*

**Triodanis** Venus's-looking-glass

Bradley, T.R. 1975. Hybridization between *Triodanis perfoliata* and *Triodanis biflora* (Campanulaceae). Brittonia 27:110-114.

Rosatti, T.J. 1986. The genera of Sphenocleaceae and Campanulaceae in the southeastern United States. J. Arnold Arb. 67(1): 1-64.

Spellenberg, R., R. Worthington, P. Knight, & R. Fletcher. 1986. Additions to the flora of New Mexico. Sida 11(4):455-470. [*Triodanis perfoliata biflora*]

*biflora* (Ruiz & Pavon) Greene = *Triodanis perfoliata* (Linnaeus) Nieuwland var. *biflora* (Ruiz & Pavon) Bradley

*holzingeri* McVaugh : Reported as expected by M&H map. Note: Weber & Wittmann (2001) consider this to be hybrids of *Triodanis perfoliata* × *Triodanis leptocarpa*.

*Specularia holzingeri* (McVaugh) Fernald

**perfoliata** (Linnaeus) Nieuwland var. **perfoliata** [M&H; W&S]

*Campanula perfoliata* Linnaeus

*Specularia perfoliata* (Linnaeus) A.P. de Candolle

**perfoliata** (Linnaeus) Nieuwland var. **biflora** (Ruiz & Pavon) Bradley [Spellenberg et al. 1986]

*Campanula biflora* Ruiz & Pavon

*Specularia biflora* (Ruiz & Pavon) Fischer & Meyer

*Triodanis biflora* (Ruiz & Pavon) Greene

### Family CANNABACEAE [3/6/6]

Yang, M.-Q., R. van Velzen, F.T. Bakker, A. Sattarian, D.-Z. Li, & T.-S. Yi. 2013. Molecular phylogenetics and character evolution in Cannabaceae. Taxon 62: 473-485.

**Cannabis** hemp

Allred, K.W. 1999. New plant distribution records. The New Mexico Botanist 13:7. [*Cannabis sativa*]

McPartland, J.M. & E. Small. 2020. A classification of endangered high-THC cannabis

(*Cannabis sativa* subsp. *indica*) domesticates and their wild relatives. PhytoKeys 144: 81-112.

Small, E. & A. Cronquist. 1976. A practical and natural taxonomy for *Cannabis*. Taxon 25(4):405-435.

Small, E., P.Y. Jul, & L.P. Lefkovich. 1976. A numerical taxonomic analysis of *Cannabis* with special reference to species delimitation. Syst. Bot. 1:67-84.

\***sativa** Linnaeus var. **sativa** [Allred 1999]

hemp, marijuana

**Celtis** hackberry

Henrickson, J. 2010. Comments on a revision of *Celtis* subgenus *Mertensia* (Celtidaceae) and the recognition of *Celtis pallida*. J. Bot. Res. Inst. Texas 4(1):287-293.

Sargent, C.S. 1933. Manual of the trees of North America. Houghton Mifflin Co. [*Celtis laevigata texana*]

- Spellenberg, R., R. Worthington, P. Knight, & R. Fletcher. 1986. Additions to the flora of New Mexico. *Sida* 11(4):455-470. [*Celtis occidentalis*]
- Whittemore, A.T. 2005. Genetic structure, lack of introgression, and taxonomic status in the *Celtis laevigata* – *C. reticulata* complex (Cannabaceae). *Syst. Bot.* 30(4):809-817.
- laevigata* Willdenow var. *reticulata* (Torrey) L. Benson = *Celtis reticulata* Torrey
- laevigata* Willdenow var. *texana* (Scheele) Sargent [Sargent 1933]
- Celtis texana* Scheele
- occidentalis* Linnaeus [Spellenberg et al. 1986]
- pallida* Torrey [M&H; Sherman-Broyles et al. 1997]
- reticulata* Torrey [M&H; Sherman-Broyles et al. 1997; W&S]
- Celtis laevigata* Willdenow var. *reticulata* (Torrey) L. Benson
- Celtis occidentalis* Linnaeus var. *reticulata* (Torrey) Sargent
- texana* Scheele = *Celtis laevigata* Willdenow var. *texana* (Scheele) Sargent

**Humulus** hops

- Small, E. 1978. A numerical and nomenclatural analysis of morpho-geographic taxa of *Humulus*. *Syst. Bot.* 3(1):37-76.
- americanus* of NM works = *Humulus lupulus* Linnaeus var. *neomexicanus* Nelson & Cockerell
- lupulus* Linnaeus var. *neomexicanus* Nelson & Cockerell [M&H; Small 1978; W&S]
- Humulus neomexicanus* (Nelson & Cockerell) Rydberg
- Humulus americanus* of NM reports
- neomexicanus* (Nelson & Cockerell) Rydberg = *Humulus lupulus* Linnaeus var. *neomexicanus* Nelson & Cockerell

Family CAPPARACEAE

- Cleome*...go to Cleomaceae
- Cleomella*...go to Cleomaceae
- Polanisia*...go to Cleomaceae
- Wislizenia*...go to Cleomaceae

Family CAPRIFOLIACEAE [6/20/20]

[Dipsacaceae, Valerianaceae]

- Bell, C.D. & M.J. Donoghue. 2005. Phylogeny and biogeography of Valerianaceae (Dipsacales) with special reference to the South American valerians. *Organisms, Diversity, & Evolution* 5: 147-159.
- Carlson, S., V. Mayer, & M.J. Donoghue. 2009. Phylogenetic relationships, taxonomy, and morphological evolution in Dipsacaceae (Dipsacales) inferred by DNA sequence data. *Taxon* 58(4): 1075-1091.
- Ferguson, I.K. 1965. The genera of Valerianaceae and Dipsacaceae in the southeastern United States. *J. Arnold Arbor.* 46:218-231.
- Hidalgo, O., T. Garnatje, A. Susanna, & J.L. Mathez. 2004. Phylogeny of Valerianaceae based on matK and ITS markers, with reference to matK individual polymorphism. *Ann. Bot.* 93: 283-293.
- Judd, W.S., C.S. Campbell, E.A. Kellogg, P.F. Stevens, & M.J. Donoghue. 2016. *Plant Systematics: A Phylogenetic Approach*, 4<sup>th</sup> ed. Sinauer Associates, Inc., Sunderland, Massachusetts. 677 pp.
- Landrein, S., G. Prenner, M.W. Chase, & J.J. Clarkson, J. J. 2012. *Abelia* and relatives: Phylogenetics of Linnaeaceae (Dipsacales–Caprifoliaceae s.l.) and a new interpretation of their inflorescence morphology. *Bot. J. Linnean Soc.* 169: 692-713.
- Tank, D.C. & M.J. Donoghue. 2010. Phylogeny and phylogenetic nomenclature of the Campanulidae based on an expanded sample of genes and taxa. *Syst. Bot.* 35(2): 425-441.

**Centranthus** red valerian

- Richardson, I.B.K. 1975. A revision of the genus *Centranthus* DC. (Valerianaceae). *Bot. J. Linn. Soc.* 71: 211-234.

\**ruber* (Linnaeus) A.P. de Candolle [FNM I]  
*Valeriana rubra* Linnaeus

**Dipsacus** teasel

- Ferguson, I.K. & G.K. Brizicky. 1965. Nomenclatural notes on *Dipsacus fullonum* and *Dipsacus sativus*. *J. Arnold Arbor.* 46: 362-365.
- Laferriere, J.E. 1994. Dipsacaceae. *J. Ariz.-Nev. Acad. Sci.* 27(2):201-202.
- McClintock, E. 1993. Dipsacaceae. p. 540-541, IN J.C. Hickman (editor). *The Jepson Manual: Higher Plants of California*. Univ. California Press.
- \**fullonum* Linnaeus [M&H; W&S]
- Dipsacus fullonum* Linnaeus subsp. *sylvestris* (Hudson) Clapham
- Dipsacus sylvestris* Hudson
- fullonum* Linnaeus subsp. *sylvestris* (Hudson) Clapham = *Dipsacus fullonum* Linnaeus

*sylvestris* Hudson = *Dipsacus fullonum* Linnaeus

*Distegia involucrata* (Richardson) Rafinesque = *Lonicera involucrata* (Richardson) Banks

**Linnaea** twin-flower

Wang, H.-F., S. Landrein, W.-P. Dong, Z.-L. Nie, K. Kondo, T. Funamoto, J. Wen, & S.-L. Zhou. 2015. Molecular phylogeny and biogeographic diversification of Linnaeoideae (Caprifoliaceae s.l.) disjunctly distributed in Eurasia, North America and Mexico. *PLoS ONE* 10(3): e0116485 (pp. 1-26).

Zika, P.F. & G.C. Tucker. 2017. Variation in *Linnaea borealis* (Linnaeaceae) across North America and Greenland. *J. Bot. Res. Inst. Texas* 11(1): 67-79.

*americana* Forbes = *Linnaea borealis* Linnaeus var. *longiflora* Torrey

*borealis* Linnaeus subsp. *americana* (Forbes) Hultén ex Clausen = *Linnaea borealis* Linnaeus var. *longiflora* Torrey

*borealis* Linnaeus var. *americana* (Forbes) Rehder = *Linnaea borealis* Linnaeus var. *longiflora* Torrey

**borealis** Linnaeus var. **longiflora** Torrey [W&S]

*Linnaea americana* Forbes

*Linnaea borealis* Linnaeus subsp. *americana* (Forbes) Hultén ex Clausen

*Linnaea borealis* Linnaeus var. *americana* (Forbes) Rehder

**Lonicera** honeysuckle

Heil, K.D., S.L. O'Kane, & A. Clifford. 2002. Additions to the flora of New Mexico from the San Juan Basin Flora project. *The New Mexico Botanist* 24:1-4. [*Lonicera tatarica*]

Peterson, R.S. 2000. New plant distribution records. *The New Mexico Botanist* 15:7. [*Lonicera bella*]

**albiflora** Torrey & Gray [W&S]

*Lonicera dumosa* Gray

*Lonicera albiflora* Torrey & Gray var. *dumosa* (Gray) Rehder

*albiflora* Torrey & Gray var. *dumosa* (Gray) Rehder = *Lonicera albiflora* Torrey & Gray

**arizonica** Rehder [W&S]

\***bella** Zabel [Peterson 2000]

*dumosa* Gray = *Lonicera albiflora* Torrey & Gray

**involucrata** (Richardson) Banks ex Sprengel [W&S]

*Distegia involucrata* (Richardson) Rafinesque

*Xylosteon involucratum* Richardson

\***japonica** Thunberg [M&H]

\***tatarica** Linnaeus [Heil et al. 2002]

**utahensis** S. Watson [W&S]

*Xylosteon utahense* (S. Watson) Howell

*Sambucus*...go to VIBURNACEAE

**Symphoricarpos** snowberry

Allred, K.W. 2005. A synopsis of *Symphoricarpos* (Caprifoliaceae) in New Mexico. *The New Mexico Botanist* 33:5-6.

Bell, C.D. 2010. Towards a species level phylogeny of *Symphoricarpos* (Caprifoliaceae), based on nuclear and chloroplast DNA. *Syst. Bot.* 35(2): 442-450.

Jones, G.N. 1940. A monograph of the genus *Symphoricarpos*. *J. Arnold Arbor.* 21:203-252.

**albus** (Linnaeus) Blake [Allred 2005; M&H; W&S]

*Symphoricarpos albus* (Linnaeus) Blake var. *pauciflorus* (Robbins) Blake

*Symphoricarpos pauciflorus* (Robbins) Britton

*Symphoricarpos racemosus* Michaux var. *pauciflorus* Robbins

*Vaccinium album* Linnaeus

*albus* (Linnaeus) Blake var. *pauciflorus* (Robbins) Blake = *Symphoricarpos albus* (Linnaeus) Blake

*fragrans* Nelson & Kennedy = *Symphoricarpos longiflorus* Gray

**longiflorus** Gray [Allred 2005; M&H]

*Symphoricarpos fragrans* Nelson & Kennedy

*microphyllus* Kunth : Reported by Jones (1940), based on a Wootton specimen from Valencia County; the identification is corrected to *Symphoricarpos rotundifolius* (utahensis phase) [Allred 2005].

**occidentalis** Hooker [Allred 2005; M&H]

*oreophilus* Gray = *Symphoricarpos rotundifolius* Gray

*oreophilus* Gray var. *utahensis* (Rydberg) A. Nelson = *Symphoricarpos rotundifolius* Gray

*palmeri* G.N. Jones = *Symphoricarpos rotundifolius* Gray

*pauciflorus* (Robbins) Britton = *Symphoricarpos albus* (Linnaeus) Blake  
*racemosus* Michaux var. *pauciflorus* Robbins = *Symphoricarpos albus* (Linnaeus) Blake

**rotundifolius** Gray [Allred 2005; M&H; W&S]

*Symphoricarpos oreophilus* Gray

*Symphoricarpos oreophilus* Gray var. *utahensis* (Rydberg) A. Nelson

*Symphoricarpos palmeri* G.N. Jones

*Symphoricarpos rotundifolius* Gray var. *oreophilus* (Gray) M.E. Jones

*Symphoricarpos utahensis* Rydberg

*rotundifolius* Gray var. *oreophilus* (Gray) M.E. Jones = *Symphoricarpos rotundifolius* Gray

*utahensis* Rydberg = *Symphoricarpos rotundifolius* Gray

**Valeriana** valerian

Cronquist, A. 1984. Valerianaceae, pp. 545-550. IN: Intermountain Flora, vol. 4. New York Botanical Garden.

Heil, K. 2007. Plant distribution reports. The New Mexico Botanist 39:7. [*Valeriana occidentalis*]

Hershey, A.L. 1940. Notes on New Mexico plants – II. Leaflets of Western Botany 2(15):257-258. [*Valeriana texana*]

McIntosh, L. 1996. Seven additions to the flora of New Mexico. Phytologia 81(5):365-368. [*Valeriana sorbifolia*]

Meyer, F.G. 1951. *Valeriana* in North America and the West Indies (Valerianaceae). Ann. Missouri Bot. Gard. 38:377-503.

**acutiloba** Rydberg [M&H; W&S]

*Valeriana capitata* Pallas ex Link subsp. *acutiloba* (Rydberg) F.G. Meyer

*acutiloba* Rydberg var. *ovata* (Rydberg) A. Nelson = *Valeriana arizonica* Gray

**arizonica** Gray [M&H; W&S]

*Valeriana acutiloba* Rydberg var. *ovata* (Rydberg) A. Nelson

*Valeriana ovata* Rydberg

*capitata* Pallas ex Link subsp. *acutiloba* (Rydberg) F.G. Meyer = *Valeriana acutiloba* Rydberg

**edulis** Nuttall ex Torrey & Gray [M&H; W&S]

*Valeriana trachycarpa* Rydberg

**occidentalis** Heller [Heil 2007]

*ovata* Rydberg = *Valeriana arizonica* Gray

*rubra* Linnaeus = *Centranthera ruber* (Linnaeus) A.P. de Candolle

**sorbifolia** Kunth [McIntosh 1996]

**texana** Steyermark [Hershey 1940; M&H]

*trachycarpa* Rydberg = *Valeriana edulis* Nuttall

*Viburnum*...go to VIBURNACEAE

*Xylosteon involucreatum* Richardson = *Lonicera involucrata* (Richardson) Banks ex Sprengel  
*utahense* (S. Watson) Howell = *Lonicera utahensis* S. Watson

**Family CARYOPHYLLACEAE** [19/68/69]

[Alsinaeae, Corrigiolaceae, Silenaceae]

Greenberg, A.K. & M.J. Donoghue. 2011. Molecular systematics and character evolution in Caryophyllaceae. Taxon 60: 1637-1652.

Harbaugh, D.T., M. Nepokroeff, R.K. Rabeler, J. McNeill, E.A. Zimmer, & W.L. Wagner. 2010. A new lineage-based tribal classification of the family Caryophyllaceae. Int. J. Plant Sci. 171: 185-198.

Hernández-Ledesma, P., W.G. Berendsohn, T. Borsch, S. Von Mering, H. Akhiani, S. Arias, I. Castañeda-Noa, U. Eggli, R. Eriksson, H. FloresOlvera, S. Fuentes-Bazán, G. Kadereit, C. Klak, N. Korotkova, R. Nyffeler, G. Ocampo, H. Ochoterena, B. Oxelman, R.K. Rabeler, A. Sanchez, B.O. Schlumberger, & P. Uotila. 2015. A taxonomic backbone for the global synthesis of species diversity in the angiosperm order Caryophyllales. Willdenowia 45(3): 281-383.

Rabeler, R.K. & R.L. Hartman (eds.). 2005. Caryophyllaceae, p. 3-215. IN: Flora of North America, vol. 5, pt. 2. Oxford University Press, New York

**Agrostemma** corn-cockle

**\*githago** Linnaeus [M&H; W&S]

*Alsinaeae macrantha* Rydberg = *Sabulina macrantha* (Rydberg) Dillenberger & Kadereit

*obtusiloba* Rydberg = *Minuartia obtusiloba* (Rydberg) House

*propinqua* (Richardson) Rydberg = *Sabulina rubella* (Wahlenberg) Dillenberger & Kadereit

*Alsine baicalensis* Coville = *Stellaria umbellata* Turczaninow ex Karelin & Kirilov

*curtisii* Ryberg = *Pseudostellaria jamesiana* (Torrey) W.A. Weber & R.L. Hartman

*cuspidata* (Willdenow) Wooton & Standley = *Stellaria cuspidata* Willdenow

*jamesiana* (Torrey) Heller = *Pseudostellaria jamesiana* (Torrey) Weber & Hartman

*laeta* (Richardson) Rydberg = *Stellaria longipes* Goldie  
*longifolia* (Muhlenberg) Britton = *Stellaria longifolia* Muhlenberg  
*longipes* (Goldie) Coville = *Stellaria longipes* Goldie var. *longipes*  
*media* Linnaeus = *Stellaria media* (Linnaeus) Cyrillo  
*pallida* Dumortier = *Stellaria pallida* (Dumortier) Crépin  
*polygonoides* Greene ex Rydberg = *Stellaria sanjuanensis* Sharples & Tripp  
*rubella* Wahlenberg = *Sabulina rubella* (Wahlenberg) Dillenberger & Kadereit  
*vulgaris* Moench = *Silene vulgaris* (Moench) Garcke

**Arenaria** sandwort

- Hartman, R.L. & R.K. Rabeler. 2004. New combinations in North America *Eremogone* (Caryophyllaceae). *Sida* 29(1):237-241.
- Hartman, R.L., R.K. Rabeler, & F.H. Utech. 2005. *Arenaria*, pp. 51-56. IN: Flora of North America, vol. 5, pt.2. Oxford University Press, New York.
- Hernández-Ledesma, P., W.G. Berendsohn, T. Borsch, S. Von Mering, H. Akhiani, S. Arias, I. Castañeda-Noa, U. Eggli, R. Eriksson, H. FloresOlvera, S. Fuentes-Bazán, G. Kadereit, C. Klak, N. Korotkova, R. Nyffeler, G. Ocampo, H. Ochoterena, B. Oxelman, R.K. Rabeler, A. Sanchez, B.O. Schlumpberger, & P. Uotila. 2015. A taxonomic backbone for the global synthesis of species diversity in the angiosperm order Caryophyllales. *Willdenowia* 45(3): 281-383.
- Maguire, B. 1951. Studies in the Caryophyllaceae – V. *Arenaria* in America north of Mexico. *Amer. Midl. Naturalist* 46: 493-511. [*Arenaria benthamii*]
- Sadeghian, S., S. Zarre, R.K. Rabeler, & G. Heubl. 2015. Molecular phylogeny of *Arenaria* (Caryophyllaceae: tribe Arenarieae) and its allies inferred from nuclear DNA ITS and plastid DNA *rps16* sequences. *Bot. J. Linn. Soc.* 178: 648 – 669.
- Turner, B.L. 2016. *Arenaria lanuginosa* (Caryophyllaceae), taxonomic status and distribution. *Lundellia* 19: 1-5.
- aculeata* S. Watson = *Eremogone aculeata* (S. Watson) Ikonnikov  
*aequicalis* A. Nelson = *Sabulina rubella* (Wahlenberg) Dillenberger & Kadereit  
*benthamii* Fenzl ex Torrey & Gray : Reported by Hartman et al. (2005) and Maguire (1951), but specimens are unknown; awaits verification  
*calycantha* Ledebour = *Stellaria calycantha* (Ledebour) Bongard  
*confusa* Rydberg = *Arenaria lanuginosa* (Michaux) Rohrbach var. *saxosa* (A. Gray) Zarucchi, Hartman, & Rabeler  
*congesta* Nuttall ex Torrey & Gray var. *aculeata* M.E. Jones = *Eremogone aculeata* (S. Watson) Ikonnikov  
*eastwoodiae* Rydberg = *Eremogone eastwoodiae* (Rydberg) Ikonnikov  
*eastwoodiae* Rydberg var. *adenophora* Kearney & Peebles = *Eremogone eastwoodiae* (Rydberg) Ikonnikov var. *adenophora* (Kearney & Peebles) Hartman & Rabeler  
*fendleri* Gray var. *brevifolia* (Maguire) Maguire = *Eremogone fendleri* (Gray) Ikonnikov  
*fendleri* Gray var. *eastwoodiae* (Rydberg) Harrington = *Eremogone eastwoodiae* (Rydberg) Ikonnikov var. *eastwoodiae*  
*fendleri* Gray var. *fendleri* = *Eremogone fendleri* (Gray) Ikonnikov  
*fendleri* Gray var. *tweedyi* (Rydberg) Maguire = *Eremogone fendleri* (Gray) Ikonnikov  
*hookeri* Nuttall ex Torrey & Gray = *Eremogone hookeri* (Nuttall ex Torrey & Gray) W.A. Weber  
*hookeri* Nuttall ex Torrey & Gray var. *desertorum* Maguire = *Eremogone hookeri* (Nuttall ex Torrey & Gray) W.A. Weber
- lanuginosa*** (Michaux) Rohrbach var. ***saxosa*** (A. Gray) Zarucchi, Hartman, & Rabeler [M&H; W&S]  
*Arenaria confusa* Rydberg  
*Arenaria lanuginosa* (Michaux) Rohrbach subsp. *saxosa* (Gray) Maguire  
*Arenaria mearnsii* Wooton & Standley  
*Arenaria polycaulos* Rydberg  
*Arenaria saxosa* Gray  
*Arenaria saxosa* Gray var. *cinerascens* Robinson  
*Arenaria saxosa* Gray var. *mearnsii* (Wooton & Standley) Kearny & Peebles  
*Spergularium lanuginosum* Michaux subsp. *saxosum* (A. Gray) W.A. Weber  
*lanuginosa* (Michaux) Rohrbach subsp. *saxosa* (Gray) Maguire = *Arenaria lanuginosa* (Michaux) Rohrbach var. *saxosa* (A. Gray) Zarucchi, Hartman, & Rabeler  
*lateriflora* Linnaeus = *Moehringia lateriflora* (Linnaeus) Fenzl  
*leptophylla* Chamisso & Schlechtendal = *Drymaria leptophylla* (Chamisso & Schlechtendal) Fenzl ex Rohrbach

- macrophylla* Hooker = *Moehringia macrophylla* (Hooker) Torrey  
*marina* (Linnaeus) Allioni = *Spergularia marina* (Linnaeus) Besser  
*mearnsii* Wootton & Standley = *Arenaria lanuginosa* (Michaux) Rohrbach var. *saxosa* (A. Gray) Zarucchi, Hartman, & Rabeler  
*media* Linnaeus = *Spergularia media* (Linnaeus) Presl  
*molluginea* Seringe = *Drymaria molluginea* (Seringe) Didrichsen  
*obtusiloba* (Rydberg) Fernald = *Minuartia obtusiloba* (Rydberg) House  
*polycaulos* Rydberg = *Arenaria lanuginosa* (Michaux) Rohrbach var. *saxosa* (A. Gray) Zarucchi, Hartman, & Rabeler  
*rubella* (Wahlenberg) J.E. Smith = *Sabulina rubella* (Wahlenberg) Dillenberger & Kadereit  
*rubra* Linnaeus = *Spergularia rubra* (Linnaeus) J. & C. Presl  
*sajanensis* auctores non Willdenow = *Minuartia obtusiloba* (Rydberg) House  
*saxosa* Gray var. *cinerascens* Robinson = *Arenaria lanuginosa* (Michaux) Rohrbach var. *saxosa* (A. Gray) Zarucchi, Hartman, & Rabeler  
*saxosa* Gray var. *mearnsii* (Wootton & Standley) Kearny & Peebles = *Arenaria lanuginosa* (Michaux) Rohrbach var. *saxosa* (A. Gray) Zarucchi, Hartman, & Rabeler  
*saxosa* Gray var. *saxosa* = *Arenaria lanuginosa* (Michaux) Rohrbach var. *saxosa* (A. Gray) Zarucchi, Hartman, & Rabeler  
\**serpyllifolia* Linnaeus [Hartman et al. 2005; M&H]  
*stricta* Michaux subsp. *texana* (Robinson ex Britton) Maguire = *Sabulina michauxii* (Frenzl) Dillenberger & Kadereit  
*stricta* Michaux var. *texana* Robinson ex Britton = *Sabulina michauxii* (Frenzl) Dillenberger & Kadereit

**Cerastium** chickweed

- Allred, K.W. 1999. New plant distribution records. The New Mexico Botanist 13:7. [*Cerastium glomeratum* as *C. viscosum*]  
Good, D.A. 1984. Revision of the Mexican and Central American species of *Cerastium*. *Rhodora* 86: 339-379.  
Morton, J.K. 2005. *Cerastium*, p. 74-93. IN: Flora of North America, vol. 5, pt.2. Oxford University Press, New York.  
Spellenberg, R., R. Worthington, P. Knight, & R. Fletcher. 1986. Additions to the flora of New Mexico. *Sida* 11(4):455-470. [*Cerastium axillare*]  
Spellenberg, R., M. Mahrt & R. Brozka. 1991. Noteworthy collections, New Mexico. *Madroño* 38:298-301. [*Cerastium glomeratum*]  
Turner, B.L. 1995. *Cerastium texanum* (Caryophyllaceae) does not occur in Texas. *Phytologia* 79(5):356-363.

**arvense** Linnaeus subsp. **strictum** (Linnaeus) Ugborogho [M&H; W&S]

- Cerastium oreophilum* Greene  
*Cerastium scopulorum* Greene  
*Cerastium strictum* Linnaeus

**axillare** Correll [Spellenberg et al. 1986]

**beeringianum** Chamisso & Schlechtendal [M&H; W&S]

- Cerastium beeringianum* Chamisso & Schlechtendal subsp. *earlei* (Rydberg) Hultén  
*Cerastium earlei* Rydberg

*beeringianum* Chamisso & Schlechtendal subsp. *earlei* (Rydberg) Hultén = *Cerastium beeringianum* Chamisso & Schlechtendal

**brachypodum** (Engelmann ex Gray) Robinson [M&H; W&S]

*earlei* Rydberg = *Cerastium beeringianum* Chamisso & Schlechtendal

**fastigiatum** Greene [M&H; Morton 2005; W&S]

- Cerastium longipedunculatum* of many NM reports  
*Cerastium nutans* of many NM reports

\***fontanum** Baumgarten subsp. **vulgare** (Hartman) Greuter & Burdet [M&H]

- Cerastium vulgare* Hartman  
*Cerastium vulgatum* Linnaeus

\***glomeratum** Thuiller [Allred 1999; Spellenberg et al. 1991]

- Cerastium viscosum* auctores non Linnaeus  
*longipedunculatum* of NM reports = *Cerastium fastigiatum* Green and *Cerastium nutans* Rafinesque var. *obtectum* Kearney & Peebles

**nutans** Rafinesque var. **obtectum** Kearney & Peebles [M&H; W&S]

- Cerastium longipedunculatum* of many NM reports



- Cerastium sericeum* S. Watson  
*nutans* of many reports = *Cerastium fastigiatum* Greene and *Cerastium nutans* Rafinesque  
 var. *obtectum* Kearney & Peebles  
*oreophilum* Greene = *Cerastium arvense* Linnaeus subsp. *strictum* (Linnaeus) Ugborogho  
*scopolorum* Greene = *Cerastium arvense* Linnaeus subsp. *strictum* (Linnaeus) Ugborogho  
*sericeum* S. Watson = *Cerastium nutans* Rafinesque var. *obtectum* Kearney & Peebles  
*strictum* Linnaeus = *Cerastium arvense* Linnaeus subsp. *strictum* (Linnaeus) Ugborogho  
**texanum** Britton [M&H; Turner 1995]  
*viscosum* auctores non Linnaeus = *Cerastium glomeratum* Thuiller  
*vulgare* Hartman = *Cerastium fontanum* Baumgarten subsp. *vulgare* (Hartman) Greuter & Burdet  
*vulgatum* Linnaeus = *Cerastium fontanum* Baumgarten subsp. *vulgare* (Hartman) Greuter & Burdet
- Cherleria** stitchwort  
 Dillenberger, M.S. & J.W. Kadereit. 2014. Maximum polyphyly: Multiple origins and delimitation with plesiomorphic characters require a new circumscription of *Minuartia* (Caryophyllaceae). *Taxon* 63(1): 64-88.  
 McNeill, J. 1980. The delimitation of *Arenaria* (Caryophyllaceae) and related genera in North America, with 11 new combinations in *Minuartia*. *Rhodora* 82(831): 495-502.  
 Moore, A.J. & M.S. Dillenberger. 2016. A conspectus of the genus *Cherleria* (*Minuartia* s.l., Caryophyllaceae). *Willdenowia* 47(1): 5-14.  
 Rabaler, R.K., R.L. Hartman, & F.H. Utech. 2005. *Minuartia*, p. 116-136. IN: *Flora of North America*, vol. 5, pt. 2. Oxford University Press, New York.
- obtusiloba** (Rydberg) Moore & Dillenberger [M&H; W&S]  
*Alisinopsis obtusiloba* Rydberg  
*Arenaria obtusiloba* (Rydberg) Fernald  
*Arenaria sajanensis* auctores non Willdenow  
*Lidia obtusiloba* (Rydberg) Löve & Löve  
*Minuartia obtusiloba* (Rydberg) House
- Dianthus** carnation  
 Allred, K.W. 1999. New plant distribution records. *The New Mexico Botanist* 13:7. [*Dianthus armeria*]  
 \***armeria** Linnaeus [Allred 1999]  
 Deptford pink  
 \***barbatus** Linnaeus [FNM I]
- Drymaria** drymary  
 Duke, J.A. 1961. Preliminary revision of the genus *Drymaria*. *Ann. Missouri Bot. Gard.* 48(3):173-268. [*Drymaria molluginea*]  
 Hartman, R.L. 2005. *Drymaria*, pp. 9-14. IN: *Flora of North America*, vol. 5, pt.2. Oxford University Press, New York.  
 Little, E.L. Jr. 1937. A study of poisonous *Drymaria* on southern New Mexico ranges. *Ecology* 18:416-426. [*Drymaria pachyphylla*]  
*arenarioides* Humboldt & Bonpland ex J.A. Schultes : Listed in various noxious weed lists of NM, but not yet known definitely from the state.
- depressa** Greene [M&H; W&S]  
*Drymaria effusa* Gray var. *depressa* (Greene) Duke  
*effusa* Gray var. *depressa* (Greene) Duke = *Drymaria depressa* Greene  
*fendleri* S. Watson = *Drymaria glandulosa* C. Presl  
**glandulosa** Bartling [M&H; W&S]  
*Drymaria fendleri* S. Watson
- laxiflora** Bentham [M&H]  
**leptophylla** (Chamisso & Schlechtendal) Fenzl ex Rohrbach [M&H; W&S]  
*Arenaria leptophylla* Chamisso & Schlechtendal  
*Drymaria tenella* Gray
- molluginea** (Seringe) Didrichsen [Duke 1961; M&H; W&S]  
*Arenaria molluginea* Seringe  
*Drymaria sperguloides* Gray
- pachyphylla** Wootton & Standley [M&H; W&S]  
*sperguloides* Gray = *Drymaria molluginea* (Seringe) Didrichsen  
*tenella* Gray = *Drymaria leptophylla* (Chamisso & Schlechtendal) Fenzl ex Rohrbach

**Eremogone** sandwort

- Hartman, R.L. & R.K. Rabeler. 2004. New combinations in North America *Eremogone* (Caryophyllaceae). *Sida* 29(1):237-241.
- Hartman, R.L., R.K. Rabeler, & F.H. Utech. 2005. *Eremogone*, p. 56-70. IN: Flora of North America, vol. 5, pt. 2. Oxford University Press, New York.
- Sivinski, R.C. 1998. New plant distribution records. *The New Mexico Botanist* 7:6. [*Eremogone* (*Arenaria hookeri*)  
*aculeata* (S. Watson) Ikonnikov : Reported by M&H and W&S, but all plants examined belong to *Eremogone eastwoodiae* (Rydberg) Ikonnikov; awaits verification.  
*Arenaria aculeata* S. Watson  
*Arenaria congesta* Nuttall ex Torrey & Gray var. *aculeata* M.E. Jones  
*eastwoodiae* (Rydberg) Ikonnikov var. *eastwoodiae* [M&H; W&S]  
*Arenaria eastwoodiae* Rydberg  
*Arenaria fendleri* Gray var. *eastwoodiae* (Rydberg) Harrington  
*eastwoodiae* (Rydberg) Ikonnikov var. *adenophora* (Kearney & Peebles) R.L. Hartman & Rabeler [Hartman et al. 2005]  
*Arenaria eastwoodiae* Rydberg var. *adenophora* Kearney & Peebles  
*fendleri* (Gray) Ikonnikov [M&H; W&S]  
*Arenaria fendleri* Gray  
*Arenaria fendleri* Gray var. *brevifolia* (Maguire) Maguire  
*Arenaria fendleri* Gray var. *tweedyi* (Rydberg) Maguire  
*hookeri* (Nuttall ex Torrey & Gray) W.A. Weber [Sivinski 1998]  
*Arenaria hookeri* Nuttall ex Torrey & Gray  
*Arenaria hookeri* Nuttall ex Torrey & Gray var. *desertorum* Maguire

**Gypsophila** baby's-breath

- Allred, K. 2004. Plant distribution reports. *The New Mexico Botanist* 31:1. [*Gypsophila paniculata*, in error]
- Allred, K.W. 2005. Plant distribution reports (*Gypsophila scorzonerifolia*). *The New Mexico Botanist* 33:7. *elegans* Bieberstein : Reported by Campbell & Little (1935), but no specimen can be found at the Jornada Herbarium; reported for Texas recently [Nesom & O'Kennon 2002]; this was likely a one-time escape that has not persisted.  
\**scorzonerifolia* Seringe [Allred 2004, 2005]  
*paniculata* Linnaeus : Reported by Allred (2004), but the specimen was corrected to *Gypsophila scorzonerifolia* Seringe [Allred 2005].

*Illecebrum densum* Willdenow = *Guilleminea densa* (Willdenow) Moquin-Tandon var. *densa* [Amaranthaceae]

*Lidia obtusiloba* (Rydberg) Löve & Löve = *Minuartia obtusiloba* (Rydberg) House

**Loeflingia** pygmy-leaf

- Chauvin, Y. 2006. Plant distribution reports. *The New Mexico Botanist* 35:3. [*Loeflingia squarrosa*]  
Strahan, R. 2007. Plant distribution reports. *The New Mexico Botanist* 40:16. [*Loeflingia squarrosa*]  
*squarrosa* Nuttall [Chauvin 2006; Strahan 2007]

*Lychnis alba* Miller = *Silene latifolia* Poiret

- apetala* Linnaeus subsp. *montana* (S. Watson) Maguire = *Silene hitchguirei* Bocquet  
*apetala* Linnaeus var. *montana* (S. Watson) C.L. Hitchcock = *Silene hitchguirei* Bocquet  
*drummondii* (Hooker) S. Watson = *Silene drummondii* Hooker var. *drummondii*  
*montana* S. Watson (not *Silene montana* Arrondeau) = *Silene hitchguirei* Bocquet  
*striata* Rydberg = *Silene drummondii* Hooker var. *striata* (Rydberg) Bocquet

*Melandrium album* (Miller) Garcke = *Silene latifolia* Poiret

*Minuartia macrantha* (Rydberg) House = *Sabulina macrantha* (Rydberg) Dillenberger & Kadereit

- michauxii* (Frenzl) Farwell = *Sabulina michauxii* (Frenzl) Dillenberger & Kadereit  
*michauxii* (Frenzl) Farwell var. *texana* (Robinson ex Britton) Mattfield = *Sabulina michauxii* (Frenzl) Dillenberger & Kadereit

*obtusiloba* (Rydberg) House = *Cherleria obtusiloba* (Rydberg) Moore & Dillenberger  
*rubella* (Wahlenberg) Grabner = *Sabulina rubella* (Wahlenberg) Dillenberger & Kadereit

**Moehringia** sandwort

McNeill, J. 1980. The delimitation of *Arenaria* (Caryophyllaceae) and related genera in North America, with 11 new combinations in *Minuartia*. *Rhodora* 82(831): 495-502.

*lateriflora* (Linnaeus) Fenzl [M&H; W&S]

*Arenaria lateriflora* Linnaeus

**macrophylla** (Hooker) Torrey [M&H; W&S]*Arenaria macrophylla* Hooker**Paronychia** nailwort

Alexander, P.J., N.A. Douglas, H. Ochoterena, H. Flores-Olvera, & M.J. Moore. 2014. Recent findings on the gypsum flora of the rim of the Guadalupe Mountains, New Mexico, U.S.A.: New species of *Nerisyrenia* (Brassicaceae), a new state record, and an updated checklist. *J. Bot. Res. Inst. Texas* 8(2):383-393.

Allred, K.W. 2005. Plant distribution reports. *The New Mexico Botanist* 33:7. [*Paronychia pulvinata*]

Sivinski, R.C. 1998. New plant distribution records. *The New Mexico Botanist* 7:6. [*Paronychia depressa*]

Hartman, R.L., J.W. Thieret, & R.K. Rabeler. 2005. *Paronychia*, pp. 30-43. IN: *Flora of North America*, vol. 5, pt. 2. Oxford University Press, New York.

Turner, B.L. 1981. The Texas species of *Paronychia* (Caryophyllaceae). *Phytologia* 54(1):9-23.

**depressa** (Torrey & Gray) Nuttall ex A. Nelson [Sivinski 1998]*Paronychia jamesii* Torrey & Gray var. *depressa* Torrey & Gray**jamesii** Torrey & Gray [M&H]

*jamesii* Torrey & Gray var. *depressa* Torrey & Gray = *Paronychia depressa* (Torrey & Gray) Nuttall ex A. Nelson

*lanuginosa* Poiret = *Gossypianthus lanuginosus* (Poiret) Moquin-Tandon [Amaranthaceae]

*lindheimeri* Engelmann ex Gray : Reported as expected by M&H map; this seems unlikely in view of the distribution reported by Turner (1981); awaits verification.

**pulvinata** Gray [Allred 2005; M&H]**sessiliflora** Nuttall [M&H]**wilkinsonii** S. Watson [Alexander et al. 2014]**Pseudostellaria** starwort

Weber, W.A. & R. Hartman. 1979. *Pseudostellaria jamesiana*, comb. nov., a North American representative of a Eurasian genus. *Phytologia* 44:313-314.

**jamesiana** (Torrey) W.A. Weber & R.L. Hartman [M&H; W&S]*Stellaria jamesiana* Torrey*Alsine curtisii* Rydberg*Alsine jamesiana* (Torrey) Heller**Sabulina** sandling

Dillenberger, M.S. & J.W. Kadereit. 2014. Maximum polyphyly: Multiple origins and delimitation with plesiomorphic characters require a new circumscription of *Minuartia* (Caryophyllaceae). *Taxon* 63(1): 64-88.

Hartman, R. 2006. Plant distribution reports (*Minuartia macrantha*). *The New Mexico Botanist* 35:3.

Hartman, R.L. & R.K. Rabeler. 2008. *Minuartia macrantha* (Alsinoideae: Caryophyllaceae): Morphological circumscription, geographical range, and phylogenetic affinities. *J. Bot. Res. Inst. Texas* 2(2):1225-1231.

McNeill, J. 1980. The delimitation of *Arenaria* (Caryophyllaceae) and related genera in North America, with 11 new combinations in *Minuartia*. *Rhodora* 82(831): 495-502.

Rabeler, R.K., R.L. Hartman, & F.H. Utech. 2005. *Minuartia*, p. 116-136. IN: *Flora of North America*, vol. 5, pt. 2. Oxford University Press, New York.

Wagner, W.L. 1983. Noteworthy collections (New Mexico). *Madroño* 30:126. [*Arenaria stricta* subsp. *texana*]

Weber, W.A. & R.C. Wittmann. 2009. Two new combinations in *Tryphane* (Alsinoaceae). *J. Bot. Res. Inst. Texas* 3(2):501-502.

**macrantha** (Rydberg) Dillenberger & Kadereit [Hartman 2006]*Alsinosopsis macrantha* Rydberg*Minuartia macrantha* (Rydberg) House**michauxii** (Frenzl) Dillenberger & Kadereit [Wagner 1983]*Arenaria stricta* Michaux var. *texana* Robinson ex Britton*Arenaria stricta* Michaux subsp. *texana* (Robinson ex Britton) Maguire*Minuartia michauxii* (Frenzl) Farwell var. *texana* (Robinson ex Britton)

Mattfield

**rubella** (Wahlenberg) Dillenberger & Kadereit [M&H; W&S]*Alsine rubella* Wahlenberg*Alsinosopsis propinqua* (Richardson) Rydberg*Arenaria aequicalis* A. Nelson*Arenaria propinqua* Richardson*Arenaria rubella* (Wahlenberg) J.E. Smith*Minuartia rubella* (Wahlenberg) Grabner*Tryphane rubella* (Wahlenberg) A. & D. Löve ex W.A. Weber

*Tryphane rubella* (Wahlenberg) A. & D. Löve ex W.A. Weber subsp.  
*propinqua* (Richardson) A. & D. Löve ex W.A. Weber

**Sagina** pearlwort

Crow, G.E. 1978. A taxonomic revision of *Sagina* (Caryophyllaceae) in North America. *Rhodora* 80:1-91.

**saginoides** (Linnaeus) Karsten [Crow 1978; M&H; W&S]

*Spergula saginoides* Linnaeus

**Saponaria** bouncing-bet

**\*officinalis** Linnaeus [M&H; W&S]

*hispanica* Miller = *Vaccaria hispanica* (Miller) Rauschert

*vaccaria* Linnaeus = *Vaccaria hispanica* (Miller) Rauschert

**Silene** catchfly

Greuter, W. 1995. *Silene* (Caryophyllaceae) in Greece: a subgeneric and sectional classification. *Taxon* 44:543-581.

Gussarova, G., G.A. Allen, Y. Mikhaylova, L.J. McCormick, V. Mirrè, K.L. Marr, R.J. Hebda, & C. Brochmann. 2015. Vicariance, long-distance dispersal, and regional extinction-recolonization dynamics explain the disjunct circumpolar distribution of the arctic-alpine plant *Silene acaulis*. *Amer. J. Bot.* 102(10): 1703-1720.

Heil, K. & S. O'Kane. 2007. Plant distribution reports. *The New Mexico Botanist* 41:7. [*Silene vulgaris*]

Hitchcock, C.L. & B. Maguire. 1947. A revision of the North American species of *Silene*. Univ.

Washington Publ. in Biology 13:1-73.

Ivey, R.D. 2003. Flowering Plants of New Mexico. 4th ed. Publ. by the author. 573 pp. [*Silene cserei*]

McNeill, J. 1978. *Silene alba* and *S. dioica* in North America and the generic delimitation of *Lychnis*,

*Melandrium*, and *Silene* (Caryophyllaceae). *Can. J. Bot.* 56:297-308.

Morton, J.K. 2005. *Silene*, pp. 166-214. IN: *Flora of North America*, vol. 5, pt.2. Oxford University Press, New York.

Peterson, R.S. 2000. New plant distribution records. *The New Mexico Botanist* 15:7. [*Silene latifolia*]

Reif, B., J. Larson, B.R. Jacobs, B.E. Nelson, & R.L. Hartman. 2009. Floristic studies in north central New Mexico, U.S.A., the Tusa Mountains and the Jemez Mountains. *J. Bot. Res. Inst. Texas* 3(2):921-961. [*Silene drummondii striata*]

Todsen, T.K. 1973. Comments on New Mexico flora. *Sida* 5:135. [*Silene plankii*]

**acaulis** Linnaeus [M&H; W&S]

*Silene acaulis* Linnaeus forma *subacaulescens* F.N. Williams

*Silene acaulis* Linnaeus subsp. *subacaulescens* (F.N. Williams) Hitchcock & Maguire

*acaulis* Linnaeus forma *subacaulescens* F.N. Williams = *Silene acaulis* Linnaeus

*acaulis* Linnaeus subsp. *subacaulescens* (F.N. Williams) Hitchcock & Maguire = *Silene acaulis* Linnaeus

**antirrhina** Linnaeus [M&H; W&S]

sleepy catchfly

*concolor* Greene = *Silene scouleri* Hooker subsp. *hallii* (S. Watson) Hitchcock & Maguire

**\*cserei** Baumgarten [Ivey 2003]

**drummondii** Hooker var. **drummondii** [M&H; W&S]

*Lychnis drummondii* (Hooker) S. Watson

*Wahlbergella drummondii* (Hooker) Rydberg

**drummondii** Hooker var. **striata** (Rydberg) Bocquet [Reif et al. 2009]

*Lychnis striata* Rydberg

*Silene drummondii* Hooker subsp. *striata* (Rydberg) J.K. Morton

*Wahlbergella striata* (Rydberg) Rydberg

*drummondii* Hooker subsp. *striata* (Rydberg) J.K. Morton = *Silene drummondii* Hooker var. *striata* (Rydberg) Bocquet

*greggii* Gray = *Silene laciniata* Cavanilles var. *greggii* (Gray) C.L. Hitchcock & Maguire

*hallii* W. Watson = *Silene scouleri* Hooker subsp. *hallii* (S. Watson) Hitchcock & Maguire

**hitchguirei** Bocquet [Reif et al. 2009]

*Lychnis apetala* Linnaeus subsp. *montana* (S. Watson) Maguire

*Lychnis apetala* Linnaeus var. *montana* (S. Watson) C.L. Hitchcock

*Lychnis montana* S. Watson, not *Silene montana* Arrouneau

**laciniata** Cavanilles var. **greggii** (Gray) C.L. Hitchcock & Maguire [M&H; W&S]

*Silene greggii* Gray

*Silene*

**latifolia** Poiret [Peterson 2000]

*Lychnis alba* Miller

- Melandrium alba* (Miller) Garcke  
*Silene latifolia* Poiret subsp. *alba* (Miller) Greuter & Burdet
- menziesii** Hooker [M&H; W&S]  
*Silene stellaroides* Nuttall
- \*noctiflora** Linnaeus [M&H; W&S]
- plankii** C.L. Hitchcock & Maguire [M&H; Todsén 1973]  
*pringlei* S. Watson = *Silene scouleri* Hooker subsp. *pringlei* (S. Watson) C.L. Hitchcock & Maguire  
*scouleri* Hooker var. *concolor* (Greene) C.L. Hitchcock & Maguire = *Silene scouleri* Hooker subsp. *hallii* (S. Watson) Hitchcock & Maguire
- scouleri** Hooker subsp. **hallii** (S. Watson) C.L. Hitchcock & Maguire  
*Silene concolor* Greene  
*Silene hallii* W. Watson  
*Silene scouleri* Hooker var. *concolor* (Greene) C.L. Hitchcock & Maguire
- scouleri** Hooker subsp. **pringlei** (S. Watson) C.L. Hitchcock & Maguire [Hitchcock & Maguire 1947; M&H; W&S]  
*Silene pringlei* S. Watson  
*Silene scouleri* Hooker var. *grisea* C.L. Hitchcock & Maguire
- scouleri* Hooker var. *grisea* C.L. Hitchcock & Maguire = *Silene scouleri* Hooker subsp. *pringlei* (S. Watson) C.L. Hitchcock & Maguire
- stellaroides* Nuttall = *Silene menziesii* Hooker
- thurberi** S. Watson [M&H; Wagner 1979]
- \*vulgaris** (Moench) Garcke [Heil & O'Kane 2007]  
*Alsine vulgaris* Moench
- +wrightii** Gray [M&H; W&S]
- Spergula arvensis* Linnaeus : Reported as expected by M&H; awaits verification.  
*saginoides* Linnaeus = *Sagina saginoides* (Linnaeus) Karsten
- Spergularia** sandspurry  
 Hartman, R.L. & R.K. Rabeler. 2005. *Spergularia*, pp. 1-23. IN: Flora of North America, vol. 5, pt.2. Oxford University Press, New York.
- maritima* (Allioni) Chiovenda = *Spergularia media* (Linnaeus) Presl
- marina** (Linnaeus) Besser [Hartman & Rabeler 2005; M&H]  
*Arenaria marina* (Linnaeus) Allioni  
*Spergularia salina* J. & C. Presl  
*Spergularia sparsiflora* (Greene) A. Nelson  
*Tissa salina* (J. & C. Presl) Greene
- \*media** (Linnaeus) Presl : Reported by Hartman & Rabeler (2005) and M&H, but no specimens known; awaits verification.  
*Arenaria media* Linnaeus  
*Spergularia maritima* (Allioni) Chiovenda
- \*rubra** (Linnaeus) J. & C. Presl [M&H; W&S]  
*Arenaria rubra* Linnaeus  
*Tissa rubra* (Linnaeus) Britton  
*salina* J. & C. Presl = *Spergularia marina* (Linnaeus) Besser  
*sparsiflora* (Greene) A. Nelson = *Spergularia marina* (Linnaeus) Besser
- Spergulastrum lanuginosum* Michaux subsp. *saxosum* (Gray) Weber = *Arenaria lanuginosa* (Michaux) Rohrbach var. *saxosa* (A. Gray) Zarucchi, Hartman, & Rabeler
- Stellaria** starwort  
 Hartman, R.L. 1973. New plant records for New Mexico. Southwestern Naturalist 18(2):241-242. [*Stellaria calycantha*, *Stellaria irrigua*]  
 Heil, K.D., S.L. O'Kane, & A. Clifford. 2002. Additions to the flora of New Mexico from the San Juan Basin Flora project. The New Mexico Botanist 24:1-4. [*Stellaria crassifolia*]  
 Chinnappa, C.C. 1992. *Stellaria porsildii*, sp. nov., a new member of the *S. longipes* complex (Caryophyllaceae). Syst. Bot. 17(1):29-32.  
 Jercinovic, E. 2012. Plant distribution reports (*Stellaria pallida*). The New Mexico Botanist 57:4.  
 Morton, J.K. 2005. *Stellaria*, p. 96-114. IN: Flora of North America, vol. 5, pt. 2. Oxford University Press, New York.  
 Morton, J.K. & R.K. Rabeler. 1989. Biosystemic studies on the *Stellaria calycantha* (Caryophyllaceae) complex. I. Cytology and cytogeography. Can. J. Bot. 67(1):121-127.

- Sharples, M.T. 2019. Taxonomic observations within *Stellaria* (Caryophyllaceae): Insights from ecology, geography, morphology, and phylogeny suggest widespread parallelism in starworts and erode previous infrageneric classifications. *Syst. Bot.* 44(4): 877-886.
- Sharples, M.T. & E.A. Tripp. 2019. RAD sequencing rejects a long-distance disjunction in *Stellaria* (Caryophyllaceae) and yields support for a new southern Rocky Mountains endemic. *Taxon* 68(2): 280-296.
- Sharples, M.T. & E.A. Tripp. 2019. Phylogenetic relationships within and delimitation of the cosmopolitan flowering plant genus *Stellaria* L. (Caryophyllaceae): Core stars and fallen stars. *Syst. Bot.* 44(4): 857-876.
- Spellenberg, R., L. McIntosh, & L. Brouillet. 1993. New records of angiosperms from southern New Mexico. *Phytologia* 75:224-230. [*Stellaria nitens*]
- borealis* Bigelow var. *simcoei* Howell = *Stellaria calycantha* (Ledebour) Bongard
- calycantha*** (Ledebour) Bongard [Hartman 1973; M&H]  
*Arenaria calycantha* Ledebour  
*Stellaria borealis* Bigelow var. *simcoei* Howell  
*Stellaria calycantha* (Ledebour) Bongard var. *simcoei* (Howell) Fernald
- calycantha* (Ledebour) Bongard var. *simcoei* (Howell) Fernald = *Stellaria calycantha* (Ledebour) Bongard
- crassifolia*** Ehrhart [Heil et al. 2002]
- cuspidata*** Willdenow ex Schlechtendal subsp. ***cuspidata*** [M&H; W&S]  
*Alsine cuspidata* (Willdenow) Wootton & Standley
- cuspidata*** Willdenow ex Schlechtendal subsp. ***prostrata*** (Baldwin) J.K. Morton [Morton 2005]  
*Stellaria prostrata* Baldwin
- irrigua*** Bunge [Hartman 1973; M&H]
- jamesiana* Torrey = *Pseudostellaria jamesiana* (Torrey) W.A. Weber & R.L. Hartman
- laeta* Richardson = *Stellaria longipes* Goldie
- longifolia*** Muhlenberg ex Willdenow [M&H; W&S]  
*Alsine longifolia* (Muhlenberg) Britton
- longipes* Goldie var. *laeta* (Richardson) S. Watson = *Stellaria longipes* Goldie
- longipes*** Goldie [M&H; W&S]  
*Alsine laeta* (Richardson) Rydberg  
*Alsine longipes* (Goldie) Coville  
*Stellaria laeta* Richardson  
*Stellaria longipes* Goldie var. *laeta* (Richardson) S. Watson
- \**media*** (Linnaeus) Villars [M&H; W&S]  
 common chickweed  
*Alsine media* Linnaeus
- nitens*** Nuttall [Spellenberg et al. 1993]
- \**pallida*** (Dumortier) Crépin [Jercinovic 2012]  
*Alsine pallida* Dumortier
- porsildii*** Chinnappa [Chinnappa 1992]
- prostrata* Baldwin = *Stellaria cuspidata* Willdenow ex Schlechtendal subsp. *prostrata* (Baldwin) Morton
- sanjuanensis*** Sharples & Tripp [Sharples & Tripp 2019]  
*Alsine polygonoides* Greene ex Rydberg, not *Alsine polygonoides* (Wulfen) Prantl, not *Stellaria polygonoides* (Wulfen) Jessen
- umbellata*** Turczaninow ex Karelin & Kirilov [M&H; W&S]  
*Alsine baicalensis* Coville  
*Stellaria weberi* Boivin
- weberi* Boivin = *Stellaria umbellata* Turczaninow ex Karelin & Kirilov
- Tissa rubra* (Linnaeus) Britton = *Spergularia rubra* (Linnaeus) J. & C. Presl
- salina* (J. & C. Presl) Greene = *Spergularia marina* (Linnaeus) Besser
- Tryphane rubella* (Wahlenberg) Reichenbach = *Sabulina rubella* (Wahlenberg) Dillenberger & Kadereit
- rubella* (Wahlenberg) A. & D. Löve ex W.A. Weber subsp. *propinqua* (Richardson) A. & D. Löve ex W.A. Weber = *Sabulina rubella* (Wahlenberg) Dillenberger & Kadereit
- Vaccaria*** cow-cockle
- \**hispanica*** (Miller) Rauschert [M&H; W&S]

- Saponaria hispanica* Miller  
*Saponaria vaccaria* Linnaeus  
*Vaccaria pyramidata* Medikus  
*Vaccaria vaccaria* (Linnaeus) Britton  
*pyramidata* Medikus = *Vaccaria hispanica* (Miller) Rauschert  
*vaccaria* (Linnaeus) Britton = *Vaccaria hispanica* (Miller) Rauschert  
*Wahlbergella drummondii* (Hooker) Rydberg = *Silene drummondii* Hooker  
*striata* (Rydberg) Rydberg = *Silene drummondii* Hooker var. *striata* (Rydberg) Bocquet

Family *CASSIACEAE* = FABACEAE

**Family CELASTRACEAE** [2/2/2]

- Forsellesia*...go to CROSSOSOMATAACEAE  
*Glossopetalon*...go to CROSSOSOMATAACEAE

**Mortonia** sandpaper-bush

*scabrella* Gray

*Mortonia sempervirens* A. Gray subsp./var. *scabrella* of various works, nomen nudum, never validly published

*sempervirens* A. Gray subsp./var. *scabrella* of various works (nomen nudum) = *Mortonia scabrella* Gray

**Paxistima** mountain-lover [Note: variously rendered *Pachistima*, *Pachystigma*, *Pachystigma*]

*myrsinites* (Pursh) Rafinesque  
*Ilex myrsinites* Pursh

**Family CERATOPHYLLACEAE** [1/1/1]

**Ceratophyllum** coon's-tail

Les, D.H. 1997. *Ceratophyllum*, pp. 82-84. IN: Flora of North America, vol. 3. Oxford University Press.

*demersum* Linnaeus [Les 1997; M&H; W&S]

Family *CHENOPODIACEAE* = AMARANTHACEAE

Family *CICHORIACEAE* = ASTERACEAE

**Family CISTACEAE** [1/2/2]

**Lechea** pinweed

Hodgdon, A.R. 1938. A taxonomic study of *Lechea*. *Rhodora* 40: 29-69, 87-131.

Strahan, R. 2007. Plant distribution reports. *The New Mexico Botanist* 40:16. [*Lechea mucronata*]

Worthington, R.D. 2000. New plant distribution records. *The New Mexico Botanist* 14:4. [*Lechea mensalis*]

*mucronata* Rafinesque [Strahan 2007]

*mensalis* Hodgdon [Worthington 2000]

*Lechea tenuifolia* of NM reports

*tenuifolia* of NM reports = *Lechea mensalis* Hodgdon

**Family CLEOMACEAE** [2/10/10]

Hall, J.C., K.J. Systma, & H.H. Iltis. 2002. Phylogeny of Capparaceae and Brassicaceae based on chloroplast sequence data. *Amer. J. Bot.* 89:1826-1842.

Iltis, H.H. 1958. Studies in the Capparidaceae V. Capparidaceae of New Mexico. *Southw. Naturalist* 3:133-144.

Roalson. E.H., J.C. Hall, J.P. Riser II, W.M. Cardinal-McTeague, T.S. Cochrane, & K.J. Systma. 2015. A revision of generic boundaries and nomenclature in the North American cleomoid clade (Cleomaceae). *Phytotaxa* 205(3): 129-144.

Tucker, G.C. & S.S. Vanderpool. 2010. Cleomaceae, p. 199-223. IN: Flora of North America, vol. 7. Oxford University Press, New York.

*Cleome integrifolium* Torrey & Gray = *Cleomella serrulata* (Pursh) Roalson & Hall

*lutea* Hooker = *Cleomella lutea* (Hooker) Roalson & Hall

*multicaulis* A.P. de Candolle = *Cleomella multicaulis* (A.P. de Candolle) Roalson & Hall

*pinnata* Pursh = *Stanley pinnata* (Pursh) Britton [Brassicaceae]

*serrulata* Pursh = *Cleomella serrulata* (Pursh) Roalson & Hall

*sonorae* Gray = *Cleomella multicaulis* (A.P. de Candolle) Roalson & Hall  
*uniglandulosa* Cavanilles = *Polanisia uniglandulosa* (Cavanilles) A.P. de Candolle

**Cleomella** stinkweed, beeplant

- Heil, K. & J. Herring. 2009 (updated 2011). *Peritoma multicaulis*, IN: New Mexico Rare Plant Technical Council. 1999. New Mexico Rare Plants. Albuquerque, NM: New Mexico Rare Plants Home Page. <http://nmrareplants.unm.edu> (accessed 13 Dec 2016).
- Holmgren, P.K. & A. Cronquist. 2005. *Cleomella*, p.166-172. IN: Holmgren, N.H., P.K. Holmgren, & A. Cronquist. Intermountain Flora, vol. 2, pt. B. [*Cleomella obtusifolia*]
- Roalson. E.H., J.C. Hall, J.P. Riser II, W.M. Cardinal-McTeague, T.S. Cochrane, & K.J. Systma. 2015. A revision of generic boundaries and nomenclature in the North American cleomoid clade (Cleomaceae). *Phytotaxa* 205(3): 129-144.
- Sivinski, R.C., T. Lowrey, & C. Keller. 1995 [1996]. Additions to the floras of Colorado and New Mexico. *Phytologia* 79(5):319-324. [*Cleomella palmeriana*]
- Vanderpool, S.S. & H.H. Iltis. 2010. *Peritoma*, p. 205-208. IN: Flora of North America, vol. 7. Oxford University Press, New York.

**longipes** Torrey [M&H; W&S]

**lutea** (Hooker) Roalson & Hall [Iltis 1958; M&H; W&S]

*Cleome lutea* Hooker

*Peritoma breviflora* Wooton & Standley

**multicaulis** (A.P. de Candolle) J.C. Hall & Roalson [Iltis 1958; M&H]

*Cleome sonorae* Gray

*Cleome multicaulis* A.P. de Candolle

*Peritoma sonorae* (Gray) Rydberg

**\*obtusifolia** Torrey & Frémont [Holmgren & Cronquist 2005]

**palmeriana** M.E. Jones [Sivinski et al. 1995]

**refracta** (Engelmann) J.C. Hall & Roalson [Iltis 1958; M&H; W&S]

jackass-clover

*Wislizenia refracta* Engelmann

**serrulata** (Pursh) Roalson & Hall [Iltis 1958; M&H; W&S]

Rocky Mountain beeplant

*Cleome integrifolium* Torrey & Gray

*Cleome serrulata* Pursh

*Cristatella jamesii* Torrey & Gray = *Polanisia jamesii* (Torrey & Gray) Iltis

*Koeberlinia*...go to KOEBERLINIACEAE

*Peritoma breviflora* Wooton & Standley = *Cleomella lutea* (Hooker) Roalson & Hall

*lutea* (Hooker) Rafinesque = *Cleomella lutea* (Hooker) Roalson & Hall

*multicaulis* (A.P. de Candolle) H.H. Iltis = *Cleomella multicaulis* (A.P. de Candolle) Roalson & Hall

*serrulata* (Pursh) A.P. de Candolle = *Cleomella serrulata* (Pursh) Roalson & Hall

*sonorae* (Gray) Rydberg = *Cleomella multicaulis* (A.P. de Candolle) Roalson & Hall

**Polanisia** clammyweed

Iltis, H.H. 1958. Studies in the Capparidaceae. IV. *Polanisia* Rag. *Brittonia* 10: 33-58.

Tucker, G.C. 2011. *Polanisia*, p. 201-204. IN: Flora of North America, vol. 7. Oxford University Press, New York.

Willson, J., R. Spellenberg, & H. Wolfe. 1979. Noteworthy collections (New Mexico). *Madroño* 26:48. [*Polanisia jamesii*]

**dodecandra** (Linnaeus) A.P. de Candolle subsp. **dodecandra** [Tucker 2011]

**dodecandra** (Linnaeus) A.P. de Candolle subsp. **trachysperma** (Torrey & Gray)

Iltis [Iltis 1958; M&H; W&S]

*Polanisia trachysperma* Torrey & Gray

*dodecandra* (Linnaeus) A.P. de Candolle subsp. *uniglandulosa* (Cavanilles) Iltis = *Polanisia uniglandulosa* (Cavanilles) A.P. de Candolle

**jamesii** (Torrey & Gray) Iltis [Willson et al. 1979]

*Cristatella jamesii* Torrey & Gray

*trachysperma* Torrey & Gray = *Polanisia dodecandra* (Linnaeus) A.P. de Candolle subsp. *trachysperma* (Torrey & Gray) Iltis

**uniglandulosa** (Cavanilles) A.P. de Candolle [Iltis 1958; M&H; W&S]

*Cleome uniglandulosa* Cavanilles

*Polanisia dodecandra* (Linnaeus) A.P. de Candolle subsp. *uniglandulosa* (Cavanilles) Iltis

*Wislizenia refracta* Engelmann = *Cleomella refracta* (Engelmann) Roalson & Hall



## Family CLUSIACEAE (GUTTIFERAE)

*Hypericum*...go to HYPERICACEAE

## Family COCHLOSPERMACEAE [1/1/1]

Johnson-Fulton, S.B. & L.E. Watson. 2017. Phylogenetic systematics of Cochlospermeaceae (Malvales) based on molecular and morphological evidence. *Syst. Bot.* 42(2): 271-282.Johnson-Fulton, S.B. & L.E. Watson. 2015. Cochlospermeaceae, pp. 376-379. IN: *Flora of North America*, vol. 6. Oxford University Press, New York.**Amoreuxia** amoreuxiaHodgson, W. 1993. Bixaceae. *J. Ariz.-Nev. Acad. Sci.* 27(2):188-189.Johnson-Fulton, S.B. & L.E. Watson. 2015. Cochlospermeaceae, pp. 376-379. IN: *Flora of North America*, vol. 6. Oxford University Press, New York.Sprague, T.A. 1922. A revision of *Amoreuxia*. *Bull. Misc. Inform. Kew* 1922: 96-105.***palmatifida*** Sessé & Mociño ex A.P. de Candolle [M&H]

## Family COMANDRACEAE [1/1/2]

Judd, W.S., C.S. Campbell, E.A. Kellogg, P.F. Stevens, & M.J. Donoghue. 2016. *Plant Systematics: A Phylogenetic Approach*, 4<sup>th</sup> ed. Sinauer Associates, Inc., Sunderland, Massachusetts. 677 pp.Nickrent, D.L., V. Malécot, R. Vidal-Russell, & J.P. Der. 2010. A revised classification of Santalales. *Taxon* 59: 538-558.Nickrent, D.L. 2016. Comandraceae, pp. 408-412. IN: *Flora of North America*, vol. 12. Oxford University Press, New York.**Comandra** bastard-toadflaxLaferrère, J.E. 1994. Santalaceae. *J. Ariz.-Nev. Acad. Sci.* 27(2):240.Nickrent, D.L. 2016. *Comandra*, pp. 408-411. IN: *Flora of North America*, vol. 12. Oxford University Press, New York. [*Comandra umbellata californica*]Piehl, M.A. 1965. The natural history and taxonomy of *Comandra* (Santalaceae). *Mem. Torrey Bot. Club* 22(1):1-97.*californica* Eastwood ex Rydberg = *Comandra umbellata* (Linnaeus) Nuttall subsp. *californica* (Eastwood ex Rydberg) Piehl*pallida* A.P. de Candolle = *Comandra umbellata* (Linnaeus) Nuttall subsp. *pallida* (A.P. de Candolle) Piehl***umbellata*** (Linnaeus) Nuttall subsp. ***californica*** (Eastwood ex Rydberg) Piehl [Nickrent 2016]*Comandra californica* Eastwood ex Rydberg***umbellata*** (Linnaeus) Nuttall subsp. ***pallida*** (A.P. de Candolle) Piehl [M&H; Piehl 1965; W&S]*Comandra pallida* A.P. de Candolle

## Family COMPOSITAE = ASTERACEAE

## Family CONVULVULACEAE [7/50/53]

[Cuscutaceae, Dichondraceae]

Austin, D.F. 1990. Annotated checklist of New Mexican Convolvulaceae. *Sida* 14(2):273-286.Austin, D.F. 1992. Rare Convolvulaceae in the southwestern United States. *Ann. Missouri Bot. Gard.* 79: 8-16.Stefanović, S., L. Krueger, & R.G. Olmstead. 2002. Monophyly of the Convolvulaceae and circumscription of their major lineages based on DNA sequences of multiple chloroplast loci. *Amer. J. Bot.* 89(9): 1510-1522.Stefanović, S., D.F. Austin, & R. G. Olmstead. 2003. Classification of Convolvulaceae: a phylogenetic approach. *Syst. Bot.* 28(4): 791-806.**Calystegia** hedge-bindweedAustin, D.F. 2006. Noteworthy distributions and additions in southwestern Convolvulaceae. *Canotia* 2(3): 79-106.Brummitt, R.K. 1963. A taxonomic revision of the genus *Calystegia*. Ph.D. thesis, Univ. of Liverpool, United Kingdom.Brummitt, R.K. 1980. Further new names in the genus *Calystegia* (Convolvulaceae). *Kew Bull.* 35(2): 327-334.Carine, M.A., S.J. Russell, A. Santos-Guerra, & J. Francisco-Ortega. 2004. Relationships of the Macaronesian and Mediterranean floras: molecular evidence for multiple colonizations into Macaronesia and back colonization of the continent in *Convolvulus* (Convolvulaceae). *Amer. J. Bot.* 91: 1070-1085.

Spaulding, D.D. 2013. Key to the bindweeds (*Calystegia/Convolvulus*, Convolvulaceae) of Alabama and adjacent states. *Phytoneuron* 2013-83: 1-12.

**macounii** (Greene) Brummitt [Austin 1990]

*Convolvulus interior* House

*Convolvulus macounii* Greene

**sepium** (Linnaeus) R. Brown subsp. **angulata** Brummitt [Austin 1990; M&H; W&S]

*Calystegia sepium* (Linnaeus) R. Brown var. *angulata* (Brummitt) N. Holmgren

*Convolvulus repens* Linnaeus

*Convolvulus sepium* (Linnaeus) R. Brown var. *repens* (L.) Gray

*sepium* (Linnaeus) R. Brown var. *angulata* (Brummitt) N. Holmgren = *Calystegia sepium*

(Linnaeus) R. Brown subsp. *angulata* Brummitt

**silvatica** (Kitaibel) Grisebach subsp. **fraterniflora** (Mackenzie & Bush) Brummitt

[Austin 2006]

*Convolvulus fraterniflorus* (Mackenzie & Bush) Mackenzie & Bush

*Convolvulus sepium* Linnaeus var. *fraterniflorus* Mackenzie & Bush

**Convolvulus** bindweed

Wood, J.R.I, B.R.M. Williams, T.C. Mitchell, M.A. Carine, D.J. Harris, & R.W. Scotland. 2015. A foundation monograph of *Convolvulus* L. (Convolvulaceae). *PhytoKeys* 51: 1-282.

*alsinoides* Linnaeus = *Evolvulus alsinoides* (Linnaeus) Linnaeus

*ambigens* House = *Convolvulus arvensis* Linnaeus

**\*arvensis** Linnaeus [Austin 1990; M&H; W&S]

*Convolvulus ambigens* House

*capillaceus* Kunth = *Ipomoea capillacea* (Kunth) G. Don

**equitans** Benthham [Austin 1990; M&H; W&S]

*Convolvulus incanus* auctores non Vahl

*fraterniflorus* (Mackenzie & Bush) Mackenzie & Bush = *Calystegia silvatica* (Kitaibel)

Grisebach subsp. *fraterniflora* (Mackenzie & Bush) Brummitt

*incanus* auctores, non Vahl = *Convolvulus equitans* Benthham

*interior* House = *Calystegia macounii* (Greene) Brummitt

*macounii* Greene = *Calystegia macounii* (Greene) Brummitt

*purpureus* Linnaeus = *Ipomoea purpurea* (Linnaeus) Roth

*repens* Linnaeus = *Calystegia sepium* (Linnaeus) R. Brown subsp. *angulata* Brummitt

*sepium* Linnaeus var. *fraterniflorus* Mackenzie & Bush = *Calystegia silvatica* (Kitaibel)

Grisebach subsp. *fraterniflora* (Mackenzie & Bush) Brummitt

*sepium* (Linnaeus) R. Brown var. *repens* (L.) Gray = *Calystegia sepium* (Linnaeus) R.

Brown subsp. *angulata* Brummitt

**Cressa** alkaliweed

Austin, D.F. 2000. A revision of *Cressa* L. (Convolvulaceae). *Bot. J. Linn. Soc.* 133: 27-39.

*depressa* Goodding = *Cressa truxillensis* Kunth

*erecta* Rydberg = *Cressa truxillensis* Kunth

**truxillensis** Kunth [Austin 1990; M&H; W&S]

*Cressa depressa* Goodding

*Cressa erecta* Rydberg

*Cressa truxillensis* Kunth var. *vallicola* (Heller) Munz

*Cressa vallicola* Heller

*truxillensis* Kunth var. *vallicola* (Heller) Munz = *Cressa truxillensis* Kunth

*vallicola* Heller = *Cressa truxillensis* Kunth

**Cuscuta** dodder

Allred, K.W. 1999. New plant distribution records. *The New Mexico Botanist* 13:7. [*Cuscuta applanata*, *Cuscuta cuspidata*]

Austin, D.F. 1986. *Cuscutaceae*, pp. 661-666. IN: Great Plains Flora Association. *Flora of the Great Plains*. University Press of Kansas, Lawrence.

Costea, M. 2012. *Cuscuta*, pp. 278-279, IN: Allred, K.W. & R.D. Ivey. *Flora Neomexicana III: An Illustrated Identification Manual*. Publ. by the authors, Lulu Press, lulu.com.

Costea, M., G.L. Nesom, & S. Stefanovic. 2006. Taxonomy of the *Cuscuta pentagona* complex (Convolvulaceae) in North America. *Sida* 22(1):151-176.

Costea, M., G.L. Nesom, & S. Stefanovic. 2006. Taxonomy of the *Cuscuta salina-californica* complex (Convolvulaceae). *Sida* 22(1):177-195.

Costea, M., G.L. Nesom, & S. Stefanovic. 2006. Taxonomy of *Cuscuta gronovii* and *Cuscuta umbrosa* (Convolvulaceae). *Sida* 22(1):197-207.

Costea, M., G.L. Nesom, & S. Stefanovic. 2006. Taxonomy of the *Cuscuta indecora* (Convolvulaceae) complex in North America. *Sida* 22(1):209-225.

- Costea, M. & S. Stefanovic. 2009. Molecular phylogeny of the *Cuscuta californica* complex (Convolvulaceae) and a new species from New Mexico and Trans-Pecos. *Syst. Bot.* 34(3):570-579. [*Cuscuta draconella*]
- Costea, M., M.A.R. Wright, and S. Stefanović. 2009. Untangling the systematics of salt marsh dodders: *Cuscuta pacifica* a new segregate species from *Cuscuta salina* (Convolvulaceae). *Systematic Botany* 34: 787-795 [*Cuscuta salina*]
- Costea, M. & S. Stefanovic. 2010. Evolutionary history and taxonomy of the *Cuscuta umbellata* complex (Convolvulaceae): Evidence of extensive hybridization from discordant nuclear and plastid phylogenies. *Taxon* 59(6):1783-1800. [*Cuscuta lilliputana*, *Cuscuta legitima*]
- Costea, M., R.S. Felger, D.F. Austin, T.R. Van Devender. 2012. Convolvulaceae of Sonora, Mexico. II. *Cuscuta*. *J. Bot. Res. Inst. Texas* 62(2): 529-550.
- Costea, M., M.A. Garcia, & S. Stefanovic. 2015. A phylogenetically based infragenic classification of the parasitic plant genus *Cuscuta* (dodders, Convolvulaceae). *Syst. Bot.* 40(1): 269-285.
- Costea, M., I. Spence, & S. Stefanovic. 2011. Systematics of *Cuscuta chinensis* species complex (subgenus *Grammica*, Convolvulaceae): Evidence for long-distance dispersal and one new species. *Organisms, Diversity, & Evolution* 11: 373-386.
- Peterson, R.S. 2000. New plant distribution records. *The New Mexico Botanist* 15:7. [*Cuscuta warneri*]
- Stefanović S. and M. Costea. 2008. Reticulate evolution in the parasitic genus *Cuscuta* (Convolvulaceae): over and over and over again. *Botany (Canadian Journal of Botany)* 86: 791-808.
- Yuncker, T.G. 1921. Revision of the North American and West Indian species of *Cuscuta*. III. *Biol. Monogr.* 6:7-141.
- Yuncker, T.G. 1932. The genus *Cuscuta*. *Memoirs of the Torrey Botanical Club* 18(2): 113 - 331. [*Cuscuta fasciculata*, *Cuscuta approximata urceolata*]
- Yuncker, T.G. 1965. *Cuscuta*. *North American Flora*, ser. II, pt 4:1-51.
- applanata* Engelm = *Cuscuta chinensis* Lamarck *applanata* (Engelm) Costea & Stefanovic
- \*approximata** Babington [Yuncker 1932]  
*Cuscuta approximata* Babington var. *urceolata* (Kunze) Yuncker  
*approximata* Babington var. *urceolata* (Kunze) Yuncker = *Cuscuta approximata* Babington  
**azteca** Costea & Stefanovic [Costea et al. 2011; Yuncker 1921, 1965]  
*Cuscuta potosina* Schaffner var. *globifera* Yuncker  
*californica* Hooker & Arnott var. *reflexa* J.M. Coulter = *Cuscuta legitima* Costea & Stefanovic
- campestris** Yuncker [Costea et al. 2006; M&H]  
*Cuscuta pentagona* Engelm var. *calycina* Engelm  
*Cuscuta pentagona* Engelm var. *pubescens* (Engelm) Yuncker
- cephalanthi** Engelm [M&H]
- chinensis** Lamarck *applanata* (Engelm) Costea & Stefanovic [Allred 1999; Costea et al. 2011]  
*Cuscuta applanata* Engelm
- coryli** Engelm [Costea et al. 2006; M&H]
- curta* (Engelm) Rydberg = *Cuscuta umbrosa* Beyrich ex Hooker
- cuspidata** Engelm [Allred 1999]
- draconella** Costea & Stefanovic [Costea & Stefanovic 2009]
- \*epithymum** (Linnaeus) Linnaeus [M&H]  
*Cuscuta europaea* Linnaeus var. *epithymum* Linnaeus  
*fasciculata* Yuncker = *Cuscuta umbellata* Kunth
- glabrior** (Engelm) Yuncker [M&H]  
*Cuscuta pentagona* Engelm var. *glabrior* (Engelm) Gandhi, Thomas & Hatch  
*Cuscuta verrucosa* Engelm var. *glabrior* Engelm
- glomerata* Choisy : reported in error in earlier editions; attributed to Yuncker (1932), but not found there for NM.
- gronovii** Willdenow ex J.A. Schultes [Costea et al. 2006; M&H]  
*Cuscuta gronovii* Willdenow ex J.A. Schultes var. *latiflora* Engelm  
*gronovii* Willdenow ex J.A. Schultes var. *latiflora* Engelm = *Cuscuta gronovii* Willdenow
- indecora** Choisy [Costea et al. 2006; M&H]
- legitima** Costea & Stefanovic [Costea & Stefanovic 2010]  
*Cuscuta californica* Hooker & Arnott var. *reflexa* J.M. Coulter  
*Cuscuta umbellata* Kunth var. *reflexa* (J.M. Coulter) Yuncker
- leptantha** Engelm [M&H]

*Cuscuta palmeri* S. Watson

- liliputana*** Costea & Stefanovic [Costea & Stefanovic 2010]  
*megalocarpa* Rydberg = *Cuscuta umbrosa* Beyrich ex Hooker  
*mitriformis* Engelm.: Reported as expected by M&H map; awaits verification.  
*pentagona* Engelm. var. *calycina* Engelm. = *Cuscuta campestris* Yuncker  
*pentagona* Engelm. var. *glabrior* (Engelm.) Gandhi, Thomas & Hatch = *Cuscuta glabrior* (Engelm.) Yuncker  
*pentagona* Engelm. s.s.: Not known from NM [Costea et al. 2006].  
*pentagona* Engelm. var. *pubescens* (Engelm.) Yuncker = *Cuscuta glabrior* (Engelm.) Yuncker  
*potosina* Schaffner var. *globifera* Yuncker = *Cuscuta azteca* Costea & Stefanovic  
***salina*** Engelm. [Costea et al. 2006; M&H]  
***squamata*** Engelm. [M&H]  
 \**suaveolens* Seringe: Reported without documentation by Kartesz (1999); awaits verification.

***tuberculata*** Brandegee [Yuncker 1921, 1965]

***umbellata*** Kunth [M&H]

*Cuscuta fasciculata* Yuncker

*umbellata* Kunth var. *reflexa* (J.M. Coulter) Yuncker = *Cuscuta legitima* Costea & Stefanovic

***umbrosa*** Beyrich ex Hooker [Costea et al. 2006]

*Cuscuta curta* (Engelm.) Rydberg

*Cuscuta gronovii* Willdenow ex J.A. Schultes var. *curta* Engelm.

*Cuscuta megalocarpa* Rydberg

*verrucosa* Engelm. var. *glabrior* Engelm. = *Cuscuta glabrior* (Engelm.) Yuncker

***warneri*** Yuncker [Costea et al. 2006; Peterson 2000]

***Dichondra*** *dichondra*

Austin, D.L. 1998. The indiscriminate vector: Human distribution of *Dichondra micrantha* (Convolvulaceae). *Econ. Bot.* 52(1): 88-106.

Tharp, B.C. & M.C. Johnston. 1961. Recharacterization of *Dichondra* (Convolvulaceae) and a revision of the North America species. *Brittonia* 13: 346-360.

Turner, B.L. 2008. Botanical anecdotes: Circumstances surrounding the collection of *Dichondra micrantha* (Convolvulaceae) in LaSalle County, Texas. *Phytologia* 90(2): 226-229.

***argentea*** Humboldt & Bonpland ex Willdenow [Austin 1990; M&H; W&S]

***brachypoda*** Wooton & Standley [Austin 1990; M&H; W&S]

***micrantha*** Urban [FNM I]

*Dichondra repens* of NM reports

*Dichondra sericea* of NM reports

*repens* of NM reports = *Dichondra micrantha* Urban

*sericea* of NM reports = *Dichondra micrantha* Urban

***Evolvulus*** *evolvulus*

Austin, D.F. 1990. Comments on southwestern United States *Evolvulus* and *Ipomoea* (Convolvulaceae). *Madrono* 37(2): 124-132.

Felger, R.S., D.F. Austin, T.R. Van Devender, & J.J. Sanchez-Escalante. 2012. Convolvulaceae of Sonora, Mexico. I. *Convolvulus*, *Cressa*, *Dichondra*, *Evolvulus*, *Ipomoea*, *Jacquemontia*, *Merremia*, and *Operculina*. *J. Bot. Res. Inst. Texas* 62(2): 459-527.

Harms, R.T. 2014. A new species of *Evolvulus* (Convolvulaceae) from the High Plains of the Texas/New Mexico border. *Phytoneuron* 2014-20: 1-20. [*Evolvulus arenarius*]

Harms, R.T. 2018, Nov 24. Studies in *Evolvulus*. Retrieved from [http://w3.biosci.utexas.edu/prc/EV/\[Evolvulus sericeus discolor\]](http://w3.biosci.utexas.edu/prc/EV/[Evolvulus sericeus discolor])

Van Oostroom, S.J. 1934. A monograph of the genus *Evolvulus*. *Meded. Bot. Mus. Herb. Rijks Univ. Utrecht*. 14: 1-267.

***alsinoides*** (Linnaeus) Linnaeus [Austin 1990; M&H; W&S]

*Convolvulus alsinoides* Linnaeus

*Evolvulus alsinoides* Linnaeus var. *angustifolius* Torrey

*Evolvulus linifolius* of NM reports

*alsinoides* Linnaeus var. *angustifolius* Torrey = *Evolvulus alsinoides* (Linnaeus) Linnaeus

***arenarius*** Harms [Harms 2014]

*argenteus* Pursh = *Evolvulus nuttallianus* Roemer & Schultes

***arizonicus*** A. Gray [Austin 1990; M&H; W&S]

*Evolvulus arizonicus* A. Gray var. *laetus* (A. Gray) Van Oostroom

- Evolvulus laetus* A. Gray  
*arizonicus* Gray var. *laetus* (Gray) Van Oostroom = *Evolvulus arizonicus* A. Gray  
*discolor* Bentham = *Evolvulus sericeus* Swartz var. *discolor* (Bentham) A. Gray  
*Evolvulus oreophilus* Greene  
*Evolvulus sericeus* Swartz var. *discolor* (Bentham) Gray  
*laetus* Gray = *Evolvulus arizonicus* A. Gray  
*linifolius* of NM reports = *Evolvulus alsinoides* (Linnaeus) Linnaeus  
***nuttallianus*** Roemer & Schultes (1820) [Austin 1990; M&H; W&S]  
*Evolvulus argenteus* Pursh, not R. Brown (1814, later homonym)  
*Evolvulus* “(*pilosus*)” Nuttall (1818, illeg.)  
*oreophilus* Greene = *Evolvulus discolor* Bentham  
*pilosus* Nuttall = *Evolvulus nuttallianus* Roemer & Schultes  
***sericeus*** Swartz var. ***discolor*** (Bentham) Gray [Harms 2018]  
*Evolvulus discolor* Bentham  
***sericeus*** Swartz var. ***sericeus*** [Austin 1990; M&H; W&S]  
*Evolvulus wilcoxianus* House  
*wilcoxianus* House = *Evolvulus sericeus* Swartz var. *sericeus*
- Ipomoea*** morning-glory
- Austin, D.F. 1990. Comments on southwestern United States *Evolvulus* and *Ipomoea* (Convolvulaceae). *Madrono* 37(2): 124-132.
- Austin, D.F. 2006. Noteworthy distributions and additions in southwestern Convolvulaceae. *Canotia* 2(3): 79-106. [*Ipomoea aristochiifolia*?]
- Fang, Z., A.M. Gonzales, M.L. Durbin, K.K.T. Meyer, B.H. Miller, K.M. Volz, M.T. Clegg, P.L. Morrell. 2013. Tracing the geographic origins of weedy *Ipomoea purpurea* in the southeastern United States. *J. Heredity* 104(5): 666-677.
- Felger, R.S., D.F. Austin, T.R. Van Devender, & J.J. Sanchez-Escalante. 2012. Convolvulaceae of Sonora, Mexico. I. *Convolvulus*, *Cressa*, *Dichondra*, *Evolvulus*, *Ipomoea*, *Jacquemontia*, *Merremia*, and *Operculina*. *J. Bot. Res. Inst. Texas* 62(2): 459-527.
- Keith, K., R.A. Stamler, J.J. Randall, K.E. Perez, & J.A. McDonald. 2017. *Ipomoea gilana*: A new and endemic morning glora (Ipomoeaceae, Convolvulaceae) in the Gila National Forest, New Mexico.
- McDonald, A. 1984. *Ipomoea dumetorum* (Convolvulaceae): an amphitropical disjunct morning glory in the southwestern United States. *Sida* 10:252-254.
- McDonald, J.A. 1995. Revision of *Ipomoea* section *Leptocallis* (Convolvulaceae). *Harvard Papers in Botany* 6:97-122.
- McDonald, J.A., D.R. Hansen, J.R. McDill, & B.B. Simpson. 2011. A phylogenetic assessment of breeding systems and floral morphology of North American *Ipomoea* (Convolvulaceae). *J. Bot. Res. Inst. Texas* 5(1): 159-177.
- Soreng, R. & R. Spellenberg. 1981. Noteworthy collections (New Mexico). *Madroño* 28:87-88. [*Ipomoea plummerae cuneifolia*]
- Spellenberg, R.S. 2008. Plant distribution reports. *The New Mexico Botanist* 44: 7. [*Ipomoea cordatotriloba torreyana*]
- Staples, G.W., J.H. Wiersma, N.A. Chambers, & D.F. Austin. 2005. The restoration of *Ipomoea muricata* (L.) Jacq. (Convolvulaceae). *Taxon* 54(4): 1075-1079.
- Tidestrom, I. & T. Kittell. 1941. *A Flora of Arizona and New Mexico*. The Catholic University of America Press, Washington, D.C. 897 pp. [*Ipomoea plummerae*]
- Wood, J.R.I., P. Munoz-Rodriguez, B.R.M. Williams, & R.W. Scotland. 2020. A foundation monograph of *Ipomoea* (Convolvulaceae) in the New World. *PhytoKeys* 143: 1-823.
- Yatskievych, G. & C.T. Mason, Jr. 1984. A taxonomic study of *Ipomoea tenuiloba* Torrey (Convolvulaceae), with notes on related species. *Madrono* 31(2): 102-108.
- aristolochiifolia* G. Don : Seemingly reported for NM by Austin (2006) in his map (Fig. 3), but this seems to be a mix-up of mapping symbols; no specimens are known.
- aristolochiifolia* of NM reports, not G. Don = *Ipomoea cardiophylla* Gray
- barbatisepala*** Gray [Austin 1990; M&H]
- capillacea*** (Kunth) G. Don [Austin 1990; M&H; W&S]  
*Convolvulus capillaceus* Kunth  
*Ipomoea muricata* Cavanilles, not (Linnaeus) Jacquin  
*Ipomoea patens* (Gray) House
- cardiophylla*** Gray [Austin 1990; M&H; W&S]  
*Ipomoea aristolochiifolia* of NM reports, not G. Don
- coccinea* auctores non Linnaeus var. *coccinea* = *Ipomoea cristulata* H. Hall.
- coccinea* auctores non Linnaeus var. *hederifolia* auctores = *Ipomoea cristulata* H. Hall
- cordatotriloba*** Dennstedt var. ***torreyana*** (A. Gray) D. Austin [Spellenberg 2008]

- Ipomoea trifida* (Kunth) G. Don var. *torreyana* A. Gray  
**costellata** Torrey [Austin 1990; M&H; W&S]  
**crisulata** Hallier f. [Austin 1990; M&H; W&S]  
*Ipomoea coccinea* auctores non Linnaeus  
*Ipomoea coccinea* auctores non Linnaeus var. *hederifolia* auctores  
*Quamoclit coccinea* (auctores non Linnaeus) Moench  
*Quamoclit hederifolia* (auctores non Linnaeus) Choisy  
*cuneifolia* Gray = *Ipomoea plummerae* Gray var. *cuneifolia* (Gray) Macbride  
*desertorum* House = *Ipomoea hederacea* Jacquin  
**dumetorum** Willdenow ex Roemer & Schultes [Austin 1990; McDonald 1984]  
*egregia* House = *Ipomoea plummerae* Gray var. *cuneifolia* (Gray) Macbride  
+ **gilana** Keith & McDonald [Keith et al. 2017]  
\***hederacea** Jacquin [Austin 1990; M&H]  
*Ipomoea desertorum* House  
*Ipomoea hirsutula* of NM reports  
*Pharbitis hederacea* (Linnaeus) Choisy  
*hirsutula* Jacquin f. = *Ipomoea purpurea* (Linnaeus) Roth  
*hirsutula* of NM reports = *Ipomoea hederacea* Jacquin  
*lemmonii* Gray = *Ipomoea tenuiloba* Torrey  
**leptophylla** Torrey [Austin 1990; M&H; W&S]  
bush morning-glory  
*leptotoma* Torrey = *Ipomoea ternifolia* Cavanilles var. *leptotoma* (Torrey) McDonald  
*leptotoma* Torrey var. *wootonii* Kelson = *Ipomoea ternifolia* Cavanilles var. *leptotoma*  
(Torrey) McDonald  
**lindheimeri** Gray [Austin 1990; M&H; W&S]  
*Pharbitis lindheimeri* (Gray) Small  
longifolia Benthham : Reported by M&H and Wood et al. (2020), based on *Wright 1617*,  
which is mislabeled as from NM; not occurring in NM [Austin 1990].  
*mexicana* Gray = *Ipomoea purpurea* (Linnaeus) Roth  
*muricata* Cavanilles, not (Linnaeus) Jacquin = *Ipomoea capillacea* (Kunth) G. Don  
*patens* (Gray) House = *Ipomoea capillacea* (Kunth) G. Don  
**plummerae** Gray var. **cuneifolia** (Gray) Macbride [McDonald 1995; Soreng &  
Spellenberg 1981]  
*Ipomoea cuneifolia* Gray  
*Ipomoea egregia* House  
**plummerae** Gray var. **plummerae** [Austin 1990; Tidestrom & Kittell 1941]  
**pubescens** Lamarck [Austin 1990]  
\***purpurea** (Linnaeus) Roth [Austin 1990; M&H; W&S]  
*Convolvulus purpureus* Linnaeus  
*Ipomoea hirsutula* Jacquin f.  
*Ipomoea mexicana* Gray  
**tenuiloba** Torrey var. **tenuiloba** [Austin 1990; M&H; W&S]  
**ternifolia** Cavanilles var. **leptotoma** (Torrey) McDonald [Austin 1990; M&H]  
*Ipomoea leptotoma* Torrey  
*Ipomoea leptotoma* Torrey var. *wootonii* Kelson  
*trifida* (Kunth) G. Don var. *torreyana* A. Gray = *Ipomoea cordatotriloba* Dennstedt var.  
*torreyana* (Kunth) G. Don  
*Pharbitis hederacea* (Linnaeus) Choisy = *Ipomoea hederacea* (Linnaeus) Jacquin  
*lindheimeri* (Gray) Small = *Ipomoea lindheimeri* Gray  
*Quamoclit coccinea* (auctores non Linnaeus) Moench = *Ipomoea crisulata* H. Hall.  
*hederifolia* (auctores non Linnaeus) Choisy = *Ipomoea crisulata* H. Hall.

Family CORRIGIOLACEAE = CARYOPHYLLACEAE

### Family CORNACEAE [1/2/2]

#### **Cornus** dogwood

- Eyde, R.H. 1987. The case for keeping *Cornus* in the broad Linnaean sense. *Syst. Bot.* 12:509-518.  
Ferguson, I.K. 1966. Notes on the nomenclature of *Cornus*. *J. Arnold Arbor.* 47:100-105.  
Murrell, Z.E. 1993. Phylogenetic relationships in *Cornus* (Cornaceae). *Syst. Bot.* 18: 469-495.

- Murrell, Z.E. & D.B. Poindexter. 2016. Cornaceae, pp. 443-457. IN: Flora of North America, vol. 12. Oxford University Press, New York.
- Rickett, H.W. 1944. Cornales. N. Amer. Fl. 28B: 297-316.
- alba* Linnaeus subsp. *stolonifera* (Michaux) Wangerin = *Cornus stolonifera* Michaux
- canadensis*** Linnaeus [M&H]
- instolonea* A. Nelson = *Cornus stolonifera* Michaux
- sericea* of NM reports = *Cornus stolonifera* Michaux
- sericea* Linnaeus subsp. *stolonifera* (Michaux) Fosberg = *Cornus stolonifera* Michaux
- stolonifera*** Michaux [M&H; W&S]
- Cornus alba* Linnaeus subsp. *stolonifera* (Michaux) Wangerin
- Cornus instolonea* A. Nelson
- Cornus sericea* of NM reports
- Cornus sericea* Linnaeus subsp. *stolonifera* (Michaux) Fosberg
- Garrya*...go to GARRYACEAE

### Family CRASSULACEAE [4/9/11]

- Mort, M. E., D. E. Soltis, P. S. Soltis, J. Francisco-Ortega, and A. SantosGuerra. 2001. Phylogenetic relationships and evolution of Crassulaceae inferred from matK sequence data. American Journal of Botany 88:76–91.
- Zhang, J.-Q., S.-Y. Meng, J. Wen, & G.-Y. Rao. 2014. Phylogenetic relationships and character evolution of *Rhodiola* (Crassulaceae) based on nuclear ribosomal ITS and plastid trnL-F and psbA-trnH sequences. Syst. Bot. 39(2):441-451.
- Clematisia rhodantha* (Gray) Rose = *Rhodiola rhodantha* (Gray) H. Jacobsen
- Cotyledon rusbyi* Greene = *Graptopetalum rusbyi* (Greene) Rose
- Crassula*** pygmyweed
- Moran, R.V. 2009. *Crassula*, p. 150-155. IN: Flora of North America, vol. 8. Oxford University Press, New York.
- aquatica*** (Linnaeus) Schönland [Moran 2009]
- Tillaea aquatica* Linnaeus
- Graptopetalum*** leather-petal
- Acevedo-Rosas, R.L., K. Cameron, V. Sosa, & S. Pell. 2004. A molecular phylogenetic study of *Graptopetalum* (Crassulaceae) based on ETS, ITS, *rp16*, and *trnL-F* nucleotide sequences. Amer. J. Bot. 91(7):1099-1104.
- Sivinski, R.C. & K. Lightfoot, eds. 1994. Inventory of rare and endangered plants of New Mexico. New Mexico Forestry and Resources Conservation Division, Misc. Publ. No. 3. [*Graptopetalum rusbyi*]
- rusbyi*** (Greene) Rose [Sivinski & Lightfoot 1994]
- Cotyledon rusbyi* Greene
- Rhodiola*** roseroot, rhodiola
- Mayuzumi, S. and H. Ohba. 2004. The phylogenetic position of eastern Asian Sedoideae (Crassulaceae) inferred from chloroplast and nuclear DNA sequences. Systematic Botany 29: 587–598.
- Zhang, J.-Q., S.-Y. Meng, J. Wen, & G.-Y. Rao. 2014. Phylogenetic relationships and character evolution of *Rhodiola* (Crassulaceae) based on nuclear ribosomal ITS and plastid trnL-F and psbA-trnH sequences. Syst. Bot. 39(2):441-451.
- integrifolia*** Rafinesque subsp. ***integrifolia*** [Clausen 1975; M&H; Moran 2009]
- Sedum integrifolium* (Rafinesque) A. Nelson
- Sedum integrifolium* (Rafinesque) A. Nelson subsp. *procerum* Clausen
- +***integrifolia*** Rafinesque subsp. ***neomexicana*** (Britton) H. Ohba [Clausen 1975; M&H; Moran 2009; W&S]
- Rhodiola neomexicana* Britton
- Rhodiola polygama* (Rydberg) Britton & Rose
- Sedum integrifolium* (Rafinesque) A. Nelson subsp. *neomexicanum* (Britton) Clausen
- neomexicana* Britton = *Rhodiola integrifolia* Rafinesque subsp. *neomexicana* (Britton) H. Ohba
- polygama* (Rydberg) Britton & Rose = *Rhodiola integrifolia* Rafinesque subsp. *neomexicana* (Britton) H. Ohba
- rhodantha*** (Gray) H. Jacobsen [Clausen 1975; M&H; Moran 2009; W&S]
- Sedum rhodanthum* Gray
- Clematisia rhodantha* (Gray) Rose

**Sedum** stonecrop

- Clausen, R.T. 1975. *Sedum* of North America North of the Mexican Plateau. Cornell University Press, Ithaca, New York. 742 pp.
- Clausen, R.T. 1979. *Sedum* in six areas of the Mexican Cordilleran Plateau. Bull. Torrey Bot. Club 106(3):205-216.
- Moran, R.V. 2009. *Rhodiola*, p. 164-167. IN: Flora of North America, vol. 8. Oxford University Press, New York.
- Ohba, H. 2009. *Sedum*, p. 199-222. IN: Flora of North America, vol. 8. Oxford University Press. [*Sedum debile*, *Sedum wrightii* *wrightii*]
- Mayuzumi, S. and H. Ohba. 2004. The phylogenetic position of eastern Asian Sedoideae (Crassulaceae) inferred from chloroplast and nuclear DNA sequences. Systematic Botany 29: 587–598.
- Zhang, J.-Q., S.-Y. Meng, J. Wen, & G.-Y. Rao. 2014. Phylogenetic relationships and character evolution of *Rhodiola* (Crassulaceae) based on nuclear ribosomal ITS and plastid trnL-F and psbA-trnH sequences. Syst. Bot. 39(2):441-451.
- anomiosepalum* Fröderström = *Sedum cockerellii* Britton
- cockerellii*** Britton [Clausen 1975; M&H; Ohba 2009; W&S]  
*Sedum anomiosepalum* Fröderström  
*Sedum griffithsii* Rose  
*Sedum wootonii* Britton
- debile*** S. Watson [Ohba 2009]
- griffithsii* Rose = *Sedum cockerellii* Britton
- integrifolium* (Rafinesque) A. Nelson = *Rhodiola integrifolia* Rafinesque subsp. *integrifolia*
- integrifolium* (Rafinesque) A. Nelson subsp. *neomexicanum* (Britton) Clausen = *Rhodiola integrifolia* Rafinesque subsp. *neomexicana* (Britton) H. Ohba
- integrifolium* (Rafinesque) A. Nelson subsp. *procerum* Clausen = *Rhodiola integrifolia* Rafinesque subsp. *integrifolia*
- lanceolatum*** Torrey subsp. ***lanceolatum*** [Clausen 1975; M&H; Moran 2009; W&S]  
*Sedum stenopetalum* sensu W&S
- rhodanthum* Gray = *Rhodiola rhodantha* (Gray) H. Jacobsen
- rosea* (Linnaeus) Scopoli : Reported by Correll & Correll (1972), but this species occurs far to the east of NM [Clausen 1975].
- stelliforme*** S. Watson [Clausen 1975; M&H; Ohba 2009; W&S]  
*stenopetalum* sensu W&S = *Sedum lanceolatum* Torrey
- wootonii* Britton = *Sedum cockerellii* Britton
- wrightii*** Gray subsp. ***priscum*** R.T. Clausen [Clausen 1975, 1979; M&H; Ohba 2009; W&S]
- wrightii*** Gray subsp. ***wrightii*** [Ohba 2009]
- Tillaea aquatica* Linnaeus = *Crassula aquatica* (Linnaeus) Schönland

**Family CROSSOSOMATACEAE** [2/2/3]

Mason, C.T., Jr. & G. Yatskievych. 2014. Crossosomataceae, pp. 9-17. IN: Flora of North America, vol. 9. Oxford University Press.

**Apacheria** Apache-bush

- Knight, P.J., C.R. Wahl, & R. Fletcher. 1984. Noteworthy collections (New Mexico). Madroño 31:63.
- Spellenberg, R., M. Mahrt & R. Brozka. 1991. Noteworthy collections, New Mexico. Madroño 38:298-301.

***chiricahuensis*** Mason [Knight et al. 1984; Spellenberg et al. 1991]

*Forsellesia planitierum* Ensign = *Glossopetalon spinescens* Gray var. *planitierum* (Ensign) Yatskievych  
*spinescens* (Gray) Greene = *Glossopetalon spinescens* Gray

**Glossopetalon** greasebush

- Brooks, R.E. 1984. An addition to the New Mexico flora, *Glossopetalon planitierum* (Crossosomataceae). Sida 10:321-322.
- Ensign, M. A. 1942. Revision of the celastraceous genus *Forsellesia* (*Glossopetalon*). American Midland Naturalist 27:501-511.
- Holmgren, N. 1988. *Glossopetalon* (Crossosomataceae) and a new variety of *G. spinescens* from the Great Basin, U.S.A. Brittonia 40:269-274.
- Yatskievych, G. 2007. New combination in *Glossopetalon* (Crossosomataceae). Novon 17(4):529-530.
- planitierum* (Ensign) St. John = *Glossopetalon spinescens* Gray var. *planitierum* (Ensign) Yatskievych
- spinescens*** Gray var. ***planitierum*** (Ensign) Yatskievych [Brooks 1984]  
*Forsellesia planitierum* Ensign
- spinescens*** Gray var. ***spinescens*** [M&H; W&S]



*Forsellesia spinescens* (Gray) GreeneFamily *CRUCIFERAE* = BRASSICACEAEFamily **CUCURBITACEAE** [11/17/18]

Jeffrey, C. 1990. Appendix: An outline classification of the Cucurbitaceae, pp. 449-463. IN: D.M. Bates, R.W. Robinson, & C. Jeffrey, eds. Biology and utilization of the Cucurbitaceae. Cornell University Press, Ithaca, NY.

Nesom, G.L. 2015. Cucurbitaceae, pp. 3-58. IN: Flora of North America, vol. 6. Oxford University Press.

Schaefer, H. & S.S. Renner. 2011. Phylogenetic relationships in the order Cucurbitales and a new classification of the gourd family (Cucurbitaceae). *Taxon* 60(1):122-138.

**Apodanthera** melon-loco*undulata* Gray var. *undulata* [M&H; W&S]**Citrullus** watermelon

Dane, F. & J. Liu. 2007. Diversity and origin of cultivated and citron type watermelon (*Citrullus lanatus*). *Genet. Resources Crop Evol.* 54:1255-1265.

Nesom, G.L. 2011. Toward consistency of taxonomic rank in wild/domesticated Cucurbitaceae. *Phytoneuron* 2011-13:1-33.

Spellenberg, R., R. Worthington, P. Knight, & R. Fletcher. 1986. Additions to the flora of New Mexico. *Sida* 11(4):455-470. [*Citrullus vulgaris citroides*]

*citrullus* (Linnaeus) Small = *Citrullus lanatus* (Thunberg) Matsumura & Nakai\**caffer* Schrader [Spellenberg et al. 1986]

citron melon

*Citrullus vulgaris* Schrader var. *citroides* Bailey*Citrullus lanatus* (Thunberg) Matsumura & Nakai var. *citroides* (Bailey)

Mansfeld

*lanatus* (Thunberg) Matsumura & Nakai var. *citroides* (Bailey) Mansfeld = *Citrullus caffer* Schrader\**lanatus* (Thunberg) Matsumura & Nakai subsp. *lanatus* [M&H; W&S]*Citrullus citrullus* (Linnaeus) Small*Citrullus vulgaris* Schrader*Momordica lanata* Thunberg*vulgaris* Schrader = *Citrullus lanatus* (Thunberg) Matsumura & Nakai*vulgaris* Schrader var. *citroides* Bailey = *Citrullus caffer* Schrader**Cucumis** melon

Decker-Walters, D.S., S.-M. Chung, J.E. Staub, H.D. Quemada, & A.I. Lopez-Sese. 2002. The origin and genetic affinities of wild populations of melon (*Cucumis melo*, Cucurbitaceae) in North America. *Pl. Syst. Evol.* 233:183-197.

Hershey, A.L. 1938. Notes on plants of New Mexico – 1. Leaflets of Western Botany 2(8):138. [*Cucumis myriocarpus*]

Kirkbride, J.H. 1993. Biosystematic monograph of the genus *Cucumis* (Cucurbitaceae): botanical identification of cucumbers and melons. Boone, N.C.: Parkway Publishers.

Nesom, G.L. 2011. Toward consistency of taxonomic rank in wild/domesticated Cucurbitaceae. *Phytoneuron* 2011-13:1-33.

\**melo* Linnaeus subsp. *melo* [M&H; W&S]

cantaloupe

\**myriocarpus* Naudin [Hershey 1938]

gooseberry gourd

**Cucurbita** gourd

Heil, K.D., S.L. O'Kane, & A. Clifford. 2002. Additions to the flora of New Mexico from the San Juan Basin Flora project. *The New Mexico Botanist* 24:1-4. [*Cucurbita pepo pepo*]

Nesom, G.L. 2011. Toward consistency of taxonomic rank in wild/domesticated Cucurbitaceae. *Phytoneuron* 2011-13:1-33.

Sivinski, R.C. & K. Lightfoot, eds. 1994. Inventory of rare and endangered plants of New Mexico. New Mexico Forestry and Resources Conservation Division, Misc. Publ. No. 3. [*Cucurbita melopepo texana*]

*digitata* Gray [M&H; W&S]*foetidissima* Kunth [M&H; W&S]

buffalo gourd

*Cucurbita perennis* Gray*Pepo foetidissima* (Kunth) Britton

melopepo Linnaeus var. *texana* (Scheele) Nesom : Reported or considered for NM by Sivinski & Lightfoot (1994), but no specimens are known from the state; this variety is considered endemic to Texas by Nesom (2015).

*Cucurbita pepo* Linnaeus var. *texana* (Scheele) Decker  
*Tristemon texanum* Scheele

\***pepo** Linnaeus subsp. **pepo** [Heil et al. 2002]  
pumpkin

*pepo* Linnaeus var. *texana* (Scheele) Decker = *Cucurbita melopepo* Linnaeus var. *texana* (Scheele) Nesom

*perennis* Gray = *Cucurbita foetidissima* Kunth

**Cyclanthera** *cyclanthera*

Nesom, G.L. 2014. Taxonomy of *Cyclanthera* (Cucurbitaceae) in the USA. *Phytoneuron* 2014-11: 1–17.

Wagner, W.L. 1979. New records to the Animas Mountain flora, New Mexico. *Southw. Naturalist* 24(2):291-296. [*Cyclanthera dissecta*]

*dissecta* (Torrey & Gray) Arnott : Reported by M&H & Wagner (1979), but our plants are referred to *Cyclanthera naudiniana* Cogniaux (Nesom 2015).

*Discanthera dissecta* Torrey & Gray

**gracillima** Cogniaux [Nesom 2014, 2015]

*Cyclanthera naudiniana* Cogniaux var. *tenuifolia* Cogniaux

**naudiniana** Cogniaux [M&H; Nesom 2014, 2015; Wagner 1979]

*Cyclanthera dissecta* of NM reports (Nesom 2015).

*naudiniana* Cogniaux var. *tenuifolia* Cogniaux = *Cyclanthera gracillima* Cogniaux

*Discanthera dissecta* Torrey & Gray = *Cyclanthera dissecta* (Torrey & Gray) Arnott

**Echinocystis** wild cucumber

*gilensis* Greene = *Marah gilensis* (Greene) Greene

**lobata** (Michaux) Torrey & Gray [M&H; Nesom 2015]

*Micrampelis lobata* (Michaux) Greene

*Sicyos lobatus* Michaux

*wrightii* (Gray) Cogniaux = *Echinopepon wrightii* (Gray) S. Watson

**Echinopepon** spiny-melon

Monro, A.K. & P.J. Stafford. 1998. A synopsis of the genus *Echinopepon* (Cucurbitaceae: Sicyeae), including three new taxa. *Ann. Missouri Bot. Gard.* 85:257-272.

Stocking, K.M. 1955. Some considerations of the genera *Echinocystis* and *Echinopepon* in the United States and northern Mexico. *Madroño* 13:84-100. [*Echinopepon coulteri*]

*confusus* Rose = *Echinopepon coulteri* (Gray) Rose

**coulteri** (Gray) Rose [Stocking 1955; Monro & Stafford 1998]

*Echinopepon confusus* Rose

*Elaterium coulteri* Gray

**wrightii** (Gray) S. Watson [M&H; Nesom 2015; W&S]

*Echinocystis wrightii* (Gray) Cogniaux

*Elaterium wrightii* Gray

*Elaterium coulteri* Gray = *Echinopepon coulteri* (Gray) Rose

*wrightii* Gray = *Echinopepon wrightii* (Gray) S. Watson

**Ibervillea** deer-apples

Kearns, D.M. 1994. The genus *Ibervillea* (Cucurbitaceae): An enumeration of the species and two new combinations. *Madroño* 41(1):13-22.

Spellenberg, R., R. Worthington, P. Knight, & R. Fletcher. 1986. Additions to the flora of New Mexico. *Sida* 11(4):455-470.

**lindheimeri** (A. Gray) Greene [Kearns; FNM]

*Ibervillea tripartita* (Naudin) Greene

*lindheimeri* (A. Gray) Greene var. *tenuisecta* (A. Gray) M.C. Johnston = *Ibervillea*

*tenuisecta* (A. Gray) Small

**tenuisecta** (A. Gray) Small [M&H; W&S]

*Ibervillea lindheimeri* (A. Gray) Greene var. *tenuisecta* (A. Gray) M.C. Johnston

*Sicydium lindheimeri* Gray var. *tenuisectum* Gray

*tripartita* (Naudin) Greene = *Ibervillea lindheimeri* (A. Gray) Greene

**Marah** manroot

Stocking, K.M. 1955. Some taxonomic and ecological considerations of the genus *Marah*. *Madroño* 13:113-137.

**gilensis** (Greene) Greene [M&H; Nesom 2015; W&S]

- Echinocystis gilensis* Greene  
*Megarrhiza gilensis* Greene  
*Micrampelis gilensis* (Greene) Britton  
*Megarrhiza gilensis* Greene = *Marah gilensis* (Greene) Greene  
*Micrampelis gilensis* (Greene) Britton = *Marah gilensis* (Greene) Greene  
*lobata* (Michaux) Greene = *Echinocystis lobata* (Michaux) Torrey & Gray  
**Momordica** balsam-apple  
 Spellenberg, R. 1996. New plant distribution records. The New Mexico Botanist 4:8. [*Momordica balsamina*]  
 \***balsamina** Linnaeus [Spellenberg 1996]  
*lanata* Thunberg = *Citrulus lanatus* (Thunberg) Matsumura & Nakai var. *lanatus*  
*Pepo foetidissima* (Kunth) Britton = *Cucurbita foetidissima* Kunth  
*Sicydium lindheimeri* Gray var. *tenuisectum* Gray = *Ibervillea tenuisecta* (Gray) Small  
**Sicyos** bur-cucumber  
 Nesom, G.L. 2011. Taxonomy of *Sicyos* (Cucurbitaceae) in the USA. Phytoneuron 2011-15:1-11.  
*ampelophyllus* Wooton & Standley = *Sicyos laciniatus* Linnaeus  
**glaber** Wooton [M&H; Nesom 2011; W&S]  
**laciniatus** Linnaeus [M&H; Nesom 2011; W&S]  
*Sicyos ampelophyllus* Wooton & Standley  
*Sicyos laciniatus* Linnaeus var. *subintigera* Cogniaux  
*laciniatus* Linnaeus var. *subintigera* Cogniaux = *Sicyos laciniatus* Linnaeus  
*lobatus* Michaux = *Echinocystis lobata* (Michaux) Torrey & Gray  
**microphyllus** Kunth [M&H; Nesom 2011; W&S]  
*parviflorus* Willdenow : Reported by NM authors, but the name has been misapplied; our plants belong to *Sicyos microphyllus* Kunth  
*trifoliatus* Linnaeus = *Cissus trifoliata* (Linnaeus) Linnaeus (Vitaceae)  
**Sicyosperma** climbing arrowheads  
*gracile* Gray : Despite reports by M&H and Nesom (2015), no specimens have ever been located of this from NM; awaits verification.  
*Tristemon texanum* Scheele = *Cucurbita pepo* Linnaeus var. *texana* (Scheele) Decker

Family CUSCUTACEAE = CONVOLVULACEAE

Family DICHONDRACEAE = CONVOLVULACEAE

Family DILLENIACEAE

*Tigarea tridentata* Pursh = *Purshia tridentata* (Pursh) A.P. de Candolle

Family DIPSACACEAE = CAPRIFOLIACEAE

### Family EHRETIACEAE [1/4/4]

- Boraginales Working Group. 2016. Familial classification of the Boraginales. Taxon 65(3): 502-522.  
 Hasenstab-Lehman, K.E. 2017. Phylogenetics of the borage family: delimiting Boraginales and assessing closest relatives. Aliso 35(1):41-49.  
 Higgins, L.C. 1979. Boraginaceae of the southwestern United States. Great Basin Naturalist 39(4):293-350.  
 Sivinski, R.C. 2013. Boraginaceae, pp 321-337. In: Flora of the Four Corners Region. Missouri Botanical Garden Press, St. Louis.  
**Tiquilia** tiquilia  
 Richardson, A.T. 1977. Monograph of the genus *Tiquilia* (*Coldenia*, sensu lato), Boraginaceae: Ehretioideae. Rhodora 79(820):467-572.  
**canescens** (A.P. de Candolle) A. Richardson var. **canescens** [M&H; Richardson 1977; W&S]  
*Coldenia canescens* A.P. de Candolle  
*Stegnocarpus canescens* (A.P. de Candolle) Torrey  
**gossypina** (Wooton & Standley) A. Richardson [M&H; Richardson 1977; W&S]  
*Coldenia gossypina* (Wooton & Standley) I.M. Johnston  
*Eddya gossypina* Wooton & Standley  
**greggii** (Torrey) A. Richardson [M&H; Richardson 1977; W&S]  
*Coldenia greggii* (Torrey) Gray

*Ptilocalyx greggii* Torrey

***hispidissima*** (Torrey) A. Richardson [M&H; Richardson 1977; W&S]

*Coldenia hispidissima* (Torrey) Gray

*Eddyia hispidissima* Torrey

latior (I.M. Johnston) A. Richardson : M&H surmised that this species was common in NM, but Richardson (1977) showed its distribution to the west and did not find it in the state; awaits verification.

**Family ELAEAGNACEAE** [2/3/3]

Cronquist, A. 1997. Elaeagnaceae, pp. 161-164. IN: Intermountain Flora, vol. 3, part A. New York Botanical Garden.

Graham, S.A. 1964. The Elaeagnaceae in the southeastern United States. J. Arnold Arbor. 45:274-278.

**Elaeagnus** oleaster

\****angustifolia*** Linnaeus [M&H; W&S]

Russian olive

*Hippophaë argentea* Pursh = *Shepherdia argentea* (Pursh) Nuttall

*canadensis* Linnaeus = *Shepherdia canadensis* (Linnaeus) Nuttall

*Lepargyrea argentea* (Pursh) Greene = *Shepherdia argentea* (Pursh) Nuttall

*canadensis* (Linnaeus) Greene = *Shepherdia canadensis* (Linnaeus) Nuttall

**Shepherdia** buffalo-berry

***argentea*** (Pursh) Nuttall [M&H; W&S]

*Lepargyrea argentea* (Pursh) Greene

*Hippophaë argentea* Pursh

***canadensis*** (Linnaeus) Nuttall [M&H; W&S]

*Lepargyrea canadensis* (Linnaeus) Greene

*Hippophaë canadensis* Linnaeus

**Family ELATINACEAE** [2/6/6]

Tucker, G.C. 1986. The genera of Elatinaceae in the southeastern United States. J. Arnold Arbor. 67:471-483.

**Bergia** bergia

***texana*** (Hooker) Seubert in Walpers [M&H]

*Elatine texana* (Hooker) Torrey & Gray

*Merimea texana* Hooker

**Elatine** waterwort

Fassett, N.C. 1939. Notes from the herbarium of the University of Wisconsin – XVII. *Elatine* and other aquatics. Rhodora 19: 10-15.

Heil, K.D. & S. O’Kane. 2009. Plant distribution reports [*Elatine chilensis*]. The New Mexico Botanist 48:7.

Razifard, H., G.C. Tucker, D.H. Les. 2016. *Elatine*, pp. 349-353. IN: Flora of North America, vol. 12. Oxford University Press.

Razifard, H., A.J. Rosman, G.C. Tucker, & D.H. Les. 2017. Systematics of the cosmopolitan aquatic genus *Elatine*. Syst. Bot. 42(1): 73-86.

*americana* (Pursh) Arnott : This species occurs to the east of NM; our material is referred to *Elatine rubella* Rydberg.

*americana* of NM works = *Elatine rubella* Rydberg

***brachysperma*** Gray [M&H]

*Elatine triandra* of NM reports, p.p.

*Elatine triandra* Schkuhr var. *brachysperma* (Gray) Fassett

***californica*** A. Gray [Razifard et al. 2016]

\****chilensis*** C. Gay [Heil & O’Kane 2009]

***heterandra*** H. Mason [Razifard et al. 2016]

***rubella*** Rydberg [M&H; W&S]

*Elatine americana* of NM reports

*Elatine triandra* of NM reports, p.p.

*triandra* of NM works = *Elatine rubella* Rydberg

*triandra* Schkuhr var. *brachysperma* (Gray) Fassett = *Elatine brachysperma* Gray

*Merimea texana* Hooker = *Bergia texana* (Hooker) Seubert ex Walpers

Family **EPILOBIACEAE** = ONAGRACEAE

**Family ERICACEAE** [10/19/19]

[Monotropaceae, Pyrolaceae, Vacciniaceae]

- Judd, W.S. & K.A. Kron. 1993. Circumscription of Ericaceae (Ericales) as determined by preliminary cladistic analyses based on morphological, anatomical, and embryological features. *Brittonia* 45:99-114.
- Haber, E. 1992. Monotropaceae. *J. Ariz.-Nev. Acad. Sci.* 26(1):15-16.
- Haber, E. 1992. Pyrolaceae. *J. Ariz.-Nev. Acad. Sci.* 26(1):22-28.
- Haber, E. & J.E. Cruise. 1974. Generic limits in the Pyroloideae (Ericaceae). *Canad. J. Bot.* 52:877-883.
- Kron, K.W. 1996. Phylogenetic relationships of Empetraceae, Epacridaceae, Ericaceae, Monotropaceae, and Pyrolaceae: Evidence from nuclear ribosomal 18s sequence data. *Ann. Bot.* 77:293-303.
- Kron, K.A., W.S. Judd, P.F. Stevens, D.M. Crayn, A.A. Anderberg, P.A. Gadek, C.J. Quinn, & J.L. Luteyn. 2002. Phylogenetic classification of Ericaceae: Molecular and morphological evidence. *Bot. Rev.* 68(3):335-423.
- Kron, K.A. & M.W. Chase. 1993. Systematics of the Ericaceae, Empetraceae, Epacridaceae and related taxa based upon *rbcl* sequence data. *Ann. Missouri Bot. Gard.* 80:735-741.

**Arbutus** madrone

- Hileman, L.C., M.C. Vasey, V.T. Parker. 2001. Phylogeny and Biogeography of the Arbutioideae (Ericaceae): Implications for the Madrean-Tethyan Hypothesis". *Systematic Botany* 26(1): 131-143.
- Sorensen, P.D. 2009. *Arbutus*, p. 398-400. IN: *Flora of North America*, vol. 8. Oxford University Press.
- arizonica** (Gray) Sargent [M&H; Sorensen 2009; W&S]  
*Arbutus xalapensis* Kunth var. *arizonica* Gray
- texana* Buckley = *Arbutus xalapensis* Kunth
- uva-ursi* Linnaeus = *Arctostaphylos uva-ursi* (Linnaeus) Sprengel
- xalapensis** Kunth [M&H; Sorensen 2009; W&S]  
*Arbutus texana* Buckley
- xalapensis* Kunth var. *arizonica* Gray = *Arbutus arizonica* (Gray) Sargent

**Arctostaphylos** manzanita

- Adams, J.E. 1940. A systematic study of the genus *Arctostaphylos* Adans. *Jour. Elisha Mitchell Soc.* 56:1-62.
- Heil, K. 2007. Plant distribution reports [*Arctostaphylos patula*]. *The New Mexico Botanist* 39:7.
- Parker, V.T., M.C. Vasey, & J.E. Keeley. 2009. *Arctostaphylos*, p. 406-445. IN: *Flora of North America*, vol. 8. Oxford University Press.
- patula** Greene [Heil 2007]
- pungens** Kunth [M&H; Parker et al. 2009; W&S]
- uva-ursi** (Linnaeus) Sprengel [M&H; Parker et al. 2009; W&S]
- bearberry

*Arbutus uva-ursi* Linnaeus  
*Daphnidostylis fendleriana* Klotzsch

**Chimaphila** pipsissewa

- Blake, S.F. 1917. The varieties of *Chimaphila umbellata*. *Rhodora* 19(227): 237-244.
- Freeman, C.C. 2009. *Chimaphila*, p. 385-387. IN: *Flora of North America*, vol. 8. Oxford University Press.
- Tedersoo, L., P. Pellet, U. Kõljalg, M.-A. Selosse. 2007. Parallel evolutionary paths to mycoheterotrophy in understory Ericaceae and Orchidaceae: ecological evidence for mixotrophy in Pyroleae. *Oecologia* 151(2): 206-217.
- acuta* Rydberg = *Chimaphila umbellata* (Linnaeus) Nuttall var. *acuta* (Rydberg) Blake
- dasystemma* Torrey = *Chimaphila maculata* (Linnaeus) Pursh var. *dasystemma* (Torrey) Kearney & Peebles
- maculata* (Linnaeus) Pursh var. *dasystemma* (Torrey) Kearney & Peebles : Reported as expected by M&H; awaits verification.
- Chimaphila dasystemma* Torrey
- umbellata** (Linnaeus) W.P.C. Barton var. **acuta** (Rydberg) Blake [Freeman 2009; M&H; W&S]
- Chimaphila acuta* Rydberg
- Chimaphila umbellata* (Linnaeus) W.P.C. Barton subsp. *acuta* (Rydberg) Hulten
- Pyrola umbellata* Linnaeus
- umbellata* (Linnaeus) Nuttall subsp. *acuta* (Rydberg) Hulten = *Chimaphila umbellata* (Linnaeus) Nuttall var. *acuta* (Rydberg) Blake

*Daphnidostylis fendleriana* Klotzsch = *Arctostaphylos ura-ursi* (Linnaeus) Sprengel

*Erxlebenia minor* (Linnaeus) Rydberg = *Pyrola minor* Linnaeus

**Gaultheria** wintergreen

- Trock, D.K. 2009. *Gaultheria*, p. 512-515. IN: *Flora of North America*, vol. 8. Oxford University Press.

**humifusa** (Graham) Rydberg [M&H]

*Vaccinium humifusum* Graham

*Hypopitys latisquama* Rydberg = *Monotropa hypopitys* Linnaeus

*monotropia* Crantz = *Monotropa hypopitys* Linnaeus

**Moneses** wintergreen

Freeman, C.C. 2009. *Moneses*, p. 384-385. IN: Flora of North America, vol. 8. Oxford University Press.

**uniflora** (Linnaeus) Gray [Freeman 2009; M&H; W&S]

*Pyrola uniflora* Linnaeus

**Monotropa** Indian-pipe

Haber, E. 1992. Monotropaceae. J. Ariz.-Nev. Acad. Sci. 26(1):15-16.

Wallace, G.D. 1975. Studies of the Monotropoideae (Ericaceae): Taxonomy and distribution. Wasmann J. Biol. 33:1-88.

Wallace, G.D. 2009. *Monotropa*, p. 392-393. IN: Flora of North America, vol. 8. Oxford University Press.

**hypopitys** Linnaeus [M&H; W&S; Wallace 1975]

*Hypopitys latisquama* Rydberg

*Hypopitys monotropa* Crantz

*Monotropa hypopitys* Linnaeus var. *latisquama* (Rydberg) Kearney & Peebles

*Monotropa latisquama* (Rydberg) Hultén

*hypopitys* Linnaeus var. *latisquama* (Rydberg) Kearney & Peebles = *Monotropa hypopitys* Linnaeus

*latisquama* (Rydberg) Hultén = *Monotropa hypopitys* Linnaeus

*uniflora* Linnaeus : Reported as expected by M&H; this seems unlikely in view of the distribution reported by Wallace (1975); awaits verification.

**Orthilia** sidebells

Freeman, C.C. 2009. *Orthilia*, p. 388-389. IN: Flora of North America, vol. 8. Oxford University Press.

Haber, E. 1992. Pyrolaceae. J. Ariz.-Nev. Acad. Sci. 26(1):22-28.

Haber, E. & J.E. Cruise. 1974. Generic limits in the Pyroloideae (Ericaceae). Canad. J. Bot. 52:877-883.

**secunda** (Linnaeus) House [Freeman 2009; M&H; W&S]

*Pyrola secunda* Linnaeus

*Ramischia secunda* (Linnaeus) Garcke

**Pterospora** pinedrops

Bakshi, B.S. 1959. Ecology and Morphology of *Pterospora andromedea*. Bot. Gaz. 120(4): 203-217.

Wallace, G.D. 2009. *Pterospora*, p. 389. IN: Flora of North America, vol. 8. Oxford University Press.

**andromedea** Nuttall [Freeman 2009; M&H; W&S]

**Pyrola** wintergreen

Freeman, C.C. 2009. *Pyrola*, p. 378-384. IN: Flora of North America, vol. 8. Oxford University Press.

Haber, E. 1987. Variability, distribution, and systematics of *Pyrola picta* s.l. (Ericaceae) in western North America. Syst. Bot. 12(2):324-335.

Hartman, R.L. 1973. New plant records for New Mexico. Southwestern Naturalist 18(2):241-242. [*Pyrola minor*]

*aphylla* Smith = *Pyrola picta* J.E. Smith

**asarifolia** Michaux subsp. **asarifolia** [Freeman 2009; M&H; W&S]

**chlorantha** Swartz [Freeman 2009; M&H; W&S]

*Pyrola virens* Schweigger

*dentata* Smith = *Pyrola picta* J.E. Smith

**elliptica** Nuttall [Freeman 2009; M&H; W&S]

**minor** Linnaeus [Freeman 2009; Hartman 1973; M&H]

*Erxlebenia minor* (Linnaeus) Rydberg

**picta** J.E. Smith [Freeman 2009; M&H; W&S]

*Pyrola aphylla* Smith

*Pyrola dentata* Smith

*secunda* Linnaeus = *Orthilia secunda* (Linnaeus) House

*umbellata* Linnaeus = *Chimaphila umbellata* (Linnaeus) W.P.C. Barton

*uniflora* Linnaeus = *Moneses uniflora* (Linnaeus) Gray

*virens* Schweigger = *Pyrola chlorantha* Swartz

*Ramischia secunda* (Linnaeus) Garcke = *Orthilia secunda* (Linnaeus) House

**Vaccinium** blueberry

Vander Kloet, S.P. 2009. *Vaccinium*, p. 515-530. IN: Flora of North America, vol. 8. Oxford University Press.

Vander Kloet, S.P. & T.A. Dickinson. 1999. The taxonomy of *Vaccinium* section *Myrtilus*. Brittonia 51(2):231-254.

- album* Linnaeus = *Symphoricarpos albus* (Linnaeus) S.F. Blake [Caprifoliaceae]  
***cespitosum*** Michaux [M&H; Vander Kloet 2009]  
*humifusum* Graham = *Gaultheria humifusa* (Graham) Rydberg  
***myrtilus*** Linnaeus [M&H; Vander Kloet 2009; W&S]  
     *Vaccinium myrtilus* Linnaeus subsp. *oreophilum* (Rydberg) Love, Love, & Kapoor  
     *Vaccinium myrtilus* Linnaeus var. *oreophilum* (Rydberg) Dorn  
     *Vaccinium oreophilum* Rydberg  
*myrtilus* Linnaeus subsp. *oreophilum* (Rydberg) Love, Love, & Kapoor = *Vaccinium myrtilus* Linnaeus  
*myrtilus* Linnaeus var. *oreophilum* (Rydberg) Dorn = *Vaccinium myrtilus* Linnaeus  
  
*oreophilum* Rydberg = *Vaccinium myrtilus* Linnaeus  
***scoparium*** Leiberg ex Coville [M&H; Vander Kloet 2009; W&S]

### Family EUPHORBIACEAE [8/73//75]

- Judd, W. S., C. S. Campbell, E. A. Kellogg, P. F. Stevens, & M. J. Donoghue. 2016. Euphorbiaceae, pp.353-356. IN: Plant Systematics, A Phylogenetic Approach, Sinauer Associates, Inc.  
 Levin, G.A. & L.J. Gillespie. 2016. Euphorbiaceae, pp. 157-324. IN: Flora of North America, vol. 12. Oxford University Press, New York.  
 Steinmann, V.W. & R.S. Felger. 1997. The Euphorbiaceae of Sonora, Mexico. *Aliso* 16:1-71.  
 Webster, G.L. 1994. Synopsis of the genera and suprageneric taxa of Euphorbiaceae. *Ann. Missouri Bot. Gard.* 81:33-144.
- Acalypha*** copperleaf  
*amblyodonta* Müller Argoviensis = *Tragia amblyodonta* (Müller Argoviensis) Pax & K. Hoffmann  
*lindheimeri* Müller Argoviensis = *Acalypha phleoides* Cavanilles  
***neomexicana*** Müller Argoviensis [M&H; W&S]  
*ostryifolia* Riddell : Reported by M&H, but no authentic specimens are known; awaits verification.  
***phleoides*** Cavanilles [M&H; W&S]  
     *Acalypha lindheimeri* Müller Argoviensis  
*Anisophyllum albomarginatum* (Torrey & Gray) Klotzsch & Garcke = *Euphorbia albomarginata* Torrey & Gray  
*Aphora humilis* Engelm. & Gray = *Argythamnia humilis* (Engelmann & Gray) Müller Argoviensis  
     *laevis* Gray ex Torrey = *Argythamnia humilis* (Engelmann & Gray) Müller Argoviensis  
     *mercurialina* Nuttall = *Argythamnia mercurialina* (Nuttall) Müller Argoviensis var. *mercurialina*
- Argythamnia*** leaf-flower  
 Turner, B.L. 2001. Biological status of *Argythamnia laevis* (Euphorbiaceae). *Sida* 19(3):621-622.  
 Ramirez-Amezcuca, Y. 2016. *Argythamnia*, pp.172-179. IN: Flora of North America, Vol.12. Oxford University Press, New York.  
 Webster, G.L. 1994. Synopsis of the genera and suprageneric taxa of Euphorbiaceae. *Ann. Missouri Bot. Gard.* 81:33-144.
- cyanophylla*** (Wootton & Standley) Ingram [M&H; W&S]  
     *Ditaxis cyanophylla* Wootton & Standley
- humilis*** (Engelmann & Gray) Müller Argoviensis [M&H; W&S]  
     *Aphora humilis* Engelmann & Gray  
     *Aphora laevis* Gray ex Torrey  
     *Argythamnia humilis* var. *laevis* (Gray ex Torrey) Shinnars  
     *Argythamnia laevis* (Gray ex Torrey) Müller Argoviensis  
     *Ditaxis humilis* (Engelmann & Gray) Pax  
     *Ditaxis laevis* (Gray ex Torrey) Heller  
     *laevis* (Torrey) Müller Argoviensis = *Argythamnia humilis* (Engelmann & Gray) Müller Argoviensis
- mercurialina*** (Engelmann & Gray) Müller Argoviensis var. ***mercurialina*** [M&H; W&S]  
     *Aphora mercurialina* Nuttall  
     *Aphora drummondii* Bentham  
     *Ditaxis mercurialina* (Nuttall) Coulter

*Serophyton drummondii* Bentham

**serrata** (Torrey) Müller Argoviensis [M&H; W&S]

*Aphora serrata* (Torrey)

*Argythamnia neomexicana* Müller Argoviensis

*Ditaxis neomexicana* (Müller Argoviensis) Heller

*Ditaxis serrata* (Torrey) Heller

**Bernardia** bernardia

Allred, K.W. 2002. *Bernardia* (Euphorbiaceae) in New Mexico. The New Mexico Botanist 24:5.

*myricifolia* (Scheele) Bentham & Hooker : Reported by M&H and W&S, but not known from NM; our material is referred to *Bernardia obovata* I.M. Johnston [Allred 2002].

*Tyria myricifolia* Scheele

*myricifolia* of NM authors, non (Scheele) Bentham & Hooker = *Bernardia obovata* I.M. Johnston

**obovata** I.M. Johnston [Allred 2002; M&H; W&S]

*Bernardia myricifolia* of NM authors, non (Scheele) Bentham & Hooker

*Chamaesyce abramsiana* (L.C. Wheeler) Koutnik = *Euphorbia abramsiana* L.C. Wheeler

*acuta* (Engelmann) Millspaugh = *Euphorbia acuta* Engelmann

*albomarginata* (Torrey & Gray) Small = *Euphorbia albomarginata* Torrey & A. Gray

*arizonica* (Engelmann) Arthur = *Euphorbia arizonica* Engelmann

*brasiliensis* (Lamarck) Small = *Euphorbia hyssopifolia* Linnaeus

*capitellata* (Engelmann) Millspaugh = *Euphorbia capitellata* Engelmann

*carunculata* (Waterfall) Shinnars = *Euphorbia carunculata* Waterfall

*chaetocalyx* (Boissier) Wooton & Standley = *Euphorbia chaetocalyx* (Boissier) Tidestrom  
var. *chaetocalyx*

*dioica* (Kunth) Millspaugh : Used for NM plants, but this name applies to tropical populations; our material is referred to *Euphorbia indivisa* (Engelmann) Tidestrom

*fendleri* (Torrey & Gray) Small var. *chaetocalyx* (Boissier) Shinnars = *Euphorbia chaetocalyx* (Boissier) Tidestrom var. *chaetocalyx*

*fendleri* Torrey & Gray var. *chaetocalyx* Boissier = *Euphorbia chaetocalyx* (Boissier) Tidestrom var. *chaetocalyx*

*fendleri* (Torrey & Gray) Small var. *fendleri* = *Euphorbia fendleri* Torrey & Gray

*flagelliformis* (Engelmann) Rydberg = *Euphorbia parryi* Engelmann

*geyeri* (Engelmann) Small = *Euphorbia geyeri* Engelmann & Gray

*glyptosperma* (Engelmann) Small = *Euphorbia glyptosperma* Engelmann

*golondrina* (L.C. Wheeler) Shinnars = *Euphorbia golondrina* L.C. Wheeler

*hirta* (Linnaeus) Millspaugh = *Euphorbia hirta* Linnaeus

*hypericifolia* (Linnaeus) Millspaugh = *Euphorbia hypericifolia* Linnaeus

*hyssopifolia* (Linnaeus) Small = *Euphorbia hyssopifolia* Linnaeus

*indivisa* (Engelmann) Millspaugh = *Euphorbia indivisa* (Engelmann) Tidestrom

*lata* (Engelmann) Small = *Euphorbia lata* Engelmann

*maculata* (Linnaeus) Small = *Euphorbia maculata* Linnaeus

*micromera* (Boissier ex Engelmann) Wooton & Standley = *Euphorbia micromera* Boissier

*missurica* (Rafinesque) Shinnars = *Euphorbia missurica* Rafinesque

*neomexicana* (Greene) Standley = *Euphorbia serpillifolia* Persoon

*nutans* (Lagasca) Small = *Euphorbia nutans* Lagasca

*parryi* (Engelmann) Rydberg = *Euphorbia parryi* Engelmann

*petaloidea* (Engelmann) Small = *Euphorbia missurica* Rafinesque

*prostrata* (Aiton) Small = *Euphorbia prostrata* Aiton

*revoluta* (Engelmann) Small = *Euphorbia revoluta* Engelmann

*rugulosa* (Engelmann) Rydberg = *Euphorbia serpillifolia* Persoon

*serpens* (Kunth) Small = *Euphorbia serpens* Kunth

*serpillifolia* (Persoon) Small = *Euphorbia serpillifolia* Persoon

*serrula* (Engelmann) Wooton & Standley = *Euphorbia serrula* Engelmann

*setiloba* (Engelmann) Millspaugh = *Euphorbia setiloba* Engelmann

*stictospora* (Engelmann) Small = *Euphorbia stictospora* Engelmann



*theriaca* (L.C. Wheeler) Shinnery var. *spurca* (M.C. Johnston) M.H. Mayfield = *Euphorbia theriaca* L.C. Wheeler var. *spurca* M.C. Johnston  
*vermiculata* (Rafinesque) House = *Euphorbia vermiculata* Rafinesque  
*villifera* (Scheele) Small = *Euphorbia villifera* Scheele

### **Croton** croton

Alexander, P. 2006. Plant distribution reports. The New Mexico Botanist 36:7. [*Croton monanthogynus*]  
 Turner, B.L. 2012. Taxonomy of the *Croton texensis* complex (Euphorbiaceae). Phytologia 94(1): 35-39.  
 Van Ee, B., P.E. Berry, & S. Ginzburg. 2009. An assessment of the varieties of *Croton glandulosus* (Euphorbiaceae) in the United States. Harvard Papers in Botany 14(1):45-59.  
 Webster, G.L. 1992. Realignment in American *Croton* (Euphorbiaceae). Novon 2: 269-273.  
 Webster, G.L. 1993. A provisional synopsis of the sections of the genus *Croton* (Euphorbiaceae). Taxon 42:793-823.  
 Webster, G.L., M.J. Del-Arco-Aguilar, & B.A. Smith. 1996. Systematic distribution of foliar trichome type in *Croton* (Euphorbiaceae). Bot. J. Linnean Soc. 121:41-57.  
*corymbulosus* Engelm = *Croton pottsii* (Klotzsch) Müller Argoviensis  
***dioicus*** Cavanilles [M&H; W&S]  
*Croton neomexicanus* Müller Argoviensis  
*eremophilus* Wootton & Standley = *Croton pottsii* (Klotzsch) Müller Argoviensis  
***fruticosus*** Engelm ex Torrey [M&H; W&S]  
***glandulosus*** Linnaeus var. ***lindheimeri*** Müller Argoviensis [M&H] Note: Van Ee et al. (2009) report this variety from farther east in Mexico, Texas, and Kansas; our plants may warrant verification.  
***lindheimerianus*** Scheele [M&H]  
*Croton lindheimerianus* Scheele var. *tharpitii* M.C. Johnston  
*lindheimerianus* Scheele var. *tharpitii* M.C. Johnston = *Croton lindheimerianus* Scheele  
*luteovirens* Wootton & Standley = *Croton texensis* (Klotzsch) Müller Argoviensis  
***monanthogynus*** Michaux [Alexander 2006]  
*neomexicanus* Müller Argoviensis = *Croton dioicus* Cavanilles  
***pottsii*** (Klotzsch) Müller Argoviensis [M&H; W&S]  
*Croton corymbulosus* Engelm  
*Croton eremophilus* Wootton & Standley  
*Lasiogyne pottsii* Klotzsch  
 tenuis S. Watson : Reported by W&S, but not occurring in NM [M&H].  
***texensis*** (Klotzsch) Müller Argoviensis var. ***texensis*** [M&H; W&S]  
*Hendecandra texensis* Klotzsch  
***texensis*** (Klotzsch) Müller Argoviensis var. ***utahensis*** Cronquist [Turner 2012]  
*Croton luteovirens* Wootton & Standley  
*Croton virens* Müller Argoviensis

*Dichrophyllum marginatum* (Pursh) Klotzsch & Garcke = *Euphorbia marginata* Pursh

### *Ditaxis*

*cyanophylla* Wootton & Standley = *Argythamia cyanophylla* (Wootton & Standley) Ingram  
*humilis* (Engelm & Gray) Pax = *Argythamia humilis* (Engelm & Gray) Müller Argoviensis  
*laevis* (Gray ex Torrey) Heller = *Argythamia humilis* (Engelm & Gray) Müller Argoviensis  
*mercurialina* (Nuttall) Coulter = *Argythamia mercurialina* (Nuttall) Müller Argoviensis var. *mercurialina*  
*neomexicana* (Müller Argoviensis) Heller = *Argythamia serrata* (Torrey) Müller Argoviensis

### **Euphorbia** spurge

Allred, K.W. & J. Travis Columbus. 1989. Additions to the flora of New Mexico. Phytologia 67(5):361-365. [*Chamaesyce abramsiana*]  
 Allred, K.W. 1996. New plant distribution records The New Mexico Botanist 4:6. [*Euphorbia pepus*]  
 Allred, K.W. 1999. New plant distribution records. The New Mexico Botanist 13:7. [*Euphorbia odontadenia*]  
 Allred, K.W. 2001. New plant distribution records. The New Mexico Botanist 19:3. [*Euphorbia cyathophora*]  
 Allred, K.W. 2002. Plant distribution reports [*Chamaesyce hirta*]. The New Mexico Botanist 24:7.  
 Berry, P.E., R. Riina, J.A. Peirson, Y. Yang, V.W. Steinmann, D.V. Geltman, J.J. Morawetz & N.I. Cacho. 2016. *Euphorbia*, pp. 237-324. IN: Flora of North America, vol. 12. Oxford University Press, New York.  
 Cox, G.W. 2001. New plant distribution records. The New Mexico Botanist 20:8. [*Euphorbia myrsinites*]

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- abramsiana** L.C. Wheeler [Allred & Columbus 1989, Jercinovic 2007]  
*Chamaesyce abramsiana* L.C. Wheeler
- acuta** Engelm. [Jercinovic 2007; M&H]  
*Chamaesyce acuta* (Engelm.) Millspaugh  
*Euphorbia georgei* Oudejans
- albomarginata** Torrey & Gray [Jercinovic 2007; M&H; W&S]  
*Anisophyllum albomarginatum* (Torrey & Gray) Klotzsch & Garcke  
*Chamaesyce albomarginata* (Torrey & Gray) Small
- alta** Norton [M&H; W&S]  
*Tithymalus altus* (Norton) Wootton & Standley
- antisiphilitica** Zuccarini [Hershey & Leyendecker 1944; M&H]  
candelilla
- arizonica** Engelm. [Jercinovic 2007; M&H]  
*Chamaesyce arizonica* (Engelm.) Arthur  
*Euphorbia versicolor* Greene
- arkansana** Engelm. & Gray = *Euphorbia spatulata* Lamarck
- arkansana** Engelm. & Gray var. *atrosemina* Norton = *Euphorbia spatulata* Lamarck
- bicolor** Engelm. & Gray : Reported questionably by Kartesz (1999) without documentation; awaits verification.
- bifurcata** Engelm. [M&H; Oudejans 1989; W&S]  
*Euphorbia delicatula* auctores non Boissier & Millspaugh  
*Euphorbia wootonii* Oudejans  
*Zygophyllum delicatulum* Wootton & Standley
- bilobata** Engelm. [M&H; W&S]  
*Zygophyllum bilobatum* (Engelm.) Standley

- brachycera** Engelmann [M&H; W&S]  
*Euphorbia montana* Engelmann  
*Euphorbia montana* Engelmann var. *robusta* Engelmann  
*Euphorbia odontadenia* Boissier  
*Euphorbia philora* (Cockerell) Tidestrom  
*Euphorbia robusta* (Engelmann) Small ex Britton  
*Tithymalus brachycerus* (Engelmann) Small  
*Tithymalus mexicanus* (Engelmann) Wooton & Standley  
*Tithymalus montanus* (Engelmann) Small  
*Tithymalus robustus* (Engelmann) Small
- capitellata** Engelmann [Jercinovic 2007; M&H]  
*Chamaesyce capitellata* (Engelmann) Millspaugh
- carunculata** Waterfall [Sivinski et al.1994]  
*Chamaesyce carunculata* (Waterfall) Shinnners
- chaetocalyx** (Boissier) Tidestrom var. **chaetocalyx** [Jercinovic 2007; M&H; W&S]  
*Chamaesyce fendleri* (Torrey & Gray) Small var. *chaetocalyx*
- chamaesula** Boissier [M&H; W&S]  
*Tithymalus chamaesula* (Boissier) Wooton & Standley
- crenulata** Engelmann [Tidestrom & Kittell 1941]
- cuphosperma** (Engelmann) Boissier [M&H; W&S]  
*Euphorbia dentata* Michaux var. *cuphosperma* Engelmann  
*Euphorbia dentata* Michaux forma *cuphosperma* (Engelmann) Fernald  
*Poinsettia cuphosperma* (Engelmann) Small
- cyathophora** Murray [Allred 2001]
- davidii** Subils [M&H; W&S]  
*Euphorbia dentata* of numerous authors  
*delicatula* (Wooton & Standley) Boissier = *Euphorbia bifurcata* Engelmann  
*dentata* Michaux : Although *E. davidii* seems to be the predominant species of the  
*dentata/davidii* complex in NM, Cronquist et al. (1997) suggest that *E.*  
*dentata* Michaux could be found in NM as well; awaits verification.  
*Poinsettia dentata* (Michaux) Klotzsch & Garcke  
*dentata* Michaux forma *cuphosperma* (Engelmann) Fernald = *Euphorbia cuphosperma*  
(Engelmann) Boissier  
*dentata* Michaux var. *cuphosperma* Engelmann = *Euphorbia cuphosperma* (Engelmann)  
Boissier  
*dictyosperma* Fischer & Meyer = *Euphorbia spathulata* Linnaeus  
*dictyosperma* Fischer & Meyer var. *mexicana* Engelmann = *Euphorbia spathulata* Linnaeus  
*dilatata* Torrey & Gray, not Hochstetter ex A. Richard = *Euphorbia lata* Engelmann  
*dioica* Kunth = *Euphorbia indivisa* (Engelmann) Tidestrom  
*dioica* Kunth var. *indivisa* Engelmann = *Euphorbia indivisa* (Engelmann) Tidestrom
- eriantha** Benthham [Spellenberg et al. 1986]  
*Poinsettia eriantha* (Benthham) Rose & Standley  
*esula* Linnaeus of NM reports = *Euphorbia virgata* Waldstein & Kitaibel  
*esula* Linnaeus subsp. *xpseudovirgata* (Schur) Govaerts = *Euphorbia virgata* Waldstein &  
Kitaibel  
*esula* Linnaeus var. *uralensis* (Fischer ex Link) Dorn = *Euphorbia virgata* Waldstein &  
Kitaibel
- exstipulata** Engelmann [M&H; W&S]  
*Zygophyllum exstipulatum* (Engelmann) Wooton & Standley
- fendleri** Torrey & Gray [Jercinovic 2007; M&H; W&S]  
*Chamaesyce fendleri* (Torrey & Gray) Small var. *fendleri*  
*flagelliformis* (Engelmann) Rydberg = *Euphorbia parryi* Engelmann  
*georgei* Oudejans = *Euphorbia acuta* Engelmann
- geyeri** Engelmann var. **geyeri** [Jercinovic 2007; M&H; W&S]  
*Chamaesyce geyeri* (Engelmann) Small
- geyeri** Engelmann var. **wheeleriana** Warnock & M.C. Johnston  
*Chamaesyce geyeri* (Engelmann) Small var. *wheeleriana* (Warnock & M.C.  
Johnston) Mayfield
- glyptosperma** Engelmann [Jercinovic 2007; M&H; W&S]

- Chamaesyce glyptosperma* (Engelmann) Small  
**golondrina** L.C. Wheeler [FNM I]  
*Chamaesyce golondrina* (L.C. Wheeler) Shinners  
**\*graminea** Jacquin [FNM I]  
**heterophylla** Linnaeus [M&H; W&S]  
*Poinsettia havanensis* (Willdenow) Small  
*Poinsettia heterophylla* (Linnaeus) Klotzsch & Garcke  
**hexagona** Nuttall ex Sprengel [M&H]  
*Zygophyllidium hexagonum* (Nuttall ex Sprengel) Small  
**hirta** Linnaeus [Allred 2002; Jercinovic 2007]  
*Chamaesyce hirta* (Linnaeus) Millspaugh  
**hypericifolia** Linnaeus [FNM I]  
*Chamaesyce hypericifolia* (Linnaeus) Millspaugh  
**hyssopifolia** Linnaeus [Jercinovic 2007; M&H]  
*Chamaesyce braciensis* (Lamarck) Small  
*Chamaesyce hyssopifolia* (Linnaeus) Small  
**indivisa** (Engelmann) Tidestrom [Jercinovic 2007; M&H; W&S]  
*Chamaesyce indivisa* (Engelmann) Millspaugh  
*Euphorbia dioeca* Kunth var. *indivisa* Engelmann  
**lata** Engelmann [Jercinovic 2007; M&H; W&S]  
*Chamaesyce lata* (Engelmann) Small  
*Euphorbia dilatata* Torrey & Gray, not Hochstetter ex Richard  
*Euphorbia rinconis* M.E. Jones  
**lathyris** Linnaeus [Jercinovic 2005]  
**lurida** Engelmann [M&H; W&S]  
*Euphorbia palmeri* Engelmann ex S. Watson  
*Euphorbia palmeri* var. *subpubens* (Engelmann ex S. Watson) L.C. Wheeler  
*Tithymalus luridus* (Engelmann) Wootton & Standley  
**maculata** Linnaeus [Jercinovic 2007; M&H]  
*Chamaesyce maculata* (Linnaeus) Small  
*Euphorbia supina* Rafinesque  
**marginata** Pursh [M&H; W&S]  
 snow-on-the-mountain  
*Dichrophyllum marginatum* (Pursh) Klotzsch & Garcke  
*Lepadenia marginata* (Pursh) Nieuwland  
*mexicana* (Engelmann) Norton = *Euphorbia spathulata* Linnaeus  
**micromera** Boissier [Jercinovic 2007; M&H]  
*Chamaesyce micromera* (Boissier) Wootton & Standley  
**missurica** Rafinesque [Jercinovic 2007; M&H; W&S]  
*Chamaesyce missurica* (Rafinesque) Shinners  
*Chamaesyce petaloidea* (Engelmann) Small  
*Euphorbia missurica* Rafinesque var. *intermedia* (Engelmann) L.C. Wheeler  
*Euphorbia petaloidea* Engelmann  
**montana** Engelmann = *Euphorbia brachycera* Engelmann  
**montana** Engelmann var. *robusta* Engelmann = *Euphorbia brachycera* Engelmann  
**\*myrsinites** Linnaeus [Cox 2001]  
*multicaulis* Engelmann = *Euphorbia spathulata* Linnaeus  
*neomexicana* Greene = *Euphorbia serpillifolia* Persoon  
**nutans** Lagasca [Jercinovic 2007; W&S]  
*Chamaesyce nutans* (Lagasca) Small  
*Euphorbia preslii* Gussone  
*odontadenia* Boissier = *Euphorbia brachycera* Engelmann  
*palmeri* Engelmann ex S. Watson = *Euphorbia lurida* Engelmann  
**parryi** Engelmann [Jercinovic 2007; M&H; W&S]  
*Chamaesyce flagelliformis* (Engelmann) Rydberg  
*Chamaesyce parryi* (Engelmann) Rydberg  
**\*peplus** Linnaeus [Allred 1996]  
*Tithymalus peplus* (Linnaeus) Gaertner

- petaloidea* Engelm. = *Euphorbia missurica* Rafinesque  
*philora* (Cockerell) Tidestrom = *Euphorbia brachycera* Engelm.  
*preslii* Gussone = *Euphorbia nutans* Lagasca  
***prostrata*** Aiton [Jercinovic 2007; M&H]  
*Chamaesyce prostrata* (Aiton) Small  
 ×*pseudovirgata* (Schur) Soó = *Euphorbia virgata* Waldstein & Kitaibel  
*radians* Bentham : Reported without documentation by Kartesz (1999); awaits verification.  
***rayturneri*** V.W Steinmann & E. Jercinovic [Steinmann & Jercinovic 2013]  
***revoluta*** Engelm. [Jercinovic 2007; M&H; W&S]  
*Chamaesyce revoluta* (Engelm.) Small  
*rinconis* M. E. Jones = *Euphorbia lata* Engelm.  
*robusta* (Engelm.) Small ex Britton = *Euphorbia brachycera* Engelm.  
*rugulosa* (Engelm. ex Millspaugh) Greene = *Euphorbia serpillifolia* Persoon  
***serpens*** Kunth [Jercinovic 2007; M&H; W&S]  
*Chamaesyce serpens* (Kunth) Small  
***serpillifolia*** Persoon [Jercinovic 2007; M&H; W&S]  
*Chamaesyce neomexicana* (Greene) Standley  
*Chamaesyce rugulosa* (Engelm.) Rydberg  
*Chamaesyce serpillifolia* (Persoon) Small  
*Euphorbia neomexicana* Greene  
*Euphorbia serpillifolia* Persoon var. *rugulosa* Engelm.  
*serpillifolia* Persoon var. *rugulosa* Engelm. = *Euphorbia serpillifolia* Persoon  
***serrula*** Engelm. [Jercinovic 2007; M&H; W&S]  
*Chamaesyce serrula* (Engelm.) Wooton & Standley  
***setiloba*** Engelm. [Jercinovic 2007; M&H; W&S]  
*Chamaesyce setiloba* (Engelm.) Millspaugh  
***spathulata*** Lamarck [M&H; W&S]  
*Euphorbia arkansana* Engelm. & Gray  
*Euphorbia arkansana* Engelm. & Gray var. *atrosemina* Norton  
*Euphorbia dictyosperma* Fischer & Meyer  
*Euphorbia dictyosperma* Fischer & Meyer var. *mexicana* Engelm.  
*Euphorbia mexicana* (Engelm.) Norton  
*Euphorbia multicaulis* Engelm.  
*Tithymalus missouriensis* (Norton) Small  
***stictospora*** Engelm. [Jercinovic 2007; M&H; W&S]  
*Chamaesyce stictospora* (Engelm.) Small  
***strictior*** Holzinger [M&H; W&S]  
*Tithymalopsis strictior* (Holzinger) Wooton & Standley  
*supina* Rafinesque = *Euphorbia maculata* Linnaeus  
***theriaca*** L.C. Wheeler var. ***spurca*** M.C. Johnston [Jercinovic 2007; Worthinton 2007]  
*Chamaesyce spurca* (M.C. Johnston) B.L. Turner  
*Chamaesyce theriaca* (L.C. Wheeler) Shinnars var. *spurca* (M.C. Johnston)  
 Mayfield  
*uralensis* Fischer ex Link = *Euphorbia virgata* Waldstein & Kitaibel  
***vermiculata*** Rafinesque [Jercinovic 2007; M&H]  
*Chamaesyce vermiculata* (Rafinesque) House  
*versicolor* Greene = *Euphorbia arizonica* Engelm.  
*villifera* Scheele : Reported by M&H, but no validating specimens have been located  
**\**virgata*** Waldstein & Kitaibel [Hartman 1973; Krotchmal 1952; M&H]  
*Euphorbia esula* Linnaeus subsp. ×*pseudovirgata* (Schur) Govaerts  
*Euphorbia esula* Linnaeus var. *uralensis* (Fischer ex Link) Dom  
*Euphorbia* ×*pseudovirgata* (Schur) Soó  
*Euphorbia uralensis* Fischer ex Link  
*Tithymalus esula* (Linnaeus) Scopoli  
*wootonii* Oudejans = *Euphorbia bifurcata* Engelm.  
*Hendecandra texensis* Klotzsch = *Croton texensis* (Klotzsch) Müller Argoviensis  
***Jatropha*** *jatropha*  
 Johnson, M.B. 1998. *Jatropha* (Euphorbiaceae) in southwestern United States and adjacent northern Mexico. Desert Plants 14(2):21-28.

**macrorhiza** Bentham [M&H; W&S]

*Lasiogyne pottsii* Klotzsch = *Croton pottsii* (Klotzsch) Müller Argoviensis

*Lepadenia marginata* (Pursh) Nieuwland = *Euphorbia marginata* Pursh

*Phyllanthus*...go to PHYLLANTHACEAE

*Poinsettia cuphosperma* (Engelmann) Small = *Euphorbia cuphosperma* (Engelmann) Boissier

*dentata* auctores = *Euphorbia davidii* Subils

*eriantha* (Bentham) Rose & Standley = *Euphorbia eriantha* Bentham

*havanensis* (Willdenow) Small = *Euphorbia heterophylla* Linnaeus

*heterophylla* (Linnaeus) Klotzsch & Garcke = *Euphorbia heterophylla* Linnaeus

*Reverchonia*...go to PHYLLANTHACEAE

*Sapium sylvaticum* var. *linearifolium* Torrey = *Stillingia texana* I.M. Johnston

**Stillingia** tooth-leaf

*linearifolia* (Torrey) Small = *Stillingia texana* I.M. Johnston

*salicifolia* (Torrey) Small = *Stillingia sylvatica* Garden ex Linnaeus var. *salicifolia* Torrey

*smallii* Wooton & Standley = *Stillingia sylvatica* Linnaeus var. *salicifolia* Torrey

*sylvatica* Linnaeus var. *linearifolia* (Torrey) Müller Argoviensis = *Stillingia texana* I.M. Johnston

**sylvatica** Garden ex Linnaeus var. **salicifolia** Torrey [M&H; W&S]

*Stillingia salicifolia* (Torrey) Small

*Stillingia smallii* Wooton & Standley

texana I.M. Johnston : Reported by M&H and W&S, but no authentic specimens are known from the state; it is known from central Texas and Oklahoma.

*Sapium sylvaticum* var. *linearifolium* Torrey

*Stillingia linearifolia* (Torrey) Small

*Stillingia sylvatica* Linnaeus var. *linearifolia* (Torrey) Müller Argoviensis

*Tithymalopsis strictior* (Holzinger) Wooton & Standley = *Euphorbia strictior* Holzinger

*Tithymalus altus* (Norton) Wooton & Standley = *Euphorbia alta* Norton

*chamaesula* (Boissier) Wooton & Standley = *Euphorbia chamaesula* Boissier

*esula* (Linnaeus) Scopoli = *Euphorbia virgata* Waldstein & Kitaibel

*luridus* (Engelmann) Wooton & Standley = *Euphorbia lurida* Engelmann

*mexicanus* (Engelmann) Wooton & Standley = *Euphorbia spathulata* Lamarck

*missouriensis* (Norton) Small = *Euphorbia spathulata* Lamarck

*montanus* (Engelmann) Small = *Euphorbia brachycera* Engelmann

*peplus* (Linnaeus) Gaertner = *Euphorbia peplus* Linnaeus

*robustus* (Engelmann) Small = *Euphorbia brachycera* Engelmann

**Tragia** noseburn

Miller, K.I. & G.L. Webster. 1967. A preliminary revision of *Tragia* (Euphorbiaceae) in the United States. *Rhodora* 69:241-305.

**amblyodonta** (Müller Argoviensis) Pax & K. Hoffmann [M&H; Miller & Webster 1967]

*Acalypha amblyodonta* Müller Argoviensis

**nepetifolia** Cavanilles [M&H; W&S]

*nepetifolia* Cavanilles var. *ramosa* (Torrey) Müller Argoviensis = *Tragia ramosa* Torrey

**ramosa** Torrey [M&H; Miller & Webster 1967; W&S]

*Tragia nepetifolia* Cavanilles var. *ramosa* (Torrey) Müller Argoviensis

*Tragia stylaris* Müller Argoviensis

*stylaris* Müller Argoviensis = *Tragia ramosa* Torrey

*Tyria myricifolia* Scheele = *Bernardia myricifolia* (Scheele) Bentham & Hooker

*Zygophyllidium exstipulatum* (Engelmann) Wooton & Standley = *Euphorbia exstipulata* Engelmann

*bilobatum* (Engelmann) Standley = *Euphorbia bilobata* Engelmann

*delicatum* Wooton & Standley = *Euphorbia bifurcata* Engelmann

*hexagonum* (Nuttall ex Sprengel) Small = *Euphorbia hexagona* Nuttall ex Sprengel

**Family FABACEAE (LEGUMINOSAE)** [61/274/327]

[Caesalpiniaaceae, Cassiaceae, Mimosaceae]

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### Acacia

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- Seigler, D.S., J.E. Ebinger and J.T. Miller. 2006. The genus *Senegalia* (Fabaceae: Mimosoideae) from the New World. *Phytologia* 88:38-93.
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- angustissima* (Miller) Kuntze var. *chisosiana* Isely = *Acaciella angustissima* (Miller) Britton & Rose var. *texensis* (Torrey & Gray) L. Rico
- angustissima* (Miller) Kuntze var. *hirta* (Nuttall) B.L. Robinson = *Acaciella angustissima* (Miller) Britton & Rose var. *angustissima*
- angustissima* (Miller) Kuntze var. *suffrutescens* (Rose) Isely = *Acaciella angustissima* (Miller) Britton & Rose var. *angustissima*
- angustissima* (Miller) Kuntze var. *texensis* (Torrey & Gray) Isely = *Acaciella angustissima* (Miller) Britton & Rose var. *texensis* (Torrey & Gray) L. Rico
- constricta* Benthham var. *constricta* = *Vachellia constricta* (Benthham) Seigler & Ebinger
- constricta* Benthham var. *vernica* (Standley) L. Benson = *Vachellia vernica* (Britton & Rose) Seigler & Ebinger
- constricta* Benthham var. *paucispina* Wootton & Standley = *Vachellia constricta* (Benthham) Seigler & Ebinger
- cooleyi* Eaton = *Desmanthus cooleyi* (Eaton) Branner & Coville
- cuspidata* Schlechtendal = *Acaciella angustissima* (Miller) Britton & Rose var. *texensis* (Torrey & Gray) L. Rico
- farnesiana* (Linnaeus) Willdenow : Reported for NM by Kartesz (1999) based on an erroneous specimen at NMCR.
- filicoides* (Cavanilles) Trelease : Reported by W&S, but not occurring in NM [Isely 1969].
- greggii* Gray var. *arizonica* Isely = *Senegalia greggii* (Gray) Britton & Rose
- greggii* Gray var. *greggii* = *Senegalia greggii* (Gray) Britton & Rose
- hirta* Nuttall = *Acaciella angustissima* (Miller) Britton & Rose var. *angustissima*
- millefolia* S. Watson = *Mariosousa millefolia* (S. Watson) Seigler & Ebinger
- neovernicosa* Isely = *Vachellia vernica* (Britton & Rose) Seigler & Ebinger
- roemeriana* Scheele = *Senegalia roemeriana* (Scheele) Britton & Rose
- suffrutescens* Rose = *Acaciella angustissima* (Miller) Britton & Rose var. *angustissima*
- texensis* (Torrey & Gray) = *Acaciella angustissima* (Miller) Britton & Rose var. *texensis* (Torrey & Gray) L. Rico
- vernica* Standley, not Fitzgerald = *Vachellia vernica* (Britton & Rose) Seigler & Ebinger

### Acaciella

acacia

- Heil, K.D. 2004. Plant distribution reports. *The New Mexico Botanist* 30:7. [*Acacia angustissima hirta*]

- Rico-Arce, M. de L. & S. Bachman. 2006. A taxonomic revision of *Acaciella* (Leguminosae, Mimosoideae). *Anales del Jardín Botánico de Madrid* 63(2):189-244.
- Spellenberg, R., R. Worthington, P. Knight, & R. Fletcher. 1986. Additions to the flora of New Mexico. *Sida* 11(4):455-470. [*Acacia angustissima suffrutescens*]
- Turner, B.L. 1996. Synoptical study of the *Acacia angustissima* (Mimosaceae) complex. *Phytologia* 81(1):10-16.

***angustissima*** (Miller) Britton & Rose var. ***angustissima*** [Heil 2004; Spellenberg et al. 1986]

*Acacia angustissima* (Miller) Kuntze var. *hirta* (Nuttall) B.L. Robinson  
*Acacia angustissima* (Miller) Kuntze var. *suffrutescens* (Rose) Isely  
*Acacia hirta* Nuttall

***angustissima*** (Miller) Britton & Rose var. ***texensis*** (Torrey & Gray) L. Rico [M&H; Turner 1996; W&S]

*Acacia angustissima* (Miller) Kuntze var. *chisosiana* Isely  
*Acacia angustissima* (Miller) Kuntze var. *texensis* (Torrey & Gray) Isely  
*Acacia cuspidata* Schlechtendal  
*Acacia texensis* Torrey & Gray

*Acaciopsis vernicosa* Britton & Rose = *Vachellia vernicosa* (Britton & Rose) Seigler & Ebinger

***Acmispon*** deer-vetch

- Barneby, R.C. 1989. *Lotus*, pp. 190-198. IN: Intermountain Flora, vol. 3. New York Botanical Garden.
- Brouillet, L. 2008. The taxonomy of North American Loti (Fabaceae: Loteae): New names in *Acmispon* and *Hosackia*. *J. Bot. Res. Inst. Texas* 2(1):387-394.
- Isely, D. 1981. Leguminosae of the United States: III. Subfamily Papilionoideae: Tribes Sophoreae, Podalyrieae, Loteae. *Mem. N.Y. Bot. Gard.* 25(3):1-264.
- Ottley, A.M. 1944. The American Loti with special consideration of a proposed new section, *Simpeteria*. *Brittonia* 5:81-123.

***americanus*** (Nuttall) Rydberg [M&H; W&S]

*Hosackia purshiana* Benth nom. illeg.  
*Hosackia unifoliolata* Hooker  
*Lotus americanus* (Nuttall) Bischoff (not Vellozo)  
*Lotus purshianus* (Benth) Clements & Clements

***brachycarpus*** (Benth) D.D. Sokoloff [M&H; W&S]

*Anisolotus brachycarpus* (Benth) Rydberg  
*Anisolotus trispermus* (Greene) Wooton & Standley  
*Hosackia brachycarpa* Benth (not *Lotus brachycarpus* Hochstetter & Steudel ex A. Richard)  
*Lotus humistratus* Greene  
*Lotus trispermus* Greene

*greenei* (Wooton & Standley) L. Brouillet = *Acmispon neomexicanus* (Greene) L. Brouillet

***neomexicanus*** (Greene) L. Brouillet [M&H; W&S]

*Acmispon greenei* (Wooton & Standley) L. Brouillet  
*Anisolotus mollis* (Greene) Heller  
*Lotus greenei* Wooton & Standley  
*Lotus neomexicanus* Greene

***plebeius*** (Brandegee) Allred [Isely 1981; M&H; W&S]

*Acmispon plebeius* (Brandegee) L. Brouillet, *nom. superfl.*  
*Anisolotus neomexicanus* (Greene) Heller  
*Anisolotus nummularius* (M.E. Jones) Wooton & Standley  
*Anisolotus puberulus* (Benth) Wooton & Standley  
*Hosackia plebeia* Brandegee  
*Hosackia rigida* Benth var. *nummularia* M.E. Jones  
*Lotus oroboides* of New Mexico authors  
*Lotus oroboides* (Kunth) Ottley var. *nanus* (A. Gray) Isely  
*Lotus oroboides* (Kunth) Ottley var. *nummularius* (Jones) Isely  
*Lotus oroboides* (Kunth) Ottley var. *plebeius* (Brandegee) Ottley  
*Lotus ×nummularius* (M.E. Jones) Tidestrom  
*Lotus puberulus* (Benth) Greene

*plebeius* (Brandegee) L. Brouillet = *Acmispon plebeius* (Brandegee) Allred

***wrightii*** (A. Gray) Brouillet [M&H; W&S]

*Anisolotus rigidus* of NM reports  
*Anisolotus wrightii* (A. Gray) Rydberg



- Hosackia wrightii* A. Gray  
*Lotus rigidus* of NM reports
- Acuan fallax* Small = *Desmanthus obtusus* S. Watson  
*illinoense* (Michaux) Kuntze = *Desmanthus illinoensis* (Michaux) MacMillan  
*jamesii* (Torrey & Gray) Kuntze = *Desmanthus cooleyi* (Eaton) Branner & Coville  
*obtusum* (S. Watson) Heller = *Desmanthus obtusus* S. Watson  
*velutinum* (Scheele) Kuntze = *Desmanthus velutinus* Scheele
- Albizia** silktree  
 Barneby, R.C. & J.W. Grimes. 1996. Silk Tree, Guanacaste, Monkey's Earring: A generic system for the synandrous Mimosaceae of the Americas. Pt. 1, *Abarema*, *Albizia*, and allies. Mem. NY Bot. Gard. 74(1): 1-292.  
 Isely, D. 1973. Leguminosae of the United States: I. Subfamily Mimosoideae. Mem. N.Y. Bot. Gard. 25(1). [*Albizia julibrissin*]  
 \**julibrissin* Durazzini [Isely 1973]
- Alepidocalyx parvulus* (Greene) Piper = *Phaseolus parvulus* Greene
- Alhagi** camel-thorn  
*camelorum* Fischer = *Alhagi maurorum* Medikus  
 \**maurorum* Medikus [M&H]  
*Alhagi camelorum* Fischer  
*Alhagi pseudalhagi* (Bierberstein) N. Desvau ex B. Keller & Schaparenko  
*pseudalhagi* (Bierberstein) N. Desvau ex B. Keller & Schaparenko = *Alhagi maurorum* Medikus
- Amorpha** indigo-bush  
 Straub, S.C.K. & J.J. Doyle. 2014. Molecular phylogenetics of *Amorpha* (Fabaceae): An evaluation of monophyly, species relationships, and polyploid origins. Molecular Phylogenetics & Evolution 76: 49-66.  
 Wilbur, R.L. 1975. A revision of the North American genus *Amorpha* (Leguminosae-Psoralae). Rhodora 77(811):337-409.  
*arizonica* Rydberg = *Amorpha fruticosa* Linnaeus  
*californica* Nuttall : Reported by M&H and W&S, but not occurring in NM [Wilbur 1975].  
*canescens* Pursh [M&H; W&S]  
 leadplant  
*fruticosa* Linnaeus [M&H]  
*Amorpha arizonica* Rydberg  
*Amorpha fruticosa* Linnaeus var. *angustifolia* Pursh  
*Amorpha fruticosa* Linnaeus var. *occidentalis* (Abrams) Kearney & Peebles  
*Amorpha occidentalis* Abrams  
*fruticosa* Linnaeus var. *angustifolia* Pursh = *Amorpha fruticosa* Linnaeus  
*fruticosa* Linnaeus var. *occidentalis* (Abrams) Kearney & Peebles = *Amorpha fruticosa* Linnaeus  
*microphylla* Pursh = *Amorpha nana* Nuttall  
*nana* Nuttall [M&H; W&S]  
*Amorpha microphylla* Pursh  
*occidentalis* Abrams = *Amorpha fruticosa* Linnaeus  
*ovalis* M.E. Jones = *Indigofera sphaerocarpa* A. Gray
- Anisolotus brachycarpus* (Bentham) Rydberg = *Acmispon brachycarpus* (Bentham) D.D. Sokoloff  
*mollis* (Greene) Heller = *Acmispon neomexicanus* (Greene) L. Brouillet  
*neomexicanus* (Greene) Heller = *Acmispon plebeius* (Brandege) Allred  
*nummularius* (M.E. Jones) Wooton & Standley = *Acmispon plebeius* (Brandege) Allred  
*puberulus* (Bentham) Wooton & Standley = *Acmispon plebeius* (Brandege) Allred  
*rigidus* of NM reports = *Acmispon wrightii* (A. Gray) L. Brouillet  
*trispermus* (Greene) Wooton & Standley = *Acmispon brachycarpus* (Bentham) D.D. Sokoloff  
*wrightii* (A. Gray) Rydberg = *Acmispon wrightii* (A. Gray) L. Brouillet
- Anthyllis cuneata* G. Don = *Lespedeza cuneata* (Dumont) G. Don  
*Aragallus articulatus* Greene = *Oxytropis lambertii* Pursh var. *bigelovii* Gray  
*nothoxys* (Gray) Heller = *Astragalus nothoxys* Gray  
*parryi* (Gray) Greene = *Oxytropis parryi* Gray  
*pinetorum* Heller = *Oxytropis sericea* Nuttall

*pinetorum* Heller var. *vegana* Cockerell = *Oxytropis sericea* Nuttall  
*splendens* (Douglas ex Hooker) Greene = *Oxytropis splendens* Douglas ex Hooker

**Astragalus** milkvetch, locoweed

- Allred, K.W. 1991. The biology of *Astragalus allochrous*: halfmoon locoweed (var. *allochrous*) and Wooton's locoweed (var. *playanus*). New Mex. St. Univ. Agr. Exp. Sta. Res. Rep. 652.
- Allred, K.W. 1999. New plant distribution records. The New Mexico Botanist 13:7. [*Astragalus crassicaarpus*]
- Allred, K.W. 2012. Plant distribution reports (*Astragalus nuttallianus imperfectus*). The New Mexico Botanist 57:4.
- Barneby, R.C. 1964. Atlas of North American *Astragalus*. Mem. N.Y. Bot. Gard. 13(2):1-1188.
- Barneby, R.C. 1979. *Dragma hippomanicum* IV. New taxa of *Astragalus* sect. *Humillimi*. Brittonia 31(4):459-463.
- Barneby, R.C. 1989. Fabales. IN: A. Cronquist, A.H. Holmgren, N.H. Holmgren, J.L. Reveal, & P.K. Holmgren. Intermountain Flora, Vol. 3. New York Botanical Garden.
- Barneby, R.C. & R. Spellenberg. 1987. A new species of *Astragalus* (Leguminosae) from northwestern New Mexico and adjacent Arizona. Brittonia 39(2):188-191.
- Barneby, R.C. & S.L. Welsh. 1996. *Astragalus laxmannii* Jacquin (Leguminosae) in North America. Great Basin Naturalist 56(1):85-86.
- Fox, W.E., K.W. Allred, & E.H. Roalson. 1998. A Guide to the Common Locoweeds and Milkvetches of New Mexico. Circular 557, Agr. Exp. Sta. & Coop. Ext. Serv., New Mexico State University. 95 pp.
- Heil, K.D. 2004. Plant distribution reports. The New Mexico Botanist 30:7. [*Astragalus preussii*, *Astragalus flavus higginsii*]
- Heil, K. 2007. Plant distribution reports. The New Mexico Botanist 39:7. [*Astragalus flexuosus diehlii*, *Astragalus missouriensis humistratus*]
- Heil, K. & S. O'Kane. 2007. Plant distribution reports. The New Mexico Botanist 41:7. [*Astragalus miser*]
- Heil, K.D., S.L. O'Kane, & A. Clifford. 2002. Additions to the flora of New Mexico from the San Juan Basin Flora project. The New Mexico Botanist 24:1-4. [*Astragalus calycosus calycosus*]
- Isely, D. 1983. New combinations and two new varieties in *Astragalus*, *Orophaca*, and *Oxytropis* (Leguminosae). Syst. Bot. 8(4):420-426.
- Isely, D. 1984. *Astragalus* L. (Leguminosae: Papilionoideae) II: Species summary A-E. Iowa State J. Res. 59:99-209.
- Knight, P.J. 1984. Noteworthy collections (New Mexico). Madroño 31:63. [*Astragalus humillimus*]
- Kulshreshtha, S., R. Creamer, & T.M. Sterling. 2004. Phylogenetic relationships among New Mexico *Astragalus mollissimus* varieties and *Oxytropis* species by restriction fragment analysis. Weed Sci. 52:984-988
- Marley, G.A. & W.L. Wagner. 1981. Noteworthy collections (New Mexico). Madroño 28:41-43. [*Astragalus monumentalis*]
- Massatti, R., M.T. Belus, S. Dowlatshahi, & G.J. Allan. 2018. Genetic analyses of *Astragalus* sect. *Humillimi* (Fabaceae) resolve taxonomy and enable effective conservation. Amer. J. Bot. 105(10):1703-1711.
- Reif, B., J. Larson, B.R. Jacobs, B.E. Nelson, & R.L. Hartman. 2009. Floristic studies in north central New Mexico, U.S.A., the Tusas Mountains and the Jemez Mountains. J. Bot. Res. Inst. Texas 3(2):921-961. [*Astragalus cerussatus*]
- Reveal, J.L., K.N. Gandhi, & D.H. Nicolson. 2004. The demise of the name *Astragalus tenellus* Pursh (Fabaceae). Taxon 53(4):1055-1058.
- Roalson, E.H. & K.W. Allred. 1997. Atlas of New Mexico *Astragalus* and *Oxytropis*. Agr. Exp. Sta. Res. Rep. 715, New Mexico State University.
- Sivinski, R.C. 2005. Plant distribution reports. The New Mexico Botanist 32:7. [*Astragalus nutriosensis*]
- Sivinski, R.C. 2005. Plant distribution reports. The New Mexico Botanist 33:7. [*Astragalus eremiticus*]
- Welsh, S.L. 2005. Correction to an effectively but non-validly published species of *Astragalus* (Leguminosae) from New Mexico. Rhodora 107(929):103-104. [*Astragalus cliffordii*]
- Welsh, S. L. 2007. North American Species of *Astragalus* Linnaeus (Leguminosae). Monte L. Bean Life Science Museum, Brigham Young University, Provo, UT. 932 pp. [*Astragalus zionis*]
- Welsh, S.L., N.D. Atwood, S. Goodrich, & L.C. Higgins (eds.). 2003. A Utah Flora. 3<sup>rd</sup> ed, revised. Provo, Utah: Brigham Young University Press. [*Astragalus cliffordii*, *Astragalus heilii*]
- aboriginum* Richardson var. *glabriusculus* (Hooker) Rydberg = *Astragalus australis* (Linnaeus) Lamarck
- accumbens* Sheldon = *Astragalus missouriensis* Nuttall var. *accumbens* (Sheldon) Isely
- adsurgens* Pallas var. *robustior* Hooker = *Astragalus laxmannii* Jacquin var. *robustior* (Hooker) Barneby & Welsh
- agrestis** Douglas ex G. Don [M&H; W&S]  
*Astragalus goniatus* Nuttall
- albulus** Wooton & Standley [M&H; W&S]  
*Batidophaca albula* (Wooton & Standley) Rydberg
- allochrous** Gray var. **allochrous** [M&H; W&S]

- halfmoon locoweed  
*Phaca allochroa* (Gray) Rydberg  
**allochrous** Gray var. **playanus** (M.E. Jones) Isely [M&H; W&S]  
 Wooton's locoweed  
*Astragalus playanus* M.E. Jones  
*Astragalus triflorus* sensu Gray var. *playanus* M.E. Jones  
*Astragalus wootonii* Sheldon  
*Phaca wootonii* (Sheldon) Rydberg
- alpinus** Linnaeus [M&H; W&S]  
 +**altus** Wooton & Standley [M&H; W&S]  
*Atelophragma altum* (Wooton & Standley) Rydberg
- amphioxys** Gray var. **amphioxys** [M&H; W&S]  
*Astragalus amphioxys* Gray var. *typicus* Barneby  
*Astragalus crescenticarpus* Sheldon  
*Xylophacos amphioxys* (Gray) Rydberg  
*amphioxys* Gray var. *typicus* Barneby = *Astragalus amphioxys* Gray var. *amphioxys*
- amphioxys** Gray var. **vespertinus** (Sheldon) M.E. Jones  
*Astragalus vespertinus* Sheldon  
*Xylophacos vespertinus* (Sheldon) Rydberg  
 arizonicus Gray : Reported by Kartesz (1999) without documentation; awaits verification.  
 australis (Linnaeus) Lamarck : Reported by M&H, but authentic specimens are unknown for NM; awaits verification.  
*Astragalus aboriginum* Richardson var. *glabriusculus* (Hooker) Rydberg  
*Phaca australis* Linnaeus  
*Phaca glabriuscula* Hooker
- austrinus* (Small) Schulz = *Astragalus nuttallianus* A.P. de Candolle var. *austrinus* (Small) Barneby
- bigelovii* Gray = *Astragalus mollissimus* Torrey var. *bigelovii* (Gray) Barneby  
*bigelovii* Gray var. *matthewsii* (S. Watson) M.E. Jones = *Astragalus mollissimus* Torrey var. *matthewsii* (S. Watson) Barneby  
*bigelovii* Gray var. *mogollonicus* (Greene) Barneby = *Astragalus mollissimus* Torrey var. *mogollonicus* (Greene) Barneby  
*bigelovii* Gray var. *thompsoniae* (S. Watson) M.E. Jones = *Astragalus mollissimus* Torrey var. *thompsoniae* (S. Watson) Barneby
- bisulcatus** (Hooker) Gray var. **bisulcatus** [M&H; W&S]  
 two-groove locoweed  
*Diholcos bisulcatus* (Hooker) Rydberg  
*Phaca bisulcata* Hooker  
*Tragacantha bisulcata* (Hooker) Kuntze
- bisulcatus** (Hooker) Gray var. **haydenianus** (Gray) Barneby [M&H; W&S]  
 two-groove locoweed  
*Astragalus haydenianus* Gray ex Brand  
*Diholcos haydenianus* (Gray) Rydberg  
*Tragacantha haydeniana* (Gray) Kuntze
- blakei* Eggleston = *Astragalus robbinsii* (Oakes) Gray var. *minor* (Hooker) Barneby  
*bodinii* Sheldon : Reported by M&H and others, but no authentic specimens are known; awaits verification.
- brandegeei** Porter [M&H; W&S]  
*Atelophragma brandegeei* (Porter) Rydberg  
*Tragacantha brandegeei* (Porter) Kuntze
- calycosus** Torrey ex S. Watson var. **calycosus** [Heil et al. 2002]  
**calycosus** Torrey ex S. Watson var. **scaposus** (Gray) M.E. Jones [M&H; W&S]  
*Astragalus scaposus* Gray  
*Hamosa scaposa* (Gray) Rydberg
- canadensis** Linnaeus [M&H; W&S]  
*Astragalus oreophilus* Rydberg
- canovirens** (Rydberg) Barneby [M&H; W&S]  
*Astragalus coltonii* M.E. Jones var. *moabensis* M.E. Jones

- Homalobus canovirens* Rydberg  
*carnosus* Pursh = *Astragalus crassicaarpus* Nuttall var. *crassicaarpus*  
+*castetteri* Barneby [M&H]  
*ceramicus* Sheldon var. *ceramicus* [M&H; W&S]  
*ceramicus* Sheldon var. *filifolius* (Gray) F.J. Hermann : Reported for the state based on questionable material; awaits verification.  
*Astragalus filifolius* Gray  
*Astragalus longifolius* (Pursh) Rydberg  
*cerussatus* Sheldon [Reif et al. 2009]  
*chuskanus* Barneby & Spellenberg [Barneby & Spellenberg 1987; Welsh 2007]  
*Astragalus chuskanus* Barneby & Spellenberg var. *spellenbergii* Welsh & Atwood  
*chuskanus* Barneby & Spellenberg var. *spellenbergii* Welsh & Atwood = *Astragalus chuskanus* Barneby & Spellenberg  
*cibarius* Sheldon : Isely (1998) reports this species from NM, but his map and all other authors indicate otherwise.  
\**cicer* Linnaeus [Heil et al. 2002]  
+*cliffordii* Welsh & Atwood [Welsh 2005; Welsh et al. 2003]  
*cobrensis* Gray var. *cobrensis* [M&H; W&S]  
*Atelophragma cobrense* (Gray) Rydberg  
*Tragacantha cobrensis* (Gray) Kuntze  
*cobrensis* Gray var. *maguirei* Kearney [Isley 1984]  
*coltonii* M.E. Jones var. *moabensis* M.E. Jones = *Astragalus canovirens* (Rydberg) Barneby  
*confertiflorus* Gray = *Astragalus flavus* Nuttall var. *flavus*  
*cottamii* Welsh [Isely 1983; Marley & Wagner 1981]  
*Astragalus monumentalis* Barneby var. *cottamii* (Welsh) Isely  
*crassicaarpus* Nuttall var. *cavus* Barneby [M&H]  
ground-plum  
*crassicaarpus* Nuttall var. *crassicaarpus* [M&H; W&S]  
ground-plum  
*Astragalus carnosus* Pursh  
*Geoprimum crassicaarpum* (Nuttall) Rydberg  
*crassicaarpus* Nuttall var. *paysonii* (Kelso) Barneby [Allred 1999]  
ground-plum  
*Astragalus succulentus* var. *paysonii* Kelso  
*crescenticaarpus* Sheldon = *Astragalus amphioxys* Gray var. *amphioxys*  
*curtilobus* Tidestrom = *Astragalus tephrodes* Gray  
+*cyaneus* Gray [M&H]  
*Astragalus jemensis* A. Nelson  
*Astragalus shortianus* Nuttall ex Torrey & Gray var. *cyaneus* (Gray) M.E. Jones  
*Tragacantha cyanea* (Gray) Kuntze  
*Xylophacos cyaneus* (Gray) Rydberg  
*datilensis* (Rydberg) Tidestrom = *Astragalus humistratus* Gray var. *humistratus*  
*desperatus* Jones [Spellenberg et al. 1986]  
*diehlii* M.E. Jones = *Astragalus flexuosus* (Hooker) Douglas ex G. Don var. *diehlii* (M.E. Jones) Barneby  
*diphysus* Gray = *Astragalus lentiginosus* Douglas ex Hooker var. *diphysus* (Gray) M.E. Jones  
*diphysus* Gray var. *albiflorus* Gray = *Astragalus lentiginosus* Douglas ex Hooker var. *diphysus* (Gray) M.E. Jones  
*diversifolius* Gray : Reported by W&S, but not occurring in NM (Barneby 1964).  
*drummondii* Douglas ex Hooker [M&H; W&S]  
*Tium drummondii* (Douglas ex Hooker) Rydberg  
*earlei* Greene ex Rydberg = *Astragalus mollissimus* Torrey var. *earlei* (Greene ex Rydberg) Tidestrom  
*eastwoodiae* M.E. Jones : Questionably reported by Welsh & Atwood (2013), based on a poor specimen with a single damaged pod; otherwise not known from the state; awaits verification.

- Phaca eastwoodiae* (M.E. Jones) Rydberg  
**egglestonii** (Rydberg) Kearney & Peebles [M&H]  
*Tium egglestonii* Rydberg  
*elatocarpus* Sheldon = *Astragalus lotiflorus* Hooker  
*ellisiae* (Rydberg) C.L. Porter = *Astragalus praelongus* Sheldon var. *praelongus*  
**emoryanus** (Rydberg) Cory [M&H]  
 red-stemmed peavine  
*Hamosa emoryana* Rydberg  
**episcopus** S. Watson [Barneby 1989]  
**eremiticus** Sheldon var. **eremiticus** [Sivinski 2005]  
*fallax* S. Watson [nom. illegit.] = *Astragalus hallii* Gray var. *fallax* Barneby  
*famelicus* Sheldon = *Astragalus hallii* Gray var. *fallax* Barneby  
**+feensis** M.E. Jones [M&H]  
*Astragalus sanctae-fidei* Tidestrom  
*Hamosa feensis* (M.E. Jones) Rydberg  
*fendleri* (Gray) Gray = *Astragalus flexuosus* Douglas ex Hooker var. *flexuosus*  
*filifolius* Gray = *Astragalus ceramicus* Sheldon var. *filifolius* (Gray) F.J. Hermann  
*flaviflorus* (Kuntze) Sheldon = *Astragalus flavus* Nuttall var. *flavus*  
*flavus* Nuttall var. *candicans* Gray = *Astragalus flavus* Nuttall var. *flavus*  
**flavus** Nuttall var. **flavus** [M&H; W&S]  
*Astragalus confertiflorus* Gray  
*Astragalus confertiflorus* Gray var. *flaviflorus* (Kuntze) M.E. Jones  
*Astragalus flaviflorus* (Kuntze) Sheldon  
*Astragalus flavus* Nuttall var. *candicans* Gray  
*Cnemidophacos confertiflorus* (Gray) Rydberg  
*Cnemidophacos flavus* (Nuttall) Rydberg  
*Tragacantha flaviflora* Kuntze  
**flavus** Nuttall var. **higginsii** Welsh [Heil 2004]  
**flexuosus** Douglas ex G. Don var. **diehlii** (M.E. Jones) Barneby [Heil 2007]  
*Astragalus diehlii* M.E. Jones  
**flexuosus** Douglas ex G. Don var. **flexuosus** [M&H; W&S]  
*Astragalus fendleri* (Gray) Gray  
*Pisophaca flexuosa* (Douglas) Rydberg  
*Pisophaca ratonensis* Rydberg  
*Pisophaca sierrae-blancae* Rydberg  
**flexuosus** Douglas ex G. Don var. **greenei** (Gray) Barneby [M&H; W&S]  
*Astragalus gracilentus* (Gray) Gray var. *greenei* (Gray) Rydberg  
*Astragalus greenei* Gray  
**fucatus** Barneby [M&H]  
*gertrudis* Greene = *Astragalus puniceus* Osterhout var. *gertrudis* (Greene) Barneby  
**giganteus** S. Watson [M&H; W&S]  
*Astragalus giganteus* (S. Watson) Sheldon var. *yaquianus* (S. Watson) M.E. Jones  
*Astragalus texanus* Sheldon  
*Astragalus yaquianus* S. Watson  
*giganteus* (S. Watson) Sheldon var. *yaquianus* (S. Watson) M.E. Jones = *Astragalus giganteus* S. Watson  
**gilensis** Greene [M&H; W&S]  
*Batidophaca gilensis* (Greene) Rydberg  
*goniatus* Nuttall = *Astragalus agrestis* Douglas ex G. Don  
*gracilentus* (Gray) Gray var. *greenei* (Gray) Rydberg = *Astragalus flexuosus* (Hooker) Douglas ex G. Don var. *greenei* (Gray) Barneby  
*gracilentus* (Gray) Gray var. *hallii* (Gray) M.E. Jones = *Astragalus hallii* Gray var. *hallii*  
*gracilentus* (Gray) Gray var. *exsertus* M.E. Jones = *Astragalus puniceus* Osterhout var. *puniceus*  
**gracilis** Nuttall [M&H]  
*Astragalus microlobus* Gray  
*Astragalus microphacos* Cory  
*Astragalus parviflorus* (Pursh) MacMillan

- greenii* Gray = *Astragalus flexuosus* Douglas ex Hooker var. *greenii* (Gray) Barneby  
***gypsodes*** Barneby [M&H]  
***hallii*** Gray var. ***fallax*** Barneby [M&H]  
*Astragalus fallax* S. Watson [nom. illegit.]  
*Astragalus famelicus* Sheldon  
*Pisophaca famelica* (Sheldon) Rydberg  
***hallii*** Gray var. ***hallii*** [M&H]  
*Astragalus gracilentus* (Gray) Gray var. *hallii* (Gray) M.E. Jones  
*Homalobus hallii* (Gray) Rydberg  
*Pisophaca hallii* (Gray) Rydberg  
*Tragacantha hallii* (Gray) Kuntze  
+***heilii*** Welsh & Atwood [Welsh et al. 2003]  
*haydenianus* Gray ex Brand = *Astragalus bisulcatus* (Hooker) Gray var. *haydenianus* (Gray) Barneby  
*hosackiae* Greene = *Astragalus humistratus* Gray var. *hosackiae* (Greene) M.E. Jones  
***humillimus*** Gray ex Brand [Knight 1984]  
***humistratus*** Gray var. ***crispulus*** Barneby [M&H]  
***humistratus*** Gray var. ***hosackiae*** (Greene) M.E. Jones [M&H; W&S]  
*Astragalus hosackiae* Greene  
*Batidophaca hosackiae* (Greene) Rydberg  
***humistratus*** Gray var. ***humistratus*** [M&H; W&S]  
*Astragalus datilensis* (Rydberg) Tidestrom  
*Batidophaca humistrata* (Gray) Rydberg  
*Pisophaca datilensis* Rydberg  
*Tium humistratum* (Gray) Rydberg  
*Tragacantha humistrata* (Gray) Kuntze  
***humistratus*** Gray var. ***humivagans*** (Rydberg) Barneby [M&H]  
*Batidophaca humivagans* Rydberg  
***humistratus*** Gray var. ***sonorae*** (Gray) M.E. Jones [M&H; W&S]  
*Astragalus sonorae* Gray  
*Batidophaca sonorae* (Gray) Rydberg  
*Batidophaca stipulacea* Rydberg  
*Tragacantha sonorae* (Gray) Kuntze  
*impensus* (Sheldon) Wooton & Standley = *Astragalus kentrophyta* Gray var. *elatus* S. Watson  
***iodopetalus*** (Rydberg) Barneby [M&H]  
*Xylophacos iodopetalus* Rydberg  
*jemensis* A. Nelson = *Astragalus cyaneus* Gray  
***kentrophyta*** Gray var. ***elatus*** S. Watson [M&H; W&S]  
spiny milkvetch  
*Astragalus impensus* (Sheldon) Wooton & Standley  
*Astragalus tegetarius* S. Watson var. *elatus* (S. Watson) Barneby  
*kentrophyta* Gray var. *implexus* (Canby ex T. Porter & Coulter) Barneby = *Astragalus kentrophyta* Gray var. *tegetarius* (S. Watson) Dorn  
+***kentrophyta*** Gray var. ***neomexicanus*** (Barneby) Barneby [M&H]  
spiny milkvetch  
*Astragalus tegetarius* S. Watson var. *neomexicanus* Barneby  
***kentrophyta*** Gray var. ***tegetarius*** (S. Watson) Dorn [M&H]  
spiny milkvetch  
*Astragalus tegetarius* S. Watson var. *tegetarius* [autonym created by *Astragalus tegetarius* S. Watson var. *implexus* Canby ex T. Porter & Coulter]  
*Astragalus tegetarius* S. Watson var. *implexus* Canby ex T. Porter & Coulter  
*Astragalus kentrophyta* Gray var. *implexus* (Canby ex T. Porter & Coulter) Barneby  
+***kerrii*** Knight & Cully [Knight & Cully 1991]  
+***knightii*** Barneby [Barneby 1983]  
***laxmannii*** Jacquin var. ***robustior*** (Hooker) Barneby & Welsh [M&H]  
*Astragalus adsurgens* Pallas var. *robustior* Hooker

- Astragalus striatus* Nuttall  
*lentiginosus* Douglas ex Hooker var. *albiflorus* (Gray) Schoener = *Astragalus lentiginosus*  
 Douglas ex Hooker var. *diphysus* (Gray) M.E. Jones
- lentiginosus*** Douglas ex Hooker var. ***australis*** Barneby [M&H]  
***lentiginosus*** Douglas ex Hooker var. ***diphysus*** (Gray) M.E. Jones [M&H; W&S]  
*Astragalus diphysus* Gray  
*Astragalus diphysus* Gray var. *albiflorus* Gray  
*Cystium diphysum* (Gray) Rydberg  
*Tragacantha diphysa* (Gray) Kuntze
- lonchocarpus*** Torrey [M&H; W&S]  
*Phaca macrocarpa* Gray  
*longifolius* (Pursh) Rydberg = *Astragalus ceramicus* Sheldon var. *filifolius* (Gray) F.J. Hermann
- lotiflorus*** Hooker [M&H; W&S]  
*Astragalus elatiocarpus* Sheldon  
*Astragalus lotiflorus* Hooker forma *brachypus* A. Gray  
*Astragalus lotiflorus* Hooker forma *pedunculatus* A. Gray  
*Batidophaca lotiflora* (Hooker) Rydberg  
*Phaca lotiflora* (Hooker) Torrey & Gray  
*Tragacantha lotiflora* (Hooker) Kuntze
- lotiflorus* Hooker forma *brachypus* A. Gray = *Astragalus lotiflorus* Hooker  
*Astragalus lotiflorus* Hooker forma *pedunculatus* A. Gray = *Astragalus lotiflorus* Hooker  
*macounii* Rydberg = *Astragalus robbinsii* (Oakes) Gray var. *minor* (Hooker) Barneby  
*matthewsii* S. Watson = *Astragalus mollissimus* Torrey var. *matthewsii* (S. Watson) Barneby
- melanocarpus* Nuttall = *Astragalus missouriensis* Nuttall var. *missouriensis*  
*microlobus* Gray = *Astragalus gracilis* Nuttall  
*microphacos* Cory = *Astragalus gracilis* Nuttall
- +***micromerius*** Barneby [M&H]  
***miser*** Douglas var. ***oblongifolius*** (Rydberg) Cronquist [Heil & O'Kane 2007]  
*Homalobus oblongifolius* Rydberg
- +***missouriensis*** Nuttall var. ***accumbens*** (Sheldon) Isely [Isely 1983; M&H; W&S]  
*Astragalus accumbens* Sheldon
- missouriensis*** Nuttall var. ***amphibolus*** Barneby [M&H]  
***missouriensis*** Nuttall var. ***humistratus*** Isely [Heil 2007]  
+***missouriensis*** Nuttall var. ***mimetes*** Barneby [M&H]  
***missouriensis*** Nuttall var. ***missouriensis*** [M&H; W&S]  
*Astragalus melanocarpus* Nuttall  
*Tragacantha missouriensis* (Nuttall) Kuntze  
*Xylophacos missouriensis* (Nuttall) Rydberg
- mogollonicus* Greene = *Astragalus mollissimus* Torrey var. *mogollonicus* (Greene) Barneby
- mollissimus*** Torrey var. ***bigelovii*** (Gray) Barneby [M&H; W&S]  
 wooly locoweed  
*Astragalus bigelovii* Gray
- mollissimus*** Torrey var. ***earlei*** (Greene ex Rydberg) Tidestrom [M&H]  
 wooly locoweed  
*Astragalus earlei* Greene ex Rydberg
- +***mollissimus*** Torrey var. ***matthewsii*** (S. Watson) Barneby [M&H; W&S]  
 wooly locoweed  
*Astragalus bigelovii* Gray var. *matthewsii* (S. Watson) M.E. Jones  
*Astragalus matthewsii* S. Watson
- mollissimus*** Torrey var. ***mogollonicus*** (Greene) Barneby [M&H]  
 wooly locoweed  
*Astragalus bigelovii* Gray var. *mogollonicus* (Greene) Barneby  
*Astragalus mogollonicus* Greene
- mollissimus*** Torrey var. ***mollissimus*** [M&H; W&S]  
 wooly locoweed  
*Astragalus simulans* Cockerell

- Phaca villosa* James ex S. Watson  
**mollissimus** Torrey var. **thompsoniae** (S. Watson) Barneby [M&H; W&S]  
 wooly locoweed  
*Astragalus bigelovii* Gray var. *thompsoniae* (S. Watson) M.E. Jones  
*Astragalus thompsoniae* S. Watson  
*monumentalis* Barneby var. *cottamii* (Welsh) Isely = *Astragalus cottamii* Welsh  
**multiflorus** (Pursh) Gray [M&H; W&S]  
*Astragalus tenellus* Pursh  
*Ervum multiflorum* Pursh  
*Homalobus standleyi* Rydberg  
**naturitensis** Payson [Knight 1984]  
**+neomexicanus** Wooton & Standley [M&H; W&S]  
*Pisophaca neomexicana* (Wooton & Standley) Rydberg  
**newberryi** Gray [M&H; W&S]  
*Xylophacos newberryi* (Gray) Rydberg  
**nothoxys** Gray [M&H]  
*Aragallus nothoxys* (Gray) Heller  
*Hamosa nothoxys* (Gray) Rydberg  
*Oxytropis nothoxys* (Gray) M.E. Jones  
*Spiesia nothoxys* (Gray) M.E. Jones  
*Tragacantha nothoxys* (Gray) Kuntze  
**nutriosensis** Sanderson [Sivinski 2005]  
**nuttallianus** A.P. de Candolle var. **austrinus** (Small) Barneby [M&H; W&S]  
*Astragalus austrinus* (Small) Schulz  
*Hamosa austrina* Small  
**nuttallianus** A.P. de Candolle var. **imperfectus** (Rydberg) Barneby [Allred 2012]  
*Hamosa imperfecta* Rydberg  
**nuttallianus** A.P. de Candolle var. **macilentus** (Small) Barneby [M&H]  
*Hamosa macilenta* Small  
**nuttallianus** A.P. de Candolle var. **micranthiformis** Barneby [M&H]  
 nuttallianus A.P. de Candolle var. *trichocarpus* Torrey & Gray : Reported by M&H, but  
 this taxon occurs in east Texas; needs verification.  
**oocalycis** M.E. Jones [M&H]  
*Astragalus urceolatus* Greene  
*Diholcos oocalycis* (M.E. Jones) Rydberg  
*oreophilus* Rydberg = *Astragalus canadensis* Linnaeus  
*parryanus* Tidestrom = *Oxytropis parryi* Gray  
*parviflorus* (Pursh) MacMillan = *Astragalus gracilis* Nuttall  
**pattersonii** Gray in Brandegee [M&H;W&S]  
*Jonesiella pattersonii* (Gray) Rydberg  
*Phacopsis pattersonii* (Gray) Rydberg  
*Rydbergiella pattersonii* (Gray) Fedde & Sydow  
 pectinatus Douglas ex G. Don : Reported by M&H, but no verifying specimens or other  
 reports found; needs verification.  
**pictiformis** Barneby [M&H]  
 plattensis Nuttall : Reported by M&H, but no verifying specimens or other reports found;  
 awaits verification.  
*playanus* M.E. Jones = *Astragalus allochrous* Gray var. *playanus* (M.E. Jones) Isely  
*praelongus* Sheldon var. *ellisiae* (Rydberg) Barneby = *Astragalus praelongus* Sheldon var.  
*praelongus*  
**praelongus** Sheldon var. **lonchopus** Barneby [M&H]  
 stinking milkvetch  
**praelongus** Sheldon var. **praelongus** [M&H; W&S]  
 stinking milkvetch  
*Astragalus ellisiae* (Rydberg) C.L. Porter  
*Astragalus recedens* (Greene) C.L. Porter  
*Jonesiella ellisiae* Rydberg  
*Jonesiella recedens* Greene



- preussii** A. Gray var. **latus** M.E. Jones [Heil 2004]
- proximus** (Rydberg) Wootton & Standley [M&H; W&S]  
*Homalobus proximus* Rydberg  
*Pisophaca proxima* (Rydberg) Rydberg
- +**punicus** Osterhout var. **gertrudis** (Greene) Barneby [M&H; W&S]  
*Astragalus gertrudis* Greene  
*Pisophaca gertrudis* (Greene) Rydberg
- punicus** Osterhout var. **punicus** [M&H]  
*Astragalus gracilentus* (Gray) Gray var. *exsertus* M.E. Jones  
*Pisophaca punicea* (Osterhout) Rydberg  
*Xylophacos punicus* (Osterhout) Rydberg
- racemosus** Pursh var. **longisetus** M.E. Jones = *Astragalus racemosus* Pursh
- racemosus** Pursh [M&H]  
*Astragalus racemosus* Pursh var. *longisetus* M.E. Jones  
*Tium racemosum* (Pursh) Rydberg
- recedens** (Greene) C.L. Porter = *Astragalus praelongus* Sheldon var. *praelongus*
- remulus** M.E. Jones = *Astragalus tephrodes* Gray
- ripleyi** Barneby [M&H]
- robbinsii** (Oakes) Gray var. **minor** (Hooker) Barneby [M&H]  
*Astragalus blakei* Eggleston  
*Astragalus macounii* Rydberg  
*Atelophragma macounii* (Rydberg) Rydberg  
*Phaca robbinsii* Oakes  
*Phaca elegans* Hooker var. *minor* Hooker
- rusbyi Greene : Reported by W&S, but this species is known only from central Arizona;  
our material is referred to the closely related *Astragalus egglestonii*  
(Rydberg) Kearny & Peebles
- sabulonum** Gray [M&H]  
*Phaca sabulonum* (Gray) Rydberg
- sanctae-fidei** Tidestrom = *Astragalus feensis* M.E. Jones
- scaposus** Gray = *Astragalus calycosus* Torrey ex S. Watson var. *scaposus* (Gray) M.E. Jones
- scopulorum** T.C. Porter [M&H; W&S]  
*Tium scopulorum* (Porter) Rydberg  
*Tium stenolobum* Rydberg
- sericoleucus** Gray [Spellenberg 1984]
- shortianus** Nuttall [M&H; W&S]  
*Astragalus shortianus* Nuttall ex Torrey & Gray var. *typicus* Barneby  
*Tragacantha shortiana* (Nuttall) Kuntze  
*Xylophacos shortianus* (Nuttall) Rydberg
- shortianus** Nuttall ex Torrey & Gray var. *brachylobus* Gray = *Astragalus tephrodes* Gray
- shortianus** Nuttall ex Torrey & Gray var. *cyaneus* (Gray) M.E. Jones = *Astragalus cyaneus* Gray
- shortianus** Nuttall ex Torrey & Gray var. *typicus* Barneby = *Astragalus shortianus* Nuttall
- +**siliceus** Barneby [M&H]  
*simulans* Cockerell = *Astragalus mollissimus* Torrey var. *mollissimus*
- sonorae** Gray = *Astragalus humistratus* Gray var. *sonorae* (Gray) M.E. Jones
- striatus** Nuttall = *Astragalus laxmannii* Jacquin var. *robustior* (Hooker) Barneby & Welsh
- spatulatus** Sheldon : Isely (1998) reports “n NM,” but this not verified by his map nor by other sources; awaits verification.
- subcinereus** Gray : Reported by W&S, but not occurring in NM [Barneby 1964].
- succulentus** var. **paysonii** Kelso = *Astragalus crassicaucus* Nuttall var. *paysonii* (Kelso) Barneby
- tegetarius** S. Watson = *Astragalus kentrophyta* Gray var. *implexus* (Canby ex T. Porter & Coulter) Barneby
- tegetarius** S. Watson var. **elatus** (S. Watson) Barneby = *Astragalus kentrophyta* Gray var. *elatus* S. Watson
- tegetarius** S. Watson var. **neomexicanus** Barneby = *Astragalus kentrophyta* Gray var. *neomexicanus* (Barneby) Barneby

*tenellus* Pursh = *Astragalus multiflorus* (Pursh) Gray  
*tephrodes* Gray var. *brachylobus* (Gray) Barneby = *Astragalus tephrodes* Gray

***tephrodes*** Gray [M&H; W&S]

*Astragalus curtislobus* Tidestrom

*Astragalus remulcus* M.E. Jones

*Astragalus shortianus* Nuttall ex Torrey & Gray var. *brachylobus* Gray

*Tragacantha tephrodes* (Gray) Kuntze

*Xylophacos brachylobus* (Gray) Rydberg

*Xylophacos tephrodes* (Gray) Rydberg

*texanus* Sheldon = *Astragalus giganteus* S. Watson

*thompsoniae* S. Watson = *Astragalus mollissimus* Torrey var. *thompsoniae* (S. Watson)  
M.E. Jones

***thurberi*** Gray [M&H; W&S]

*Phaca thurberi* (Gray) Kearney

*Tragacantha thurberi* (Gray) Kuntze

*triflorus* sensu Gray var. *playanus* M.E. Jones = *Astragalus allochrous* Gray var. *playanus*  
(M.E. Jones) Isely

*urceolatus* Greene = *Astragalus oocalycis* M.E. Jones

***vaccarum*** Gray [M&H; W&S]

*Hamosa vaccarum* (Gray) Rydberg

*Tragacantha vaccarum* (Gray) Kuntze

*vespertinus* Sheldon = *Astragalus amphioxys* Gray var. *vespertinus* (Sheldon) M.E. Jones

***waterfallii*** Barneby [M&H]

***wingatanus*** S. Watson [M&H; W&S]

*Homalobus wingatanus* (S. Watson) Rydberg

**+*wittmannii*** Barneby [Barneby 1979]

*wootonii* Sheldon = *Astragalus allochrous* Gray var. *playanus* (M.E. Jones) Isely

*yaquianus* S. Watson = *Astragalus giganteus* S. Watson

***zionis*** M.E. Jones var. ***zionis*** [Welsh 2007]

*Atelophragma altum* (Wooton & Standley) Rydberg = *Astragalus altus* Wooton & Standley

*brandegeei* (Porter) Rydberg = *Astragalus brandegeei* Porter

*cobrense* (Gray) Rydberg = *Astragalus cobrensis* Gray var. *cobrensis*

*macounii* (Rydberg) Rydberg = *Astragalus robbinsii* (Oakes) Gray var. *minor* (Hooker)  
Barneby

*Batidophaca albulus* (Wooton & Standley) Rydberg = *Astragalus albulus* Wooton & Standley

*gilensis* (Greene) Rydberg = *Astragalus gilensis* Greene

*hosackiae* (Greene) Rydberg = *Astragalus humistratus* Gray var. *hosackiae* (Greene) M.E.  
Jones

*humistrata* (Gray) Rydberg = *Astragalus humistratus* Gray var. *humistratus*

*humivagans* Rydberg = *Astragalus humistratus* Gray var. *humivagans* (Rydberg) Barneby

*lotiflora* (Hooker) Rydberg = *Astragalus lotiflorus* Hooker

*sonorae* (Gray) Rydberg = *Astragalus humistratus* Gray var. *sonorae* (Gray) M.E. Jones

*stipulacea* Rydberg = *Astragalus humistratus* Gray var. *sonorae* (Gray) M.E. Jones

*Broussonetia secundiflora* Ortega = *Dermatophyllum secundiflorum* (Ortega) Gandhi & Reveal  
*Caesalpinia*

Gagnon, E., A. Bruneau, C.E. Hughes, L. Paganucci de Queiroz, & G.P. Lewis. 2016. A new generic system for the pantropical *Caesalpinia* group (Leguminosae). *PhytoKeys* 71: 1-160.

*drepanocarpa* (Gray) E.M. Fisher = *Hoffmannseggia drepanocarpa* Gray

*gilliesii* (Wallich ex Hooker) Bentham = *Erythrostemon gilliesii* (Wallich ex Hooker)  
Klotzsch

*jamesii* (Torrey & Gray) Fisher = *Pomaria jamesii* (Torrey & Gray) Walpers

*pulcherrima* (Linnaeus) Swartz : Sometimes reported for the state based on a 1907 collection (*Wooton 3270* RM) from the "Mesilla Valley;" we assume this was an ornamental plant; no other collections are known; awaits verification from the wild.

*Poinciana pulcherrima* Linnaeus

***Calliandra*** stick-pea

Barneby, R.C. 1998. Silk tree, guanacaste, monkey's earring: A generic system for the synandrous Mimosaceae of the Americas. Pt 3, *Calliandra*. Mem. New York Bot. Gard. 74(3): 1-223.

Hernández, H.M. 1986. *Zapoteca*: A new genus of Neotropical Mimosoideae. Ann. Missouri Bot. Gard. 73: 755-763.

Souza, E.R. de, G.P. Lewis, F. Forest, A.S. Schnadelbach, C. van den Berg, & L.P. de Queiros. 2013. Phylogeny of *Calliandra* (Leguminosae: Mimosoideae) based on nuclear and plastid molecular markers. Taxon 62(6): 1200-1219.

***erriophylla*** Bentham [M&H; W&S]

fairy duster

*herbacea* Bentham = *Calliandra humilis* Bentham var. *humilis*

***humilis*** Bentham var. ***humilis*** [M&H; W&S]

*Calliandra herbacea* Bentham

***humilis*** Bentham var. ***reticulata*** (Gray) L. Benson [M&H; W&S]

*Calliandra reticulata* Gray

*reticulata* Gray = *Calliandra humilis* Bentham var. *reticulata* (Gray) L. Benson

***Caragana*** pea-shrub

Cox, G. 2004. Plant distribution reports. The New Mexico Botanist 31:1. [*Caragana arborescens*]

Duan, L., X. Yang, P. Liu, G. Johnson, J. Wen, & Z. Chang. 2016. A molecular phylogeny of Caraganeae (Leguminosae, Papilionoideae) reveals insights into new generic and infrageneric delimitations. PhytoKeys 70: 111-137.

Zhang, M., P.W. Fritsch, & B.C. Cruz. 2009. Phylogeny of *Caragana* (Fabaceae) based on DNA sequence data from rbcL, trnS-trnG, and ITS. Molecular Phylogenetics & Evolution 50: 547-559.

\****arborescens*** Lamarck [Cox 2004]

*Robinia caragana* Linnaeus

*Cassia bauhinioides* Gray var. *arizonica* Robinson = *Senna bauhinioides* (Gray) Irwin & Barneby

*bauhinioides* Gray = *Senna bauhinioides* (Gray) Irwin & Barneby

*chamaecrista* Linnaeus = *Chamaecrista fasciculata* (Michaux) Greene

*covesii* Gray = *Senna covesii* (Gray) Irwin & Barneby

*fasciculata* Michaux var. *fasciculata* = *Chamaecrista fasciculata* (Michaux) Greene

*fasciculata* Michaux var. *rostrata* (Wootton & Standley) B. L. Turner = *Chamaecrista fasciculata* (Michaux) Greene

*leptadenia* Greenman = *Chamaecrista nictitans* (Linnaeus) Moench var. *mensalis*

(Greenman) Irwin & Barneby

*leptadenia* Greenman var. *mensalis* Greenman = *Chamaecrista nictitans* (Linnaeus) Moench

var. *mensalis* (Greenman) Irwin & Barneby

*leptocarpa* Bentham var. *glaberrima* M. E. Jones = *Senna hirsuta* (Linnaeus) Irwin &

Barneby var. *glaberrima* (M.E. Jones) Irwin & Barneby

*lindheimeriana* Scheele = *Senna lindheimeriana* (Scheele) Irwin & Barneby

*orcuttii* (Britton & Rose) B.L. Turner = *Senna orcuttii* (Britton & Rose) Irwin & Barneby

*pumilio* Gray : Reported as expected by M&H map, but not known to occur in NM [Isely 1975].

*roemeriana* Scheele = *Senna roemeriana* (Scheele) Irwin & Barneby

*wislizeni* Gray = *Senna wislizeni* (Gray) Irwin & Barneby

*wrightii* Gray = *Chamaecrista serpens* (Linnaeus) Greene var. *wrightii* (Gray) Irwin & Barneby

*Cercis canadensis* Linnaeus var. *mexicana* (Rose) Hopkins : Reported by Hopkins (1942) and M&H, based on a single specimen of very dubious provenance, supposedly at NY (but currently not found there); no other collections known; awaits verification.

*Cercis mexicana* Rose

*mexicana* Rose = *Cercis canadensis* Linnaeus var. *mexicana* (Rose) Hopkins

***Chamaecrista*** partridge-pea

Irwin, H.S. & R.C. Barneby. 1982. The American Cassinae, a synoptical revision of Leguminosae tribe Cassieae subtribe Cassinae in the New World. Mem. New York Bot. Gard. 35:1-918.

Souza-Conceição, C.A. de, L.P. de Queiroz, G.P. Lewis, M.J.G. de Andrade, P.R.M. de Almeida, A.S. Schnadelbach, & C. van den Berg. 2009. Phylogeny of *Chamaecrista* Moench (Leguminosae-Caesalpinioideae) based on nuclear and chloroplast DNA regions. Taxon 58: 1168-1180.

***fasciculata*** (Michaux) Greene [M&H; W&S]

*Cassia chamaecrista* Linnaeus

*Cassia fasciculata* Michaux

*Cassia fasciculata* Michaux var. *rostrata* (Wootton & Standley) B.L. Turner

*Chamaecrista rostrata* Wootton & Standley

- nictitans* (Linnaeus) Moench var. *leptadenia* (Greenman) Gandhi & Hatch = *Chamaecrista nictitans* (Linnaeus) Moench var. *mensalis* (Greenman) Irwin & Barneby
- nictitans*** (Linnaeus) Moench var. ***leptadenia*** (Greenman) Gandhi & Hatch [M&H; W&S]  
*Cassia leptadenia* Greenman  
*Cassia leptadenia* Greenman var. *mensalis* Greenman  
*Chamaecrista leptadenia* (Greenman) Cockerell  
*Chamaecrista nictitans* (Linnaeus) Moench var. *leptadenia* (Greenman) Gandhi & Hatch  
*Chamaecrista nictitans* (Linnaeus) Moench var. *mensalis* (Greenman) Irwin & Barneby
- rostrata* Wooton & Standley = *Chamaecrista fasciculata* (Michaux) Greene  
*leptadenia* (Greenman) Cockerell = *Chamaecrista nictitans* (Linnaeus) Moench var. *mensalis* (Greenman) Irwin & Barneby
- serpens*** (Linnaeus) Greene var. ***wrightii*** (Gray) Irwin & Barneby [M&H; W&S]  
*Cassia wrightii* Gray  
*Chamaecrista wrightii* (Gray) Wooton & Standley  
*wrightii* (Gray) Wooton & Standley = *Chamaecrista serpens* (Linnaeus) Greene var. *wrightii* (Gray) Irwin & Barneby
- Clitoria mariana* Linnaeus : Reported as expected by M&H; awaits verification.  
*Cnemidophacos confertiflorus* (Gray) Rydberg = *Astragalus flavus* Nuttall var. *flavus flavus* (Nuttall) Rydberg = *Astragalus flavus* Nuttall var. *flavus*
- Cologania*** *cologania*  
 Turner, B.L. 1992. Taxonomic overview of the genus *Cologania* (Fabaceae, *Phaseoleae*). *Phytologia* 73(4):281-301.
- angustifolia*** Kunth [M&H; W&S]  
*Cologania confusa* Rose  
*Cologania intermedia* Kunth  
*Cologania longifolia* Gray  
*broussonettii* of NM reports = *Cologania pallida* Rose  
*confusa* Rose = *Cologania angustifolia* Kunth  
*humifusa* Hemsley = *Cologania obovata* Schlectendal  
*intermedia* Kunth = *Cologania angustifolia* Kunth  
*lemmonii* A. Gray = *Cologania obovata* Schlectendal  
***obovata*** Schlectendal [FNM I]  
*Cologania humifusa* Hemsley  
*Cologania lemmonii* A. Gray
- pallida*** Rose [M&H; W&S]  
*Cologania broussonettii* of NM reports  
*Cologania pulchella* of NM reports  
*longifolia* Gray = *Cologania angustifolia* Kunth  
*pulchella* of NM reports = *Cologania pallida* Rose
- Colutea*** *bladder-senna*  
 Browicz, K. 1963. The genus *Colutea* L., a monograph. *Monographiae Botanicae* 14: 1-135.  
 Sivinski, R.C. 2006. Plant distribution reports. *The New Mexico Botanist* 35:3. [*Colutea arborescens*]  
 \****arborescens*** Linnaeus [Sivinski 2006]
- Coronilla varia* Linnaeus = *Securigera varia* (Linnaeus) Lassen
- Crotalaria*** *rattlebox*  
 Rockinger, A., A.S. Flores, & S.S. Renner. 2017. Clock-dated phylogeny for 48% of the 700 species of *Crotalaria* (Fabaceae–Papilionoideae) resolves sections worldwide and implies conserved flower and leaf traits throughout its pantropical range. *Evol. Biology* 17: 61-74.  
*lupulina* Kunth = *Crotalaria pumila* Ortega  
***pumila*** Ortega [M&H; W&S]  
*Crotalaria lupulina* Kunth  
*sagittalis* Linnaeus : Reported as expected by M&H map; awaits verification.  
*Cystium diphysum* (Gray) Rydberg = *Astragalus lentiginosus* Douglas ex Hooker var. *diphysum* (Gray) M.E. Jones
- Dalea*** *prairie-clover*  
 Barneby, R.C. 1977. *Daleae* Imagines. *Mem. New York Bot. Gard.* 27:1-892.

- Benson, L. & R.A. Darrow. 1981. Trees and Shrubs of the Southwestern Deserts. 3rd ed. Univ. Arizona Press. 416 p. [*Dalea versicolor* var. *sessilis*]
- McMahon, M. & L. Hufford. 2004. Phylogeny of Amorpheae (Fabaceae: Papionoideae). Amer. J. Bot. 91(8): 1219-1230.
- Peterson, R. 2000. On *Dalea compacta* in New Mexico. The New Mexico Botanist 15:5.
- Sivinski, R.C. & K. Lightfoot, eds. 1994. Inventory of rare and endangered plants of New Mexico. New Mexico Forestry and Resources Conservation Division, Misc. Publ. No. 3. [*Dalea pulchra*]
- Turner, B.L. 2011. Systematic study of the *Dalea nana* complex (Fabaceae). Phytologia 93(2):181-184.
- Wemple, D.K. 1970. Revision of the genus *Petalostemon* (Leguminosae). Iowa State J. Sci. 45:1-102.

**albiflora** Gray [Barneby 1977; M&H; W&S]

*Dalea ordiae* Gray

*Parosela albiflora* (Gray) Vail

*Parosela ordiae* (Gray) Heller

*alopecuroides* Willdenow = *Dalea leporina* (Aiton) Bullock

*arenicola* (Wemple) B.L. Turner = *Dalea purpurea* Ventenat var. *arenicola* (Wemple) Barneby

*argyrea* Gray = *Dalea bicolor* Humboldt & Bonpland ex Willdenow var. *argyrea* (Gray) Barneby

**aurea** Nuttall ex Pursh [M&H; W&S]

*Parosela aurea* (Nuttall ex Pursh) Britton

**bicolor** Humboldt & Bonpland ex Willdenow var. **argyrea** (Gray) Barneby

[Barneby 1977; M&H]

*Dalea argyrea* Gray

*Parosela argyrea* (Gray) Heller

**brachystachya** Gray [M&H; W&S]

*Parosela brachystachys* (Gray) Heller

*calycosa* Gray = *Marina calycosa* (Gray) Barneby

*candida* Willdenow s.s. : Reported by various works, but NM plants all seem to belong to *Dalea occidentalis* (Britton & Kearney) Isely; *D. candida* is a species of the eastern Great Plains and eastward.

*Petalostemon candidum* (Muhlenberg ex Willdenow) Michaux

*candida* Willdenow var. *oligophylla* (Torrey) Shinnars = *Dalea occidentalis* (Britton & Kearney) Isely

*compacta* of most NM reports = *Dalea cylindriceps* Barneby

*compacta* Sprengel var. *compacta* : Apparently not occurring in NM (Peterson 2000); see *Dalea cylindriceps* Barneby

*Petalostemon compactum* (Sprengel) Swezey

**compacta** Sprengel var. **pubescens** (Gray) Barneby [Isely 1990; Wemple 1970]

*Petalostemon pulcherrimum* (Heller) Heller

**cylindriceps** Barneby [Barneby 1977; Peterson 2000]

*Dalea compacta* of most NM reports

*Petalostemon compactum* of NM reports

*Petalostemon macrostachyum* Torrey [not *Dalea macrostachya* Moricand]

*Petalostemon pulcherrimum* of NM reports

**enneandra** Nuttall [M&H; W&S]

*Dalea laxiflora* Pursh

*Parosela enneandra* (Nuttall) Britton

**exigua** Barneby [Barneby 1977; M&H; W&S]

*Petalostemon exilis* Gray, non *Dalea exilis* A.P. de Candolle

**filiformis** Gray [M&H; W&S]

*Parosela filiformis* (Gray) Heller

**formosa** Torrey [M&H; W&S]

*Parosela formosa* (Torrey) Vail

**frutescens** Gray [M&H; W&S]

*Parosela frutescens* (Gray) Vail

**glaberrima** S. Watson [Barneby 1977; M&H; W&S]

*Dalea lanata* Sprengel var. *terminalis* (M.E. Jones) Barneby

*Dalea terminalis* M.E. Jones

*Parosela glaberrima* (S. Watson) Rose

- Parosela terminalis* (M.E. Jones) Heller  
**grayi** (Vail) L.O. Williams [M&H; W&S]  
*Dalea laevigata* Gray  
*Parosela grayi* Vail  
*greggii* of NM reports = *Dalea pulchra* H.C. Gentry  
*hutchinsoniae* M.E. Jones var. *anomala* M.E. Jones = *Dalea polygonoides* Gray  
**jamesii** (Torrey) Torrey & Gray [M&H; W&S]  
*Parosela jamesii* (Torrey) Vail  
*Psoralea jamesii* Torrey  
**lachnostachya** Gray [M&H; W&S]  
*Parosela lachnostachya* (Gray) Heller  
*laevigata* Gray = *Dalea grayi* (Vail) L.O. Williams  
**lanata** Sprengel [M&H; W&S]  
*Parosela lanata* (Sprengel) Britton  
*lanata* Sprengel var. *terminalis* (M.E. Jones) Barneby = *Dalea glaberrima* S. Watson  
*laxiflora* Pursh = *Dalea enneandra* Nuttall  
**leporina** (Aiton) Bullock [M&H; W&S]  
*Dalea alba* Michaux  
*Dalea alopecuroides* Willdenow  
*Parosela dalea* of NM reports  
*Psoralea leporina* Aiton  
*mollis* Benthann var. *neomexicana* Gray = *Dalea neomexicana* (Gray) Cory  
**nana** Torrey ex Gray [M&H; W&S]  
*Parosela nana* (Torrey) Heller  
*nana* Torrey ex Gray var. *carnescens* (Rydberg) Kearney & Peebles = *Dalea rubescens* S. Watson  
**neomexicana** (Gray) Cory [M&H]  
*Dalea mollis* Benthann var. *neomexicana* Gray  
**occidentalis** (Britton & Kearney) Isely [Barneby 1977; M&H; W&S]  
*Dalea candida* Willdenow var. *oligophylla* (Torrey) Shinnars  
*Dalea oligophylla* (Torrey) Shinnars  
*Kuhnistera occidentalis* Heller ex Britton & Kearney  
*Petalostemon candidum* (Muhlenberg ex Willdenow) Michaux var. *oligophyllus* (Torrey) F.J. Hermann  
*Petalostemon gracilis* Nuttall var. *oligophyllus* Torrey  
*Petalostemon occidentalis* (Britton & Kearney) Fernald  
*Petalostemon oligophyllum* (Torrey) Rydberg  
*ordiae* Gray = *Dalea albiflora* Gray  
**pogonathera** Gray [M&H; W&S]  
*Parosela pogonathera* (Gray) Vail  
**polygonoides** Gray [Barneby 1977; M&H; W&S]  
*Dalea hutchinsoniae* M.E. Jones var. *anomala* M.E. Jones  
*Dalea polygonoides* Gray var. *anomala* (M.E. Jones) Morton  
*Dalea polygonoides* Gray var. *laevitula* Kearney & Peebles  
*Parosela polygonoides* (Gray) Heller  
*polygonoides* Gray var. *anomala* (M.E. Jones) Morton = *Dalea polygonoides* Gray  
*polygonoides* Gray var. *laevitula* Kearney & Peebles = *Dalea polygonoides* Gray  
**pulchra** H.C. Gentry [Sivinski & Lightfoot 1994]  
*Dalea greggii* of NM reports  
*Parosela greggii* of NM reports  
**purpurea** Ventenat var. *arenicola* (Wemple) Barneby [Isely 1998]  
*Dalea arenicola* (Wemple) B.L. Turner  
*Petalostemon arenicola* Wemple  
**purpurea** Ventenat var. **purpurea** [Barneby 1977; M&H; W&S]  
*Petalostemon molle* Rydberg  
*Petalostemon purpureum* (Ventenat) Rydberg  
*Petalostemon purpureum* (Ventenat) Rydberg var. *molle* (Rydberg) A. Nelson  
*Petalostemon violaceum* Michaux  
**rubescens** Watson [Barneby 1977; M&H]

- Dalea nana* Torrey ex Gray var. *carnescens* (Rydberg) Kearney & Peebles  
*Parosela carnescens* Rydberg
- +*scariosa* S. Watson [Barneby 1977; M&H; W&S]  
*Petalostemon prostratum* Wootton & Standley  
*Petalostemon scariosum* (S. Watson) Wemple
- scoparia* Gray = *Psorothamnus scoparius* (Gray) Rydberg  
*scoparia* Gray var. *subrosea* Cockerell = *Psorothamnus scoparius* (Gray) Rydberg  
*sessilis* (Gray) Tidestrom = *Dalea versicolor* Zuccarini var. *sessilis* (Gray) Barneby
- tenuifolia*** (Gray) Shinnery [Barneby 1977; W&S]  
*Petalostemon tenuifolium* Gray
- terminalis* M.E. Jones = *Dalea glaberrima* S. Watson
- urceolata*** Greene [M&H; W&S]  
*Parosela urceolata* (Greene) Standley
- versicolor*** Zuccarini var. *sessilis* (Gray) Barneby [Benson & Darrow 1981; M&H]  
*Dalea sessilis* (Gray) Tidestrom  
*Dalea wislizeni* of NM reports  
*Dalea wislizeni* Gray var. *sessilis* Gray
- villosa*** (Nuttall) Sprengel [Barneby 1977; M&H]  
*Petalostemon villosum* Nuttall
- wislizeni* sensu M&H = *Dalea versicolor* Zuccarini var. *sessilis* (Gray) Barneby  
*wislizeni* Gray var. *sessilis* Gray = *Dalea versicolor* Zuccarini var. *sessilis* (Gray) Barneby
- wrightii*** Gray [M&H; W&S]  
*Parosela wrightii* (Gray) Vail
- Dermatophyllum*** *sophora*
- Gandhi, K.N., M.A. Vincent, & J.L. Reveal. 2011. *Dermatophyllum*, the correct name for *Calia* (Fabaceae). *Phytoneuron* 2011-57:1-4.
- Heenan, P.B., M.I. Dawson, & S.J. Wagstaff. 2004. The relationship of *Sophora* sect. *Edwardsia* (Fabaceae) to *Sophora tomentosa*, the type species of the genus *Sophora*, observed from DNA sequence data and morphological characters. *Bot. J. Linn. Soc.* 146:439-446.
- Northington, D.K. 1976. Evidence bearing on the origin of infraspecific disjunction in *Sophora gypsophila*. *Plant Syst. Evol.* 125:233-44.
- Sivinski, R.C. 1991. Status report on *Sophora gypsophila* var. *guadalupensis*. For U.S. Fish and Wildlife Service, New Mexico Ecological Services Field Office, Albuquerque.
- Turner, B.L. & A.M. Powell. 1972. A new gypsophilic *Sophora* from north- central Mexico and adjacent Texas. *Phytologia* 22:419-23.
- Turner, B.L. New names in *Dermatophyllum* (Fabaceae). *Phytoneuron* 2012-3:1-4.
- Wojciechowski, M.F., M. Lavin, & M.J. Sanderson. 2004. A phylogeny of legumes (Leguminosae) based on analysis of the plastid *matK* gene resolves many well-supported subclades with the family. *Amer. J. Bot.* 91(11):1846-1862.
- guadalupense*** (Turner & Powell) B.L. Turner [Sivinski 1991]  
*Sophora gypsophila* Turner & Powell subsp. *guadalupense* (Turner & Powell) Vincent  
*Sophora gypsophila* Turner & Powell var. *guadalupensis* Turner & Powell
- secundiflorum*** (Ortega) Gandhi & Reveal [M&H; W&S]  
mescal bean  
*Broussonetia secundiflora* Ortega  
*Sophora secundiflora* (Ortega) Lagasca ex A.P. de Candolle
- Desmanthus*** *bundle-flower*
- Luckow, M. 1993. Monograph of *Desmanthus* (Leguminosae- Mimosoideae). *Syst. Bot. Monogr.* 38:1-166.
- Worthington, R.D. 2003. Plant distribution records. *The New Mexico Botanist* 28:8. [*Desmanthus leptolobus*]
- cooleyi*** (Eaton) Branner & Coville [M&H; W&S]  
*Acacia cooleyi* Eaton  
*Acuan jamesii* (Torrey & Gray) Kuntze  
*Desmanthus jamesii* Torrey & Gray  
*Desmanthus jamesii* Torrey & Gray var. *fendleri* S. Watson
- glandulosus*** (B.L. Turner) Luckow [M&H]  
*Desmanthus virgatus* (Linnaeus) Willdenow var. *glandulosus* B.L. Turner
- illinoensis*** (Michaux) MacMillan ex B.L. Robinson & Fernald [M&H; W&S]  
*Acuan illinoense* (Michaux) Kuntze  
*Mimosa glandulosa* Michaux

*Mimosa illinoensis* Michaux

*jamesii* Torrey & Gray = *Desmanthus cooleyi* (Eaton) Branner & Coville

*jamesii* Torrey & Gray var. *fendleri* S. Watson = *Desmanthus cooleyi* (Eaton) Branner & Coville

\**leptolobus* Torrey & Gray [Worthington 2003]

***obtusus*** S. Watson [M&H]

*Acuan fallax* Small

*Acuan obtusum* (S. Watson) Heller

***velutinus*** Scheele [M&H]

*Acuan velutinum* (Scheele) Kuntze

*virgatus* (Linnaeus) Willdenow var. *glandulosus* B.L. Turner = *Desmanthus glandulosus* (B.L. Turner) Luckow

***Desmodium*** tick-trefoil

Ohashi, H. 2013. New combinations in North American *Desmodium* (Leguminosae: Tribe Desmodieae). J. Jpn. Bot. 88: 166-175.

Ohashi, K., H. Ohashi, T. Nemoto, T. Ikeda, H. Izumi, H. Kobayashi, H. Muragaki, K. Nata, N. Sato, & M. Suzuki. 2018. Phylogenetic analyses for a new classification of the *Desmodium* Group of Leguminosae, tribe Desmodieae. J. Jpn. Bot. 93(3): 165-189.

Schubert, B.G. 1950. *Desmodium*: Preliminary studies-III. Rhodora 52:135-155.

Vail, A.M. 1896. Studies in the Leguminosae I. Notes on *Meibomia*. Bull. Torrey Bot. Club 23:139-141. [*Desmodium psilophyllum*]

Worthington, R.D. 2003. Plant distribution records. The New Mexico Botanist 28:8. [*Desmodium procumbens*]

***arizonicum*** S. Watson [M&H; W&S]

*Meibomia arizonica* (S. Watson) Vail

***batocaulon*** Gray [M&H; W&S]

*Meibomia batocaulis* (Gray) Kuntze

*bigelovii* A. Gray = *Desmodium procumbens* (Millspaugh) A.S. Hitchcock var. *neomexicanum* (A. Gray) H. Ohashi

*exiguum* A. Gray = *Desmodium procumbens* (Millspaugh) A.S. Hitchcock var. *procumbens*

***grahamii*** Gray [M&H; W&S]

*Meibomia grahamii* (Gray) Kuntze

***metcalfei*** (Rose & Painter) Kearney & Peebles [M&H; W&S]

*Meibomia metcalfei* Rose & Painter

*neomexicanum* A. Gray = *Desmodium procumbens* (Millspaugh) A.S. Hitchcock var. *neomexicanum* (A. Gray) H. Ohashi

*neomexicanum* A. Gray var. *bigelovii* (A. Gray) S. Watson = *Desmodium procumbens* (Millspaugh) A.S. Hitchcock var. *neomexicanum* (A. Gray) H. Ohashi

*procumbens* (Millspaugh) A.S. Hitchcock var. *exiguum* (A. Gray) Schubert = *Desmodium procumbens* (Millspaugh) A.S. Hitchcock var. *procumbens*

***procumbens*** (Miller) A.S. Hitchcock var. ***neomexicanum*** (A. Gray) H. Ohashi [M&H; W&S]

*Desmodium bigelovii* A. Gray

*Desmodium neomexicanum* A. Gray var. *bigelovii* (A. Gray) S. Watson

*Desmodium spirale* (Swartz) de Candolle var. *bigelovii* (A. Gray) B.L. Robinson & J.L. Greenman

*Meibomia bigelovii* (A. Gray) Kuntze

*Meibomia neomexicana* (A. Gray) Kuntze

***procumbens*** (Miller) A.S. Hitchcock var. ***procumbens*** [Worthington 2003]

*Desmodium exiguum* A. Gray

*Desmodium procumbens* (Miller) A.S. Hitchcock var. *exiguum* (A. Gray) Schubert

*Hedysarum procumbens* Miller

***psilocarpum*** A. Gray [Isely 1998]

*psilophyllum* Schlechtendal : Reported by Vail (1896) and others, based on a single Charles Wright specimen collected in conjunction with the US-Mexican Boundary Survey and erroneously labeled as from NM; specimens so labeled likely came from Texas or Arizona, where this species occurs; no authentic specimens are known from NM.

*Desmodium wrightii* A. Gray



**rosei** Schubert [M&H]

*spirale* (Swartz) de Candolle var. *bigelovii* (A. Gray) B.L. Robinson & J.L. Greenman =  
Desmodium procumbens (Millsbaugh) A.S. Hitchcock var. *neomexicanum*  
(A. Gray) H. Ohashi

*wrightii* A. Gray = Desmodium psilophyllum Schlechtendal

*Diholcos bisulcatus* (Hooker) Rydberg = Astragalus bisulcatus (Hooker) Gray var. *bisulcatus*

*heydenianus* (Gray) Rydberg = Astragalus bisulcatus (Hooker) Gray var. *bisulcatus*

*oocalycis* (M.E. Jones) Rydberg = Astragalus oocalycis M.E. Jones

*Dolicholus texanus* (Torrey & A. Gray) Vail = Rhynchosia texana Torrey & Gray

*Earleocassia bauhinioides* (Gray) Britton & Rose = Senna bauhinioides (Gray) Irwin & Barneby

*covesii* (Gray) Britton & Rose = Senna covesii (Gray) Irwin & Barneby

*lindheimeriana* (Scheele) Britton = Senna lindheimeriana (Scheele) Irwin & Barneby

*roemeriana* (Scheele) Britton = Senna roemeriana (Scheele) Irwin & Barneby

*Ervum multiflorum* Pursh = Astragalus multiflorus (Pursh) Gray

**Erythrina** coral-bean

Krukoff, B.A. & R.C. Barneby. 1974. Conspectus of species of the genus *Erythrina*. Lloydia 37:332-459.

Lewis, G.P. 1998. *Caesalpinia*: a revision of the *Poincianella-Erythrostemon* group. Univ. Chicago Press. 233 pp.

Nesom, G.L. 2015. Key to native and cultivated species of *Erythrina* (Fabaceae) in the USA and comments on naturalization of *E. crista-galli*. Phytoneuron 2015-29: 1-8.

**flabelliformis** Kearney [M&H; W&S]

**Erythrostemon** bird-of-paradise

**gilliesii** (Wallich ex Hooker) Klotzsch [M&H; W&S]

*Caesalpinia gilliesii* (Wallich ex Hooker) Benthham

*Poinciana gilliesii* Wallich ex Hooker

**Eysenhardtia** kidneywood

Lang, J.M. & D. Isely. 1982. *Eysenhardtia* (Leguminosae: Papilionoideae). Iowa State Journ. Res. 56: 393-417.

*amorphoides* Kunth var. *orthocarpa* A. Gray = Eysenhardtia orthocarpa (A. Gray) S. Watson

*polystachya* of NM reports = Eysenhardtia orthocarpa (A. Gray) S. Watson

**orthocarpa** (A. Gray) S. Watson [M&H; W&S]

*Eysenhardtia amorphoides* Kunth var. *orthocarpa* A. Gray

*Eysenhardtia polystachya* of NM reports

*Viborquia orthocarpa* (A. Gray) Cockerell

**Galactia** milk-pea

Nesom, G.L. 2015. Taxonomy of *Galactia* (Fabaceae) in the USA. Phytoneuron 2015-42: 1-54.

*tephrodes* A. Gray = Galactia wrightii A. Gray var. *wrightii*

**wrightii** A. Gray var. **wrightii** [M&H; W&S]

*Galactia wrightii* A. Gray var. *mollissima* Kearney & Peebles

*Galactia tephrodes* A. Gray

*wrightii* A. Gray var. *mollissima* Kearney & Peebles = Galactia wrightii A. Gray

*Geoprimum crassicaarpum* (Nuttall) Rydberg = Astragalus crassicaarpus Nuttall var. *crassicaarpus*

**Gleditsia** honey-locust

Allred, K.W. 1999. New plant distribution records. The New Mexico Botanist 13:7. [*Gleditsia triacanthos*]

**\*triacanthos** Linnaeus [Allred 1999]

**Glycyrrhiza** licorice

**lepidota** Nuttall ex Pursh [M&H; W&S]

*Glycyrrhiza glutinosa* Nuttall

*Glycyrrhiza lepidota* Nuttall ex Pursh var. *glutinosa* (Nuttall) S. Watson

*Liquiritia lepidota* Nuttall

*Hamosa austrina* Small = Astragalus nuttallianus A.P. de Candolle var. *austrinus* (Small) Barneby

*emoryana* Rydberg = Astragalus emoryanus (Rydberg) Cory

*feensis* (M.E. Jones) Rydberg = Astragalus feensis M.E. Jones

*imperfecta* Rydberg = Astragalus nuttallianus A.P. de Candolle var. *imperfectus* (Rydberg) Barneby

*macilenta* Small = Astragalus nuttallianus A.P. de Candolle var. *macilentus* (Small) Barneby

*nothoxys* (Gray) Rydberg = Astragalus nothoxys Gray

*scaposa* (Gray) Rydberg = *Astragalus calycosus* Torrey ex S. Watson var. *scaposus* (Gray) M.E. Jones

*vaccarum* (Gray) Rydberg = *Astragalus vaccarum* Gray

**Hedysarum** sweet-vetch

Liu, P.-L., J. Wen, L. Duan, E. Arslan, K. Ertugrul, & Z.-Y. Chang. 2017. *Hedysarum* L. (Fabaceae: Hedysareae) is not monophyletic – Evidence from phylogenetic analyses based on five nuclear and five plastid sequences. *PLoS ONE* 12(1): e0170596. doi:10.1371/journal.pone.0170596  
 Welsh, S.L. 1995. Names and types of *Hedysarum* L. (Fabaceae) in North America. *Great Basin Naturalist* 55(1): 66-73.

**boreale** Nuttall [Isely 1998; M&H; W&S]

*Hedysarum pabulare* A. Nelson

*Hedysarum boreale* Nuttall var. *cinerascens* (Rydberg) Rollins

*Hedysarum cinerascens* Rydberg

*boreale* Nuttall var. *cinerascens* (Rydberg) Rollins = *Hedysarum boreale* Nuttall

*cinerascens* Rydberg = *Hedysarum boreale* Nuttall

*onobrychis* Linnaeus = *Onobrychis viciifolia* Scopoli

*pabulare* A. Nelson = *Hedysarum boreale* Nuttall

*procumbens* Miller = *Desmodium procumbens* (Miller) A.S. Hitchcock

**Hoffmannseggia** hog-potato

Simpson, B.B. & B. Miao. 1997. The circumscription of *Hoffmannseggia* (Fabaceae, Caesalpinioideae, Caesalpinieae) and its allies using morphological and cpDNA restriction site data. *Pl. Syst. Evol.* 205:157-178.

Simpson, B.B., J.A. Tate, & A. Weeks. 2004. Phylogeny and Character Evolution of *Hoffmannseggia* (Caesalpinieae: Caesalpinioideae: Leguminosae). *Syst. Bot.* 29(4): 933-946.

Simpson, B.B. & E.A. Ulibarri. 2006. A synopsis of the genus *Hoffmannseggia* (Leguminosae). *Lundellia* 9: 7-33.

*brachycarpa* A. Gray : Reported as expected by M&H map; the type, collected by Charles Wright, stated "New Mexico", but no other specimens are known from the state; awaits verification.

*caudata* A. Gray : Reported as expected by M&H map; awaits verification.

*Schrammia caudata* (A. Gray) Britton & Rose

*densiflora* Benthams = *Hoffmannseggia glauca* (Ortega) Eifert

***drepanocarpa*** A. Gray [M&H; W&S]

*Caesalpinia drepanocarpa* (A. Gray) E.M. Fisher

***glauca*** (Ortega) Eijert [M&H; W&S]

*Hoffmannseggia densiflora* Benthams

*Larrea glauca* Ortega

*jamesii* Torrey & A. Gray = *Pomaria jamesii* (Torrey & A. Gray) Walpers

*Homalobus canovirens* Rydberg = *Astragalus canovirens* (Rydberg) Barneby

*hallii* (Gray) Rydberg = *Astragalus hallii* Gray var. *hallii*

*oblongifolius* Rydberg = *Astragalus miser* Douglas var. *oblongifolius* (Rydberg) Cronquist

*proximus* Rydberg = *Astragalus proximus* (Rydberg) Wootton & Standley

*standleyi* Rydberg = *Astragalus multiflorus* (Pursh) Gray

*wingatanus* (S. Watson) Rydberg = *Astragalus wingatanus* S. Watson

*Hosackia brachycarpa* Benthams = *Acmispon brachycarpus* (Benthams) D.D. Sokoloff

*plebeia* Brandegees = *Acmispon plebeius* (Brandegees) Allred

*purshiana* Benthams = *Acmispon americanus* (Nuttall) Rydberg

*rigida* Benthams var. *nummularia* M.E. Jones = *Acmispon plebeius* (Brandegees) Allred

*unifoliolata* Hooker = *Acmispon americanus* (Nuttall) Rydberg

*wrightii* A. Gray = *Acmispon wrightii* (A. Gray) L. Brouillet

**Indigofera** indigo

Schrire, B.D., M. Lavin, N.P. Barker, & F. Forest. 2009. Phylogeny of the tribe Indigoferae (Leguminosae – Papilionoideae): Geographically structured more in succulent-rich and temperate settings than in grass-rich environments. *Amer. J. Bot.* 96(4): 816-852.

***sphaerocarpa*** A. Gray [M&H]

*Amorpha ovalis* M.E. Jones

*Jonsiella ellisiae* Rydberg = *Astragalus praelongus* Sheldon var. *praelongus*

*pattersonii* (Gray) Rydberg = *Astragalus pattersonii* Gray in Brandegees

*recedens* Greene = *Astragalus praelongus* Sheldon var. *praelongus*

*Krameria*...go to KRAMERIACEAE

**Kummerowia** Japanese-clover

Nemoto, T., J. Yokoyama, T. Fukuda, Y. Iokawa, H. Ohashi. 2010. Phylogeny of *Lespedeza* (Leguminosae) based on chloroplast *trnL-trnF* sequences. J. Jpn. Bot. 85: 213-229.

Ohashi, H. & T. Nemoto. 2014. A new system of *Lespedeza* (Leguminosae tribe Desmodieae). J. Jpn. Bot. 89: 1-11.

**striata** (Thunberg) Schindler [FNM I]

*Lespedeza striata* (Thunberg) Hooker & Arnott

*Kuhnistera occidentalis* Heller ex Britton & Kearney = *Dalea occidentalis* (Britton & Kearney) Isely

Lablab purpureus (Linnaeus) Sweet : Collected from Roswell, Chaves County, in 1986 (*A. Ahlquist s.n.* RM) without further information; presumed to be a cultivated or ornamental plant; not known in the wild or from any other specimens.

**Ladeania** ladeania

Egan, A.N. & K.A. Crandall. 2008. Incorporating gaps as phylogenetic characters across eight DNA regions: Ramifications for North American Psoraleae (Leguminosae). Molec. Phylogen. Evol. 46: 532-546.

Egan, A.N. & J.L. Reveal. 2009. A new combination in *Pediomelum* and a new genus, *Ladeania*, from western North America (Fabaceae, Psoraleae). Novon 19: 310-314.

Grimes, J.W. 1990. A revision of the New World species of Psoraleae (Leguminosae: Papilionoideae). Mem. N.Y. Bot. Gard. 61:1-113.

**lanceolata** (Pursh) Egan & Reveal [M&H; W&S]

*Psoralea lanceolata* Pursh

*Psoralea micrantha* Torrey

*Psoralidium lanceolatum* (Pursh) Rydberg

*Psoralidium micranthum* (Gray) Rydberg

**Lathyrus** sweetpea

Allred, K.W. 2003. Plant distribution reports. The New Mexico Botanist 25:7. [*Lathyrus brachycalyx zionis*]

Broich, S.L. 2009. A new combination in North American *Lathyrus*. Phytologia 91(3):566-567. [*Lathyrus decaphyllus incanus*]

Heil, K.D., S.L. O'Kane, & A. Clifford. 2002. Additions to the flora of New Mexico from the San Juan Basin Flora project. The New Mexico Botanist 24:1-4. [*Lathyrus pauciflorus utahensis*]

Hitchcock, C.L. 1952. A revision of the North American species of *Lathyrus*. Univ. Wash. Publ. Biol. 15:1-104.

Johnson, S. & K.W. Allred. 2003. A taxonomic review of the tendrill-bearing legumes (Leguminosae) in New Mexico. I. *Lathyrus*. The New Mexico Botanist 25:1-7.

Oskoueiyani, R. S.K. Osaloo, & A. Amirahmadi. 2014. Molecular phylogeny of the genus *Lathyrus* (Fabaceae-Fabeae) based on cpDNA matK sequence in Iran. Iran J. Biotech. 12(2): 41-48.

Schaefer, H., P. Hechenleitner, A. Santos-Guerra, M. Menezes de Sequeira, R.T. Pennington, G. Kenicer, & M.A. Carines. 2012. Systematics, biogeography, and character evolution of the legume tribe Fabeae with special focus on the middle-Atlantic island lineages. Evolutionary Biology 12(250): 1-19.

Spellenberg, R., R. Worthington, P. Knight, & R. Fletcher. 1986. Additions to the flora of New Mexico. Sida 11(4):455-470. [*Lathyrus latifolius*]

**arizonicus** Britton [Johnson & Allred 2003; M&H; W&S]

**brachycalyx** Rydberg var. **zionis** (C.L. Hitchcock) Welsh [Allred 2003; Johnson & Allred 2003]

*Lathyrus zionis* C.L. Hitchcock

**decaphyllus** Pursh var. **incanus** (J.G. Smith & Rydberg) S.L. Broich [Johnson & Allred 2003; M&H; W&S]

*Lathyrus incanus* (J.G. Smith & Rydberg) Rydberg

*Lathyrus ornatus* Nuttall var. *incanus* J.G. Smith & Rydberg

*Lathyrus polymorphus* Nuttall subsp. *incanus* (J.G. Smith & Rydberg) C.L. Hitchcock

**eucosmus** Butters & St. John [Johnson & Allred 2003; M&H; W&S]

**graminifolius** (S. Watson) White [Johnson & Allred 2003; M&H; W&S]

*Lathyrus palustris* Linnaeus var. *graminifolius* S. Watson

**\*hirsutus** Linnaeus [Isely 1998; Johnson & Allred 2003]

*incanus* (Smyth & Rydberg) Rydberg = *Lathyrus decaphyllus* Pursh var. *incanus* (J.G. Smith & Rydberg) S.L. Broich

*laetivirens* Green ex Rydberg : Reported by various authors, but not in NM in the circumscription of Johnson & Allred (2003).

*Lathyrus lanzwertii* Kellogg var. *laetivirens* (Greene ex Rydberg) Welsh

- Lathyrus leucanthus* Rydberg var. *laetivirens* (Greene ex Rydberg) C.L. Hitchcock  
*lanszwertii* Kellogg var. *lanszwertii* : Reported by Isely (1998), but not in NM in the circumscription of Johnson & Allred (2003).  
*lanszwertii* Kellogg var. *laetivirens* (Greene ex Rydberg) Welsh = *Lathyrus laetivirens* Greene ex Rydberg  
*lanszwertii* Kellogg var. *leucanthus* (Rydberg) Dorn = *Lathyrus leucanthus* Rydberg  
*lanszwertii* Kellogg var. *pallescens* Barneby : Reported by Barneby (1989), but not in NM in the circumscription of Johnson & Allred (2003).  
**\*latifolius** Linnaeus [Johnson & Allred 2003; Spellenberg et al. 1986]  
*leucanthus* Rydberg var. *laetivirens* (Greene ex Rydberg) C.L. Hitchcock = *Lathyrus laetivirens* Greene ex Rydberg  
**leucanthus** Rydberg [Johnson & Allred 2003; M&H; W&S]  
*Lathyrus lanszwertii* Kellogg var. *leucanthus* (Rydberg) Dorn  
*oreophilus* Wootton & Standley = *Lathyrus venosus* Muhlenberg ex Willdenow var. *intonsus* (Butters & St. John) C.L. Hitchcock  
*ornatus* Nuttall var. *incanus* Smyth & Rydberg = *Lathyrus decaphyllus* Pursh var. *incanus* (J.G. Smith & Rydberg) S.L. Broich  
*palustris* Linnaeus var. *graminifolius* S. Watson = *Lathyrus graminifolius* (S. Watson) White  
*parvifolius* S. Watson : Reported by W&S, but this is a Mexican species not found in NM [Hitchcock 1952].  
*pauciflorus* Fernald var. *utahensis* (M.E. Jones) Piper ex M.E. Peck : Reported by Heil et al. (2002), but the specimen in question ([Heil & Miettý 14908](#)) is corrected to *Lathyrus eucosmus* [Johnson & Allred 2003].  
*polymorphus* Nuttall subsp. *incanus* (J.G. Smith & Rydberg) C.L. Hitchcock = *Lathyrus decaphyllus* Pursh var. *incanus* (J.G. Smith & Rydberg) S.L. Broich  
*polymorphus* Nuttall subsp. *polymorphus* (= *Lathyrus decaphyllus* Pursh var. *decaphyllus*) : Reported as expected by M&H map; awaits verification.  
*tingitanus* Linnaeus : Planted at Bosque del Apache (Socorro Co.) in 1957, but not persisting and not known in the wild in NM [Johnson & Allred 2003].  
**\*venosus** Muhlenberg ex Willdenow [Johnson & Allred 2003; M&H; W&S]  
*Lathyrus oreophilus* Wootton & Standley  
*Lathyrus venosus* Muhlenberg ex Willdenow var. *intonsus* Butters & St. John  
*venosus* Muhlenberg ex Willdenow var. *intonsus* Butters & St. John = *Lathyrus venosus* Muhlenberg ex Willdenow  
*zionis* C.L. Hitchcock = *Lathyrus brachycalyx* Rydberg var. *zionis* (C.L. Hitchcock) Welsh  
*Leptoglottis occidentalis* (Wootton & Standley) Britton & Rose = *Mimosa quadrivalvis* Linnaeus var. *occidentalis* (Wootton & Standley) Barneby  
**Lespedeza** bush-clover  
 Nemoto, T., J. Yokoyama, T. Fukuda, Y. Iokawa, H. Ohashi. 2010. Phylogeny of *Lespedeza* (Leguminosae) based on chloroplast *trnL-trnF* sequences. *J. Jpn. Bot.* 85: 213-229.  
 Ohashi, H. & T. Nemoto. 2014. A new system of *Lespedeza* (Leguminosae tribe Desmodieae). *J. Jpn. Bot.* 89: 1-11.  
**cuneata** (Dumont) G. Don [FNM I]  
*Anthyllis cuneata* G. Don  
*striata* (Thunberg) Hooker & Arnott = *Kummerowia striata* (Thunberg) Schindler  
**Leucaena** leadtree  
 Hughes, C. 1998. Monograph of *Leucaena* (Leguminosae-Mimosoideae). *Syst. Bot. Monogr.* 55:1-244. [*Leucaena retusa*]  
**retusa** Benthham [Hughes 1998]  
*Liquiritia lepidota* Nuttall = *Glycyrrhiza lepidota* Nuttall ex Pursh  
**Lotus** trefoil  
 Barneby, R.C. 1989. *Lotus*, pp. 190-198. IN: Intermountain Flora, vol. 3. New York Botanical Garden.  
 Brouillet, L. 2008. The taxonomy of North American *Loti* (Fabaceae: Loteae): New names in *Acmispou* and *Hosackia*. *J. Bot. Res. Inst. Texas* 2(1):387-394.  
 Isely, D. 1981. Leguminosae of the United States:III. Subfamily Papilionoideae: Tribes Sophoreae, Podalyriaeae, Loteae. *Mem. N.Y. Bot. Gard.* 25(3):1-264.  
 Ottley, A.M. 1944. The American *Loti* with special consideration of a proposed new section, *Simpeteria*. *Brittonia* 5:81-123.  
*americanus* (Nuttall) Rydberg = *Lotus unifoliolatus* (Hooker) Benthham

**\*corniculatus** Linnaeus [M&H]

birds-foot trefoil

*Lotus corniculatus* Linnaeus subsp. *tenuis* (Waldstein & Kitaibel ex Willdenow) Syme*Lotus tenuis* Waldstein & Kitaibel ex Willdenow*corniculatus* Linnaeus subsp. *tenuis* (Waldstein & Kitaibel ex Willdenow) Syme = *Lotus corniculatus* Linnaeus*greenii* Wooton & Standley = *Acmispon neomexicanus* (Greene) L. Brouillet*humistratus* Greene = *Acmispon brachycarpus* (Benth) D.D. Sokoloff*neomexicanus* Greene = *Acmispon neomexicanus* (Greene) L. Brouillet× *nummularius* (M.E. Jones) Tidestrom = *Acmispon plebeius* (Brandegee) Allred*oroboides* of New Mexico authors = *Acmispon plebeius* (Brandegee) Allred*oroboides* (Kunth) Ottley var. *nanus* (A. Gray) Isely = *Acmispon plebeius* (Brandegee) Allred*oroboides* (Kunth) Ottley var. *nummularis* (Jones) Isely = *Acmispon plebeius* (Brandegee) Allred*oroboides* (Kunth) Ottley var. *plebeius* (Brandegee) Ottley = *Acmispon plebeius* (Brandegee) Allred*plebeius* (Brandegee) Barneby = *Acmispon plebeius* (Brandegee) Allred*puberulus* (Benth) Greene = *Acmispon plebeius* (Brandegee) Allred*purshianus* (Benth) Clements & Clements = *Acmispon americanus* (Nuttall) Rydberg*rigidus* of NM reports = *Acmispon wrightii* (A. Gray) L. Brouillet*tenuis* Waldstein & Kitaibel ex Willdenow = *Lotus corniculatus* Linnaeus*trispermus* Greene = *Acmispon brachycarpus* (Benth) D.D. Sokoloff*unifoliolatus* (Hooker) Benth = *Acmispon americanus* (Nuttall) Rydberg*wrightii* (A. Gray) Greene = *Acmispon wrightii* (A. Gray) L. Brouillet**Lupinus** lupineBarneby, R.C. 1989. *Lupinus*, pp. 237-267. IN: Intermountain Flora, vol. 3. New York Botanical Garden. Great Plains Flora Association. 1977. Atlas of the Flora of the Great Plains. Iowa State Univ. Press. 600 pp.[*Lupinus argenteus parviflorus*]Heil, K.D., S.L. O'Kane, & A. Clifford. 2002. Additions to the flora of New Mexico from the San Juan Basin Flora project. *The New Mexico Botanist* 24:1-4. [*Lupinus lepidus utahensis*]Heil, K. 2007. Plant distribution reports [*Lupinus argenteus moabensis*]. *The New Mexico Botanist* 39:7.Peterson, R.S. 2000. New plant distribution records. *The New Mexico Botanist* 15:7. [*Lupinus argenteus argentatus*]*aduncus* Greene = *Lupinus argenteus* Pursh var. *argophyllus* (Gray) Welsh*alpestris* A. Nelson = *Lupinus argenteus* Pursh var. *rubricaulis* (Greene) Welsh*ammophilus* Greene = *Lupinus polyphyllus* Lindley var. *ammophilus* (Greene) Barneby*ammophilus* Greene var. *crassus* (Payson) Isely = *Lupinus polyphyllus* Lindley var. *ammophilus* (Greene) Barneby*amplus* Greene = *Lupinus sericeus* Pursh*aquilinus* Wooton & Standley = *Lupinus sierrae-blancae* Wooton & Standley subsp. *aquilinus* (Wooton & Standley) Fleak & D. Dunn***argenteus*** Pursh var. ***argentatus*** (Rydberg) Barneby [Barneby 1989; Peterson 2000]*Lupinus decumbens* Torrey var. *argentatus* Rydberg***argenteus*** Pursh var. ***argenteus*** [M&H]*Lupinus argenteus* Pursh var. *laxiflorus* (Douglas ex Lindley) Dorn*Lupinus argenteus* Pursh var. *stenophyllus* (Nuttall) Davis*Lupinus latifolius* of some NM reports*Lupinus sitgreavesii* S. Watson***argenteus*** Pursh var. ***argophyllus*** (Gray) S. Watson*Lupinus aduncus* Greene*Lupinus argophyllus* (Gray) Cockerell*Lupinus caudatus* Kellogg subsp. *argophyllus* (Gray) Phillips*Lupinus caudatus* Kellogg var. *argophyllus* (Gray) Welsh*Lupinus cutleri* Eastwood*Lupinus decumbens* Torrey var. *argophyllus* Gray*Lupinus helleri* Greene*Lupinus plattensis* S. Watson***argenteus*** Pursh var. ***fulvomaculatus*** (Payson) Barneby [M&H; W&S]*Lupinus fulvomaculatus* Payson

- Lupinus ingratus* Greene  
**argenteus** Pursh var. **hillii** (Greene) Barneby [Isely 1998; M&H]  
*Lupinus hillii* Greene  
*Lupinus osterhoutianus* C.P. Smith  
*argenteus* Pursh var. *laxiflorus* (Douglas ex Lindley) Dorn = *Lupinus argenteus* Pursh var. *argenteus*  
**argenteus** Pursh var. **moabensis** S. Welsh [Heil 2007]  
*argenteus* Pursh var. *myrianthus* (Greene) Isely = *Lupinus argenteus* Pursh var. *parviflorus* (Nuttall ex Hooker & Arnott) C.L. Hitchcock  
**argenteus** Pursh var. **palmeri** (S. Watson) Barneby [M&H; W&S]  
*Lupinus palmeri* S. Watson  
**argenteus** Pursh var. **parviflorus** (Nuttall ex Hooker & Arnott) C.L. Hitchcock [Great Plains Flora Association 1977; M&H]  
*Lupinus floribundus* Greene  
*Lupinus myrianthus* Greene  
*Lupinus parviflorus* Nuttall ex Hooker & Arnott  
**argenteus** Pursh var. **rubricaulis** (Greene) Welsh [M&H]  
*Lupinus alpestris* A. Nelson  
*Lupinus rubricaulis* Greene  
*argenteus* Pursh var. *stenophyllus* (Nuttall) Davis = *Lupinus argenteus* Pursh var. *argenteus*  
*argenteus* Pursh var. *utahensis* of NM reports = *Lupinus argenteus* Pursh var. *argophyllus* (Gray) S. Watson  
*argillaceus* Wooton & Standley = *Lupinus kingii* S. Watson  
*argophyllus* (Gray) Cockerell = *Lupinus argenteus* Pursh var. *argophyllus* (Gray) S. Watson  
*aridus* Douglas ex Lindley var. *utahensis* S. Watson = *Lupinus lepidus* Douglas ex Lindley var. *utahensis* (S. Watson) C.L. Hitchcock  
*bakeri* Greene = *Lupinus sericeus* Pursh  
*blumeri* Greene = *Lupinus neomexicanus* Greene  
**brevicaulis** S. Watson [M&H; W&S]  
*Lupinus dispersus* Heller  
*caespitosus* Nuttall = *Lupinus lepidus* Douglas ex Lindley var. *utahensis* (Watson) C.L. Hitchcock  
*caudatus* Kellogg var. *argophyllus* (Gray) Welsh = *Lupinus argenteus* Pursh var. *argophyllus* (Gray) S. Watson  
*caudatus* Kellogg subsp. *argophyllus* (Gray) Phillips = *Lupinus argenteus* Pursh var. *argophyllus* (Gray) S. Watson  
*caudatus* Kellogg var. *cutleri* (Eastwood) Welsh = *Lupinus argenteus* Pursh var. *argophyllus* (Gray) S. Watson  
*caudatus* Kellogg var. *utahensis* of NM reports = *Lupinus argenteus* Pursh var. *argophyllus* (Gray) S. Watson  
**concinus** Agardh [M&H; W&S]  
*Lupinus concinus* Agardh var. *orcuttii* (S. Watson) C.P. Smith  
*Lupinus micensis* M.E. Jones  
*Lupinus orcuttii* S. Watson  
*crassus* Payson = *Lupinus polyphyllus* Lindley var. *ammophilus* (Greene) Barneby  
*cutleri* Eastwood = *Lupinus argenteus* Pursh var. *argophyllus* (Gray) S. Watson  
*decumbens* Torrey var. *argentatus* Rydberg = *Lupinus argenteus* Pursh var. *argentatus* (Rydberg) Barneby  
*decumbens* Torrey var. *argophyllus* Gray = *Lupinus argenteus* Pursh var. *argophyllus* (Gray) S. Watson  
*dispersus* Heller = *Lupinus brevicaulis* S. Watson  
*floribundus* Greene = *Lupinus argenteus* Pursh var. *parviflorus* (Nuttall ex Hooker & Arnott) C.L. Hitchcock  
*fulvomaculatus* Payson = *Lupinus argenteus* Pursh var. *fulvomaculatus* (Payson) Barneby  
*helleri* Greene = *Lupinus argenteus* Pursh var. *argophyllus* (Gray) S. Watson  
*hillii* Greene = *Lupinus argenteus* Pursh var. *hillii* (Greene) Barneby  
*ingratus* Greene = *Lupinus argenteus* Pursh var. *fulvomaculatus* (Payson) Barneby  
**kingii** S. Watson [M&H; W&S]  
*Lupinus argillaceus* Wooton & Standley  
*Lupinus kingii* S. Watson var. *argillaceus* (Wooton & Standley) C.P. Smith

- Lupinus sileri* S. Watson  
*kingii* S. Watson var. *argillaceus* (Wooton & Standley) C.P. Smith = *Lupinus kingii* S. Watson
- laetus* Wooton & Standley = *Lupinus sierrae-blancae* Wooton & Standley  
*latifolius* of NM reports = *Lupinus argenteus* Pursh, *Lupinus neomexicanus* Greene, and *Lupinus sierrae-blancae* Wooton & Standley
- Lupinus latifolius* Lindley ex Agardh var. *leucanthus* (Rydberg) Isely
- lepidus*** Douglas ex Lindley var. ***utahensis*** (S. Watson) C.L. Hitchcock [Heil et al. 2002]  
*Lupinus aridus* Douglas ex Lindley var. *utahensis* S. Watson  
*Lupinus caespitosus* Nuttall
- leucanthus* Rydberg = *Lupinus latifolius* Lindley ex Agardh var. *leucanthus* (Rydberg) Isely  
*micensis* M.E. Jones = *Lupinus concinnus* Agardh  
*myrianthus* Greene = *Lupinus argenteus* Pursh var. *parviflorus* (Nuttall ex Hooker & Arnott) C.L. Hitchcock
- neomexicanus*** Greene [M&H; W&S]  
*Lupinus blumeri* Greene  
*Lupinus latifolius* of some NM reports
- orcuttii* S. Watson = *Lupinus concinnus* Agardh  
*osterhoutianus* C.P. Smith = *Lupinus argenteus* Pursh var. *hillii* (Greene) Barneby  
*palmeri* S. Watson = *Lupinus argenteus* Pursh var. *palmeri* (S. Watson) Barneby  
*parviflorus* Nuttall ex Hooker & Arnott = *Lupinus argenteus* Pursh var. *parviflorus* (Nuttall ex Hooker & Arnott) C.L. Hitchcock
- plattensis* S. Watson = *Lupinus argenteus* Pursh var. *argophyllus* (A. Gray) S. Watson
- polyphyllus*** Lindley var. ***ammophilus*** (Greene) Barneby [M&H; W&S]  
*Lupinus ammophilus* Greene  
*Lupinus ammophilus* Greene var. *crassus* (Payson) Isely  
*Lupinus crassus* Payson
- polyphyllus*** Lindley var. ***prunophilus*** (M.E. Jones) L. Phillips [W&S]  
*Lupinus prunophilus* M.E. Jones  
*prunophilus* M.E. Jones = *Lupinus polyphyllus* Lindley var. *prunophilus* (M.E. Jones) L. Phillips
- pusillus*** Pursh [M&H; W&S]  
*Lupinus pusillus* Pursh var. *intermontanus* (Heller) C. P. Smith  
*Lupinus pusillus* Pursh var. *rubens* (Rydberg) Welsh  
*Lupinus rubens* Rydberg
- pusillus* Pursh var. *rubens* (Rydberg) Welsh = *Lupinus pusillus* Pursh  
*pusillus* Pursh var. *intermontanus* (Heller) C. P. Smith = *Lupinus pusillus* Pursh  
*rubens* Rydberg = *Lupinus pusillus* Pursh  
*rubricaulis* Greene = *Lupinus argenteus* Pursh var. *rubricaulis* (Greene) Welsh
- sericeus*** Pursh [M&H]  
*Lupinus amplus* Greene  
*Lupinus bakeri* Greene
- sierrae-blancae* Wooton & Standley subsp. *aquilinus* (Wooton & Standley) Fleak & D. Dunn = *Lupinus sierrae-blancae* Wooton & Standley
- +*sierrae-blancae*** Wooton & Standley [M&H; W&S]  
*Lupinus aquilinus* Wooton & Standley  
*Lupinus laetus* Wooton & Standley  
*Lupinus sierrae-blancae* Wooton & Standley subsp. *aquilinus* (Wooton & Standley) Fleak & D. Dunn
- sileri* S. Watson = *Lupinus kingii* S. Watson  
*sitgreavesii* S. Watson = *Lupinus argenteus* Pursh var. *argenteus*
- sparsiflorus*** Bentham var. ***mohavensis*** (Dziekanowski & D. Dunn) S.L. Welsh [M&H]  
*Lupinus sparsiflorus* Bentham subsp. *mohavensis* Dziekanowski & D. Dunn  
*sparsiflorus* Bentham subsp. *mohavensis* Dziekanowski & D. Dunn = *Lupinus sparsiflorus* Bentham var. *mohavensis* (Dziekanowski & D. Dunn) S.L. Welsh

***Macroptilium*** bush-bean

Buhrow, R. 1983. The wild beans of southwestern North America. *Desert Plants* 5(2):67-88.

Delgado-Salinas, A., M. Thulin, R. Pasquet, N. Weedin, & M. Lavin. 2011. *Vigna* (Leguminosae) sensu lato: The names and identities of the American segregate genera. Amer. J. Bot. 98(1): 1694-1715.  
 Espert, S.M., S. Drewes, A. Burghardt. 2007. Phylogeny of *Macroptilium* (Leguminosae): morphological, biochemical and molecular evidence. Cladistics 23:119-129.

***gibbosifolium*** (Ortega) A. Delgado [Buhrow 1983; M&H; W&S]

*Phaseolus gibbosifolius* Ortega

*Phaseolus heterophyllus* Willdenow var. *heterophyllus*

*Phaseolus heterophyllus* Willdenow var. *rotundifolius* (Gray) Piper

*Phaseolus macropoides* Gray

*Phaseolus rotundifolius* Gray

***Marina*** marina

Barneby, R.C. 1977. *Marina*, p. 55-135. IN: Daleae Imagines. Mem. New York Bot. Gard. 27:1-892.

***calycosa*** (Gray) Barneby [Barneby 1977; M&H; W&S]

*Dalea calycosa* Gray

*Parosela calycosa* (Gray) Heller

***Mariosousa*** acacia

Jawad, J.T., D.S. Seigler, & J.E. Ebinger. 2000. A systematic treatment of *Acacia coulteri* (Fabaceae, Mimosoideae) and similar species in the New World. Ann. Missouri Bot. Gard. 87:528-548. [*Acacia millefolia*]

Seigler, D.S., J.E. Ebinger, & J.T. Miller. 2006. *Mariosousa*, a new segregate genus from *Acacia* s.l. (Fabaceae, Mimosoideae) from Central and North America. Novon 16(3):413-420.

Spellenberg, R., R. Worthington, P. Knight, & R. Fletcher. 1986. Additions to the flora of New Mexico. Sida 11(4):455-470. [*Acacia angustissima suffrutescens*, *Acacia millefolia*]

***millefolia*** (S. Watson) Seigler & Ebinger [Jawad et al. 2000; Spellenberg et al. 1986]

*Acacia millefolia* S. Watson

***Medicago*** medick

Havananda, T., E.C. Brummer, I.J. Maureira-Butler, & J.J. Doyle. 2010. Relationships among diploid members of the *Medicago sativa* (Fabaceae) species complex based on chloroplast and mitochondrial DNA sequences. Syst. Bot. 35(1): 140-150.

Kleinman, R. 2012. Plant distribution reports. The New Mexico Botanist 57: 3. [*Medicago minima*]  
 Small, E. & M. Jomphe. 1989. A synopsis of the genus *Medicago* (Leguminosae). Can. J. Bot. 67:3260-3294.

*hispidia* Gaertner = *Medicago polymorpha* Linnaeus

\**lupulina* Linnaeus [M&H; W&S]

\**minima* (Linnaeus) Linnaeus ex Bartalini [Kleinman 2012]

*Medicago polymorpha* Linnaeus var. *minima* Linnaeus

\**polymorpha* Linnaeus [M&H]

*Medicago hispidia* Gaertner

*polymorpha* Linnaeus var. *minima* Linnaeus = *Medicago minima* (Linnaeus) Linnaeus ex Bartalini

\**sativa* Linnaeus [M&H; W&S]

alfalfa

*Meibomia arizonica* (S. Watson) Vail = *Desmodium arizonicum* S. Watson

*batocaulis* (Gray) Kuntze = *Desmodium batocaulon* Gray

*bigelovii* (Gray) Kuntze = *Desmodium procumbens* (Millspaugh) A.S. Hitchcock var. *neomexicanum* (A. Gray) H. Ohashi

*grahamii* (Gray) Kuntze = *Desmodium grahamii* Gray

*metcalfei* Rose & Painter = *Desmodium metcalfei* (Rose & Painter) Kearney & Peebles

*neomexicana* (Gray) Kuntze = *Desmodium procumbens* (Millspaugh) A.S. Hitchcock var. *neomexicanum* (A. Gray) H. Ohashi

***Melilotus*** sweet-clover

Stevenson, G.A. 1969. An agronomic and taxonomic review of the genus *Melilotus* Miller. Canad. J. Pl. Sci. 49:1-20.

\**albus* Medikus [M&H; W&S]

\**indicus* (Linnaeus) Allioni [M&H; W&S]

*Melilotus parviflora* Desfontaines

*Trifolium melilotus-indica* Linnaeus

\**officinalis* (Linnaeus) Lamarck [M&H; W&S]

*Trifolium melilotus-officinalis* Linnaeus

*parviflora* Desfontaines = *Melilotus indicus* (Linnaeus) Allioni



**Mimosa**                    **mimosa**

Barneby, R.C. 1991. *Sensitivae Censitae*. Mem. N.Y. Bot. Gard. 65:1-835.

Isely, D. 1971. Legumes of the United States. IV. *Mimosa*. Am. Midland Naturalist 85(2):410-424.

Simon, M.F., R. Grether, L.P. de Queiroz, T.E. Saarkinin, V.F. Dutra, & C.E. Hughes. 2011. The evolutionary history of *Mimosa* (Leguminosae): Towards a phylogeny of the sensitive plants. Amer. J. Bot. 98(7): 1201-1221.

Spellenberg, R., R. Worthington, P. Knight, & R. Fletcher. 1986. Additions to the flora of New Mexico. Sida 11(4):455-470. [*Mimosa quadrivalvis* var. *angustata*]

Worthington, R.D. 2012. Plant distribution reports (*Mimosa turneri*). The New Mexico Botanist 57:4.

**biuncifera** Bentham [Isely 1998; M&H; W&S]

wait-a-minute-bush

*Mimosa aculeaticarpa* Ortega var. *biuncifera* (Bentham) Barneby

*Mimosa biuncifera* Bentham var. *glabrescens* Gray

*Mimosa biuncifera* Bentham var. *lindheimeri* (Gray) Robinson

*Mimosa flexuosa* Bentham

*Mimosa lindheimeri* Gray

*Mimosa warnockii* B.L. Turner

*Mimosopsis biuncifera* (Bentham) Britton & Rose

*Mimosopsis biuncifera* (Bentham) Britton & Rose var. *flexuosa* (Bentham) Robinson

*Mimosopsis flexuosa* (Bentham) Britton & Rose

*biuncifera* Bentham = *Mimosa biuncifera* Bentham

*biuncifera* Bentham var. *glabrescens* Gray = *Mimosa biuncifera* Bentham

*biuncifera* Bentham var. *lindheimeri* (Gray) Robinson = *Mimosa biuncifera* Bentham

**borealis** Gray [Barneby 1991; M&H; W&S]

*Mimosa fragrans* Gray

*borealis* A. Gray var. *texana* A. Gray = *Mimosa texana* (A. Gray) Small

*flexuosa* Bentham = *Mimosa biuncifera* Bentham

**dysocarpa** Bentham [Barneby 1991; M&H; W&S]

*Mimosa dysocarpa* Bentham var. *wrightii* (Gray) Kearney & Peebles

*Mimosa wrightii* Gray

*dysocarpa* Bentham var. *wrightii* (Gray) Kearney & Peebles = *Mimosa dysocarpa* Bentham

*fragrans* Gray = *Mimosa borealis* Gray

*glandulosa* Michaux = *Desmanthus illinoensis* (Michaux) MacMillan ex B.L. Robinson & Fernald

**grahamii** Gray var. **grahamii** [Barneby 1991; M&H; W&S]

*Mimosa grahamii* Gray var. *lemmonii* (Gray) Kearney & Peebles

*Mimosa lemmonii* Gray

*grahamii* Gray var. *lemmonii* (Gray) Kearney & Peebles = *Mimosa grahamii* Gray var. *grahamii*

*illinoensis* Michaux = *Desmanthus illinoensis* (Michaux) MacMillan ex B.L. Robinson & Fernald

*lemmonii* Gray = *Mimosa grahamii* Gray

*lindheimeri* Gray = *Mimosa biuncifera* Bentham

*microphylla* Dryander = *Mimosa quadrivalvis* Linnaeus var. *angustata* (Torrey & Gray) Barneby

**\*nuttallii** (A.P. de Candolle) B.L. Turner [Spellenberg et al. 1986]

*Mimosa quadrivalvis* Linnaeus var. *angustata* of NM reports

*quadrivalvis* Linnaeus var. *angustata* of NM reports = *Mimosa nuttallii* (A.P. de Candolle) B.L. Turner

*Mimosa microphylla* Dryander

*Schrankia angustata* Torrey & Gray

*Schrankia uncinata* Willdenow

*quadrivalvis* Linnaeus var. *occidentalis* (Wootton & Standley) Barneby = *Mimosa rupertiana* B.L. Turner

**rupertiana** B.L. Turner [Barneby 1991; M&H; W&S]

*Leptoglottis occidentalis* (Wootton & Standley) Britton & Rose

*Mimosa occidentalis* (Wootton & Standley) B.L. Turner, not *Mimosa occidentalis* Britton & Rose

*Mimosa quadrivalvis* Linnaeus var. *occidentalis* (Wootton & Standley) Barneby

*Morongia occidentalis* Wooton & Standley  
*Schrankia occidentalis* (Wooton & Standley) Standley

**texana** (A. Gray) Small [FNM I]

*Mimosa borealis* A. Gray var. *texana* A. Gray  
*Mimosa wherryana* (Britton & Rose) Standley

**turneri** Barneby [Worthington 2012]

*warnockii* B.L. Turner = *Mimosa biuncifera* Benth  
*wherryana* (Britton & Rose) Standley = *Mimosa texana* (A. Gray) Small  
*wrightii* Gray = *Mimosa dysocarpa* Benth

*Mimosopsis biuncifera* (Benth) Britton & Rose = *Mimosa biuncifera* Benth  
*biuncifera* (Benth) Britton & Rose var. *flexuosa* (Benth) Robinson = *Mimosa biuncifera* Benth

*flexuosa* (Benth) Britton & Rose = *Mimosa biuncifera* Benth

*Morongia occidentalis* Wooton & Standley = *Mimosa quadrivalvis* Linnaeus var. *occidentalis* (Wooton & Standley) Barneby

*Neltuma neomexicana* Britton = *Prosopis glandulosa* Torrey var. *glandulosa*

**Onobrychis** sainfoin

*onobrychis* (Linnaeus) Rydberg = *Onobrychis viciifolia* Scopoli  
*sativa* Lamarck = *Onobrychis viciifolia* Scopoli

\***viciifolia** Scopoli [M&H; W&S]

*Hedysarum onobrychis* Linnaeus  
*Onobrychis onobrychis* (Linnaeus) Rydberg  
*Onobrychis sativa* Lamarck

**Oxytropis** crazyweed

Barneby, R.C. 1952. A revision of the North American species of *Oxytropis* A.P. de Candolle Proc. Calif. Acad. Sci. 27(7):177-312.

Sivinski, R.C. 1993. Noteworthy collections (New Mexico). Madroño 40:273-274.

Welsh, S.L. 1995. North American types of *Oxytropis* A.P. de Candolle (Leguminosae) at the Natural History Museum and Royal Botanic Garden, England, with nomenclatural comments and a new variety. Great Basin Naturalist 55:271-281.

Welsh, S.L. 2001. Revision of North American species of *Oxytropis* A.P. de Candolle (Leguminosae). Publ. by the author.

*bilocularis* A. Nelson = *Oxytropis lambertii* Pursh var. *bigelovii* Gray

*campestris* of NM reports = *Oxytropis sericea* Nuttall

*deflexa* (Pallas) A.P. de Candolle var. *deflexa* : Reported by Sivinski 1993, but the plant in question belongs to *Oxytropis deflexa* (Pallas) A.P. de Candolle var. *sericea* Torrey & Gray

*deflexa* (Pallas) A.P. de Candolle var. *pulcherrima* of NM works = *Oxytropis deflexa* (Pallas) A.P. de Candolle var. *sericea* Torrey & Gray

**deflexa** (Pallas) A.P. de Candolle var. **sericea** Torrey & Gray [M&H; Welsh 2001]

*Oxytropis deflexa* (Pallas) A.P. de Candolle var. *deflexa* of NM works

*Oxytropis deflexa* (Pallas) A.P. de Candolle var. *pulcherrima* of NM works

*lambertii* Pursh var. *articulata* (Greene) Barneby = *Oxytropis lambertii* Pursh var. *bigelovii* Gray

**lambertii** Pursh var. **bigelovii** Gray [M&H; W&S; Welsh 2001]

*Aragallus articulatus* Greene

*Oxytropis bilocularis* A. Nelson

*Oxytropis lambertii* Pursh var. *articulata* (Greene) Barneby

*nothoxys* (Gray) M.E. Jones = *Astragalus nothoxys* Gray

**parryi** Gray [M&H; W&S; Welsh 2001]

*Aragallus parryi* (Gray) Greene

*Astragalus parryanus* Tidestrom

*pinetorum* (Heller) Wooton & Standley = *Oxytropis sericea* Nuttall

*podocarpa* A. Gray : Reported in the map in Welsh (2001) but not the text; no specimens are known; awaits verification.

*richardsonii* (Hooker) Wooton & Standley = *Oxytropis splendens* Douglas

**sericea** Nuttall var. **sericea** [M&H; W&S; Welsh 2001]

*Aragallus pinetorum* Heller

*Aragallus pinetorum* Heller var. *vegana* Cockerell

*Oxytropis pinetorum* (Heller) Wooton & Standley

- Oxytropis vegana* (Cockerell) Wooton & Standley  
**splendens** Douglas ex Hooker [M&H; W&S; Welsh 2001]  
*Aragallus splendens* (Douglas ex Hooker) Greene  
*Oxytropis richardsonii* (Hooker) Wooton & Standley  
*Oxytropis splendens* Douglas ex Hooker var. *richardsonii* Hooker  
*splendens* Douglas ex Hooker var. *richardsonii* Hooker = *Oxytropis splendens* Douglas ex Hooker  
*vegana* (Cockerell) Wooton & Standley = *Oxytropis sericea* Nuttall
- Parkinsonia** palo-verde  
 Allred, K.W. 1999. New plant distribution records. The New Mexico Botanist 13:7. [*Parkinsonia aculeata*]  
 Haston, E.M., G.P. Lewis, & J.A. Hawkins. 2005. A phylogenetic reappraisal of the *Peltophorum* Group (Caesalpinieae: Leguminosae) based on the chloroplast *trnL-F*, *RBCL* and *RPS16* sequence data. Amer. J. Bot. 92(8): 1359-1371.
- \*aculeata** Linnaeus [Allred 1999]
- Parosela albiflora* (Gray) Vail = *Dalea albiflora* Gray  
*argyraea* (Gray) Heller = *Dalea bicolor* Humboldt & Bonpland ex Willdenow var. *argyraea* (Gray) Barneby  
*aurea* (Nuttall) Britton = *Dalea aurea* Nuttall  
*brachystachys* (Gray) Heller = *Dalea brachystachys* Gray  
*calycosa* (Gray) Heller = *Marina calycosa* (Gray) Barneby  
*carnescens* Rydberg = *Dalea rubescens* S. Watson  
*dalea* of NM works = *Dalea leporina* (Aiton) Bullock  
*enneandra* (Nuttall) Britton = *Dalea enneandra* Nuttall  
*filiformis* (Gray) Heller = *Dalea filiformis* Gray  
*formosa* (Torrey) Vail = *Dalea formosa* Torrey  
*frutescens* (Gray) Vail = *Dalea frutescens* Gray  
*glaberrima* (S. Watson) Rose = *Dalea glaberrima* S. Watson  
*grayi* Vail = *Dalea grayi* (Vail) L.O. Williams  
*greggii* of NM reports = *Dalea pulchra* H.C. Gentry  
*jamesii* (Torrey) Vail = *Dalea jamesii* (Torrey) Torrey & Gray  
*lachnostachys* (Gray) Heller = *Dalea lachnostachya* Gray  
*lanata* (Sprengel) Britton = *Dalea lanata* Sprengel  
*lemmonii* (Perry) Heller : Reported by Campbell & Little (1935), but the identification is corrected to *Dalea brachystachys* Gray.  
*nana* (Torrey) Heller = *Dalea nana* Torrey  
*ordiae* (Gray) Heller = *Dalea albiflora* Gray  
*pogonathera* (Gray) Vail = *Dalea pogonathera* Gray  
*polygonoides* (Gray) Heller = *Dalea polygonoides* Gray  
*scoparia* (Gray) Heller = *Psorothamnus scoparius* (Gray) Rydberg  
*terminalis* (M.E. Jones) Heller = *Dalea glaberrima* S. Watson  
*urceolata* (Greene) Standley = *Dalea urceolata* Greene  
*wrightii* (Gray) Vail = *Dalea wrightii* Gray
- Parryella** dune-broom  
 McMahon, M. & L. Hufford. 2004. Phylogeny of Amorpheae (Fabaceae: Papionoideae). Amer. J. Bot. 91(8): 1219-1230.  
 Rydberg, P.A. 1928. *Parryella*. Amer. J. Bot. 15:425-426.
- filifolia** Torrey & Gray ex Gray [M&H; W&S]
- Pediomelum** breadroot  
 Egan, A.N. & J.L. Reveal. 2009. A new combination in *Pediomelum* and a new genus, *Ladeania*, from western North America (Fabaceae, Psoraleaceae). Novon 19: 310-314.  
 Egan, A.N. 2015. Species delimitation and recognition in the *Pediomelum megalanthum* complex (Fabaceae) via multivariate morphometrics. PhytoKeys 44: 65-87.  
 Grimes, J.W. 1990. A revision of the New World species of Psoraleae (Leguminosae: Papilionoideae). Mem. N.Y. Bot. Gard. 61:1-113.  
 U.S. Fish and Wildlife Service. 2018. Species status assessment report for *Pediomelum pentaphyllum* (Chihuahuahua scurfpea). New Mexico Ecological Services Field Office, Version 1.0. Albuquerque, NM.
- argophyllum** (Pursh) Grimes [M&H; W&S]  
*Psoralea argophylla* Pursh  
*Psoralidium argophyllum* (Pursh) Rydberg  
**digitatum** (Nuttall ex Torrey & Gray) Isely [M&H]

- Psoralea digitata* Nuttall  
*Psoralidium digitatum* (Nuttall) Rydberg  
**esculentum** (Pursh) Rydberg [M&H]  
*Psoralea esculenta* Pursh  
**hypogaeum** (Nuttall ex Torrey & Gray) Rydberg [M&H; W&S]  
*Psoralea hypogaea* Nuttall  
**linearifolium** (Torrey & Gray) Grimes [Isely 1998]  
*Psoralea linearifolia* Torrey & Gray  
*Psoralidium linearifolium* (Torrey & Gray) Rydberg  
**megalanthum** (Wooton & Standley) Rydberg [M&H; W&S]  
*Psoralea megalantha* Wooton & Standley  
**pentaphyllum** (Linnaeus) Rydberg [M&H]  
*Psoralea pentaphylla* Linnaeus  
*Psoralea trinervata* (Rydberg) Standley  
*Pediomelum trinervatum* Rydberg  
**tenuiflorum** (Pursh) Egan [M&H; W&S]  
*Psoralea tenuiflora* Pursh  
*Psoralea tenuiflora* Pursh var. *bigelovii* (Rydberg) Macbride  
*Psoralidium bigelovii* Rydberg  
*Psoralidium tenuiflorum* (Pursh) Kuntze  
*trinervatum* Rydberg = *Pediomelum pentaphyllum* (Linnaeus) Grimes  
*Petranisia orcuttii* Britton & Rose = *Senna orcuttii* (Britton & Rose) Irwin & Barneby  
*Petalostemon arenicola* Wemple = *Dalea purpurea* Ventenat var. *arenicola* (Wemple) Barneby  
*candidum* (Willdenow) Michaux = *Dalea candida* Willdenow  
*candidum* (Willdenow) Michaux var. *oligophyllum* (Torrey) F.J. Hermann = *Dalea*  
*occidentalis* (Britton & Kearney) Isely  
*compactum* of NM reports = *Dalea cylindriceps* Barneby  
*compactum* (Sprengel) Swezey = *Dalea compacta* Sprengel  
*exilis* Gray = *Dalea exigua* Barneby  
*gracilis* Nuttall var. *oligophyllum* Torrey = *Dalea occidentalis* (Britton & Kearney) Isely  
*macrostachyum* Torrey = *Dalea cylindriceps* Barneby  
*molle* Rydberg = *Dalea purpurea* Ventenat var. *purpurea*  
*occidentalis* (Gray ex Heller) Fernald = *Dalea occidentalis* (Britton & Kearney) Isely  
*oligophyllum* (Torrey) Rydberg = *Dalea occidentalis* (Britton & Kearney) Isely  
*prostratum* Wooton & Standley = *Dalea scariosa* S. Watson  
*pulcherrimum* of NM reports = *Dalea cylindriceps* Barneby  
*pulcherrimum* (Heller) Heller = *Dalea compacta* Sprengel var. *pubescens* (Gray) Barneby  
*purpureum* (Ventenat) Rydberg = *Dalea purpurea* Ventenat var. *purpurea*  
*purpureum* (Ventenat) Rydberg var. *molle* (Rydberg) A. Nelson = *Dalea purpurea* Ventenat  
var. *purpurea*  
*scariosum* (S. Watson) Wemple = *Dalea scariosa* S. Watson  
*tenuifolium* Gray = *Dalea tenuifolia* (Gray) Shinnars  
*villosum* Nuttall = *Dalea villosa* (Nuttall) Sprengel var. *villosa*  
*violaceum* Michaux = *Dalea purpurea* Ventenat var. *purpurea*
- Peteria** *peteria*  
Lavin, M., M.F. Wojciechowski, P. Gasson, C. Hughes, & E. Wheeler. 2003. Phylogeny of Robinoid  
legumes (Fabaceae) revisited: *Coursetia* and *Gliricidia* recircumscribed, and a biogeographical  
appraisal of the Caribbean endemics. Syst. Bot. 28(2): 387-409.  
Porter, C.L. 1956. The genus *Peteria* (Leguminosae). Rhodora 58:344-354.
- scoparia** Gray [M&H; W&S]  
*Phaca allochroa* (Gray) Rydberg = *Astragalus allochrous* Gray var. *allochrous*  
*australis* Linnaeus = *Astragalus australis* (Linnaeus) Lamarck  
*bisulcata* Hooker = *Astragalus bisulcatus* (Hooker) Gray var. *bisulcatus*  
*eastwoodiae* (M.E. Jones) Rydberg = *Astragalus eastwoodiae* M.E. Jones  
*elegans* Hooker var. *minor* Hooker = *Astragalus robbinsii* (Oakes) Gray var. *minor*  
(Hooker) Barneby  
*glabriuscula* Hooker = *Astragalus australis* (Linnaeus) Lamarck  
*lotiflora* (Hooker) Torrey & Gray = *Astragalus lotiflorus* Hooker  
*macrocarpa* Gray = *Astragalus lonchocarpus* Torrey  
*robbinsii* Oakes = *Astragalus robbinsii* (Oakes) Gray var. *minor* (Hooker) Barneby

- sabulonum* (Gray) Rydberg = *Astragalus sabulonum* Gray  
*salsula* Pallas = *Sphaerophysa salsula* (Pallas) A.P. de Candolle  
*thurberi* (Gray) Kearney = *Astragalus thurberi* Gray  
*villosa* James ex S. Watson = *Astragalus mollissimus* Torrey var. *mollissimus*  
*wootonii* (Sheldon) Rydberg = *Astragalus allochrous* Gray var. *playanus* (M.E. Jones) Isely  
*Phacopsis pattersonii* (Gray) Rydberg = *Astragalus pattersonii* Gray in Brandegee

**Phaseolus** bean

- Blair, M.W., W. Pantoja, & L.C. Muñoz. 2012. First use of microsatellite markers in a large collection of cultivated and wild accessions of tepary bean (*Phaseolus acutifolius* A. Gray). *Theoretical Applied Genetics* 125: 1137-1147.
- Buhrow, R. 1983. The wild beans of southwestern North America. *Desert Plants* 5(2):67-88.
- Delgado-Salinas, A., T. Turley, A. Richman, & M. Lavin. 1999. Phylogenetic analysis of the cultivated and wild species of *Phaseolus* (Fabaceae). *Syst. Bot.* 24(3): 438-460.
- Delgado-Salinas, A., R. Bibler, & M. Lavin. 2006. Phylogeny of the genus *Phaseolus* (Leguminosae): A recent diversification in an ancient landscape. *Syst. Bot.* 31: 779-791.
- Delgado-Salinas, A., M. Thulin, R. Pasquet, N. Weedon, & M. Lavin. 2011. *Vigna* (Leguminosae) sensu lato: The names and identities of the American segregate genera. *Amer. J. Bot.* 98(1): 1694-1715.
- Freytag, G.F. and D.G. Debouck. 2002. Taxonomy, distribution, and ecology of the genus *Phaseolus* (Leguminosae-Papilionoideae) in North America, Mexico and Central America. *Sida* 23: 1-300.
- Lackey, J.A. 1983. A review of generic concepts in American Phaseolinae (Fabaceae), Faboideae). *Iselya* 2(2):21-64.
- Nabhan, G.P. & R.S. Felger. 1978. Teparies in southwestern North America – a biogeographical and ethnohistorical study of *Phaseolus acutifolius*. *Econ. Bot.* 32: 2-19.
- Nabhan, G.P., J.W. Berry, & C.W. Weber. 1980. Wild beans of the Greater Southwest: *Phaseolus metcalfei* and *P. ritensis*. *Econ. Bot.* 34: 68-85.

**acutifolius** Gray [M&H; W&S]

*Phaseolus acutifolius* Gray var. *latifolius* Freeman

*Phaseolus acutifolius* Gray var. *tenuifolius* Gray

*Phaseolus tenuifolius* (Gray) Wooton & Standley

*acutifolius* Gray var. *latifolius* Freeman = *Phaseolus acutifolius* Gray

*acutifolius* Gray var. *tenuifolius* Gray = *Phaseolus acutifolius* Gray

**angustissimus** Gray [M&H; W&S]

*Phaseolus angustissimus* Gray var. *latus* M.E. Jones

*Phaseolus dilatatus* Wooton & Standley

*angustissimus* Gray var. *latus* M.E. Jones = *Phaseolus angustissimus* Gray

*dilatatus* Wooton & Standley = *Phaseolus angustissimus* Gray var. *latus* M.E. Jones

**filiformis** Benth [M&H]

*Phaseolus wrightii* Gray

*gibbosifolius* Ortega = *Macroptilium gibbosifolium* (Ortega) A. Delgado

*grayanus* Wooton & Standley = *Phaseolus scabrellus* Benth ex S. Watson

*heterophyllus* Willdenow var. *heterophyllus* = *Macroptilium gibbosifolium* (Ortega) A.

Delgado

*heterophyllus* Willdenow var. *rotundifolius* (Gray) Piper = *Macroptilium gibbosifolium*

(Ortega) A. Delgado

*leiosperma* Torrey & Gray = *Strophostyles leiosperma* (Torrey & Gray) Piper

*macropoides* Gray = *Macroptilium gibbosifolium* (Ortega) A. Delgado

**maculatus** Scheele [M&H; W&S]

*Phaseolus metcalfei* Wooton & Standley

*Phaseolus retusus* Benth, non Moench

*metcalfei* Wooton & Standley = *Phaseolus maculatus* Scheele

**parvulus** Greene [M&H; W&S]

*Alepidocalyx parvulus* (Greene) Piper

*pedicellatus* Benth var. *grayanus* (Wooton & Standley) Delgado ex Isely = *Phaseolus*

*scabrellus* Benth ex S. Watson

*pauciflorus* = *Strophostyles leiosperma* (Torrey & Gray) Piper

*retusus* Benth, non Moench = *Phaseolus maculatus* Scheele

*ritensis* M.E. Jones : Reported in various databases or works, but all specimens we have seen from NM belong to *Phaseolus maculatus* Scheele or *Macroptilium gibbosifolium* (Ortega) A. Delgado; awaits verification.

*rotundifolius* Gray = *Macroptilium gibbosifolium* (Ortega) A. Delgado

**scabrellus** Benth ex S. Watson [M&H; W&S]

*Phaseolus grayanus* Wooton & Standley

*Phaseolus pedicellatus* Bentham var. *grayanus* (Wooton & Standley) Delgado  
ex Isely

*Phaseolus wrightii* Gray var. *grayanus* (Wooton & Standley) Kearney &  
Peebles

*tenuifolius* (Gray) Wooton & Standley = *Phaseolus acutifolius* Gray

**\*vulgaris** Linnaeus [FNM I]

*wrightii* Gray = *Phaseolus filiformis* Bentham

*wrightii* Gray var. *grayanus* (Wooton & Standley) Kearney & Peebles = *Phaseolus*  
*scabrellus* Bentham ex S. Watson

*Pisophaca datilensis* Rydberg = *Astragalus humistratus* Gray var. *humistratus*

*famelica* (Sheldon) Rydberg = *Astragalus hallii* Gray var. *fallax* Barneby

*flexuosa* (Douglas) Rydberg = *Astragalus flexuosus* (Hooker) Douglas ex G. Don var.  
*flexuosus*

*gertrudis* (Greene) Rydberg = *Astragalus puniceus* Osterhout var. *gertrudis* (Greene)  
Barneby

*hallii* (Gray) Rydberg = *Astragalus hallii* Gray var. *hallii*

*neomexicana* (Wooton & Standley) Rydberg = *Astragalus neomexicana* Wooton &  
Standley

*proxima* Rydberg = *Astragalus proximus* (Rydberg) Wooton & Standley

*punicea* (Osterhout) Rydberg = *Astragalus puniceus* Osterhout var. *puniceus*

*ratonensis* Rydberg = *Astragalus flexuosus* (Hooker) Douglas ex G. Don var. *flexuosus*

*sierrae-blancae* Rydberg = *Astragalus flexuosus* (Hooker) Douglas ex G. Don var.  
*flexuosus*

*Poinciana gilliesii* Wallich ex Hooker = *Erythrostemon gilliesii* (Wallich ex Hooker) Klotzsch

*pulcherrima* Linnaeus = *Caesalpinia pulcherrima* (Linnaeus) Swartz

**Pomaria** hog-potato

Simpson, B.B. 1998. A revision of *Pomaria* (Fabaceae) in North America. *Lundellia* 1:46-71.

Simpson, B.B., L. Larkin, A. Weeks, & J. McDill. 2006. Phylogeny and biogeography of *Pomaria*  
(Caesalpinioideae: Leguminosae). *Syst. Bot.* 31(4): 792-804.

**jamesii** (Torrey & Gray) Walpers [M&H; W&S]

*Caesalpinia jamesii* (Torrey & Gray) Fisher

*Hoffmannseggia jamesii* Torrey & Gray

**Prosopis** mesquite

Benson, L. 1941. The mesquites and screw-beans of the United States. *Amer. J. Bot.* 28:748-754.

Burkart, A. 1976. A monograph of the genus *Prosopis* (Leguminosae subfamily Mimosoideae). *J. Arnold*  
*Arb.* 57:219-249, 450-525.

Catalano, S.A., J.C. Vilari, D. Tosto, & B.O. Saidman. 2008. Molecular phylogeny and diversification  
history of *Prosopis* (Fabaceae: Mimosoideae). *Biol. J. Linn. Soc.* 93(3): 621-640.

Hilu, K.W., S. Boyd, & P. Felker. 1982. Morphological diversity and taxonomy of California mesquites  
(*Prosopis*, Leguminosae). *Madrono* 29(4): 237-254.

Isely, D. 1972. Legumes of the U.S. VI. *Calliandra*, *Pithecellobium*, *Prosopis*. *Madrono* 21: 273-298.

Johnston, M.C. 1962. The North American mesquites, *Prosopis* sect. *Algarobia* (Leguminosae). *Brittonia*  
14:72-90.

Pasiecznik, N.M., P. Felker, P.J.C. Harris, L.N. Harsh, G. Cruz, J.C. Tewari, K. Cadoret, K. & L.J.  
Maldonado. 2001. The *Prosopis juliflora* - *Prosopis pallida* Complex: A Monograph. HDRA,  
Coventry, UK. 172 pp.

**glandulosa** Torrey var. **glandulosa** [M&H; W&S]

honey mesquite

*Neltuma neomexicana* Britton

**glandulosa** Torrey var. **torreyana** (L. Benson) M.C. Johnston [M&H]

honey mesquite

*Prosopis juliflora* (Swartz) A.P. de Candolle var. *torreyana* L. Benson

*juliflora* (Swartz) A.P. de Candolle var. *torreyana* L. Benson = *Prosopis glandulosa* Torrey  
var. *torreyana* (L. Benson) M.C. Johnston

*juliflora* (Swartz) A.P. de Candolle var. *velutina* (Wooton) Sargent = *Prosopis velutina*  
Wooton

*odorata* (Torrey & Frémont) Torrey & Frémont emend. Welsh = *Prosopis pubescens*  
Bentham

**pubescens** Bentham [M&H; W&S]

screwbean, tornillo

*Prosopis odorata* (Torrey & Frémont) Torrey & Frémont emend. Welsh

*Strombocarpa pubescens* (Bentham) Gray

**velutina** Wooton [M&H; W&S]

*Prosopis juliflora* (Swartz) A.P. de Candolle var. *velutina* (Wooton) Sargent

- Psoralea argophylla* Pursh = *Pediomelum argophyllum* (Pursh) Grimes  
*digitata* Nuttall = *Pediomelum digitatum* (Nuttall ex Torrey & Gray) Grimes  
*esculenta* Pursh = *Pediomelum esculentum* (Pursh) Rydberg  
*hypogaea* Nuttall = *Pediomelum hypogaeum* (Nuttall ex Torrey & Gray) Rydberg  
*lanceolata* Pursh = *Ladeania lanceolata* (Pursh) Egan & Reveal  
*leporina* Aiton = *Dalea leporina* (Aiton) Bullock  
*linearifolia* Torrey & Gray = *Pediomelum linearifolium* (Torrey & Gray) Grimes  
*megalantha* Wooton & Standley = *Pediomelum megalanthum* (Wooton & Standley) Rydberg  
*micrantha* Torrey = *Ladeania lanceolata* (Pursh) Egan & Reveal  
*pentaphylla* Linnaeus = *Pediomelum pentaphyllum* (Linnaeus) Grimes  
*tenuiflora* Pursh var. *bigelovii* (Rydberg) Macbride = *Pediomelum tenuiflorum* (Pursh) Egan  
*tenuiflora* Pursh var. *tenuiflora* = *Pediomelum tenuiflorum* (Pursh) Egan  
*trinervata* (Rydberg) Standley = *Pediomelum pentaphyllum* (Linnaeus) Grimes  
*Psoralidium argophyllum* (Pursh) Rydberg = *Pediomelum argophyllum* (Pursh) Grimes  
*bigelovii* Rydberg = *Pediomelum tenuiflorum* (Pursh) Egan  
*digitatum* (Nuttall) Rydberg = *Pediomelum digitatum* (Nuttall ex Torrey & Gray) Grimes  
*lanceolatum* (Pursh) Rydberg = *Ladeania lanceolata* (Pursh) Egan & Reveal  
*linearifolium* (Torrey & Gray) Rydberg = *Pediomelum linearifolium* (Torrey & Gray) Grimes  
*micranthum* (Gray) Rydberg = *Ladeania lanceolata* (Pursh) Egan & Reveal  
*tenuiflorum* (Pursh) Rydberg = *Pediomelum tenuiflorum* (Pursh) Egan

**Psorothamnus** broom-dalea

Barneby, R.C. 1977. *Daleae* Imagines. Mem. New York Bot. Gard. 27:1-892.

**scoparius** (Gray) Rydberg [M&H; W&S]

*Dalea scoparia* Gray

*Dalea scoparia* Gray var. *subrosea* Cockerell

*Parosela scoparia* (Gray) Heller

**Rhynchosia** snout-bean

Grear, J.W. 1978. A revision of the New World species of *Rhynchosia* (Leguminosae- Faboideae). Mem. N.Y. Bot. Gard. 31(1):1-168.

Johnston, M.C. 1984. *Rhynchosia senna* var. *texana*, new combination made necessary by the Demoulin Rule. *Phytologia* 54:474.

Turner, B.L. 2011. Systematics of the *Rhynchosia senna* complex (Fabaceae). *Lundellia* 14: 27-31.  
*senna* Gillies ex Hooker var. *angustifolia* (Gray) Grear = *Rhynchosia texana* Torrey & Gray  
*senna* Gillies ex Hooker var. *texana* (Torrey & Gray) M.C. Johnston = *Rhynchosia texana* Torrey & Gray

**texana** Torrey & Gray [M&H; W&S]

*Dolicholus texanus* (Torrey & Gray) Vail

*Rhynchosia senna* Gillies ex Hooker var. *angustifolia* (Gray) Grear

*Rhynchosia senna* Gillies ex Hooker var. *texana* (Torrey & Gray) M.C. Johnston

**Robinia** locust

Isely, D. & F.J. Peabody. 1984. *Robinia* (Leguminosae: Papilionoideae). *Castanea* 49:187-202.

Great Plains Flora Association. 1977. Atlas of the Flora of the Great Plains. Iowa State Univ. Press. 600 pp. [*Robinia hispida*]

Lavin, M., M.F. Wojciechowski, P. Gasson, C. Hughes, & E. Wheeler. 2003. Phylogeny of Robinoid legumes (Fabaceae) revisited: *Coursetia* and *Gliricidia* circumscribed, and a biogeographical appraisal of the Caribbean endemics. *Syst. Bot.* 28(2): 387-409.

*breviloba* Rydberg = *Robinia neomexicana* Gray var. *rusbyi* (Wooton & Standley) Martin & Hutchins ex Peabody

*caragana* Linnaeus = *Caragana arborescens* Lamarck

\***hispida** Linnaeus [Great Plains Flora Association 1977]

*luxurians* (Dieck) Rydberg = *Robinia neomexicana* Gray var. *neomexicana*

**neomexicana** Gray var. **neomexicana** [M&H; W&S]

*Robinia luxurians* (Dieck) Rydberg

*Robinia subvelutina* Rydberg

**neomexicana** Gray var. **rusbyi** (Wootton & Standley) Martin & Hutchins ex

Peabody [M&H; W&S]

*Robinia breviloba* Rydberg

*Robinia rusbyi* Wootton & Standley

\***pseudoacacia** Linnaeus [M&H]

*rusbyi* Wootton & Standley = *Robinia neomexicana* Gray var. *rusbyi* (Wootton & Standley)  
Martin & Hutchins ex Peabody

*subvelutina* Rydberg = *Robinia neomexicana* Gray var. *neomexicana*

*Rydbergiella pattersonii* (Gray) Fedde & Sydow = *Astragalus pattersonii* Gray in Brandege

*Schrammia caudata* (A. Gray) Britton & Rose = *Hoffmannseggia caudata* A. Gray

*Schrankia angustata* Torrey & Gray = *Mimosa quadrivalvis* Linnaeus var. *angustata* (Torrey & Gray) Barneby

*occidentalis* (Wootton & Standley) Standley = *Mimosa quadrivalvis* Linnaeus var.

*occidentalis* (Wootton & Standley) Barneby

*uncinata* Willdenow = *Mimosa quadrivalvis* Linnaeus var. *angustata* (Torrey & Gray)  
Barneby

**Securigera** crown-vetch

Allred, K.W. 1999. New plant distribution records. *The New Mexico Botanist* 13:7. [*Coronilla varia*]

Lassen, P. 1989. A new delimitation of the genera *Coronilla*, *Hippocrepis*, and *Securigera* (Fabaceae).  
*Willdenowia* 19:49-62.

\***varia** (Linnaeus) Lassen [Allred 1999]

*Coronilla varia* Linnaeus

**Senegalia** acacia

Miller, J.T. & D. Seigler. 2012. Evolutionary and taxonomic relationships of *Acacia s.l.* (Leguminosae: Mimosoideae). *Aust. Syst. Bot.* 25(3): 217-224.

Seigler, D.S., J.E. Ebinger, & J.T. Miller. 2006. The genus *Senegalia* (Fabaceae: Mimosoideae) from the New World. *Phytologia* 88: 38-93.

Terra, V., F.C.P. Garcia, L.P. de Queiroz, M. van der Bank, & J.T. Miller. 2017. Phylogenetic relationships in *Senegalia* (Leguminosae-Mimosoideae) emphasizing the South American lineages. *Syst. Bot.* 42(3): 458-464.

**greggii** (Gray) Britton & Rose [M&H; W&S]

catclaw

*Acacia greggii* Gray

*Acacia greggii* Gray var. *arizonica* Isely

**roemeriana** (Scheele) Britton & Rose [M&H]

*Acacia roemeriana* Scheele

**Senna** senna

Irwin, H.S. & R.C. Barneby. 1982. The American Cassinae, a synoptical revision of Leguminosae tribe Cassieae subtribe Cassinae in the New World. *Mem. New York Bot. Gard.* 35:1-918.

Isely, D. 1998. Native and naturalized Leguminosae (Fabaceae) of the United States. Monte L. Bean Life Science Museum, Brigham Young University, Provo, Utah. 1007 pp. [*Senna orcuttii*]

Marazzi, B., P.K. Endress, L.P. de Queiroz, & E. Conti. 2006. Phylogenetic relationships within *Senna* (Leguminosae: Cassiinae) base on three chloroplast DNA regions: patterns in the evolution of floral symmetry and extrafloral nectaries. *Amer. J. Bot.* 93(2): 288-303.

Marazzi, B., & M.J. Sanderson. 2010. Large-scale patterns of diversification in the widespread legume genus *Senna* and the evolutionary role of extrafloral nectaries. *Evolution* 64(12): 3570-3592.

Simpson, B.B. & B. Miao. 1997. The circumscription of *Hoffmannseggia* (Fabaceae, Caesalpinioideae, Caesalpinieae) and its allies using morphological and cpDNA restriction site data. *Pl. Syst. Evol.* 205:157-178.

**bauhinioides** (Gray) Irwin & Barneby [M&H; W&S]

*Cassia bauhinioides* Gray

*Cassia bauhinioides* Gray var. *arizonica* Robinson

*Earleocassia bauhinioides* (Gray) Britton & Rose

**covesii** (Gray) Irwin & Barneby [M&H; W&S]

*Cassia covesii* Gray

*Earleocassia covesii* (Gray) Britton & Rose

*hirsuta* (Linnaeus) Irwin & Barneby var. *glaberrima* (M.E. Jones) Irwin & Barneby :

Reported by W&S, M&H, Isely 1998, presumably all based on *Mearns* 343, taken in Chihuahua, Mexico near the international border; no specimens known from NM; awaits verification.

*Cassia leptocarpa* Benthham var. *glaberrima* M. E. Jones

**lindheimeriana** (Scheele) Irwin & Barneby [M&H; W&S]



- Cassia lindheimeriana* Scheele  
*Earleocassia lindheimeriana* (Scheele) Britton
- orcuttii** (Britton & Rose) Irwin & Barneby [Isely 1998]  
*Cassia orcuttii* (Britton & Rose) B.L. Turner  
*Peiransia orcuttii* Britton & Rose
- roemeriana** (Scheele) Irwin & Barneby [M&H; W&S]  
*Cassia roemeriana* Scheele  
*Earleocassia roemeriana* (Scheele) Britton
- wislizeni** (Gray) Irwin & Barneby [M&H; W&S]  
*Cassia wislizeni* Gray
- Sophora gypsophila* Turner & Powell var. *guadalupensis* Turner & Powell = *Dermatophyllum*  
*guadalupense* (Turner & Powell) B.L. Turner  
*nuttalliana* B.L. Turner = *Vexibia nuttalliana* (B.L. Turner) W.A. Weber  
*secundiflora* (Ortega) Lagasca ex A.P. de Candolle = *Dermatophyllum secundiflorum*  
 (Ortega) Gandhi & Reveal  
*sericea* Nuttall = *Sophora nuttalliana* B.L. Turner  
*stenophylla* Gray = *Vexibia stenophylla* (Gray) W.A. Weber
- Sphaerophysa** bladder-vetch  
 Barneby, R.C. 1964. *Sphaerophysa*. Mem. New York Bot. Gard. 13:1162-1164.  
 Hershey, A.L. & P.J. Leyendecker, Jr. 1944. Notes on plants of New Mexico—III. Leaflets of Western  
 Botany 4(2):21-25. [*Sphaerophysa salsula*]
- \***salsula** (Pallas) A.P. de Candolle [Hershey & Leyendecker 1944; M&H]  
*Phaca salsula* Pallas  
*Swainsona salsula* (Pallas) Taubert
- Spiesia nothoxys* (Gray) M.E. Jones = *Astragalus nothoxys* Gray
- Strombocarpa pubescens* (Benth) Gray = *Prosopis pubescens* Benth
- Strophostyles** fuzzy-bean  
 Delgado-Salinas, A., M. Thulin, R. Pasquet, N. Weedon, & M. Lavin. 2011. *Vigna* (Leguminosae) sensu  
 lato: The names and identities of the American segregate genera. Amer. J. Bot. 98(1): 1694-1715.  
 Riley-Hulting, E.T., A. Delgado-Salinas, & M. Lavin. 2004. Phylogenetic systematics of *Strophostyles*  
 (Fabaceae): A North American temperate genus within a neotropical diversification. Syst. Bot.  
 29(3):627-653.
- \***helvola** (Linnaeus) Elliott [Riley-Hulting et al. 2004]  
*Phaseolus helvolus* Linnaeus
- leiosperma** (Torrey & Gray) Piper [M&H; Riley-Hulting et al. 2004; W&S]  
*Phaseolus leiospermus* Torrey & Gray  
*Phaseolus pauciflorus* Benth  
*Strophostyles pauciflora* (Benth) S. Watson  
*pauciflora* (Benth) S. Watson = *Strophostyles leiosperma* (Torrey & Gray) Piper  
*Swainsona salsula* (Pallas) Taubert = *Sphaerophysa salsula* (Pallas) A.P. de Candolle
- Tephrosia** hoary-pea  
 Todsén, T.K. 1984. Noteworthy collections (New Mexico). Madroño 31:125. [*Tephrosia tenella*]  
 Wood, C.E. 1949. The American barbistyled species of *Tephrosia* (Leguminosae). Rhodora 51: 193-231,  
 2330-302, 305-364, 369-384.  
*tenella* Gray = *Tephrosia vicioides* Schlechtendal
- vicioides** Schlechtendal [Todsén 1984]  
*Tephrosia tenella* Gray
- Thermopsis** golden-pea  
 Chen, C.J., M.G. Mendenhall, & B.L. Turner. 1994. Taxonomy of *Thermopsis* (Fabaceae) in North  
 America. Ann. Missouri Bot. Gard. 81:714-742.  
*arenosa* A. Nelson = *Thermopsis rhombifolia* (Nuttall ex Pursh) Nuttall ex Richardson
- divaricarpa** A. Nelson [Chen et al. 1994; M&H; W&S]  
*Thermopsis montana* Nuttall var. *divaricarpa* (A. Nelson) Dorn  
*Thermopsis pinetorum* Greene  
*Thermopsis rhombifolia* (Nuttall ex Pursh) Richardson var. *divaricarpa* (A.  
 Nelson) Isely
- montana** Nuttall [Chen et al. 1994; M&H; W&S]  
*Thermopsis rhombifolia* (Nuttall ex Pursh) Richardson var. *montana* (Nuttall)  
 Isely  
*montana* Nuttall var. *divaricarpa* (A. Nelson) Dorn = *Thermopsis divaricarpa* A. Nelson

*pinetorum* Greene = *Thermopsis divaricarpa* A. Nelson

***rhombifolia*** (Nuttall ex Pursh) Nuttall ex Richardson [Chen et al. 1994; M&H]

*Thermopsis arenosa* A. Nelson

*rhombifolia* (Nuttall ex Pursh) Nuttall ex Richardson var. *divaricarpa* (A. Nelson) Isely =  
*Thermopsis divaricarpa* A. Nelson

*rhombifolia* (Nuttall ex Pursh) Nuttall ex Richardson var. *montana* (Nuttall) Isely =  
*Thermopsis montana* Nuttall

*Tium drummondii* (Douglas ex Hooker) Rydberg = *Astragalus drummondii* Douglas ex Hooker

*egglestonii* Rydberg = *Astragalus egglestonii* (Rydberg) Kearney & Peebles

*humistratum* (Gray) Rydberg = *Astragalus humistratus* Gray var. *humistratus*

*racemosum* (Pursh) Rydberg = *Astragalus racemosus* Pursh var. *racemosus*

*scopulorum* (Porter) Rydberg = *Astragalus scopulorum* T.C. Porter

*stenolobum* Rydberg = *Astragalus scopulorum* T.C. Porter

*Tragacantha bisulcata* (Hooker) Kuntze = *Astragalus bisulcatus* (Hooker) Gray var. *bisulcatus*

*brandegeei* (Porter) Kuntze = *Astragalus brandegeei* Porter

*cobrensis* (Gray) Kuntze = *Astragalus cobrensis* Gray var. *cobrensis*

*cyanea* (Gray) Kuntze = *Astragalus cyaneus* Gray

*diphysa* (Gray) Kuntze = *Astragalus lentiginosus* Douglas ex Hooker var. *diphysus* (Gray)  
M.E. Jones

*flaviflora* Kuntze = *Astragalus flavus* Nuttall

*hallii* (Gray) Kuntze = *Astragalus hallii* Gray var. *hallii*

*heydeniana* (Gray) Kuntze = *Astragalus bisulcatus* (Hooker) Gray var. *bisulcatus*

*humistrata* (Gray) Kuntze = *Astragalus humistratus* Gray var. *humistratus*

*lotiflora* (Hooker) Kuntze = *Astragalus lotiflorus* Hooker

*missouriensis* (Nuttall) Kuntze = *Astragalus missouriensis* Nuttall var. *missouriensis*

*nothoxys* (Gray) Kuntze = *Astragalus nothoxys* Gray

*shortiana* (Nuttall) Kuntze = *Astragalus shortianus* Nuttall

*sonorae* (Gray) Kuntze = *Astragalus humistratus* Gray var. *sonorae* (Gray) M.E. Jones

*tephrodes* (Gray) Kuntze = *Astragalus tephrodes* Gray

*thurberi* (Gray) Kuntze = *Astragalus thurberi* Gray

*vaccarum* (Gray) Kuntze = *Astragalus vaccarum* Gray

***Trifolium*** clover

Allred, K.W. 1999. New plant distribution records. The New Mexico Botanist 13:7. [*Trifolium campestre*]

Barneby, R.C. 1989. *Trifolium*, p. 210-232. IN: Intermountain Flora, Vol. 3. New York Botanical Garden.

Ellison, N.W., A. Liston, J.J. Steiner, W.M. Williams, & N.L. Taylor. 2006. Molecular phylogenetics of the clover genus (*Trifolium*—Leguminosae). Molecular Phylogenetics & Evolution 39: 688-705.

Gillett, J.M. 1965. Taxonomy of *Trifolium*: Five American species of section *Lupinaster* (Leguminosae). Brittonia 17: 121-136.

Gillett, J.M. 1969. Taxonomy of *Trifolium* (Leguminosae). II. The *T. longipes* complex in North America. Canad. J. Bot. 47: 93-113.

Gillett, J.M. 1980. Taxonomy of *Trifolium*, V: The perennial species of section *Involucarium*. Canad. J. Bot. 58: 1425-1488.

Hall, H.H. & S. Flowers. 1961. Vascular plants found in the Navajo Reservoir Basin, pp. 47-87. IN: D.M. Pendergast (ed.). Ecological studies of the flora and fauna of Navajo Reservoir Basin, Colorado and New Mexico. Univ. Utah Anthropological Papers, number 55.

Isely, D. 1980. New combinations and one new variety in *Trifolium* (Leguminosae). Brittonia 32:55-57.

Zohary, M. & D. Heller. 1984. The Genus *Trifolium*. The Israel Academy of Sciences and Humanities, Jerusalem. 606 pp.

*albopurpureum* Torrey & A. Gray : Reported by Hall & Flowers (1961), but known only from the Pacific Coast region; awaits verification.

*andinum* Nuttall : Reported erroneously by Isely's map (1998), which seems to give the distribution of *Trifolium attenuatum*: awaits verification.

*arizonicum* Greene = *Trifolium wormskioldii* Lehmann var. *arizonicum* (Greene) Barneby

***attenuatum*** Greene [Isely 1998; W&S; Zohary & Heller 1984]

*Trifolium dasyphyllum* Torrey & Gray var. *stenolobum* (Rydberg) McDermott

*Trifolium stenolobum* Rydberg

***brandegeei*** S. Watson [M&H]

**\**campestre*** Schreber [Allred 1999]

*Trifolium procumbens* Linnaeus

***dasyphyllum*** Torrey & Gray [Isely 1998] : Note: Reported by Isely (1998) from Colfax County and by M&H; M&H based their report on numerous specimens belonging to

*Trifolium attenuatum* Greene; despite Isely's report, no specimens from NM are known to me.

*Trifolium dasyphyllum* Torrey & Gray var. *uintense* (Rydberg) Welsh

*Trifolium uintense* Rydberg

*dasyphyllum* Torrey & Gray var. *stenolobum* (Rydberg) McDermott = *Trifolium attenuatum* Greene

*dasyphyllum* Torrey & Gray var. *uintense* (Rydberg) Welsh = *Trifolium dasyphyllum* Torrey & Gray

\***dubium** Sibthorp [FNM I]

*fendleri* Greene = *Trifolium wormskioldii* Lehmann var. *wormskioldii*

\***fragiferum** Linnaeus [M&H]

\**gracilentum* Torrey & Gray : Reported by Isely (1998), citing a specimen from Lincoln Co.; no specimens have been found; considered a one-time adventive occurrence that has not persisted.

**gymnocarpon** Nuttall [Isely 1998; M&H; W&S]

*Trifolium gymnocarpon* Nuttall var. *subacaulescens* (Gray) A. Nelson

*Trifolium subacaulescens* Gray

*gymnocarpon* Nuttall var. *subacaulescens* (Gray) A. Nelson = *Trifolium gymnocarpon* Nuttall

\**incarnatum* Linnaeus : Planted at Bosque del Apache Wildlife Refuge in 1957; not persisting; not otherwise known from the state; awaits verification.

\***hybridum** Linnaeus [M&H; W&S]

*lacerum* Greene = *Trifolium wormskioldii* Lehmann var. *arizonicum* (Greene) Barneby

*longicaule* Wooton & Standley = *Trifolium wormskioldii* Lehmann var. *longicaule* (Wooton & Standley) L. Benson

*longipes* Nuttall var. *longipes* : Not known from NM [Isely 1998; Zohary & Heller 1984].

**longipes** Nuttall var. **neurophyllum** (Greene) Martin ex Isely [M&H; W&S]

*Trifolium neurophyllum* Greene

*Trifolium rusbyi* Greene subsp. *neurophyllum* (Greene) Heller & Zohary

**longipes** Nuttall var. **reflexum** A. Nelson [Isely 1998; W&S]

*Trifolium rusbyi* Greene subsp. *reflexum* (A. Nelson) Heller & Zohary

*Trifolium rydbergii* Greene

**longipes** Nuttall var. **rusbyi** (Greene) Harrington [Isely 1998]

*Trifolium rusbyi* Greene

*melilotus-indica* Linnaeus = *Melilotus indicus* (Linnaeus) Allioni

*melilotus-officinalis* Linnaeus = *Melilotus officinalis* (Linnaeus) Pallas

*mucronatum* Willdenow ex Sprengel subsp. *lacerum* (Greene) J.M. Gillett = *Trifolium wormskioldii* Lehmann var. *arizonicum* (Greene) Barneby

**nanum** Torrey [M&H; W&S]

*neurophyllum* Greene = *Trifolium longipes* Nuttall var. *neurophyllum* (Greene) Martin ex Isely

**parryi** Gray [M&H; W&S]

*pinetorum* Greene = *Trifolium wormskioldii* Lehmann var. *longicaule* (Wooton & Standley) L. Benson

\***pratense** Linnaeus [M&H; W&S]

red clover

*procumbens* Linnaeus = *Trifolium campestre* Schreber

\***repens** Linnaeus [M&H; W&S]

white clover

*rusbyi* Greene = *Trifolium longipes* Nuttall var. *rusbyi* (Greene) Harrington

*rusbyi* Greene subsp. *neurophyllum* (Greene) Heller & Zohary = *Trifolium longipes* Nuttall var. *neurophyllum* (Greene) Martin ex Isely

*rusbyi* Greene subsp. *reflexum* (A. Nelson) Heller & Zohary = *Trifolium longipes* Nuttall var. *reflexum* A. Nelson

*rydbergii* Greene = *Trifolium longipes* Nuttall var. *reflexum* A. Nelson

*stenolobum* Rydberg = *Trifolium attenuatum* Greene

*subacaulescens* Gray = *Trifolium gymnocarpon* Nuttall

*uintense* Rydberg = *Trifolium dasyphyllum* Torrey & Gray var. *uintense* (Rydberg) Welsh

*willdenovii* auctores, misapplied = *Trifolium wormskioldii* Lehmann var. *wormskioldii*

**wormskioldii** Lehmann var. **arizonicum** (Greene) Barneby [M&H]

*Trifolium arizonicum* Greene

*Trifolium lacerum* Greene

*Trifolium mucronatum* Willdenow ex Sprengel subsp. *lacerum* (Greene) J.M. Gillett

**wormskioldii** Lehmann var. **longicaule** (Wooton & Standley) L. Benson [M&H; W&S]

*Trifolium longicaule* Wooton & Standley

*Trifolium pinetorum* Greene

**wormskioldii** Lehmann var. **wormskioldii** [M&H; W&S]

*Trifolium fendleri* Greene

*Trifolium willdenovii* of authors, misapplied

**Vachellia** white-thorn

Kyalangalilwa B, J.S. Boatwright, B.H. Daru, O. Maurin, & M. van der Bank. 2013. Phylogenetic position and revised classification of *Acacia* s.l. (Fabaceae: Mimosoideae) in Africa, including new combinations in *Vachellia* and *Senegalia*. Botanical Journal of the Linnean Society 172(4): 500-523

Maslin, B. R., J. T. Miller and D. S. Seigler. 2003. Overview of the generic status of *Acacia* (Leguminosae: Mimosoideae). Australian Systematic Botany 16: 1-18.

Seigler, D.S. & J.E. Ebinger. 2006. New combinations in the genus *Vachellia* (Fabaceae: Mimosoideae) from the New World. Phytologia 87(3): 139-178.

**constricta** (Benth) Seigler & Ebinger [M&H; W&S]

western white-thorn

*Acacia constricta* Benth

*Acacia constricta* Benth var. *paucispina* Wooton & Standley

**vernica** (Britton & Rose) Seigler & Ebinger [M&H; W&S]

eastern white-thorn

*Acacia constricta* Benth var. *vernica* (Standley) L. Benson

*Acacia neovernica* Isely

*Acacia vernica* Standley, not Fitzgerald

*Acaciopsis vernica* Britton & Rose

**Vexibia** sophora, vexibia

Cardoso, D., R.T. Pennington, L.P. de Queiroz, J.S. Boatwright, B.-E. Van Wyk, M.F. Wojciechowski, & M. Lavin. 2013. Reconstructing the deep-branching relationships of the papilionoid legumes. South African J. Bot. 89: 58-75.

Heenan, P.B., M.I. Dawson, & S.J. Wagstaff. 2004. The relationship of *Sophora* sect. *Edwardsia* (Fabaceae) to *Sophora tomentosa*, the type species of the genus *Sophora*, observed from DNA sequence data and morphological characters. Bot. J. Linn. Soc. 146:439-446.

Pennington, T. & M. Wojciechowski. 2008. The status of *Sophora*. The Plantsman, Sept. 2008: 186-189.

Weber, W.A. 1987. New names and combinations, principally in the Rocky Mountain flora – VI. Phytologia 62(5): 437-438.

**nuttalliana** (B.L. Turner) W.A. Weber [M&H; W&S]

*Sophora nuttalliana* B.L. Turner

*Sophora sericea* Nuttall

*Vexibia sericea* Rafinesque

**stenophylla** (Gray) W.A. Weber [M&H; W&S]

*Sophora stenophylla* Gray

*sericea* Rafinesque = *Vexibia nuttalliana* (B.L. Turner) W.A. Weber

*Viborquia orthocarpa* (Gray) Cockerell = *Eysenhardtia polystachya* (Ortega) Sargent

**Vicia** vetch

Allred, K.W. & S. Johnson. 2003. A taxonomic review of the tendril-bearing legumes (Leguminosae) in New Mexico: II. *Vicia*. The New Mexico Botanist 26:1-5.

Great Plains Flora Association. 1977. Atlas of the Flora of the Great Plains. Iowa State Univ. Press. 600 pp. [*Vicia dasycarpa*]

Gunn, C.R. 1968. The *Vicia americana* complex (Leguminosae). Iowa State J. Sci. 42:171-214.

Lassetter, J.S. 1984. Taxonomy of the *Vicia ludoviciana* complex (Leguminosae). Rhodora 86:475-505.

Schaefer, H., P. Hechenleitner, A. Santos-Guerra, M. Menezes de Sequeira, R.T. Pennington, G. Kenicer, & M.A. Carines. 2012. Systematics, biogeography, and character evolution of the legume tribe Fabaeae with special focus on the middle-Atlantic island lineages. Evolutionary Biology 12(250): 1-19.

Spellenberg, R., R. Worthington, P. Knight, & R. Fletcher. 1986. Additions to the flora of New Mexico. Sida 11(4):455-470. [*Vicia villosa*]

**americana** Muhlenberg ex Willdenow [Allred & Johnson 2003; M&H; W&S]

- Vicia americana* Muhlenberg ex Willdenow var. *linearis* (Nuttall) S. Watson  
*Vicia americana* Muhlenberg ex Willdenow var. *minor* Hooker  
*Vicia americana* Muhlenberg ex Willdenow subsp. *oregana* (Nuttall) Abrams  
*Vicia americana* Muhlenberg ex Willdenow var. *truncata* (Nuttall) Brewer  
*Vicia caespitosa* A. Nelson  
*Vicia dissitifolia* (Nuttall) Rydberg  
*Vicia linearis* Nuttall  
*Vicia linearis* Nuttall var. *caespitosa* (A. Nelson) A. Nelson  
*Vicia oregana* Nuttall  
*Vicia sparsifolia* Nuttall  
*americana* Muhlenberg ex Willdenow var. *linearis* (Nuttall) S. Watson = *Vicia americana*  
Muhlenberg ex Willdenow  
*americana* Muhlenberg ex Willdenow var. *minor* Hooker = *Vicia americana* Muhlenberg ex  
Willdenow  
*americana* Muhlenberg ex Willdenow subsp. *oregana* (Nuttall) Abrams = *Vicia americana*  
Muhlenberg ex Willdenow  
*americana* Muhlenberg ex Willdenow var. *truncata* (Nuttall) Brewer = *Vicia americana*  
Muhlenberg ex Willdenow  
*angustifolia* Linnaeus = *Vicia sativa* Linnaeus var. *angustifolia* Linnaeus  
*caespitosa* A. Nelson = *Vicia americana* Muhlenberg ex Willdenow  
*dasycarpa* Tenore = *Vicia villosa* Roth  
*dissitifolia* (Nuttall) Rydberg = *Vicia americana* Muhlenberg ex Willdenow  
*exigua* Nuttall = *Vicia ludoviciana* Nuttall  
*leavenworthii* Torrey & Gray [= *Vicia ludoviciana* Nuttall ex Torrey & Gray subsp.  
*leavenworthii* (Torrey & Gray) Lassetter & Gunn] : Reported by M&H  
and W&S, but Lassetter (1984) reports this taxon far to the east; awaits  
further verification.  
***leucophaea*** Greene [Allred & Johnson 2003; M&H; W&S]  
*linearis* Nuttall = *Vicia americana* Muhlenberg ex Willdenow  
*linearis* Nuttall var. *caespitosa* (A. Nelson) A. Nelson = *Vicia americana* Muhlenberg ex  
Willdenow  
*ludoviciana* Nuttall ex Torrey & Gray subsp. *leavenworthii* (Torrey & Gray) Lassetter &  
Gunn : Reported by M&H and W&S, but Lassetter (1984) reports this  
taxon far to the east; needs verification.  
***ludoviciana*** Nuttall ex Torrey & Gray subsp. ***ludoviciana*** [Allred & Johnson 2003;  
Lassetter 1984; M&H; W&S]  
*Vicia exigua* Nuttall  
*melilotoides* Wooton & Standley = *Vicia pulchella* Kunth  
*oregana* Nuttall = *Vicia americana* Muhlenberg ex Willdenow  
***pulchella*** Kunth [Allred & Johnson 2003; M&H; W&S]  
*Vicia melilotoides* Wooton & Standley  
\****sativa*** Linnaeus var. ***angustifolia*** Linnaeus [M&H; W&S]  
*Vicia angustifolia* Linnaeus  
*Vicia sativa* Linnaeus subsp. *nigra* (Linnaeus) Ehrhart  
*sativa* Linnaeus subsp. *nigra* (Linnaeus) Ehrhart = *Vicia sativa* Linnaeus var. *angustifolia*  
Linnaeus  
*sparsifolia* Nuttall = *Vicia americana* Muhlenberg ex Willdenow  
*varia* Host = *Vicia villosa* Roth  
\****villosa*** Roth [Allred & Johnson 2003; Spellenberg et al. 1986]  
*Vicia dasycarpa* Tenore  
*Vicia varia* Host  
*Vicia villosa* Roth var. *glabrescens* W.D.J. Koch  
*Vicia villosa* Roth subsp. *varia* (Host) F.M.L. Corbière  
*villosa* Roth var. *glabrescens* W.D.J. Koch = *Vicia villosa* Roth  
*villosa* Roth subsp. *varia* (Host) F.M.L. Corbière = *Vicia villosa* Roth  
*Xylophacos amphioxys* (Gray) Rydberg = *Astragalus amphioxys* Gray var. *amphioxys*  
*brachylobus* (Gray) Rydberg = *Astragalus tephrodes* Gray  
*cyaneus* (Gray) Rydberg = *Astragalus cyaneus* Gray  
*iodopetalus* Rydberg = *Astragalus iodopetalus* (Rydberg) Barneby  
*missouriensis* (Nuttall) Rydberg = *Astragalus missouriensis* Nuttall var. *missouriensis*

*newberryi* (Gray) Rydberg = *Astragalus newberryi* Gray  
*puniceus* (Osterhout) Rydberg = *Astragalus puniceus* Osterhout var. *puniceus*  
*shortianus* (Nuttall) Rydberg = *Astragalus shortianus* Nuttall  
*tephrodes* (Gray) Rydberg = *Astragalus tephrodes* Gray  
*vespertinus* (Sheldon) Rydberg = *Astragalus amphioxys* Gray var. *vespertinus* (Sheldon)  
 M.E. Jones

**Family FAGACEAE** [1/15/15]

***Quercus*** oak

- Hershey, A.L. & P.J. Leyendecker, Jr. 1944. Notes on plants of New Mexico – III. Leaflet. West. Bot. 4(2):21-25. [*Quercus toumeyii*]  
 Nixon, K.C. 1997. *Quercus*, pp. 445-506. IN: Flora of North America, vol. 3. Oxford University Press.  
 Spellenberg, R., M. Mahrt & R. Brozka. 1991. Noteworthy collections, New Mexico. Madroño 38:298-301.  
 [ *Quercus chrysolepis*, *Quercus palmeri* ]  
 Tucker, J.M. 1961. Studies in the *Quercus undulata* complex. I. A preliminary statement. Amer. J. Bot. 48:202-208.  
 Tucker, J.M. 1961. Studies in the *Quercus undulata* complex. II. The contribution of *Quercus turbinella*. Amer. J. Bot. 48:329-339.  
 Tucker, J.M. & J. Maze. 1966. Bur oak (*Quercus macrocarpa*) in New Mexico. Southwestern Naturalist 11:402-405. [*Quercus macrocarpa*]  
 Tucker, J.M. 1970. Studies in the *Quercus undulata* complex. IV. The contribution of *Quercus havardii*. Amer. J. Bot. 57:71-84.
- arizonica*** Sargent [Nixon 1997; M&H; W&S]  
 Arizona oak
- chrysolepis*** Liebmann [Nixon 1997; Spellenberg et al. 1991; W&S]  
 canyon live oak  
*Quercus wilcoxii* Rydberg
- confusa* Wootton & Standley = *Quercus undulata* Torrey pro sp.  
*diversicolor* Trelease = *Quercus rugosa* Née
- emoryi*** Torrey [Nixon 1997; M&H; W&S]  
 Emory's oak
- fendleri* Liebmann = *Quercus undulata* Torrey pro sp.
- gambelii*** Nuttall [Nixon 1997; M&H; W&S]  
 Gambel's oak  
*Quercus gunnisonii* (Torrey & Gray) Rydberg  
*Quercus leptophylla* Rydberg  
*Quercus novomexicana* (A.P. de Candolle) Rydberg  
*Quercus submollis* Rydberg  
*Quercus utahensis* (A.P. de Candolle) Rydberg  
*Quercus vreelandii* Rydberg
- grisea*** Liebmann [Nixon 1997; M&H; W&S]  
 gray oak
- gunnisonii* (Torrey & Gray) Rydberg = *Quercus gambelii* Nuttall
- havardii*** Rydberg [Nixon 1997; M&H; W&S]  
 shin-oak  
*Quercus havardii* Rydberg var. *tuckeri* Welsh  
*Quercus welschii* Denham
- havardii* Rydberg var. *tuckeri* Welsh = *Quercus havardii* Rydberg
- hypoleuca* Engelmann = *Quercus hypoleucoides* A. Camus
- hypoleucoides*** A. Camus [Nixon 1997; M&H; W&S]  
 silver-leaf oak  
*Quercus hypoleuca* Engelmann (later homonym of *Quercus hypoleuca* Miquel)
- leptophylla* Rydberg = *Quercus gambelii* Nuttall
- ×*macrocarpa* Michaux : Plants of presumably hybrid origin between *Quercus gambelii* × *Quercus macrocarpa* were reported from Union Co. by Tucker & Maze (1966); some of these plants (though not populations) possibly may be referred to *Quercus macrocarpa*.
- media* Wootton & Standley = *Quercus undulata* Torrey pro sp.
- mohriana*** Buckley ex Rydberg [Nixon 1997; M&H]

- Mohr oak  
**muehlenbergii** Engelm. [Nixon 1997; M&H; W&S]  
 chinkapin oak  
*novomexicana* (A.P. de Candolle) Rydberg = *Quercus gambelii* Nuttall  
**oblongifolia** Torrey [Nixon 1997; M&H; W&S]  
 blue oak  
 ×*organensis* Trelease : Putative hybrids of *Quercus arizonica* Sargent × *Quercus grisea* Liebmann [Nixon 1997].  
 palmeri Engelm. : Reported by Spellenberg et al. 1991; NM plants identified as *Quercus palmeri* are intermediate between this and *Quercus chrysolepis*, likely the result of introgression; they are best classified as *Quercus chrysolepis* Liebmann aff. *Q. palmeri* [Nixon 1997].  
*pauciloba* Rydberg = *Quercus undulata* Torrey, pro. sp.  
**pungens** Liebmann [Nixon 1997; M&H; W&S]  
 sandpaper oak  
*reticulata* Humboldt & Bonpland = *Quercus rugosa* Née  
**rugosa** Née [Nixon 1997; M&H; W&S]  
 net-leaf oak  
*Quercus diversicolor* Trelease  
*Quercus reticulata* Humboldt & Bonpland  
*rydbergiana* Cockerell = *Quercus undulata* Torrey pro sp.  
*submollis* Rydberg = *Quercus gambelii* Nuttall  
**toumeyi** Sargent [Nixon 1997; Hershey & Leyendecker 1944; M&H]  
 Toumey's oak  
**turbinella** Greene [Nixon 1997; M&H; W&S]  
 scrub oak  
 ×**undulata** Torrey, pro. sp. [M&H; W&S] Note: This is a catch-all name for hybrids involving *Quercus gambelii* Nuttall.  
 wavy-leaf oak  
*Quercus confusa* Wootton & Standley  
*Quercus fendleri* Liebmann  
*Quercus media* Wootton & Standley  
*Quercus pauciloba* Rydberg  
*Quercus rydbergiana* Cockerell  
*Quercus venustula* Greene  
*utahensis* (A.P. de Candolle) Rydberg = *Quercus gambelii* Nuttall  
*venustula* Greene = *Quercus undulata* Torrey pro sp.  
*vreelandii* Rydberg = *Quercus gambelii* Nuttall  
*welshii* Denham = *Quercus havardii* Rydberg  
*wilcoxii* Rydberg = *Quercus chrysolepis* Liebmann

### Family FOUQUIERIACEAE [1/1/1]

Henrickson, J. 1972. A taxonomic revision of Fouquieriaceae. *Aliso* 7:439-537.

- Fouquieria** ocotillo  
**splendens** Engelm. [M&H; W&S]

### Family FRANKENIACEAE [1/2/2]

Gaskin, J.F., F. Ghahremani-nejad, D-y. Zhang, & J.P. Londo . 2004. A systematic overview of Frankeniaceae and Tamaricaceae from nuclear rDNA and plastid sequence data. *Ann. Missouri Bot. Gard.* 91: 401-409.

- Frankenia** frankenia  
 Whalen, M.A. 1987. Systematics of *Frankenia* (Frankeniaceae) in North and South America. *Syst. Bot. Monogr.* 17: 1-93.  
**jamesii** Torrey ex Gray [M&H; W&S]  
 \***pulverulenta** Linnaeus [FNM I]

Family FUMARIACEAE = PAPAVERACEAE

**Family GARRYACEAE** [1/2/2]

**Garrya** silktassel

- Dahling, G.V. 1978. Systematics and evolution of *Garrya*. Contr. Gray Herb. No. 209.  
 Nesom, G.L. 2012. Notes on the *Garrya ovata* complex (Garryaceae). Phytoneuron 2012-97: 1-6.  
 Nesom, G.L. 2016. Garryaceae, pp. 548-554. IN: Flora of North America, vol. 12. Oxford University Press.  
*flavescens* S. Watson : Reported by M&H and Nesom (2016), but unequivocal specimens are unknown; awaits verification.  
***goldmanii*** Wooton & Standley [M&H; Nesom 2016; W&S]  
*Garrya ovata* Bentham subsp. *goldmanii* (Wooton & Standley) Dahling  
*Garrya ovata* Bentham var. *goldmanii* (Wooton & Standley) B.L. Turner  
*ovata* Bentham subsp. *goldmanii* (Wooton & Standley) Dahling = *Garrya goldmanii* Wooton & Standley  
*ovata* Bentham var. *goldmanii* (Wooton & Standley) B.L. Turner = *Garrya goldmanii* Wooton & Standley  
***wrightii*** Torrey [M&H; Nesom 2016; W&S]

**Family GENTIANACEAE** [13/24/24]

- Allred, K.W. 1976. The plant family Gentianaceae in Utah. Great Basin Naturalist 36: 483-495.  
 Gentian Research Network. 2011. Newest Classification of Gentianaceae. Gentian Research Network website, accessed February 2019. (<http://www.rci.rutgers.edu/~gentian/classNEW123.htm>)  
 Gillett, J. M. 1957. A revision of the North American species of *Gentianella* Moench. Ann. Missouri Bot. Gard. 44: 195-269.  
 Judd, Walter S., Christopher S. Campbell, Elizabeth A. Kellogg, Peter F. Stevens, & Michael J. Donoghue. 2016. Amaranthaceae, pp.450-452. Plant Systematics, A Phylogenetic Approach, Sinauer Associates, Inc.  
 Mason, C.T. Jr. 1998. Gentianaceae [of Arizona]. J. Ariz.-Nev. Acad. Sci. 30(2): 84-95.  
 Struwe, L., J.W. Kadereit, J. Klackenberg, S. Nilsson, M. Thiv, K.B. von Hagen, & V.A. Albert. 2002. Systematics, character evolution, and biogeography of Gentianaceae, including a new tribal and subtribal classification, p. 21-309. IN: L. Struwe & V.A. Albert (eds.), Gentianaceae: Systematics and Natural History, Cambridge University Press, Cambridge.  
 Struwe L. 2014. Classification and Evolution of the Family Gentianaceae. p. 13-35. IN: J. Rycyzyński, M. Davey, A. Mikula (eds). The Gentianaceae - Volume 1: Characterization and Ecology. Springer, Berlin, Heidelberg.  
*Amarella cobrensis* Greene = *Gentianella wrightii* (Gray) Holub  
*heterosepala* (Engelmann) Greene = *Gentianella hetersepala* (Engelmann) Holub  
*plebeia* (Chamisso) Greene = *Gentianella acuta* (Michaux) Hultén  
*scopulorum* Greene = *Gentianella hetersepala* (Engelmann) Holub  
*strictiflora* (Rydberg) Greene = *Gentianella acuta* (Michaux) Hultén  
*Anthopogon barbellatus* (Engelmann) Rydberg = *Gentianopsis barbellata* (Engelmann) Iltis  
*elegans* (A. Nelson) Rydberg = *Gentianopsis thermalis* (Kuntze) Iltis  
*thermalis* (Kuntze) Rydberg = *Gentianopsis thermalis* (Kuntze) Iltis  
*Bilamista grandiflora* Rafinesque = *Eustoma exaltatum* (Linnaeus) Salisbury ex G. Don  
*Centaurium arizonicum* (Gray) Heller = *Zeltnera arizonica* (Gray) Mansion  
*calycosum* of NM reports = *Zeltnera arizonica* (Gray) Mansion  
*calycosum* (Buckley) Fernald var. *arizonicum* (Gray) Tidestrom = *Zeltnera arizonica* (Gray) Mansion  
*exaltatum* (Grisebach ex Hooker) W.F. Wight ex Piper = *Zeltnera exaltata* (Grisebach ex Hooker) Mansion  
*maryannum* B.L. Turner = *Zeltnera maryanniana* (B.L. Turner) Mansion  
*nudicaule* (Engelmann) B.L. Robinson = *Zeltnera nudicaulis* (Engelmann) Mansion  
*texense* (Grisebach) Fernald [= *Zeltnera texensis* (Grisebach ex Hooker) Mansion] :  
 Reported by M&H & W&S, but this is a species of central Texas; NM plants perhaps belong to *Zeltnera arizonica*.  
*Chironia angularis* Linnaeus = *Sabatia angularis* (Linnaeus) Pursh  
**Chondrophylla** moss gentian  
***fremontii*** (Torrey) A. Nelson [M&H; W&S]  
*Gentiana aquatica* of NM reports  
*Gentiana fremontii* Torrey  
***prostrata*** (Haenke) J.P. Anderson [FNM I]  
*Gentiana prostrata* Haenke  
*Cicendia exaltata* Grisebach = *Zeltnera exaltata* (Grisebach) Mansion



**Comastoma** comastoma

Hagen, K.B. & J.W. Kadereit. 2001. The phylogeny of *Gentianella* (Gentianaceae) and its colonization of the southern hemisphere as revealed by nuclear and chloroplast DNA sequence variation. *Org. Divers. Evol.* 1: 61-79.

Toyokuni, H. 1961. Séparation de *Comastoma*, genre nouveau, d'avec *Gentianella*. *Bot. Mag. (Tokyo)* 74: 198.

Toyokuni, H. 1962. Further remarks to the genus *Comastoma*. *Acta Phytotax. Geobot.* 20: 136-138.

**tenellum** (Rottboell) Toyokuni [Gillett 1957; M&H]

*Gentiana tenella* Rottboell

*Gentianella tenella* (Rottboell) Börner

*Dasystephana affinis* (Grisebach) Rydberg = *Pneumonanthe affinis* (Grisebach) Greene

*bigelovii* (Gray) Rydberg = *Pneumonanthe affinis* (Grisebach) Greene

*interrupta* (Greene) Rydberg = *Pneumonanthe affinis* (Grisebach) Greene

*parryi* (Engelmann) Rydberg = *Pneumonanthe parryi* (Engelmann) Greene

*romanzovii* (Ledebour) Rydberg = *Gentianodes algida* (Pallas) A.&D. Love

*rusbyi* (Greene ex Kusnezow) Wooton & Standley = *Pneumonanthe affinis* (Grisebach) Greene

*Erythraea arizonica* (Gray) Rydberg = *Zeltnera arizonica* (Gray) Mansion

*calycosa* Buckley = *Zeltnera calycosa* (Buckley) Mansion

*calycosa* Buckley var. *arizonica* Gray = *Zeltnera arizonica* (Gray) Mansion

*nudicaulis* Engelmann = *Zeltnera nudicaulis* (Engelmann) Mansion

**Eustoma** prairie gentian

Shinners, L.H. 1957. Synopsis of the genus *Eustoma* (Gentianaceae). *Southwestern Naturalist* 2:38-43.

Turner, B.L. 2014. Taxonomic overview of *Eustoma* (Gentianaceae). *Phytologia* 96(1): 7-11.

**exaltatum** (Linnaeus) Salisbury ex G. Don [M&H; W&S]

*Bilamista grandiflora* Rafinesque

*Eustoma exaltatum* subsp. *russellianum* (Hooker) Kartesz

*Eustoma grandiflorum* (Rafinesque) Shinners

*Eustoma grandiflorum* forma *album* (Holz) Waterfall

*Eustoma grandiflorum* forma *bicolor* (Standley) Shinners

*Eustoma grandiflorum* forma *roseum* (Standley) Shinners

*Eustoma russellianum* (Hooker) G. Don in Sweet

*Eustoma russellianum* var. *flavum* A.M. Davis

*Eustoma silenifolium* Salisbury

*Gentiana exaltata* Linnaeus

*Lisianthus russellianus* Hooker

*exaltatum* subsp. *russellianum* (Hooker) Kartesz = *Eustoma exaltatum* (Linnaeus) Salisbury ex G. Don

*grandiflorum* (Rafinesque) Shinners = *Eustoma exaltatum* (Linnaeus) Salisbury ex G. Don

*grandiflorum* forma *album* (Holz) Waterfall = *Eustoma exaltatum* (Linnaeus) Salisbury ex G. Don

*grandiflorum* forma *bicolor* (Standley) Shinners = *Eustoma exaltatum* (Linnaeus) Salisbury ex G. Don

*grandiflorum* forma *roseum* (Standley) Shinners = *Eustoma exaltatum* (Linnaeus) Salisbury ex G. Don

*russellianum* (Hooker) G. Don in Sweet = *Eustoma exaltatum* (Linnaeus) Salisbury ex G. Don

*russellianum* var. *flavum* A.M. Davis = *Eustoma exaltatum* (Linnaeus) Salisbury ex G. Don

*silenifolium* Salisbury = *Eustoma exaltatum* (Linnaeus) Salisbury ex G. Don

**Frasera** fraseria

Chassot, P., S. Nemomissa, Y.-M. Yuan, & P. Kupfer. 2001. High paraphyly of *Swertia* L. (Gentianaceae) in the *Gentianella*-lineage as revealed by nuclear and chloroplast DNA sequence variation. *Plant Syst. Evol.* 229:1-21.

Heil, K.D., S.L. O'Kane, & A. Clifford. 2002. Additions to the flora of New Mexico from the San Juan Basin Flora project. *The New Mexico Botanist* 24:1-4. [*Frasera albomarginata*]

Holmgren, N. 1984. Gentianaceae, pp. 4-23. IN: *Intermountain Flora*, vol. 4. New York Botanical Garden.

St. John, H. 1941. Revision of the genus *Swertia* (Gentianaceae) of the Americas and the reduction of *Frasera*. *Amer. Midl. Natural.* 26:1-29.

**albomarginata** S. Watson [Heil et al. 2002]

*Swertia albomarginata* (S. Watson) Kuntze

**paniculata** Torrey [1857] [M&H; W&S]

Non *Swertia paniculata* Wallich [1832]

*Frasera utahensis* M.E. Jones [Apr 1891]

*Swertia bigelovii* Kuntze [Nov 1891]

*Swertia utahensis* (M.E. Jones) St. John

***speciosa*** Douglas ex Grisebach [M&H; W&S]

elkweed, monument plant

*Frasera speciosa* Douglas ex Grisebach var. *scabra* M.E. Jones

*Frasera stenosepala* Rydberg

*Frasera venosa* Greene

*Swertia radiata* (Kellogg) Kuntze

*Swertia radiata* (Kellogg) Kuntze var. *macrophylla* (Greene) St. John

*speciosa* Douglas ex Grisebach var. *scabra* M.E. Jones = *Frasera speciosa* Douglas ex Grisebach

*stenosepala* Rydberg = *Frasera speciosa* Douglas ex Grisebach

*utahensis* M.E. Jones = *Frasera paniculata* Torrey

*venosa* Greene = *Frasera speciosa* Douglas ex Grisebach

*Gentiana acuta* Michaux = *Gentianella acuta* (Michaux) Hultén

*affinis* Grisebach = *Pneumonanthe affinis* (Grisebach) Greene

*algida* Pallas = *Gentianodes algida* (Pallas) A.&D. Love

*aquatica* of NM reports = *Chondrophylla fremontii* (Torrey) A. Nelson

*barbellata* Engelm = *Gentianopsis barbellata* (Engelmann) Iltis

*bigelovii* Gray = *Pneumonanthe affinis* (Grisebach) Greene

*calycosa* of NM reports = *Pneumonanthe parryi* (Engelmann) Greene

*elegans* A. Nelson = *Gentianopsis thermalis* (Kuntze) Iltis

*exaltata* Linnaeus = *Eustoma exaltata* (Linnaeus) Salisbury ex G. Don

*forwoodii* of NM reports = *Pneumonanthe affinis* (Grisebach) Greene

*fremontii* Torrey = *Gentiana aquatica* (Linnaeus) Weber

*heterosepala* Engelm = *Gentianella hetersepala* (Engelmann) Holub

*interrupta* Greene = *Pneumonanthe affinis* (Grisebach) Greene

*nigricans* Lamarck = *Houstonia nigricans* (Lamarck) Fernald [Rubiaceae]

*parryi* Engelm = *Pneumonanthe parryi* (Engelmann) Greene

*plebeia* Chamisso = *Gentianella acuta* (Michaux) Hultén

*prostrata* Haenk = *Chondrophylla prostrata* (Haenke) J.P. Anderson

*romanzovii* Ledebour = *Gentianodes algida* (Pallas) A.&D. Love

*rusbyi* Greene ex Kusnezow = *Pneumonanthe affinis* (Grisebach) Greene

*scopulorum* (Greene) Tidestrom = *Gentianella hetersepala* (Engelmann) Holub

*strictiflora* (Rydberg) A. Nelson = *Gentianella acuta* (Michaux) Hultén

*tenella* Rottboell = *Comastoma tenellum* (Rottboell) Toyokuni

*thermalis* Kuntze = *Gentianopsis thermalis* (Kuntze) Iltis

*wislizeni* Engelm (= *Gentianella wislizeni* (Engelmann) Gillett) : Reported as expected by M&H; awaits verification.

*wrightii* Gray = *Gentianella wrightii* (Gray) Holub

***Gentianella*** gentianella

Gillett, J.M. 1957. A revision of the North American species of *Gentianella* Moench. Ann. Missouri Bot. Gard. 44:195-269.

Hagen, K. B. von & J. W. Kadereit. 2001. The phylogeny of *Gentianella* (Gentianaceae) and its colonization of the southern hemisphere as revealed by nuclear and chloroplast DNA sequence variation. Organisms Diversity Evol. 1: 61-79.

Nesom, G.L. 1991. Taxonomy of *Gentianella* (Gentianaceae) in Mexico. Phytologia 70: 1-20.

***acuta*** (Michaux) Hultén [Gillett 1957; M&H; W&S]

*Amarella plebeia* (Chamisso) Greene

*Amarella strictiflora* (Rydberg) Greene

*Gentiana acuta* Michaux

*Gentiana plebeia* Chamisso

*Gentiana strictiflora* (Rydberg) A. Nelson

*Gentianella amarella* (Linnaeus) Börner subsp. *acuta* (Michaux) Gillett

*amarella* (Linnaeus) Börner subsp. *acuta* (Michaux) Gillett = *Gentianella acuta* (Michaux) Hultén

*amarella* (Linnaeus) Börner subsp. *heterosepala* (Engelmann) Gillett = *Gentianella hetersepala* (Engelmann) Holub

*amarella* (Linnaeus) Börner subsp. *wrightii* (Gray) Gillett = *Gentianella wrightii* (Gray) Holub

- heterosepala*** (Engelmann) Holub [Gillett 1957; M&H; W&S]  
*Amarella heterosepala* (Engelmann) Greene  
*Amarella scopulorum* Greene  
*Gentiana heterosepala* Engelmann  
*Gentiana scopulorum* (Greene) Tidestrom  
*Gentianella amarella* (Linnaeus) Börner subsp. *heterosepala* (Engelmann) Gillett
- tenella* (Rottboell) Börner = *Comastoma tenellum* (Rottboell) Toyokuni
- wrightii*** (Gray) Holub [Gillett 1957]  
*Amarella cobrensis* Greene  
*Gentiana wrightii* Gray  
*Gentianella amarella* (Linnaeus) Börner subsp. *wrightii* (Gray) Gillett
- Gentianodes*** arctic gentian  
Yuan, Y.-M., P. Kopfer, & F.J. Doyle. 1996. Infrageneric phylogeny of the genus *Gentiana* (Gentianaceae) inferred from nucleotide sequences of the internal transcribed spacer (ITS) of nuclear ribosomal DNA. *Amer. J. Bot.* 83(5): 641-652.
- algida*** (Pallas) A.&D. Love [M&H; W&S]  
*Dasystephana romanzovii* (Ledebour) Rydberg  
*Gentiana algida* Pallas  
*Gentiana romanzovii* Ledebour
- Gentianopsis*** fringed-gentian  
Gillett, J. M. 1957. A revision of the North American species of *Gentianella* Moench. *Ann. Missouri Bot. Gard.* 44: 195-269.  
Iltis, H.H. 1965. The genus *Gentianopsis* (Gentianaceae): transfers and phylogeographic comments. *Sida* 2:129-154.  
Pringle, J. S. 2004. Notes on the distribution and nomenclature of North American *Gentianopsis* (Gentianaceae). *Sida* 21: 525-530.
- barbellata*** (Engelmann) Iltis [Iltis 1965; M&H; W&S]  
*Anthopogon barbellatus* (Engelmann) Rydberg  
*Gentiana barbellata* Engelmann
- detonsa* (Rottboell) Ma var. *elegans* (A. Nelson) N. Holmgren = *Gentianopsis thermalis* (Kuntze) Iltis
- thermalis*** (Kuntze) Iltis [Iltis 1965; M&H; W&S]  
*Anthopogon elegans* (A. Nelson) Rydberg  
*Anthopogon thermalis* (Kuntze) Rydberg  
*Gentiana elegans* A. Nelson  
*Gentiana thermalis* Kuntze  
*Gentianopsis detonsa* (Rottboell) Ma var. *elegans* (A. Nelson) N. Holmgren
- Halenia*** spurred-gentian  
Allen, C.K. 1933. A monograph of the American species of the genus *Halenia*. *Ann. Missouri Bot. Gard.* 20: 119-222.  
Pringle, J.S. 2007. Nomenclature of the spurred-gentian of the southwestern United States and northwestern Mexico, *Halenia rothrockii* (Gentianaceae). *Madrono* 54(4):326-328.  
Wilbur, R.L. 1984. A synopsis of the genus *Halenia* (Gentianaceae) in Mexico. *Rhodora* 86: 311-337.  
*recurva* of NM reports = *Halenia rothrockii* Gray Note: The true *Halenia recurva* (Small) C.K. Allen is native to Colombia, and does not occur in NM [Pringle 2007].
- rothrockii*** Gray [M&H; Pringle 2007; W&S]  
*Halenia recurva* of NM reports  
*Lisianthus russellianus* Hooker = *Eustoma exaltatum* (Linnaeus) Salisbury ex G. Don
- Lomatogonium*** marsh-felwort  
Fernald, M.L. 1919. *Lomatogonium* the correct name for *Pleurogyne*. *Rhodora* 21:193.  
Ho, T.-n. & S.-w. Liu. 2015. A Worldwide Monograph of *Swertia* and Its Allies. Science Press. 430 pp.  
Pringle, J.S. 2013. Nomenclatural notes on North American *Gyandra* (*Centaurium* s. lat.) and *Lomatogonium* (Gentianaceae). *Rhodora* 115(961): 96-111.
- rotatum*** (Linnaeus) Fries ex Fernald var. ***fontanum*** (A. Nelson) J.S. Pringle [M&H; W&S]  
*Pleurogyne fontana* A. Nelson  
*Pleurogyne rotata* (Linnaeus) Grisebach  
*Swertia rotata* Linnaeus  
*Pleurogyne fontana* A. Nelson = *Lomatogonium rotatum* (Linnaeus) Grisebach  
*rotata* Grisebach = *Lomatogonium rotatum* (Linnaeus) Grisebach

**Pneumonanthe** bottle-gentian

Yuan, Y.-M., P. Kopfer, & F.J. Doyle. 1996. Infrageneric phylogeny of the genus *Gentiana* (Gentianaceae) inferred from nucleotide sequences of the internal transcribed spacer (ITS) of nuclear ribosomal DNA. *Amer. J. Bot.* 83(5): 641-652.

**affinis** (Grisebach) Greene [M&H; W&S]

*Dasystephana affinis* (Grisebach) Rydberg  
*Dasystephana bigelovii* (Gray) Rydberg  
*Dasystephana interrupta* (Greene) Rydberg  
*Dasystephana rusbyi* (Greene ex Kusnezow) Wootton & Standley  
*Gentiana affinis* Grisebach  
*Gentiana affinis* Grisebach subsp. *rusbyi* (Greene ex Kusnezow) Halda  
*Gentiana bigelovii* A. Gray  
*Gentiana interrupta* Greene  
*Gentiana rusbyi* Greene ex Kusnezow  
*Pneumonanthe bigelovii* (A. Gray) Greene  
*Pneumonanthe rusbyi* (Greene ex Kusnezow) Greene

*bigelovii* (A. Gray) Greene = *Pneumonanthe affinis* (Grisebach) Greene

**parryi** (Engelmann) Greene [M&H; W&S]

*Dasystephana parryi* (Engelmann) Rydberg  
*Gentiana calycosa* of NM reports  
*Gentiana parryi* Engelmann

*rusbyi* Greene ex Kusnezow = *Pneumonanthe affinis* (Grisebach) Greene

**Sabatia** rose-gentian

Allred, K.W. 1999. New plant distribution records. *The New Mexico Botanist* 13:7. [*Sabatia angularis*]

Mathews, K.G., M.S. Ruigrok, & G. Mansion. 2015. Phylogeny and biogeography of the eastern North American rose gentians (*Sabatia*, Gentianaceae). *Syst. Bot.* 40(3): 811-825.

Perry, J.D. 1971. Biosystematic studies in the North American genus *Sabatia* (Gentianaceae). *Rhodora* 73: 309-369.

Wilbur, R.L. 1955. A revision of the North American genus *Sabatia* (Gentianaceae). *Rhodora* 57: 1-33, 43-71, 78-104.

\***angularis** (Linnaeus) Pursh [Allred 1999]

*Chironia angularis* Linnaeus

\***campestris** Nuttall [FNM I]

**Swertia** star gentian

Chassot, P., S. Nemomissa, Y.-M. Yuan, & P. Kupfer. 2001. High paraphyly of *Swertia* L. (Gentianaceae) in the *Gentianella*-lineage as revealed by nuclear and chloroplast DNA sequence variation. *Plant Syst. Evol.* 229:1-21.

Ho, T.-n. & S.-w. Liu. 2015. *A Worldwide Monograph of Swertia and Its Allies*. Science Press. 430 pp.

St. John, H. 1941. Revision of the genus *Swertia* (Gentianaceae) of the Americas and the reduction of *Frasera*. *Amer. Midl. Natural.* 26:1-29.

*albomarginata* (S. Watson) = *Frasera albomarginata* S. Watson

*bigelovii* Kuntze = *Frasera paniculata* Torrey

*palustris* A. Nelson = *Swertia perennis* Linnaeus

**perennis** Linnaeus [M&H; W&S]

*Swertia palustris* A. Nelson

*radiata* (Kellogg) Kuntze var. *macrophylla* (Greene) St. John = *Frasera speciosa* Douglas ex Grisebach

*radiata* (Kellogg) Kuntze = *Frasera speciosa* Douglas ex Grisebach

*rotata* Linnaeus = *Lomatogonium rotatum* (Linnaeus) Fries ex Fernald

*utahensis* (M.E. Jones) St. John = *Frasera paniculata* Torrey

**Zeltnera** centaury

Broome, C.R. 1977. Four new species of *Centaurium* (Gentianaceae) from Mexico. *Madroño* 24: 235-244.

Mansion, G. 2004. A new classification of the polyphyletic genus *Centaurium* Hill (Chironiinae, Gentianaceae): description of the New World endemic *Zeltnera*, and reinstatement of *Gyrandra* Griseb. and *Schenkia* Griseb. *Taxon* 53(3):719-740.

Mansion, G. & L. Zeltner. 2004. Phylogenetic relationships within the New World endemic *Zeltnera* (Gentianaceae – Chironiinae) inferred from molecular and karyological data. *Amer. J. Bot.* 91(12): 2069-2086.

Turner, B.L. 1993. The Texas species of *Centaurium* (Gentianaceae). *Phytologia* 75:259-275.

**arizonica** (Gray) Mansion [Turner 1993]

*Centaurium arizonicum* (Gray) Heller

*Centaurium calycosum* of NM reports

- Centaurium calycosum* (Buckley) Fernald var. *arizonicum* (Gray) Tidestrom  
*Erythraea arizonica* (Gray) Rydberg  
*Erythraea calycosa* Buckley var. *arizonica* Gray  
*Zeltnera calycosa* of NM reports  
calycosa (Buckley) Mansion : Reported by various authors, but our plants belong to  
*Zeltnera arizonica* (Gray) Mansion.  
*Centaurium calycosum* (Buckley) Fernald  
*Erythraea calycosa* Buckley  
***exaltata*** (Grisebach) Mansion [M&H]  
*Centaurium exaltatum* (Grisebach) W.F. Wight ex Piper  
*Cicendia exaltata* Grisebach  
***maryanniana*** (B.L. Turner) Mansion [Turner 1993]  
*Centaurium maryannum* B.L. Turner  
***nudicaulis*** (Engelmann) Mansion [Turner 1993]  
*Centaurium nudicaule* (Engelmann) B.L. Robinson  
*Erythraea nudicaulis* Engelmann  
texensis (Grisebach ex Hooker) Mansion : Reported by M&H & W&S (in *Centaurium*),  
but this is a species of central Texas; NM plants might belong to *Zeltnera*  
*arizonica* [Turner 1993].

### Family GERANIACEAE [2/10/10]

Robertson, K.R. 1972. The genera of Geraniaceae in the southeastern United States. *J. Arnold Arbor.* 53:182-201.

#### ***Erodium*** filaree

- Evangelista, D., S. Hotton, & J. Dumais. 2011. The mechanics of explosive dispersal and self-burial in the seeds of the filaree, *Erodium cicutarium* (Geraniaceae). *J. Exp. Biology* 214(4): 521–529.  
Fiz, O., P. Vargas, M.L. Alarcon, & J.J. Aldasoro. 2011. Phylogenetic relationships and evolution in *Erodium* (Geraniaceae) based on *trnL-trnF* sequences. *Syst. Bot.* 31(4): 739-763.

#### \****cicutarium*** (Linnaeus) L'Héretier ex Aiton [M&H; W&S]

*Geranium cicutarium* Linnaeus

#### ***texanum*** Gray [M&H; W&S]

#### ***Geranium*** geranium

- Aedo, C. 2000. The genus *Geranium* L. (Geraniaceae) in North America. I. Annual species. *Anales Jard. Bot. Madrid* 58(1):39-82.  
Aedo, C. 2001. The genus *Geranium* L. (Geraniaceae) in North America. II. Perennial species. *Anales Jard. Bot. Madrid* 59(1):3-65. [*Geranium wislizeni*]  
Aedo, C. & P.J. Alexander. 2011. *Geranium dodecateoides*, a new species from New Mexico, U.S.A. *Rhodora* 113(955): 252-259.  
Aedo, C. 2012. Revision of *Geranium* (Geraniaceae) in the New World. *Syst. Bot. Monogr.* 95: 1-550.  
Holmgren, N. 1997. *Geranium*, pp. 330-336. IN: Intermountain Flora, vol. 3A. New York Botanical Garden.  
Jones, G.N. & F.F. Jones. 1943. A revision of the perennial species of *Geranium* of the United States and Canada. *Rhodora* 45: 5-26, 32-53.

*albiflorum* Hooker  $\beta$  *incisum* Torrey & Gray = *Geranium oreganum* Howell

*atropurpureum* Heller = *Geranium caespitosum* James

#### ***caespitosum*** James [M&H; W&S]

*Geranium atropurpureum* Heller

*Geranium caespitosum* James var. *eremophilum* (Wooton & Standley) Martin & Hutchins ined. [not validly published by Martin & Hutchins]

*Geranium caespitosum* James subsp. *atropurpureum* (Heller) W.A. Weber

*Geranium eremophilum* Wooton & Standley

*Geranium fremontii* Torrey ex Gray

*Geranium fremontii* Torrey ex Gray var. *parryi* Engelmann

*Geranium furcatum* Hanks

*Geranium parryi* (Engelmann) Heller

*caespitosum* James var. *eremophilum* (Wooton & Standley) Martin & Hutchins ined. [This combination not validly published by M&H; see ICBN, Article 33] =

*Geranium caespitosum* James

*caespitosum* James subsp. *atropurpureum* (Heller) W.A. Weber = *Geranium caespitosum* James

#### ***carolinianum*** Linnaeus [M&H]

- Geranium langloissi* Greene  
*cicutarium* Linnaeus = *Erodium cicutarium* (Linnaeus) L'Héretier ex Aiton  
+ **dodecathoides** Alexander & Aedo [Aedo & Alexander 2011]  
*eremophilum* Wootton & Standley = *Geranium caespitosum* James  
*fremontii* Torrey ex Gray = *Geranium caespitosum* James  
*fremontii* Torrey ex Gray var. *parryi* Engelman = *Geranium caespitosum* James  
*furcatum* Hanks = *Geranium caespitosum* James  
*langloissi* Greene = *Geranium carolinianum* Linnaeus  
**lentum** Wootton & Standley [Aedo 2001; W&S]  
*nervosum* Rydberg = *Geranium viscosissimum* Fischer & C.A. Meyer var. *incisum* (Torrey & Gray) N.H. Holmgren  
oreganum Howell : not known from NM, but including names previously attributed to the state.  
*Geranium albiflorum* Hooker β *incisum* Torrey & Gray  
*Geranium viscosissimum* Fischer & C.A. Meyer var. *incisum* (Torrey & Gray) N.H. Holmgren  
*parryi* (Engelman) Heller = *Geranium caespitosum* James  
\***pusillum** Linnaeus [FNM I]  
**richardsonii** Fischer & Trautvetter [M&H; W&S]  
*strigosum* Rydberg = *Geranium viscosissimum* Fischer & C.A. Meyer var. *incisum* (Torrey & Gray) N.H. Holmgren  
**viscosissimum** Fischer & C.A. Meyer [Holmgren 1997; M&H]  
*Geranium nervosum* Rydberg  
*Geranium strigosum* Rydberg  
*Geranium viscosissimum* Fischer & C.A. Meyer subsp. *nervosum* Rydberg  
viscosissimum Fischer & C.A. Meyer var. *incisum* (Torrey & Gray) N.H. Holmgren : reported by Holmgren (1997), but Aedo (2001, 2012) applies the type and name to *Geranium oreganum* Howell of the Pacific Northwest.  
*viscosissimum* Fischer & C.A. Meyer subsp. *nervosum* Rydberg = *Geranium viscosissimum* Fischer & C.A. Meyer var. *incisum* (Torrey & Gray) N.H. Holmgren  
**wislizeni** S. Watson [Aedo 2001; M&H]

**Family GROSSULARIACEAE** [1/12/12]

- Grossularia inermis* (Rydberg) Coville & Britton = *Ribes inerne* Rydberg  
*leptantha* (Gray) Coville & Britton = *Ribes leptanthum* Gray

**Ribes** currant, gooseberry

- Berger, A. 1924. A taxonomic review of currants and gooseberries. New York Agric. Exp. Sta. Techn. Bull. 109:1-118.  
Morin, N.R. 2009. *Ribes*, p. 8-42. IN: Flora of North America, vol. 8. Oxford University Press.  
Senters, A.E. & D.E. Soltis. 2003. Phylogenetic relationships in *Ribes* (Grossulariaceae) inferred from ITS sequence data. *Taxon* 52:51-66.  
Sinnott, Q.P. 1985. A revision of *Ribes* L. subg. *Grossularia* (Miller) Persoon sect. *Grossularia* (Miller) Nuttall (Grossulariaceae) in North America. *Rhodora* 87:189-286.  
Van Arsdel, E.P. & B.W. Geils. 2004. The *Ribes* of Colorado and New Mexico and Their Rust Fungi. USDA-For. Serv. FHTET 04-13 (accessed 26 Aug 2010 at <http://www.fs.fed.us/foresthealth/technology/pdfs/ribesofcolorado.pdf>)

**americanum** Miller [M&H; W&S]

**aureum** Pursh [M&H; W&S]

golden currant

*Ribes aureum* Pursh var. *villosum* A.P. de Candolle

*Ribes odoratum* Wendland

*aureum* Pursh var. *villosum* A.P. de Candolle = *Ribes aureum* Pursh

**cereum** Douglas var. **cereum** [M&H; W&S]

*Ribes cereum* Douglas var. *pedicellare* Brewer & S. Watson

*Ribes inebrians* Lindley

*cereum* Douglas var. *pedicellare* Brewer & S. Watson = *Ribes cereum* Douglas

*coloradense* Coville = *Ribes laxiflorum* Pursh

*inebrians* Lindley = *Ribes cereum* Douglas

**inerme** Rydberg var. **inerme** [M&H; W&S]

*Grossularia inermis* (Rydberg) Coville & Britton

- lacustre** (Persoon) Poiret [Van Arsdel & Geils 2004]  
*Ribes oxyacanthoides* Linnaeus var. *lacustris* Persoon
- laxiflorum** Pursh [M&H; W&S]  
*Ribes coloradense* Coville
- leptanthum** Gray [M&H; W&S]  
*Grossularia leptantha* (Gray) Coville & Britton  
*Ribes leptanthum* Gray var. *veganum* Cockerell  
*leptanthum* Gray var. *veganum* Cockerell = *Ribes leptanthum* Gray
- mescalerium** Coville [M&H; W&S]  
*mogollonicum* Greene = *Ribes wolfii* Rothrock
- montigenum** McClatchie [M&H; W&S]  
*odoratum* Wendland = *Ribes aureum* Pursh  
*oxyacanthoides* Linnaeus var. *lacustris* Persoon = *Ribes lacustre* (Persoon) Poiret
- pinetorum** Greene [M&H; W&S]  
**viscosissimum** Pursh [Van Arsdel & Geils 2004]  
 sticky currant
- wolfii** Rothrock [M&H; W&S]  
*Ribes mogollonicum* Greene

Family GUNNERACEAE sensu stricto : Not in NM; see HALORAGACEAE

Family GUTTIFERAE = CLUSIACEAE

**Family HALORAGACEAE** [1/5/5]

*Enydria aquatica* Vellozo = *Myriophyllum aquaticum* (Vellozo) Verdcourt  
*Hippuris*...go to PLANTAGINACEAE

**Myriophyllum** water-milfoil

- Adams, T. 1998. New plant distribution records. The New Mexico Botanist 7:6. [*Myriophyllum verticillatum*]
- Aiken, S.G. 1981. A conspectus of *Myriophyllum* (Haloragaceae) in North America. *Brittonia* 33:57-69.
- Allred, K.W. 1999. New plant distribution records. The New Mexico Botanist 13:7. [*Myriophyllum aquaticum*]
- Allred, K.W. 2002. New plant distribution records. The New Mexico Botanist 21:2. [*Myriophyllum aquaticum*]
- Moody, M.L., N. Palomino, P.S.R. Weyl, J.A. Coetzee, R.M. Newman, N.E. Harms, X. Liu, & R.A. Thum. 2016. Unraveling the biogeographic origins of the Eurasian watermilfoil (*Myriophyllum spicatum*) invasion in North America. *Am. J. Bot.* 103:709-718.
- Orchard, A.E. 1981. A revision of South American *Myriophyllum* (Haloragaceae), and its repercussions on some Australian and North American species. *Brunonia* 4:27-65.
- Spellenberg, R., R. Worthington, P. Knight, & R. Fletcher. 1986. Additions to the flora of New Mexico. *Sida* 11(4):455-470. [*Myriophyllum pinnatum*]

**\*aquaticum** (Vellozo) Verdcourt [Allred 1999, 2002]

- Enydria aquatica* Vellozo  
*Myriophyllum brasiliense* Cambessèdes  
*brasiliense* Cambessèdes = *Myriophyllum aquaticum* (Vellozo) Verdcourt  
*exalbenscens* Fernald = *Myriophyllum sibiricum* Komarov  
*heterophyllum* Michaux : Reported as expected by M&H map and also by Fernald (1950); awaits verification.

**pinnatum** (Walter) Britton, Sterns, & Poggenburg [Spellenberg et al. 1986]

*Potamogeton pinnatum* Walter

**sibiricum** Komarov [M&H]

- Myriophyllum exalbenscens* Fernald  
*Myriophyllum spicatum* Linnaeus subsp. *exalbenscens* (Fernald) Hultén  
*spicatum* Linnaeus subsp. *exalbenscens* (Fernald) Hultén = *Myriophyllum sibiricum* Komarov

**\*spicatum** Linnaeus [M&H; W&S]

**verticillatum** Linnaeus [Adams 1998]

Family HEDERACEAE = ARALIACEAE

**Family HELIOTROPIACEAE** [2/4/5]

- Hasenstab-Lehman, K.E. 2017. Phylogenetics of the borage family: delimiting Boraginales and assessing closest relatives. *Aliso* 35(1):41-49.
- Hilger, H.H. & T.C.H. Cole. 2019. Boraginales Phylogeny Poster. Boraginales Working Group, <http://boraginales.myspecies.info/>, accessed 11 July 2019.
- Luebert, F., L. Cecchi, M.W. Frohlich, M. Gottschling, C.M. Guilliams, K.E. Hasenstab-Lehman, H.H. Hilger, J.S. Miller, M. Miller, M. Mittelbach, M. Nazaire, M. Nepi, D. Nocentini, D. Obdr, R.G. Olmstead, F. Selvi, M.G. Simpson, K. Sutory, B. Valdes, G.K. Walden, M. Weigend. 2016. Familial classification of the Boraginales. *Taxon* 65(3): 502-522.
- Sivinski, R.C. 2013. Boraginaceae, pp 321-337. In: *Flora of the Four Corners Region*. Missouri Botanical Garden Press, St. Louis.

**Euploca** euploca

- Sivinski, R.C., T. Lowrey and R. Peterson. 1994. Additions to the native and adventive flora of New Mexico. *Phytologia* 76(6):473-479. [*Heliotropium fruticosum*]

**convolvulacea** Nuttall [M&H; W&S]

*Heliotropium convolvulaceum* (Nuttall) Gray

**fruticosa** (Linnaeus) J.I.M. Melo & Semir [Sivinski et al. 1994]

*Heliotropium fruticosum* Linnaeus

**greggii** (Torrey) Halse & Feuillet [M&H; W&S]

*Heliotropium greggii* Torrey

**Heliotropium** heliotrope

*convolvulaceum* (Nuttall) Gray = *Euploca convolvulacea* Nuttall

**curassavicum** Linnaeus var. **curassavicum** [M&H; W&S]

*Heliotropium xerophilum* Cockerell

**curassavicum** Linnaeus var. **obovatum** A.P. de Candolle [Higgins 1979; M&H]

*Heliotropium spathulatum* Rydberg

*fruticosum* Linnaeus = *Euploca fruticosa* (Linnaeus) J.I.M. Melo & Semir

*greggii* Torrey = *Euploca greggii* (Torrey) Halse & Feuillet

*spathulatum* Rydberg = *Heliotropium curassavicum* Linnaeus var. *obovatum* A.P. de Candolle

*xerophilum* Cockerell = *Heliotropium curassavicum* Linnaeus var. *curassavicum*

**Family HYDRANGEACEAE** [4/5/7]

- Hufford, L. 1997. A phylogenetic analysis of Hydrangeaceae based on morphological data. *Int. J. Plant Sci.* 158(5): 652-672.

- Hufford, L., M.L. Moody, & D.E. Soltis. 2001. A phylogenetic analysis of Hydrangeaceae based on sequences of the plastid gene *matK* and their combination with *rbcL* and morphological data. *Int. J. Plant Sci.* 162: 835-846.

*Edwinia americana* (Torrey & Gray) Heller = *Jamesia americana* Torrey & Gray var. *americana*

**Fendlera** Fendler-bush

- McGregor, R.L. & J. Henrickson. 2016. *Fendlera*, pp. 466-468. IN: *Flora of North America*, vol. 12. Oxford University Press.

- Turner, B.L. 2001. Taxonomic revision of the genus *Fendlera* (Hydrangeaceae). *Lundellia* 4: 1-11.

*cymosa* Greene ex Wootton & Standley = *Fendlerella utahensis* (S. Watson) Heller var.

*cymosa* (Greene ex Wootton & Standley) Kearney & Peebles

*falcata* Thornber = *Fendlera rupicola* Engelm. & Gray var. *falcata* (Thornber) Rehder

**rupicola** Engelm. & Gray var. **falcata** (Thornber) Rehder [W&S]

*Fendlera falcata* Thornber

**rupicola** Engelm. & Gray var. **rupicola** [M&H; W&S]

**rupicola** Engelm. & Gray var. **wrightii** Gray [M&H; W&S]

*Fendlera tomentella* Thornber

*tomentella* Thornber = *Fendlera rupicola* Engelm. & Gray var. *wrightii* Gray

**Fendlerella** Fendler-bush

- Turner, B.L. 2013. Recension of the genus *Fendlerella* (Hydrangeaceae). *Phytologia* 95(4): 308-313.

*utahensis* (S. Watson) Heller var. *cymosa* (Greene ex Wootton & Standley)

Kearney & Peebles [M&H; W&S]

*Fendlera cymosa* Greene ex Wootton & Standley

**Jamesia** cliffbush

- Holmgren, N. & P.K. Holmgren. 1989. A taxonomic study of *Jamesia* (Hydrangeaceae). *Brittonia* 41:335-350.

**americana** Torrey & Gray var. **americana** [Holmgren & Holmgren 1989; M&H; W&S]



*Edwinia americana* (Torrey & Gray) Heller

**Philadelphus** mock-orange

Frazier, C. 1995. A taxonomic study of *Philadelphus* as it occurs in New Mexico. *The New Mexico Botanist* 13:1-6.

Hu, S.Y. 1954-56. A monograph of the genus *Philadelphus*. *J. Arnold Arbor.* 35:275-333. 36:52-109, 325-368. 37:15-90.

*argenteus* Rydberg = *Philadelphus microphyllus* Gray var. *microphyllus*

*argyrocalyx* Wooton = *Philadelphus microphyllus* Gray var. *argyrocalyx* (Wooton) Henrickson

*argyrocalyx* Wooton var. *argenteus* (Rydberg) Engler = *Philadelphus microphyllus* Gray var. *microphyllus*

*ellipticus* Rydberg = *Philadelphus microphyllus* Gray var. *argyrocalyx* (Wooton) Henrickson

*hitchcockianus* Hu = *Philadelphus mearnsii* W.H. Evans ex Rydberg

*madrensis* Hemsley = *Philadelphus microphyllus* Gray var. *madrensis* (Hemsley) Henrickson

**mearnsii** W.H.Evans ex Rydberg [Frazier 1995; M&H; W&S]

*Philadelphus hitchcockianus* Hu

*madrensis* Hemsley = *Philadelphus microphyllus* Gray var. *madrensis* (Hemsley) Henrickson

*microphyllus* Gray var. *argenteus* (Rydberg) Kearney & Peebles = *Philadelphus microphyllus* Gray var. *microphyllus*

**microphyllus** Gray var. **argyrocalyx** (Wooton) Henrickson [Frazier 1995; M&H; W&S]

*Philadelphus argyrocalyx* Wooton

*Philadelphus ellipticus* Rydberg

*Philadelphus serpyllifolius* Gray subsp. *argyrocalyx* (Wooton) Hitchcock

*Philadelphus serpyllifolius* Gray var. *argyrocalyx* (Wooton) M.E. Jones

*Philadelphus wootonii* Hu

**microphyllus** Gray var. **madrensis** (Hemsley) Henrickson [M&H]

*Philadelphus madrensis* Hemsley

**microphyllus** Gray var. **microphyllus** [Frazier 1995; M&H; W&S]

*Philadelphus argenteus* Rydberg

*Philadelphus argyrocalyx* Wooton var. *argenteus* (Rydberg) Engler

*Philadelphus argyrocalyx* Wooton subsp. *argenteus* (Rydberg) C.L. Hitchcock

*Philadelphus microphyllus* Gray var. *argenteus* (Rydberg) Kearney & Peebles

*Philadelphus occidentalis* A. Nelson

*Philadelphus microphyllus* Gray var. *ovatus* Hu

*microphyllus* Gray var. *ovatus* Hu = *Philadelphus microphyllus* Gray var. *microphyllus*

*occidentalis* A. Nelson = *Philadelphus microphyllus* Gray var. *microphyllus*

*serpyllifolius* Gray s.s. : Reported by M&H, but no verifying specimens have been found [Frazier 1995].

*serpyllifolius* Gray subsp. *argyrocalyx* (Wooton) Hitchcock = *Philadelphus microphyllus* Gray var. *argyrocalyx* (Wooton) Henrickson

*serpyllifolius* Gray var. *argyrocalyx* (Wooton) M.E. Jones = *Philadelphus microphyllus* Gray var. *argyrocalyx* (Wooton) Henrickson

*wootonii* Hu = *Philadelphus microphyllus* Gray var. *argyrocalyx* (Wooton) Henrickson

**Family HYDROPHYLLACEAE** [4/27/28]

Hilger, H.H. & T.C.H. Cole. 2019. Boraginales Phylogeny Poster. Boraginales Working Group, <http://boraginales.myspecies.info/>, accessed 11 July 2019.

Luebert, F., L. Cecchi, M.W. Frohlich, M. Gottschling, C.M. Guilliams, K.E. Hasenstab-Lehman, H.H. Hilger, J.S. Miller, M. Miller, M. Mittelbach, M. Nazaire, M. Nepi, D. Nocentini, D. Obdr, R.G. Olmstead, F. Selvi, M.G. Simpson, K. Sutory, B. Valdes, G.K. Walden, M. Weigend. 2016. Familial classification of the Boraginales. *Taxon* 65(3): 502-522.

**Ellisia** Ellis-weed

**nyctelea** Linnaeus [M&H; W&S]

*Macrocalyx nyctelea* (Linnaeus) Kuntze

*Nyctelea nyctelea* (Linnaeus) Britton

**Eucrypta** eucrypta

**micrantha** (Torrey) Heller [M&H; W&S]

*Macrocalyx micrantha* (Torrey) Coville

*Nyctelea micrantha* (Torrey) Wooton & Standley

*Phacelia micrantha* Torrey

*Eutoca sericea* Graham = *Phacelia sericea* (Graham) Gray

**Hydrophyllum** waterleaf

**fendleri** (Gray) Heller var. **fendleri** [M&H; W&S]

*Hydrophyllum occidentale* (S. Watson) Gray var. **fendleri** Gray

*occidentale* (S. Watson) Gray var. **fendleri** Gray = *Hydrophyllum fendleri* (Gray) Heller var. **fendleri**

*Macrocalyx micrantha* (Torrey) Coville = *Eucrypta micrantha* (Torrey) Heller

*nyctelea* (Linnaeus) Kuntze = *Ellisia nyctelea* Linnaeus

Nama...go to NAMACEAE

*Nyctelea micrantha* (Torrey) Wooton & Standley = *Eucrypta micrantha* (Torrey) Heller

*nyctelea* (Linnaeus) Britton = *Ellisia nyctelea* Linnaeus

**Phacelia** scorpion-weed

Atwood, N.D. 1975. A revision of the *Phacelia crenulatae* group (Hydrophyllaceae) for North America. *Great Basin Naturalist* 35:127-190.

Atwood, N.D. 2007. Six new species of *Phacelia* (Hydrophyllaceae) from Arizona and New Mexico. *Novon* 17:403-416.

Atwood, N.D. & S.L. Welsh. 2005. New species of *Mentzelia* (Loasaceae) and *Phacelia* (Hydrophyllaceae) from New Mexico. *Western North American Naturalist* 65(3):365-370. [*Phacelia sivinskii*]

Gillett, G.W. 1961. An experimental study of variation in the *Phacelia sericea* complex. *Amer. J. Bot.* 48:1-7.

Hartman, R.L. 1973. New plant records for New Mexico. *Southwestern Naturalist* 18(2):241-242. [*Phacelia denticulata*]

Knight, P.J. 1984. Noteworthy collections (New Mexico). *Madroño* 31:63. [*Phacelia splendens*]

Sivinski, R.C. 1993. Noteworthy collections (New Mexico). *Madroño* 40:273-274. [*Phacelia cephalotes*]

Sivinski, R.C. & K. Lightfoot, eds. 1994. Inventory of rare and endangered plants of New Mexico. New Mexico Forestry and Resources Conservation Division, Misc. Publ. No. 3. [*Phacelia serrata*]

Soreng, R. 1984. Noteworthy collections (New Mexico). *Madroño* 31:126. [*Phacelia demissa*]

Worthington, R.D. 2005. Plant distribution reports. *The New Mexico Botanist* 34:7. [*Phacelia cryptantha*]

**affinis** Gray [M&H]

**alba** Rydberg [Atwood 1975; M&H; W&S]

*Phacelia neomexicana* Thurber var. **alba** (Rydberg) Brand

**arizonica** Gray [Atwood 1975; M&H; W&S]

*Phacelia popei* Torrey & Gray var. **arizonica** (Gray) Voss

**bakeri** (Brand) Macbride [Atwood 1975]

*Phacelia crenulata* Torrey ex S. Watson var. **bakeri** Brand

**bombycina** Wooton & Standley [M&H; W&S]

*Phacelia tenuipes* Wooton & Standley

**caerulea** Greene [M&H; W&S]

*Phacelia intermedia* Wooton, p.p.

*campestris* A. Nelson = *Phacelia ivesiana* Torrey

**cephalotes** Gray [Sivinski 1993]

+**cloudcroftensis** N.D. Atwood [Atwood 2007]

**congesta** Hooker [M&H]

*congesta* Hooker var. **rupestris** (Greene) Macbride = *Phacelia rupestris* Greene

*corrugata* A. Nelson = *Phacelia crenulata* Torrey

**crenulata** Torrey ex S. Watson [M&H; W&S]

*Phacelia corrugata* A. Nelson

*Phacelia crenulata* Torrey ex S. Watson var. **corrugata** (A. Nelson) Brand

*Phacelia intermedia* Wooton

*crenulata* Torrey ex S. Watson var. **corrugata** (A. Nelson) Brand = *Phacelia crenulata* Torrey ex S. Watson

**cryptantha** Greene [Worthington 2005]

*crenulata* Torrey ex S. Watson var. **bakeri** Brand = *Phacelia bakeri* (Brand) Macbride

**demissa** Gray [Soreng 1984; W&S]

**denticulata** Osterhout [Hartman 1973; M&H]

- depauperata* Wooton & Standley = *Phacelia popei* Torrey & Gray  
*glandulosa* Nuttall : Reported by W&S, but not occurring in NM [Atwood 1975].  
***heterophylla*** Pursh [W&S]  
*Phacelia magellanica* (Lamarck) Coville var. *heterophylla* (Pursh) Kuntze  
***integrifolia*** Torrey var. ***integrifolia*** [M&H]  
***integrifolia*** Torrey var. ***texana*** (Voss) Atwood [Atwood 1975]  
*Phacelia texana* Voss  
*intermedia* Wooton = *Phacelia crenulata* Torrey ex S. Watson  
***ivesiana*** Torrey [M&H]  
*Phacelia campestris* A. Nelson  
*magellanica* (Lamarck) Coville var. *heterophylla* (Pursh) Kuntze = *Phacelia heterophylla*  
 Pursh  
*micrantha* Torrey = *Eucrypta micrantha* (Torrey) Heller  
*neomexicana* Thurber var. *alba* (Rydberg) Brand = *Phacelia alba* Rydberg  
***neomexicana*** Thurber ex Torrey [M&H; W&S]  
*Phacelia neomexicana* Thurber ex Torrey var. *pseudoarizonica* (Brand) Voss  
*neomexicana* Thurber ex Torrey var. *pseudoarizonica* (Brand) Voss = *Phacelia*  
*neomexicana* Thurber ex Torrey  
*palmeri* Torrey ex S. Watson : Reported by Kartesz (1999) for NM, supposedly based on a  
 report in Atwood (1975), but this is an error.  
***pinkavae*** N.D. Atwood [Atwood 2007]  
*popei* Torrey & Gray var. *arizonica* (Gray) Voss = *Phacelia arizonica* Gray  
***popei*** Torrey & Gray [Atwood 1975; M&H; W&S]  
*Phacelia depauperata* Wooton & Standley  
*Phacelia popei* Torrey & Gray var. *similis* (Wooton & Standley) Voss  
*Phacelia similis* Wooton & Standley  
*popei* Torrey & Gray var. *similis* (Wooton & Standley) Voss = *Phacelia popei* Torrey &  
 Gray  
***rupestris*** Greene [Atwood 1975; M&H; W&S]  
*Phacelia congesta* Hooker var. *rupestris* (Greene) Macbride  
***sericea*** (Graham) Gray [M&H; W&S]  
*Eutoca sericea* Graham  
***serrata*** J. Voss [Sivinski & Lightfoot 1994]  
*similis* Wooton & Standley = *Phacelia popei* Torrey & Gray  
 +***sivinskii*** Atwood, Knight, & Lowrey [Atwood & Welsh 2005]  
***splendens*** Eastwood [Knight 1984]  
*texana* Voss = *Phacelia integrifolia* Torrey var. *texana* (Voss) Atwood  
*tenuipes* Wooton & Standley = *Phacelia bombycina* Wooton & Standley

### Family HYPERICACEAE [1/3/3]

Philbrick, C.T. & G.E. Crow. 2015. Hypericaceae, pp. 69-105. IN: Flora of North America, vol. 6. Oxford University Press.

#### ***Hypericum*** St. John's-wort

Robson, N.K.B. 2002. Studies in the genus *Hypericum* L. (Guttiferae) 4(2). Section 9. *Hypericum* sensu lato (part 2): subsection 1. *Hypericum* series 1. *Hypericum*. Bull. Nat. Hist. Mus., Bot. 32:61-123.

Peterson, R.S. 2000. New plant distribution records. The New Mexico Botanist 15:7. [*Hypericum perforatum*]

Sivinski, R.C. & P. Tonne. 2011. Plant distribution reports. The New Mexico Botanist 53:4. [*Hypericum mutilum*]

*formosum* Kunth : Robson (2002) applies this name to central Mexican populations distinct from ours.

*formosum* Kunth var. *scouleri* (Hooker) Coulter = *Hypericum scouleri* Hooker

***mutilum*** Linnaeus [Sivinski & Tonne 2011]

**\**perforatum*** Linnaeus [Philbrick & Crow 2015; Peterson 2000]

***scouleri*** Hooker [M&H; Philbrick & Crow 2015; W&S]

*Hypericum formosum* Kunth var. *scouleri* (Hooker) Coulter

**Family JUGLANDACEAE** [1/3/3]

- Manning, W.E. 1938. The morphology of the flowers of the Juglandaceae. I. The inflorescence. *Amer. J. Bot.* 25(6): 407-419.
- Manning, W.E. 1940. The morphology of the flowers of the Juglandaceae. II. The pistillate flowers and fruit. *Amer. J. Bot.* 27(10): 839-852.
- Stone, D.E. 1997. Juglandaceae, pp. 416-428. IN: *Flora of North America*, vol. 3. Oxford University Press.

**Juglans** walnut

- Carvalho, M.R., G.S. Lim, S.T. Gunner, S.M. Stuber & J.L. Reveal. 2012. Typification of various western North American species of *Juglans* (Juglandaceae). *Phytoneuron* 2012-7:1-12.
- Hartman, R.L., B. Reif, B.E. Nelson, & B. Jacobs. 2006. New vascular plant records for New Mexico. *Sida* 22(2):1225-1233. [*Juglans nigra*]
- Manning, W.E. 1938. The morphology of the flowers of the Juglandaceae. I. The inflorescence. *Amer. J. Bot.* 25(6): 407-419.
- Manning, W.E. 1940. The morphology of the flowers of the Juglandaceae. II. The pistillate flowers and fruit. *Amer. J. Bot.* 27(10): 839-852.
- Whittemore, A.T. & D.E. Stone. 1997. *Juglans*, pp. 425-428. IN: *Flora of North America*, vol. 3. Oxford University Press.

**major** (Torrey) Heller [M&H; W&S]

Arizona walnut

- Juglans microcarpa* Berlandier subsp. *major* (Torrey) A.E. Murray  
*Juglans microcarpa* Berlandier var. *major* (Torrey) L.D. Benson  
*Juglans rupestris* Engelm ex Torrey var. *major* Torrey

**microcarpa** Berlandier [M&H; W&S]

little walnut

- Juglans rupestris* Engelm ex Torrey  
*microcarpa* Berlandier subsp. *major* (Torrey) A.E. Murray = *Juglans major* (Torrey) Heller  
*microcarpa* Berlandier var. *major* (Torrey) L.D. Benson = *Juglans major* (Torrey) Heller  
**\*nigra** Linnaeus [Hartman et al. 2006]

black walnut

- rupestris* Engelm ex Torrey = *Juglans microcarpa* Berlandier  
*rupestris* Engelm ex Torrey var. *major* Torrey = *Juglans major* (Torrey) Heller

**Family KOEBERLINIACEAE** [1/1/1]

**Koerberlinia** crucifixion-thorn

- Holmes, W.C., K.L. Yip, & A.E. Rushing. 2008. Taxonomy of *Koerberlinia* (Koerberliniaceae). *Brittonia* 60(2):171-184.

**spinosa** Zuccarini var. **wivaggii** Holmes, Yip, & Rushing [Holmes et al. 2008; M&H; W&S]

**Family KRAMERIACEAE** [1/3/3]

**Krameria** ratany

- Simpson, B.B. 1989. Krameriaceae. *Flora Neotropica* 49:1-108.
- Simpson, B.B. 2013. *Krameria bicolor*, the correct name for *Krameria grayi* (Krameriaceae). *Phytoneuron* 2013-62: 1.
- Simpson, B.B. 2016. Krameriaceae, pp. 24-27. IN: *Flora of North America*, vol. 12. Oxford University Press.

**bicolor** S. Watson [M&H]

- Krameria canescens* Gray (1852), non Willdenow ex Schultes (1827)  
*Krameria grayii* Rose & Painter  
*canescens* Gray = *Krameria bicolor* S. Watson

**erecta** Willdenow [M&H; W&S]

- Krameria glandulosa* Rose & Painter  
*Krameria parvifolia* Benth  
*Krameria parvifolia* Benth var. *glandulosa* (Rose & Painter) Macbride  
*glandulosa* Rose & Painter = *Krameria erecta* Willdenow ex Schultes  
*grayi* Rose & Painter = *Krameria bicolor* S. Watson

**lancoolata** Torrey [M&H; W&S]

- Krameria secundiflora* auctores non A.P. de Candolle  
*parvifolia* Benth = *Krameria erecta* Willdenow ex Schultes  
*parvifolia* Benth var. *glandulosa* (Rose & Painter) Macbride = *Krameria erecta* Willdenow ex Schultes

*secundiflora* auctores non A.P. de Candolle = *Krameria lanceolata* Torrey

Family *LABIATAE* = LAMIACEAE

**Family LAMIACEAE (LABIATAE)** [23/70/77]

[Menthaceae]

- Bendiksby, M., L. Thorbek, A. Scheen, C. Lindqvist, & O. Ryding. 2011. An updated phylogeny and classification of Lamiaceae subfamily Lamioideae. *Taxon* 60(2): 471-484.
- Judd, W.S., C.S. Campbell, E.A. Kellogg, P.F. Stevens, & M.J. Donoghue. 2016. *Plant Systematics: A Phylogenetic Approach*, 4<sup>th</sup> ed. Sinauer Associates, Inc., Sunderland, Massachusetts. 677 pp.
- Li, B., P.D. Cantino, R.G. Olmstead, G.L.C. Bramley, & C.-L. Xiang. 2016. A large-scale chloroplast phylogeny of the Lamiaceae sheds new light on its subfamilial classification. *Nature, Scientific Reports* 6: 34343.
- Martinez-Gordillo, M., B. Bedolla-Garcia, G. Comejo-Tenorio, I. Fragoso-Martinez, M. Garcia-Pena, J.G. Gonzalez-Gallegos, S.I. Lara-Cabrera, & S. Zamudio. 2017. Lamiaceae de México. *Creative Commons, Botanical Sciences* 95(4): 780-806.
- Wagstaff, S.J., L. Hickerson, R. Spangler, P.A. Reeves, & R.G. Olmstead. Phylogeny in Labiatae s. 1., inferred from cpDNA sequences. *Pl. Syst. Evol.* 209: 265-274.
- Zhong-Hui Ma6, Yun-Hong Tan7 & Dian-Xiang Zhang8
- Agastache** giant-hyssop
- Lint H. & C. Epling. 1945. A Revision of *Agastache*. *American Midland Naturalist* 33: 207-208.
- Sanders, R.W. 1981. New taxa and combinations in *Agastache* (Lamiaceae). *Brittonia* 33(2):194-197.
- Sanders, R.W. 1987. Taxonomy of *Agastache* section *Brittonastrum* (Lamiaceae-Nepeteae). *Syst. Bot. Monogr.* 15.
- Worthington, R.. 2000. New plant distribution records. *The New Mexico Botanist* 16:7. [*Agastache pallidiflora havardii*]
- breviflora** (Gray) Epling [M&H] Note: Sanders (1987) did not include NM in his distribution; perhaps merits verification.  
*Brittonastrum breviflorum* (Gray) Briquet  
*Cedronella breviflora* Gray
- breviflora* (Gray) Epling var. *havardii* (Gray) Shinnery = *Agastache pallidiflora* (Heller) Rydberg var. *havardii* (Gray) R. Sanders
- cana** (Hooker) Wootton & Standley [M&H; W&S]  
*Brittonastrum canum* (Hooker) Briquet  
*Cedronella cana* Hooker
- greenii* (Briquet) Wootton & Standley = *Agastache pallidiflora* (Heller) Rydberg var. *greenii* (Briquet) R. Sanders
- lanceolata* Standley = *Agastache rupestris* (Greene) Standley
- mearnsii** Wootton & Standley [M&H; W&S]  
*Agastache pallidiflora* (Heller) Rydberg subsp. *mearnsii* (Wootton & Standley) Lint & Epling
- micrantha** (Gray) Wootton & Standley [M&H; W&S]  
*Brittonastrum micranthum* (Gray) Briquet  
*Cedronella micrantha* Gray
- neomexicana* (Briquet) Standley = *Agastache pallidiflora* (Heller) Rydberg var. *neomexicana* (Briquet) R. Sanders
- pallidiflora* (Heller) Rydberg subsp. *mearnsii* (Wootton & Standley) Lint & Epling = *Agastache mearnsii* Wootton & Standley
- pallidiflora** (Heller) Rydberg var. *gilensis* R.W. Sanders [Sanders 1981]
- pallidiflora** (Heller) Rydberg var. *greenii* (Briquet) R. Sanders [W&S]  
*Agastache greenii* (Briquet) Wootton & Standley  
*Brittonastrum greenii* Briquet
- pallidiflora** (Heller) Rydberg var. *havardii* (Gray) R. Sanders [Worthington 2000]  
*Agastache breviflora* (Gray) Epling var. *havardii* (Gray) Shinnery  
*Cedronella breviflora* A. Gray var. *havardii* Gray
- +pallidiflora** (Heller) Rydberg var. *neomexicana* (Briquet) R. Sanders [M&H; W&S]  
*Agastache neomexicana* (Briquet) Standley  
*Brittonastrum neomexicanum* Briquet
- pallidiflora** (Heller) Rydberg var. **pallidiflora** [M&H; W&S]  
*Brittonastrum pallidiflorum* Heller

- +pringlei** (Briquet) Lint & Epling var. **verticillata** (Wooton & Standley) R. Sanders [M&H; W&S]  
*Agastache verticillata* Wooton & Standley
- rupestris** (Greene) Standley [M&H; W&S]  
*Agastache lanceolata* (Gray) Standley  
*Brittonastrum lanceolatum* (Gray) Heller  
*Brittonastrum rupestre* (Greene) Heller  
*Cedronella cana* Hooker var. *lanceolata* Gray  
*Cedronella rupestris* Greene
- verticillata* Wooton & Standley = *Agastache pringlei* (Briquet) Lint & Epling var. *verticillata* (Wooton & Standley) R. Sanders
- wrightii** (Greenman) Wooton & Standley [M&H; W&S]  
*Brittonastrum wrightii* (Greenman) Robinson  
*Cedronella wrightii* Greenman
- Brittonastrum breviflorum* (Gray) Briquet = *Agastache breviflora* (Gray) Epling  
*canum* (Hooker) Briquet = *Agastache cana* (Hooker) Wooton & Standley  
*greenei* Briquet = *Agastache pallidiflora* (Heller) Rydberg var. *greenei* (Briquet) R. Sanders  
*lanceolatum* (Gray) Heller = *Agastache rupestris* (Greene) Standley  
*micranthum* (Gray) Briquet = *Agastache micrantha* (Gray) Wooton & Standley  
*neomexicanum* Briquet = *Agastache pallidiflora* (Heller) Rydberg var. *neomexicana* (Briquet) R. Sanders  
*pallidiflorum* Heller = *Agastache pallidiflora* (Heller) Rydberg var. *pallidiflora*  
*rupestre* (Greene) Heller = *Agastache rupestris* (Greene) Standley  
*wrightii* (Greenman) Robinson = *Agastache wrightii* (Greenman) Wooton & Standley
- Calamintha arkansana* (Nuttall) Shinnars = *Clinopodium arkansanum* (Nuttall) House
- Cedronella breviflora* Gray = *Agastache breviflora* (Gray) Epling  
*breviflora* A.Gray var. *hvardii* Gray = *Agastache pallidiflora* (Heller) Rydberg var. *hvardii* (Gray) R. Sanders  
*cana* Hooker = *Agastache cana* (Hooker) Wooton & Standley  
*micrantha* Gray = *Agastache micrantha* (Gray) Wooton & Standley  
*rupestris* Greene = *Agastache rupestris* (Greene) Standley  
*wrightii* Greenman = *Agastache wrightii* (Greenman) Wooton & Standley
- Clerodendrum coulteri* (Gray) Govaerts = *Tetradlea coulteri* Gray
- Clinopodium** wild-basil
- Bräuchler, C., H. Meimberg, & G. Heubl. 2006. New names in Old World *Clinopodium* – the transfer of the species of *Micromeria* sect. *Pseudomelissa* to *Clinopodium*. *Taxon* 55(4): 977-981.
- Bräuchler, C., H. Meimberg, & G. Heubl. 2010. Molecular phylogeny of Menthinae (Lamiaceae, Nepetoideae, Mentheae) – Taxonomy, biogeography and conflicts. *Molecular Phylogenetics and Evolution* 55(2): 501-523.
- Cantino, P.D. & S.J. Wagstaff. 1998. A reexamination of North American *Satureja* s.l. (Lamiaceae) in light of molecular evidence. *Brittonia* 50(1): 63-70.
- Spellenberg, R., R. Worthington, P. Knight, & R. Fletcher. 1986. Additions to the flora of New Mexico. *Sida* 11(4):455-470. [*Clinopodium arkansanum*]
- arkansanum** (Nuttall) House [Spellenberg et al. 1986]  
*Calamintha arkansana* (Nuttall) Shinnars  
*Hedeoma arkansana* Nuttall  
*Micromeria arkansana* (Nuttall) Benthams  
*Satureja arkansana* (Nuttall) Briquet
- vulgare** Linnaeus [M&H; W&S]  
*Satureja vulgaris* (Linnaeus) Fritsch
- Dracocephalum** dragonhead
- parviflorum** Nuttall [M&H; W&S]  
*Moldavica parviflora* (Nuttall) Britton
- Hedeoma** false-pennyroyal
- Irving, R.S. 1979. *Hedeoma todsenii* (Labiatae), a new and rare species from New Mexico. *Madroño* 26:184-187. [*Hedeoma todsenii*]
- Irving, R.S. 1980. The systematics of *Hedeoma* (Labiatae). *Sida* 8:218-295.
- Sivinski, R.C. & K. Lightfoot, eds. 1995. Inventory of rare and endangered plants of New Mexico. New Mexico Forestry and Resources Conservation Division, Misc. Publ. No. 4. [*Hedeoma apiculata*]
- Spellenberg, R., R. Worthington, P. Knight, & R. Fletcher. 1986. Additions to the flora of New Mexico. *Sida* 11(4):455-470. [*Hedeoma dentata*]

Turner, B.L. 2011. Biological status of *Hedeoma drummondii*, *H. reverchonii* (Lamiaceae) and closely related taxa. *Phytologia* 93(2):174-180.

***apiculata*** Stewart [Sivinski & Lightfoot 1995]

*arkansana* Nuttall = *Clinopodium arkansanum* (Nuttall) House

*ciliata* Nuttall = *Hedeoma drummondii* Benthall [M&H]

*convisae* A. Nelson = *Hedeoma costata* Gray var. *pulchella* (Greene) Irving

***costata*** Gray var. ***pulchella*** (Greene) Irving [Irving 1980; M&H; W&S]

*Hedeoma convisae* A. Nelson

*Hedeoma pulchella* Greene

***dentata*** Torrey [Spellenberg et al. 1986]

*dentata* Torrey var. *nana* Torrey = *Hedeoma nana* (Torrey) Briquet

*diffusa* Greene : Reported by Hall & Flowers (1961); awaits verification.

***drummondii*** Benthall var. ***drummondii*** [M&H; W&S]

*Hedeoma ciliata* Nuttall

*Hedeoma lata* Small

*Hedeoma sancta* Small

***hyssopifolia*** Gray [M&H; W&S]

*incana* Torrey = *Poliomintha incana* (Torrey) Gray

*lata* Small = *Hedeoma drummondii* Benthall

***nana*** (Torrey) Briquet [M&H; W&S]

*Hedeoma dentata* Torrey var. *nana* Torrey

*Hedeoma thymoides* Gray

***oblongifolia*** (Gray) Heller var. ***oblongifolia*** [M&H; W&S]

*Hedeoma piperita* Benthall var. *oblongifolia* Gray

*Hedeoma thymoides* Gray var. *oblongifolia* Gray

*piperita* Benthall var. *oblongifolia* Gray = *Hedeoma oblongifolia* (Gray) Heller

***plicata*** Torrey [M&H; W&S]

*pulchella* Greene = *Hedeoma costata* Gray var. *pulchella* (Greene) Irving

+***pulcherrima*** Wooton & Standley [M&H; W&S]

***reverchonii*** Gray var. ***serpyllifolia*** (Small) Irving [Irving 1980]

*Hedeoma serpyllifolia* Small

*sancta* Small = *Hedeoma drummondii* Benthall

*serpyllifolia* Small = *Hedeoma reverchonii* Gray var. *serpyllifolia* (Small) Irving

*thymoides* Gray = *Hedeoma nana* (Torrey) Briquet

*thymoides* Gray var. *oblongifolia* Gray = *Hedeoma oblongifolia* (Gray) Heller

+***todsanii*** Irving [Irving 1979]

Todsens's false-pennyroyal

*Isanthus brachiatus* (Linnaeus) Britton, Sterns, & Poggenburg = *Trichostema brachiatum*

Linnaeus

***Lamium*** dead-nettle

Mennema, J. 1989. A taxonomic revision of *Lamium* (Lamiaceae). *Leiden Bot. Ser.* 11:1-198.

\****amplexicaule*** Linnaeus [M&H; W&S]

henbit

\****purpureum*** Linnaeus [FNM I]

***Leonurus*** motherwort

\****cardiaca*** Linnaeus subsp. ***cardiaca*** [M&H]

***Lycopus*** water-horehound

Henderson, N.C. 1962. A taxonomic revision of the genus *Lycopus* (Labiatae). *Amer. Midl. Naturalist* 68:95-138.

***americanus*** Muhlenberg ex W. Barton [Henderson 1962; M&H; W&S]

*Lycopus sinuatus* Elliott

***asper*** Greene [Henderson 1962; M&H; W&S]

*Lycopus lucidus* of American authors, not Turczaninow

*lucidus* of American authors, not Turczaninow = *Lycopus asper* Greene

*sinuatus* Elliott = *Lycopus americanus* Muhlenberg ex W. Barton

*Madronella parvifolia* (Greene) Rydberg = *Monardella odoratissima* Benthall

**Marrubium** horehound

Siadati, S., Y. Salmaki, S.S. Mehrvarz, G. Heubl, & M. Weigend. 2018. Untangling the generic boundaries in tribe Marrubieae (Lamiaceae: Lamioideae) using nuclear and plastid DNA sequences. *Taxon* 67(4): 770-783.

\***vulgare** Linnaeus [M&H; W&S]

*Melosmon laciniatum* (Torrey) Small = *Teucrium laciniatum* Torrey

**Mentha** mint

Bunsawat, J., N.E. Elliott, K.L. Hertweck, E. Sproles, & L.A. Alice. 2004. Phylogenetics of *Mentha* (Lamiaceae): Evidence from chloroplast DNA sequences. *Syst. Bot.* 29(4): 959-964.

Lawrence, B.M. (ed.). 2007. *Mint: The Genus Mentha*. CRC Press, New York. 527 pp.

Poland, J. & E. Clement. 2009. *The Vegetative Key to the British Flora*. Botanical Society of the British Isles, London. 526 pp.

Tucker, A.O. 2018, Dec 24. Key to *Mentha*, Jepson eFlora. Retrieved from [http://ucjeps.berkeley.edu/eflora/eflora\\_display.php?tid=9461](http://ucjeps.berkeley.edu/eflora/eflora_display.php?tid=9461)

Tucker, A.O., R.H. Harley, & D.E. Fairbrothers. 1980. The Linnaean types of *Mentha* (Lamiaceae). *Taxon* 29(2/3): 233-255.

Tucker, A.O. & R.F.C. Naczi. 2007. *Mentha*: An overview of their classification and relationships, p. 1-40. IN: Lawrence, B.M. (ed.). 2007. *Mint: The Genus Mentha*. CRC Press, New York. 527 pp.

*arvensis* Linnaeus s.s. : Not definitely known from the state; our plants referred to *Mentha canadensis* Linnaeus

*arvensis* Linnaeus var. *penardi* Briquet = *Mentha canadensis* Linnaeus

*arvensis* Linnaeus var. *villosa* (Benth.) S.R. Stewart = *Mentha canadensis* Linnaeus

*borealis* Michaux = *Mentha canadensis* Linnaeus

**canadensis** Linnaeus [M&H; W&S]

*Mentha arvensis* Linnaeus var. *penardi* Briquet

*Mentha arvensis* Linnaeus var. *villosa* (Benth.) S.R. Stewart

*Mentha borealis* Michaux

*Mentha penardi* (Briquet) Rydberg

*crispa* Linnaeus = *Mentha spicata* Linnaeus

*crispata* Schrader ex Willdenow = *Mentha spicata* Linnaeus

*penardi* (Briquet) Rydberg = *Mentha canadensis* Linnaeus

\***piperita** Linnaeus [FNM I]

\***rotundifolia** (Linnaeus) Hudson [*longifolia*×*suaveolens*] [M&H; W&S]

*Mentha spicata* Linnaeus var. *rotundifolia* Linnaeus

*Mentha villosa* auctores, non Hudson

\***spicata** Linnaeus [M&H; W&S]

spearmint

*Mentha crispa* Linnaeus

*Mentha crispata* Schrader ex Willdenow

*Mentha spicata* Linnaeus var. *viridis* Linnaeus

*Mentha viridis* Linnaeus

*spicata* Linnaeus var. *rotundifolia* Linnaeus = *Mentha* ×*rotundifolia* (Linnaeus) Hudson

*spicata* Linnaeus var. *viridis* Linnaeus = *Mentha spicata* Linnaeus

*villosa* auctores, non Hudson = *Mentha* ×*rotundifolia* (Linnaeus) Hudson

*viridis* Linnaeus = *Mentha spicata* Linnaeus

*Micromeria arkansana* (Nuttall) Benth = *Clinopodium arkansanum* (Nuttall) House

*Moldavica parviflora* (Nuttall) Britton = *Dracocephalum parviflorum* Nuttall

**Monarda** beebalm

Henson, D.I. 1941. The genus *Monarda* in Oklahoma. *Amer. Midl. Nat.* 25(2): 358-360.

McClintock, E. & C. Epling. 1942. A review of the genus *Monarda*. *Univ. Calif. Publ. Bot.* 20:147-194.

Prather, L.A., A.K. Monfils, A.L. Posto, & R.A. Williams. 2002. Monophyly and phylogeny of *Monarda* (Lamiaceae): Evidence from the internal transcribed spacer (ITS) region of nuclear ribosomal DNA. *Syst. Bot.* 27(1): 127-137.

Prather, L.A. & J.A. Keith. 2003. *Monarda humilis* (Lamiaceae), a new combination for a species from New Mexico, and a key to the species of section *Cheilyctis*. *Novon* 13:104-109.

Scora, R. 1967. Interspecific relationships in the genus *Monarda* (Labiatae). *Univ. Calif. Publ. Bot.* 41:1-59.

Spellenberg, R., R. Worthington, P. Knight, & R. Fletcher. 1986. Additions to the flora of New Mexico. *Sida* 11(4):455-470. [*Monarda citriodora*]

Turner, B.L. 1994. Taxonomic treatment of *Monarda* (Lamiaceae) for Texas and Mexico. *Phytologia* 77:56-79.

*austromontana* Epling = *Monarda citriodora* Cervantes var. *austromontana* (Epling) Turner

*aristata* Nuttall = *Monarda citriodora* Cervantes var. *citriodora*



- citriodora*** Cervantes ex Lagasca var. ***austromontana*** (Epling) Turner [M&H; W&S]  
*Monarda austromontana* Epling  
*Monarda citriodora* Cervantes ex Lagasca subsp. *austromontana* (Epling) Scora
- citriodora*** Cervantes ex Lagasca var. ***citriodora*** [Spellenberg et al. 1986; W&S]  
*Monarda aristata* Nuttall  
*Monarda tenuiaristata* (Gray) Small
- citriodora*** Cervantes ex Lagasca var. ***pectinata*** (Nuttall) Allred [M&H; W&S]  
*comata* Rydberg = *Monarda fistulosa* Linnaeus var. *menthifolia* (Graham) Fernald
- fistulosa*** Linnaeus var. ***menthifolia*** (Graham) Fernald [M&H; W&S]  
*Monarda comata* Rydberg  
*Monarda menthifolia* Graham  
*Monarda stricta* Wooton
- +***humilis*** (Torrey) Prather & Keith [Prather & Keith 2003]  
*Monarda punctata* Linnaeus var. *humilis* Torrey  
*lasiodonta* (Gray) Small = *Monarda punctata* Linnaeus var. *lasiodonta* Gray  
*menthifolia* Graham = *Monarda fistulosa* Linnaeus var. *menthifolia* (Graham) Fernald  
*pectinata* Nuttall = *Monarda citriodora* Cervantes ex Lagasca var. *pectinata* (Nuttall) Allred  
*punctata* Linnaeus var. *humilis* Torrey = *Monarda humilis* (Torrey) Prather & Keith  
*punctata* Linnaeus var. *lasiodonta* Gray : Regarded by Turner (1994) as a taxon separate from var. *occidentalis* in eastern and southern Texas.  
*Monarda lasiodonta* (Gray) Small
- punctata*** Linnaeus var. ***occidentalis*** (Epling) Palmer & Steyermark [M&H; W&S]  
*Monarda punctata* Linnaeus subsp. *occidentalis* Epling  
*punctata* Linnaeus subsp. *occidentalis* Epling = *Monarda punctata* Linnaeus var. *occidentalis* (Epling) Palmer & Steyermark  
*stricta* Wooton = *Monarda fistulosa* Linnaeus var. *menthifolia* (Graham) Fernald  
*tenuiaristata* (Gray) Small = *Monarda citriodora* Cervantes subsp. *citriodora*
- Monardella*** mountainbalm  
Epling, C. 1925. Monograph of the genus *Monardella*. Ann. Missouri Bot. Gard. 12:1-106.  
*glauca* Greene = *Monardella odoratissima* Benthams var. *glauca* (Greene) H. St. John  
***odoratissima*** Benthams var. ***glauca*** (Greene) H. St. John [M&H; W&S]  
*Madronella parvifolia* (Greene) Rydberg  
*Monardella glauca* Greene  
*Monardella odoratissima* Benthams subsp. *glauca* (Greene) Epling  
*Monardella parvifolia* Greene  
*odoratissima* Benthams subsp. *glauca* (Greene) Epling = *Monardella odoratissima* Benthams var. *glauca* (Greene) H. St. John  
*parvifolia* Greene = *Monardella odoratissima* Benthams
- Nepeta*** catnip  
Jamzad, Z., M.W. Chase, M. Ingrouille, M.S.J. Simmonds, & A. Jalili. 2003. Phylogenetic relationships in *Nepeta* L. (Lamiaceae) and related genera based on ITS sequence data. Taxon 52: 21-32.
- \****cataria*** Linnaeus [M&H; W&S]
- Perovskia*** Russian sage  
\****atriplicifolia*** Benthams [FNM I]  
*Salvia yangii* B.T. Drew
- Physostegia*** false dragonhead  
Cantino, P.D. 1982. A monograph of the genus *Physostegia* (Labiatae). Contr. Gray Herb. No. 211:1-105.  
Cantino, P.D. & T.G. Lammers. 1983. *Physostegia virginiana* var. *arenaria* Shimek, an overlooked name. Rhodora 85: 263-264.  
*praemorsa* Shinners = *Physostegia virginiana* (Linnaeus) Benthams var. *arenaria* Shimek  
*serotina* Shinners = *Physostegia virginiana* (Linnaeus) Benthams var. *arenaria* Shimek  
***virginiana*** (Linnaeus) Benthams var. ***arenaria*** Shimek [Cantino 1982; M&H]  
*Physostegia praemorsa* Shinners  
*Physostegia serotina* Shinners  
*Physostegia virginia* (Linnaeus) Benthams subsp. *praemorsa* (Shinners) Cantino  
*virginiana* (Linnaeus) Benthams subsp. *praemorsa* (Shinners) Cantino = *Physostegia virginiana* (Linnaeus) Benthams var. *arenaria* Shimek

**Poliomintha** Rosemary-mint

Godden, G. 2009. Phylogenetic relationships in *Poliomintha* and related genera in the Mentheae (Lamiaceae). Thesis, MSc, Dept. Plant Biology, Michigan State Univ.

Irving, R.S. 1972. A revision of the genus *Poliomintha* (Labiatae). Sida 5:8-22.

Turner, B.L. 1993. Two new species of *Poliomintha* (Lamiaceae) from northeastern Mexico. Phytologia 74(2): 164-167.

**incana** (Torrey) Gray [M&H; W&S]

*Hedeoma incana* Torrey

**Prunella** selfheal

Allred, K.W. 2007. Plant distribution reports [*Prunella vulgaris hispida*]. The New Mexico Botanist 37:7.

Nelson, A.P. 1967. Racial diversity in Californian *Prunella vulgaris*. New Phyto. 66: 707-746.

**hispida** Bentham [Allred 2007]

*Prunella vulgaris* Linnaeus var. *hispida* Bentham

*pennsylvanica* Willdenov var. *lanceolata* Barton = *Prunella vulgaris* Linnaeus var. *lanceolata* (Barton) Hultén

*vulgaris* Linnaeus var. *hispida* Bentham = *Prunella hispida* Bentham

**vulgaris** Linnaeus var. **lanceolata** (Barton) Hultén [M&H; W&S]

*Prunella pennsylvanica* Willdenov var. *lanceolata* Barton

*Salazaria mexicana* Torrey : Reported as expected by M&H map; awaits verification.

**Salvia** sage

Drew, B.T., J.G. González-Gallegos, C.-L. Xiang, R. Kriebel, C.P. Drummond, J.B. Walker, & K.J. Sysma. 2017. *Salvia* united: The greatest good for the greatest number. Taxon 66(1): 133-145.

Marley, G.A. & W.L. Wagner. 1981. Noteworthy collections (New Mexico). Madroño 28:41-43. [*Salvia microphylla wislizeni*]

Sivinski, R.C. 1997. New plant distribution records. The New Mexico Botanist 5:8. [*Salvia texana*]

Sivinski, R.C., T. Lowrey, & R. Peterson. 1994. Additions to the native and adventive flora of New Mexico. Phytologia 76(6):473-479. [*Salvia pratensis*]

Spellenberg, R.S., D. Anderson, & R. Brozka. 1993. Noteworthy Collections: New Mexico. Madroño 40:136-138. [*Salvia davidsonii*]

Walker, J.B. & W.J. Elisens. 2001. A revision of *Salvia* section *Heterosphace* (Lamiaceae) in western North America. Sida 19(3):571-589.

Walker, J.B., K.J. Sysma, J. Treutlein, & M. Wink. 2004. *Salvia* (Lamiaceae) is not monophyletic: Implications for the systematics, radiation, and ecological specializations of *Salvia* and Tribe Mentheae. Amer. J. Bot. 91(7): 1115-1125.

Worthington, R.D. 1982. Noteworthy collections (New Mexico-Texas). Madroño 29:217. [*Salvia summa*]

*arizonica* Gray : Reported as expected by M&H; awaits verification.

**\*azurea** Michaux ex Vahl var. **grandiflora** Bentham [M&H; W&S]

*Salvia azurea* Michaux ex Vahl subsp. *pitcheri* (Torrey) Epling

*Salvia azurea* Michaux ex Vahl var. *pitcheri* (Torrey) Sheldon

*Salvia pitcheri* Torrey

*azurea* Michaux ex Lamarck subsp. *pitcheri* (Torrey) Epling = *Salvia azurea* Michaux ex Lamarck var. *grandiflora* Bentham

*azurea* Michaux ex Lamarck var. *pitcheri* (Torrey) Sheldon = *Salvia azurea* Michaux ex Lamarck var. *grandiflora* Bentham

*ballotiflora* Bentham var. *pinguifolia* Fernald = *Salvia pinguifolia* (Fernald) Wooton & Standley

**columbariae** Bentham var. **columbariae** [M&H]

*confinis* Fernald = *Salvia parryi* Gray

*davidsonii* Greenman = *Salvia henryi* Gray

*earlei* Wooton & Standley = *Salvia farinacea* Bentham

**farinacea** Bentham [M&H; W&S]

*Salvia earlei* Wooton & Standley

**henryi** Gray [M&H; W&S; Walker & Elisens 2001]

*Salvia davidsonii* Greenman

*lancifolia* of NM reports = *Salvia reflexa* Hornemann

**lemmonii** Gray [M&H; Marley & Wagner 1981]

*Salvia microphylla* Kunth var. *wislizeni* Gray

**lycioides** Gray [M&H; W&S]

*Salvia ramosissima* Fernald

*microphylla* Kunth var. *wislizeni* Gray = *Salvia lemmonii* Gray

*parryi* Gray : Reported as expected by M&H map; awaits verification.

*Salvia confinis* Fernald

- pinguifolia*** (Fernald) Wooton & Standley [M&H; W&S]  
*Salvia ballotiflora* Benth. var. *pinguifolia* Fernald  
*pitcheri* Torrey = *Salvia azurea* Lamarck var. *grandiflora* Benth.  
 \****pratensis*** Linnaeus [Sivinski et al. 1994]  
*ramosissima* Fernald = *Salvia lycioides* Gray  
***reflexa*** Hornemann [M&H; W&S]  
*Salvia lancifolia* of NM reports  
***subincisa*** Benth. [M&H; W&S]  
***summa*** A. Nelson [M&H; Walker & Elisens 2001; Worthington 1982]  
***texana*** (Scheele) Torrey [Sivinski 1997]  
*Salviastrum texanum* Scheele  
***vinacea*** Wooton & Standley [FNM; W&S]  
*yangii* B.T. Drew = *Perovskia atriplicifolia* Benth.  
*Salviastrum texanum* Scheele = *Salvia texana* (Scheele) Torrey  
*Satureja arkansana* (Nuttall) Briquet = *Clinopodium arkansanum* (Nuttall) House  
*vulgaris* (Linnaeus) Fritsch = *Clinopodium vulgare* Linnaeus
- Scutellaria** skullcap  
 Fernald, M.L. 1921. *Scutellaria epilobiifolia*. *Rhodora* 23: 85-86.  
 Great Plains Flora Association. 1977. Atlas of the Flora of the Great Plains. Iowa State Univ. Press. 600 pp.  
 [Scutellaria lateriflora]  
 Hamilton, A. 1932. Esquisse d'une monographie du genre *Scutellaria*, ou toque. L. Perrin, Lyon, France. 67 pp.  
 Lane, T.M. 1983. Mericarp micromorphology of Great Plains *Scutellaria* (Labiatae). *Southwestern Naturalist* 28(1): 71-79.  
 Olmstead, R.G. 1989. Phylogeny, phenotypic evolution, and biogeography of the *Scutellaria angustifolia* complex (Lamiaceae): Inference from morphological and molecular data. *Syst. Bot.* 14(3): 320-338.  
 Olmstead, R.G. 1990. Biological and historical factors influencing genetic diversity in the *Scutellaria angustifolia* complex (Labiatae). *Evolution* 44(1): 54-70.  
 Paton, A. 1990. A global taxonomic investigation of *Scutellaria* (Labiatae). *Kew Bull.* 45:399-450.  
 Turner, B.L. 1994. A taxonomic overview of *Scutellaria*, section *Resinosa* (Lamiaceae). *Phytologia* 76(5):345-382.  
 Turner, B.L. & P.G. Delprete. 1996. Nutlet sculpturing in *Scutellaria* sect. *Resinosa* (Lamiaceae) and its taxonomic utility. *Pl. Syst. Evol.* 199:109-120.
- brittonii*** Porter [M&H]  
***drummondii*** Benth. var. *edwardsiana* B.L. Turner [Turner 1994; M&H; W&S]  
***epilobiifolia*** Hamilton [M&H; W&S]  
*Scutellaria galericulata* of N. Amer. reports  
*Scutellaria galericulata* Linnaeus var. *epilobiifolia* (Hamilton) Jordal  
*galericulata* of N. Amer. reports = *Scutellaria epilobiifolia* Hamilton  
*galericulata* Linnaeus var. *epilobiifolia* (Hamilton) Jordal = *Scutellaria epilobiifolia* Hamilton
- lateriflora*** Linnaeus [Great Plains Flora Association 1977]  
***potosina*** Brandegee var. ***tessellata*** (Epling) B.L. Turner [M&H; Turner 1994]  
*Scutellaria resinosa* of NM reports, p.p.  
*Scutellaria tessellata* Epling  
*Scutellaria wrightii* of NM reports  
***potosina*** Brandegee var. ***davisiana*** B.L. Turner [FNM I]  
*Scutellaria resinosa* of NM reports, p.p.  
*resinosa* Torrey : Not known in NM; restricted to Oklahoma and Texas [Turner 1994]; our material called this is referred to *Scutellaria potosina* Brandegee [Turner 1994].  
*tessellata* Epling = *Scutellaria potosina* Brandegee var. *tessellata* (Epling) B.L. Turner  
*wrightii* Gray : Not yet known from NM [Turner 1994]; our material called this is referred to *Scutellaria potosina* Brandegee var. *tessellata* (Epling) B.L. Turner [Turner 1994].
- Stachys** hedge-nettle  
 Berumen Cornejo, A.M., C. Lindqvist, E.M.P. Molphe Balch, & M.E. Siqueiros Delgado. 2017. Phylogeny of the *Stachys coccinea* (Lamiaceae) complex based on molecular and morphological data. *Syst. Bot.* 42(3): 484-493.

- Lindqvist, C., & V.A. Albert. 2002. Origin of the Hawaiian endemic mints within North American *Stachys* (Lamiaceae). *Amer. J. Bot.* 89(10): 1709-1724.  
 Turner, B.L. 1994. Taxonomic study of the *Stachys coccinea* (Lamiaceae) complex. *Phytologia* 76(5): 391-401.

**coccinea** Jacquin [M&H; W&S]

*palustris* Linnaeus subsp. *pilosa* (Nuttall) Epling = *Stachys pilosa* Nuttall var. *pilosa*

**pilosa** Nuttall [M&H; W&S]

*Stachys palustris* Linnaeus subsp. *pilosa* (Nuttall) Epling

*Stachys scopulorum* Greene

**rothrockii** Gray [M&H; W&S]

*scopulorum* Greene = *Stachys palustris* Linnaeus subsp. *pilosa* (Nuttall) Epling

**Tetradlea** wrinkle-fruit

Moldenke, H.N. 1981. Notes on the genus *Tetradlea* (Verbenaceae). *Phytologia* 48(5): 397-413.

Yuan, Y.-W., D.J. Mabberley, D.A. Steane & R.G. Olmstead. 2010. Further disintegration and redefinition of *Clerodendrum* (Lamiaceae): Implications for the understanding of the evolution of an intriguing breeding strategy. *Taxon* 59(1): 125-133.

*angustifolia* Wooton & Standley = *Tetradlea coulteri* Gray

**coulteri** Gray [M&H; W&S]

*Clerodendrum coulteri* (Gray) Govaerts

*Tetradlea angustifolia* Wooton & Standley

*Tetradlea coulteri* Gray forma *angustifolia* (Wooton & Standley) Moldenke

*Tetradlea coulteri* Gray var. *angustifolia* (Wooton & Standley) A. Nelson & Macbride

*coulteri* Gray forma *angustifolia* (Wooton & Standley) Moldenke = *Tetradlea coulteri* Gray

*coulteri* Gray var. *angustifolia* (Wooton & Standley) A. Nelson & Macbride = *Tetradlea coulteri* Gray

**Teucrium** germander

McClintock, E. & C. Epling. 1946. A revision of *Teucrium* in the New World, with observations on its variation, geographical distribution and history. *Brittonia* 5: 491-510.

Salmaki, Y., S. Kattari, G. Heubl, & C. Bräuchler. 2016. Phylogeny of non-monophyletic *Teucrium* (Lamiaceae: Ajugoideae): Implications for character evolution and taxonomy. *Taxon* 65(4): 805-822.

*canadense* Linnaeus var. *angustatum* Gray = *Teucrium canadense* Linnaeus var. *canadense*

**canadense** Linnaeus var. **canadense** [M&H]

*Teucrium canadense* Linnaeus var. *angustatum* Gray

**canadense** Linnaeus var. **occidentale** (Gray) McClintock & Epling [M&H; W&S]

*Teucrium occidentale* Gray

**cupense** Jacquin var. **densum** Jepson [M&H]

*Teucrium cupense* Jacquin subsp. *depressum* McClintock & Epling

*Teucrium depressum* Small

*depressum* Small = *Teucrium cupense* Jacquin var. *densum* Jepson

**laciniatum** Torrey [M&H; W&S]

*Melosmon laciniatum* (Torrey) Small

*occidentale* Gray = *Teucrium canadense* Linnaeus var. *occidentale* (Gray) McClintock & Epling

**Trichostema** bluecurls

Lewis, H. 1945. A revision of the genus *Trichostema*. *Brittonia* 5:276-303.

**arizonicum** Gray [M&M; W&S]

*Trichostema mexicana* Epling

*mexicana* Epling = *Trichostema arizonicum* Gray

*brachiatum* Linnaeus : Reported by M&H (map 977) from Socorro County but treated as "to be expected" in the text; no specimens known; not reported by Lewis (1945) or W&S.

*Isanthus brachiatus* (Linnaeus) Britton, Sterns, & Poggenburg

**Vitex** chaste-tree

Peterson, R.S. 2000. New plant distribution records. *The New Mexico Botanist* 15:7. [*Vitex agnus-castus*]

**\*agnus-castus** Linnaeus [Peterson 2000]

Family LEGUMINOSAE = FABACEAE

**Family LENTIBULARIACEAE** [1/1/1]

[Pinguiculaceae]

**Utricularia** bladderwortJohnson, W.T. 1987. Bladderwort, Arizona's carnivorous wildflower. *Desert Plants* 8(3):140-141.Taylor, P. 1989. The genus *Utricularia* - a taxonomic monograph. *Kew Bull.*, Addit. Ser. 14:1-724.Taylor, P. 1991. *Utricularia* in North America north of Mexico. *Carniv. Pl. Newslett.* 20: 8-20.*macrorhiza* LeConte ex Torrey = *Utricularia vulgaris* Linnaeus subsp. *macrorhiza* (LeConte ex Torrey) R.T. Clausen*vulgaris* Linnaeus subsp. *macrorhiza* (LeConte ex Torrey) R.T. Clausen [M&H; W&S]*Utricularia macrorhiza* LeConte ex Torrey*Utricularia vulgaris* of North American reports*Utricularia vulgaris* Linnaeus var. *americana* A. Gray*vulgaris* of North American reports = *Utricularia vulgaris* Linnaeus subsp. *macrorhiza* (LeConte ex Torrey) R.T. Clausen*vulgaris* Linnaeus var. *americana* A. Gray = *Utricularia vulgaris* Linnaeus subsp. *macrorhiza* (LeConte ex Torrey) R.T. Clausen**Family LINACEAE** [1/16/17]*Cathartolinum aristatum* (Engelmann) Small = *Linum aristatum* Engelmann*australe* (Heller) Small = *Linum australe* Heller*berlandieri* (Hooker) Small = *Linum berlandieri* Hooker*neomexicanum* (Greene) Small = *Linum neomexicanum* Greene*puberulum* (Engelmann) Small = *Linum puberulum* (Engelmann) Heller*rigidum* (Pursh) Small = *Linum rigidum* Pursh var. *rigidum**vernale* (Wooton) Small = *Linum vernale* Wooton*vestitum* Wooton & Standley = *Linum puberulum* (Engelmann) Heller**Linum** flaxMcDill, J.R. & B.B. Simpson. 2011. Molecular phylogenetics of Linaceae with complete generic sampling and data from two plastid genes. *Bot. J. Linn. Soc.* 165: 64-83.Morin, N.R. 2016. Linaceae, pp. 371-403. IN: *Flora of North America*, vol. 12. Oxford University Press, New York.Mosquin, T. 1971. Biosystematic studies in the North American species of *Linum*, section *Adenolinum* (Linaceae). *Can. J. Bot.* 49:1379-1388.Rogers, C.M. 1968. Yellow-flowered species of *Linum* in Central America and western North America. *Brittonia* 20:107-135.Rogers, C.M. 1984. Linaceae. *N. Amer. Fl. II.* 12:1-58.Schneider, A.C., W.A. Freyman, M. Guillams, Y.P. Springer, & B.G. Baldwin. 2016. Pleistocene radiation of the serpentine-adapted genus *Hesperolinon* and other divergence times in Malpighiales. *Amer. J. Bot.* 103: 221-232.Sivinski, R.C. & M.O. Howard. 2011. A new species of *Linum* from the northern Chihuahuan Desert. *Phytoneuron* 2011-33:1-7.Sivinski, R.C. 2011. Plant distribution reports. *The New Mexico Botanist* 54:10. [*Linum subteres*, *Linum berlandieri filifolium*]*allredii* Sivinski & Howard [Sivinski & Howard 2011]*aristatum* Engelmann [M&H; W&S]*Cathartolinum aristatum* (Engelmann) Small*aristatum* Engelmann var. *australe* (Heller) Kearney & Peebles = *Linum australe* Heller var. *australe**aristatum* Engelmann var. *subteres* Trelease = *Linum subteres* (Trelease) Winkler*australe* Heller var. *australe* [M&H; W&S]*Cathartolinum australe* (Heller) Small*Linum aristatum* Engelmann var. *australe* (Heller) Kearney & Peebles*berlandieri* Hooker var. *berlandieri* [M&H; W&S]*Cathartolinum berlandieri* (Hooker) Small*Linum rigidum* Pursh var. *berlandieri* (Hooker) Torrey & Gray*berlandieri* Hooker var. *filifolium* (Shinners) C.M. Rogers [Sivinski 2011]*Linum rigidum* Pursh var. *filifolium* Shinners*boottii* Planchon var. *rupestre* Gray = *Linum rupestre* (Gray) Engelmann ex Gray*compactum* A. Nelson [Great Plains Flora Association 1977; Morin 2016]*Linum rigidum* Pursh var. *compactum* (A. Nelson) Rogers

**hudsonioides** Planchon [M&H]

**lewisii** Pursh [M&H; W&S]

*Linum perenne* Linnaeus var. *lewisii* (Pursh) Eaton & J. Wright

*lewisii* Pursh var. *pratense* Norton = *Linum pratense* (Norton) Small

**neomexicanum** Greene [M&H; W&S]

*Cathartolinum neomexicanum* (Greene) Small

*perenne* Linnaeus var. *lewisii* (Pursh) Eaton & J. Wright = *Linum lewisii* Pursh

**pratense** (Norton) Small [M&H]

*Linum lewisii* Pursh var. *pratense* Norton

**puberulum** (Engelmann) Heller [M&H; W&S]

*Cathartolinum puberulum* (Engelmann) Small

*Cathartolinum vestitum* Wooton & Standley

*Linum rigidum* var. *puberulum* Engelmann

*rigidum* Pursh var. *berlandieri* (Hooker) Torrey & Gray = *Linum berlandieri* Hooker

*rigidum* Pursh var. *compactum* (A. Nelson) Rogers = *Linum compactum* A. Nelson

*rigidum* Pursh var. *filifolium* Shinnars = *Linum berlandieri* Hooker var. *filifolium* (Shinnars) C.M. Rogers

*rigidum* var. *puberulum* Engelmann = *Linum puberulum* (Engelmann) Heller

**rigidum** Pursh var. **rigidum** [M&H]

*Cathartolinum rigidum* (Pursh) Small

**rupestre** (Gray) Engelmann ex Gray [Rogers 1968]

*Linum boottii* Planchon var. *rupestre* Gray

**schiedeanum** Schlechtendal & Chamisso [M&H; Rogers 1968]

**subteres** (Trelease) Winkler [Sivinski 2011]

*Linum aristatum* Engelmann var. *subteres* Trelease

**\*usitatissimum** Linnaeus [M&H]

**vernale** Wooton [M&H; W&S]

*Cathartolinum vernale* (Wooton) Small

### Family LINDERNIACEAE [1/1/1]

Fischer, E., B. Schäferhoff, & K. Müller. 2013. The phylogeny of Linderniaceae – The new genus *Linderniella*, and new combinations within *Bonnaya*, *Craterostigma*, *Lindernia*, *Micranthemum*, *Torenia*, and *Vandellia*. *Willdenowia* 43(2): 209-238.

Judd, W.S., C.S. Campbell, E. A. Kellogg, P. F. Stevens, & M. J. Donoghue. 2016. Anacardiaceae, pp. 437-439. IN: *Plant Systematics, A Phylogenetic Approach*, Sinauer Associates, Inc.

Olmstead, R.G., C.W. dePamphilis, A.D. Wolfe, N.D. Young, W.J. Elisens, & P.A. Reeves. 2001. Disintegration of the Scrophulariaceae. *Amer. J. Bot.* 88(2):348-361.

Tank, D.C., P.M. Beardsley, S.A. Kelchner, & R.G. Olmstead. 2006. Review of the systematics of Scrophulariaceae s.l. and their current disposition. *Australian Syst. Bot.* 19: 289-307.

*Ilysanthes dubia* (Linnaeus) Barnhart = *Lindernia dubia* (Linnaeus) Pennell

**Lindernia** false-pimpernel

McGrath, J. 2002. Plant distribution reports. *The New Mexico Botanist* 24:7. [*Lindernia dubia*]

*anagallidea* (Michaux) Pennell = *Lindernia dubia* (Linnaeus) Pennell

**dubia** (Linnaeus) Pennell [McGrath 2002]

*Gratiola anagallidea* Michaux

*Gratiola dubia* Linnaeus

*Ilysanthes dubia* (Linnaeus) Barnhart

*Lindernia anagallidea* (Michaux) Pennell

*Lindernia dubia* (Linnaeus) Pennell var. *anagallidea* (Michaux) Cooperrider

*dubia* (Linnaeus) Pennell var. *anagallidea* (Michaux) Cooperrider = *Lindernia dubia* (Linnaeus) Pennell

### Family LOASACEAE [2/24/26]

Moody, M.L., L. Hufford, D.E. Soltis, & P.S. Soltis. 2001. Phylogenetic relationships of Loasaceae subfamily Gronovioideae inferred from matK and ITS sequence data. *Amer. J. Bot.* 88(2): 326-336.

Mustafa, A., H.-J. Ensikat, & M. Weigend. 2018. Stinging hair morphology and wall biomineralization across five plant families: Conserved morphology versus divergent cell wall composition. *Amer. J. Bot.* 105(7): 1109-1122.

*Acrolasia albicaulis* (Douglas) Rydberg = *Mentzelia albicaulis* Douglas

- montana* Davidson = *Mentzelia montana* (Davidson) Davidson  
*parviflora* (Heller) Heller = *Mentzelia albicaulis* Douglas  
*Bartonia decapetala* Pursh ex Sims = *Mentzelia decapetala* (Pursh ex Sims) Urban  
*multiflora* Nuttall = *Mentzelia multiflora* (Nuttall) Gray  
*nuda* Pursh = *Mentzelia nuda* (Pursh) Torrey & Gray  
*pumila* Nuttall ined. = *Mentzelia pumila* Nuttall ex Torrey & Gray var. *pumila*
- Cevallia** stinging-cevallia  
*sinuata* Lagasca  
*Hesperaster strictus* Osterhout = *Mentzelia nuda* (Pursh) Torrey & Gray
- Mentzelia** blazingstar, stickleaf  
 Atwood, N.D. & S.L. Welsh. 2005. New species of *Mentzelia* (Loasaceae) and *Phacelia* (Hydrophyllaceae) from New Mexico. *Western North American Naturalist* 65(3):365-370. [*Mentzelia todiltoensis*]  
 Christy, C.M. 1998. A new flora for Arizona in preparation: Loasaceae - stickleaf or blazingstar family. *Journal of the Arizona-Nevada Academy of Science* 30(2):96-111. [*Mentzelia montana*]  
 Christy, C.M. 2013. *Mentzelia*, pp. 637-642. IN: Heil, K.D., S.L. O'Kane, L.M. Reeves, & A. Clifford. *Flora of the Four Corners Region. Monographs in Systematic Botany, Missouri Botanical Garden*, vol. 124.  
 Darlington, J. 1934. A monograph of the genus *Mentzelia*. *Ann. Missouri Bot. Gard.* 21:103-225.  
 Holmgren, N.H., P.K. Holmgren, & A. Cronquist. 2005. Loasaceae, p. 81-118. IN: Holmgren, N.H., P.K. Holmgren, & A. Cronquist. *Intermountain Flora*, vol. 2, pt. B.  
 Schenk, J.J. & L. Hufford. 2010. Taxonomic novelties from western North America in *Mentzelia* Section *Bartonia* (Loasaceae). *Madrono* 57(4):246-260. [*Mentzelia filifolia*, *M. longiloba*, *M. sivinskii*]  
 Schenk, J.J. and L. Hufford. 2016. *Mentzelia* sect. *Bartonia*, pp. 498-524 [*Mentzelia holmgreniorum*]. IN: *Flora of North America*. Vol. 12. Oxford University Press, New York.  
 Sivinski, R.C. 1998. Review and resurrection of *Mentzelia springeri* (Loasaceae). *New Mexico Naturalist's Notes* 1(2):43-45.  
 Spellenberg, R. & T. Wooten. 1999. Vascular plants on a gypsum outcrop in southern New Mexico: A listing, a new variety and taxonomic realignments in the *Amulocaulis leiosolenus* complex (Nyctaginaceae), and a new variety of *Mentzelia humilis* (Loasaceae). *Sida* 18(4):987-999.  
 Thompson, H.J. & A.M. Powell. 1981. Loasaceae of the Chihuahuan Desert region. *Phytologia* 49(1):16-32.  
 Thompson, H.J. & J.R. Zavortink. 1970. Loasaceae, pp. 1082-1087. IN: *Manual of the Vascular Plants of Texas*. Renner, Texas.  
 Todsén, T.K. 1999. A new endemic species of *Mentzelia* sect. *Bartonia* (Loasaceae) from New Mexico. *Sida* 18(3):819-822. [*Mentzelia conspicua*]
- albicaulis** (Douglas) Douglas ex Torrey & A. Gray [M&H; W&S]  
*Acrolasia albicaulis* (Douglas ex Torrey & A. Gray) Rydberg  
*Acrolasia parviflora* (Heller) Heller  
*Mentzelia parviflora* Heller  
*Mentzelia mojaviensis* H.J. Thompson & J.E. Roberts
- asperula** Wooten & Standley [M&H; Thompson & Powell 1981]  
 +**conspicua** T.K. Todsén [Todsén 1999]
- cronquistii** H.J. Thompson & Prigge [Holmgren et al. 2005; Sivinski 1998]  
*Mentzelia marginata* (Osterhout) H.J. Thompson & Prigge var. *cronquistii* (H.J. Thompson & Prigge) N.H. Holmgren & P.K. Holmgren
- decapetala** (Pursh ex Sims) Urban [M&H; W&S]  
*Bartonia decapetala* Pursh ex Sims  
*Nuttallia decapetala* (Pursh ex Sims) Greene
- filifolia** Schenk & Hufford [Schenk & Hufford 2010]  
*hintoniorum* B.L. Turner & A.L. Hempel = *Mentzelia reverchonii* (Urban & Gilg) H.J. Thompson & Zavortink
- holmgreniorum** J.J. Schenk & L. Hufford [Schenk & Hufford 2016]  
 +**humilis** (Urban & Gilg) J. Darlington var. **guadalupensis** Spellenberg [Spellenberg & Wooten 1999]
- humilis** (Urban & Gilg) J. Darlington var. **humilis** [M&H; W&S]  
*Mentzelia multiflora* (Nuttall) Gray var. *humilis* Gray, not *Acrolasia humilis* Osterhout  
*Nuttallia gypsea* Wooten & Standley  
*Nuttallia humilis* (Gray) Rydberg
- integra* (M.E. Jones) Tidestrom : Reported for NM by various authors, but not occurring in the state  
*Mentzelia multiflora* (Nuttall) Gray var. *integra* M.E. Jones

- Mentzelia pumila* Nuttall ex Torrey & Gray var. *integra* (M.E. Jones) Kearney & Peebles  
*Nuttallia integra* (M.E. Jones) Rydberg
- laciniata** (Rydberg) J. Darlington [M&H; W&S]  
*Nuttallia laciniata* (Rydberg) Wooton & Standley  
*Touterea laciniata* Rydberg  
 lindheimeri Urban & Gilg : Reported by Christy (1998), but validating specimens unknown; awaits verification.
- longiloba** J. Darlington subsp. **longiloba** [Schenk & Hufford 2010]  
**longiloba** J. Darlington subsp. **chihuahuensis** Schenk & Hufford [Schenk & Hufford 2010]  
*lutea* Greene = *Mentzelia multiflora* (Nuttall) Gray  
*marginata* (Osterhout)Thompson & Prigge var. *cronquistii* (H.J. Thompson & Prigge) N.H. Holmgren & P.K. Holmgren = *Mentzelia cronquistii* H.J. Thompson & Prigge  
*mojavensis* H.J. Thompson & J.E. Roberts = *Mentzelia albicaulis* (Douglas) Douglas ex Torrey & A. Gray  
*monosperma* Wooton & Standley = *Mentzelia oligosperma* Nuttall
- montana** (Davidson) Davidson [Christy 1998]  
*Acrolasia montana* Davidson  
 multicaulis (Osterhout) A. Nelson ex J. Darlington : Sivinski (1997, pers. comm.) contends that the single record of *Mentzelia multicaulis* is a misapplication of that name to plants of *Mentzelia springeri* (Standley) Tidestrom.  
*Nuttallia multicaulis* Osterhout
- multiflora** (Nuttall) Gray [M&H; Thompson & Powell 1981; W&S]  
*Bartonia multiflora* Nuttall  
*Mentzelia lutea* Greene  
*Mentzelia pumila* Nuttall ex Torrey & Gray var. *multiflora* (Nuttall) Urban & Gilg  
*Nuttallia multiflora* (Nuttall) Greene
- multiflora* (Nuttall) Gray var. *integra* M.E. Jones = *Mentzelia integra* (M.E. Jones) Tidestrom
- nuda** (Pursh) Torrey & Gray [M&H; W&S]  
*Bartonia nuda* Pursh  
*Hesperaster strictus* Osterhout  
*Nuttallia nuda* (Pursh) Greene  
*Nuttallia stricta* (Osterhout) Greene
- nuda* (Pursh) Torrey & Gray var. *stricta* (Osterhout) Harrington = *Mentzelia nuda* (Pursh) Torrey & Gray
- oligosperma** Nuttall ex Sims [M&H; Thompson & Powell 1981; W&S]  
*Mentzelia monosperma* Wooton & Standley  
*parviflora* Heller = *Mentzelia albicaulis* (Douglas) Douglas ex Torrey & A. Gray
- +perennis** Wooton [M&H; W&S]  
*Nuttallia perennis* (Wooton) Cockerell
- procera** (Wooton & Standley) Schenk & Hufford [M&H; W&S]  
*Mentzelia pumila* Nuttall ex Torrey & Gray var. *procera* (Wooton & Standley) J. Darlington  
*Nuttallia procera* Wooton & Standley
- pumila* Nuttall ex Torrey & Gray var. *integra* (M.E. Jones) Kearney & Peebles = *Mentzelia integra* (M.E. Jones) Tidestrom
- pumila* Nuttall ex Torrey & Gray var. *multiflora* (Nuttall) Urban & Gilg = *Mentzelia multiflora* (Nuttall) Gray
- pumila* Nuttall ex Torrey & Gray var. *procera* (Wooton & Standley) J. Darlington = *Mentzelia procera* (Wooton & Standley) Schenk & Hufford
- pumila* Nuttall ex Torrey & Gray s.s. : Reported by various authors, but our plants are referred to *Mentzelia multiflora* (Nuttall) Gray, *Mentzelia procera* (Wooton & Standley) Schenk & Hufford, and *Mentzelia reverchonii* (Urban & Gilg) Thompson & Zavortink  
*Bartonia pumila* Nuttall ined.



- Nuttallia pumila* (Nuttall ex Torrey & Gray) Greene  
*pumila* Nuttall ex Torrey & Gray var. *reverchonii* Urban & Gilg = *Mentzelia reverchonii*  
 (Urban & Gilg) Thompson & Zavortink  
***reverchonii*** (Urban & Gilg) Thompson & Zavortink [Thompson & Zavortink 1970]  
*Mentzelia hintoniiorum* B.L. Turner & A.L. Hempel  
*Mentzelia pumila* Nuttall ex Torrey & Gray var. *reverchonii* Urban & Gilg  
***rusbyi*** Wooton [M&H; W&S]  
*Nuttallia rusbyi* (Wooton) Rydberg  
 +***sivinskii*** Schenk & Hufford [Schenk & Hufford 2010]  
*speciosa* Osterhout : Reported by W&S, but endemic to Colorado, and not yet found in  
 NM.  
*Nuttallia speciosa* (Osterhout) Greene  
 +***springeri*** (Standley) Tidestrom [Sivinski 1998; W&S]  
*Nuttallia springeri* Standley  
*stricta* (Osterhout) G.W. Stevens ex Jeffs & Little = *Mentzelia nuda* (Pursh) Torrey & Gray  
***strictissima*** (Wooton & Standley) J. Darlington [M&H; W&S]  
*Nuttallia strictissima* Wooton & Standley  
 +***todiltoensis*** Atwood & Welsh [Atwood & Welsh 2005]  
***thompsonii*** Glad [Holmgren et al. 2005]  
*Acrolasia humilis* Osterhout, not *Mentzelia humilis* (Gray) J. Darlington  
*Nuttallia decapetala* (Pursh) Greene = *Mentzelia decapetala* (Pursh) Urban  
*gypsea* Wooton & Standley = *Mentzelia humilis* (Gray) J. Darlington var. *humilis*  
*humilis* (Gray) Rydberg = *Mentzelia humilis* (Gray) J. Darlington var. *humilis*  
*integra* (M.E. Jones) Rydberg = *Mentzelia integra* (M.E. Jones) Tidestrom  
*laciniata* (Rydberg) Wooton & Standley = *Mentzelia laciniata* (Rydberg) J. Darlington  
*multicaulis* Osterhout = *Mentzelia multicaulis* (Osterhout) A. Nelson ex J. Darlington  
*multiflora* (Nuttall) Greene = *Mentzelia multiflora* (Nuttall) Gray  
*nuda* (Pursh) Greene = *Mentzelia nuda* (Pursh) Torrey & Gray  
*perennis* (Wooton) Cockerell = *Mentzelia perennis* Wooton  
*procera* Wooton & Standley = *Mentzelia pumila* Nuttall ex Torrey & Gray var. *procera*  
 (Wooton & Standley) J. Darlington  
*pumila* (Nuttall ex Torrey & Gray) Greene = *Mentzelia pumila* Nuttall ex Torrey & Gray  
 var. *pumila*  
*rusbyi* (Wooton) Rydberg = *Mentzelia rusbyi* Wooton  
*speciosa* (Osterhout) Greene = *Mentzelia speciosa* Osterhout  
*springeri* Standley = *Mentzelia springeri* (Standley) Tidestrom  
*speciosa* (Osterhout) Greene = *Mentzelia speciosa* Osterhout  
*stricta* (Osterhout) Greene = *Mentzelia nuda* (Pursh) Torrey & Gray  
*strictissima* Wooton & Standley = *Mentzelia strictissima* (Wooton & Standley) J.  
 Darlington  
*Touterea laciniata* Rydberg = *Mentzelia laciniata* (Rydberg) J. Darlington

Family **LOBELIACEAE** = **CAMPANULACEAE**

Family **LOGANIACEAE**

*Buddleja*...go to **SCROPHULARIACEAE**

*Cynoctonum sessilifolium* J.F. Gmelin = *Mitreola sessilifolia* (J.F. Gmelin) G. Don

*Mitreola* hornpod

Rogers, G.K. 1986. The genera of Loganiaceae in the southeastern United States. *J. Arnold Arbor.*  
 67(2):143-185. [*Mitreola sessilifolia*]

*sessilifolia* (J.F. Gmelin) G. Don : Reported by Rogers (1986), but no specimens are  
 known, and the distribution is east Texas and eastward: awaits verification.

*Cynoctonum sessilifolium* J.F. Gmelin

Family **LORANTHACEAE** sensu stricto : not in NM; see **VISACEAE** for mistletoes

Family **LYTHRACEAE** [3/6/6]

Graham, S., J.C. Hall, K. Sytsma, & Shi, S.-H. 2005. Phylogenetic analysis of the Lythraceae based on four  
 gene regions and morphology. *Intern. J. Plant Sci.* 166(6): 995-1017.

**Ammannia** redstem

- Allred, K.W. 1999. New plant distribution records. The New Mexico Botanist 13:7. [*Ammannia coccinea*]  
 Graham, S.A. 1977. The American species of *Nesaea* (Lythraceae) and their relationships to *Heimia* and *Decodon*. Syst. Bot. 2: 61-71.  
 Graham, S.A. 1985. A revision of *Ammannia* (Lythraceae) in the Western Hemisphere. J. Arnold Arbor. 66:395-420.  
 Graham, S.A., M. Diazgranados, & J.C. Barber. 2011. Relationships among the confounding genera *Ammannia*, *Hionanthera*, *Nesaea*, and *Rotala* (Lythraceae). Bot. J. Linn. Soc. 166: 1-19.  
 Graham, S.A. & K. Gandhi. 2013. Nomenclatural changes resulting from the transfer of *Nesaea* and *Hionanthera* to *Ammannia* (Lythraceae). Harvard Papers in Botany 18(1): 71-90.

**auriculata** Willdenow [Graham 1985; M&H]

*Ammannia wrightii* Gray

**coccinea** Rottboell [Allred 1999]

**grayi** Graham & Gandhi [Graham 1977]

*Heimia longipes* (Gray) Cory

*Nesaea longipes* Gray

*ramosior* Linnaeus = *Rotala ramosior* (Linnaeus) Koehne

*wrightii* A. Gray = *Ammannia auriculata* Willdenow

**Cuphea** waxweed

- Barber, J.C., A. Ghebretinsae, & S.A. Graham. 2010. An expanded phylogeny of *Cuphea* (Lythraceae) and a North American monophyly. Plant Syst. Evol. 289: 35-44.

Todsen, T.K. 1982. Noteworthy collections (New Mexico). Madroño 29:60. [*Cuphea wrightii*]

**wrightii** Gray [M&H]

*Heimia longipes* (Gray) Cory = *Ammannia grayi* Graham & Gandhi

**Lythrum** loosestrife

- Lee, R. 1999. New Mexico's Invasive Weeds. New Mexico State Univ. Coop. Ext. Serv. [*Lythrum salicaria*]

*alatum* Pursh var. *linearifolium* A. Gray = *Lythrum californicum* Torrey & Gray

**californicum** Torrey & Gray [M&H]

*Lythrum alatum* Pursh var. *linearifolium* A. Gray

*Lythrum lineare* of NM reports

*Lythrum linearifolium* (A. Gray) Small

*lineare* of NM reports = *Lythrum californicum* Torrey & Gray

*linearifolium* (A. Gray) Small = *Lythrum californicum* Torrey & Gray

\***salicaria** Linnaeus [Lee 1999]

purple loosestrife

*Nesaea longipes* Gray = *Ammannia grayi* Graham & Gandhi

*Punica granatum* Linnaeus : Commonly cultivated, and occasionally reported for the state, but not known definitely as an escape to the wild.

**Rotala** toothcup

- Graham, S.A., M. Diazgranados, & J.C. Barber. 2011. Relationships among the confounding genera *Ammannia*, *Hionanthera*, *Nesaea*, and *Rotala* (Lythraceae). Bot. J. Linn. Soc. 166: 1-19.

Sivinski, R.C. 2002. New plant distribution reports. The New Mexico Botanist 24:7. [*Rotala ramosior*]

Sivinski, R.C. 2011. Plant distribution reports. The New Mexico Botanist 53:4.

*ramosior* (Linnaeus) Koehne : Reported by Sivinski (2002), but the identification of the specimen later (Sivinski 2011) corrected to *Ludwigia palustris*; not yet known from NM.

*Ammannia ramosior* Linnaeus

Family MALACEAE = ROSACEAE

Family MALPIGHACEAE [2/2/2]

- Davis, C.C. & W.R. Anderson. 2010. A complete generic phylogeny of Malpighiaceae inferred from nucleotide sequence data and morphology. Amer. J. Bot. 97: 2031-2048.

**Aspicarpa** asp-head

- Todsen, T.K. 1982. Noteworthy collections (New Mexico). Madroño 29:60. [*Aspicarpa hirtella*]

**hirtella** L.C.M. Richard [Todsen 1982]

*Aspicarpa longipes* Gray

*longipes* Gray = *Aspicarpa hirtella* L.C.M. Richard

**Cottisia** propeller-plant

Anderson, W.R. & C.C. Davis. 2007. Generic adjustments in Neotropical Malpighiaceae. Contributions from the University of Michigan Herbarium 25: 137–166.

**gracilis** (Gray) Anderson & Davis [M&H; W&S]

*Janusia gracilis* Gray

*Janusia gracilis* Gray = *Cottisia gracilis* (Gray) Anderson & Davis

**Family MALVACEAE** [16/53/54]

[Sterculiaceae]

Fryxell, P.A. 1988. Malvaceae of Mexico. Syst. Bot. Monogr. 25:1-522.

Fryxell, P.A. 1994. Malvaceae. J. Ariz.-Nev. Acad. Sci. 27(2):222-236.

Hanes, M.M. 2015. Malvaceae. IN: Flora of North America, vol. 6. Oxford University Press, New York.

**Abutilon** Indian-mallow

Carter, J. 1996. New plant distribution records. The New Mexico Botanist 2:5. [*Abutilon incanum pringlei*]

Peterson, R.S. & R. Spellenberg. 2005. *Abutilon* (Malvaceae) in and near New Mexico. The New Mexico Botanist 32:6-7.

**abutiloides** (Jacquin) Garcke ex Hochreutiner [FNM I]

*Sida abutiloides* Jacquin

*crispum* (Linnaeus) Sweet = *Herissantia crispata* (Linnaeus) Brizicky

**fruticosum** Guillemain & Perrottet [Peterson & Spellenberg 2005]

*Abutilon texense* Torrey & Gray

*holosericeum* Scheele = *Allowissadula holosericea* (Scheele) Bates

**incanum** (Link) Sweet [M&H; W&S]

*Abutilon incanum* (Link) Sweet subsp. *pringlei* (Hochreutiner) Felger & Lowe

*Sida incana* Link

*incanum* (Link) Sweet subsp. *pringlei* (Hochreutiner) Felger & Lowe = *Abutilon incanum* (Link) Sweet

**malacum** S. Watson [M&H; W&S]

**mollicomum** (Willdenow) Sweet [Fryxell 1988, 1994]

*Abutilon sonorae* Gray

*Sida mollicoma* Willdenow

**parvulum** Gray [M&H; W&S]

*pinkavae* P. Fryxell : Present just 9 km south of NM in Chihuahua; to be expected.

*sonorae* Gray = *Abutilon mollicomum* (Willdenow) Sweet

*texense* Torrey & Gray = *Abutilon fruticosum* Guillemain & Perrottet

**\*theophrasti** Medikus [M&H]

velvetleaf

*Sida abutilon* Linnaeus

**wrightii** Gray [M&H]

**Alcea** hollyhock

Escobar García, P., M. Pakravan, P. Schönschwetter, J. Fuertes Aguilar, & G.M. Schneeweiss. 2012.

Phylogenetic relationships in the species-rich Irano-Turanian genus *Alcea* (Malvaceae). Taxon 61(2): 324-332.

Spellenberg, R., R. Worthington, P. Knight, & R. Fletcher. 1986. Additions to the flora of New Mexico.

*Sida* 11(4):455-470. [*Althaea rosea*]

**\*rosea** Linnaeus [Spellenberg et al. 1986]

*Althaea rosea* (Linnaeus) Cavanilles

**Allowissadula** false Indian-mallow

Bates, D.M. 1978. *Allowissadula*, a new genus of North American Malvaceae. Gentes Herbarium 11(5):329-354.

Spellenberg, R. 1996. New plant distribution records. The New Mexico Botanist 4:8. [*Allowissadula holosericea*]

**holosericea** (Scheele) Bates [Spellenberg 1996]

*Abutilon holosericeum* Scheele

*Althaea rosea* (Linnaeus) Cavanilles = *Alcea rosea* Linnaeus

**Anoda** anoda

Fryxell, P.A. 1987. A revision of *Anoda* Cavanilles (Malvaceae). Aliso 11:485-522.

Fryxell, P.A. & S.R. Hill. 2015. *Anoda*, pp. 234-237. IN: Flora of North America, vol. 6. Oxford University Press, New York.

*arizonica* Gray var. *digitata* Gray = *Anoda cristata* (Linnaeus) Schlectendal

**cristata** (Linnaeus) Schlectendal [M&H; W&S]

- Anoda arizonica* Gray var. *digitata* Gray  
*Anoda cristata* (Linnaeus) Schlechtendal var. *digitata* (Gray) Hochreutiner  
*Sida cristata* Linnaeus  
*Anoda lavaterioides* Medikus  
*cristata* (Linnaeus) Schlechtendal var. *digitata* (Gray) Hochreutiner = *Anoda cristata* (Linnaeus) Schlechtendal  
***lanceolata*** Hooker & Arnott [M&H; W&S]  
*Anoda wrightii* Gray  
*lavaterioides* Medikus = *Anoda cristata* (Linnaeus) Schlechtendal  
***pentaschista*** Gray [M&H; W&S]  
*Sidanoda pentaschista* (Gray) Wootton & Standley  
***thurberi*** Gray [Fryxell & Hill 2015]  
*wrightii* Gray = *Anoda lanceolata* Hooker & Arnott
- Ayenia** ayenia  
Cristobal, C.L. 1960. Revision del genero *Ayenia* (Sterculiaceae). Lilloana 4:1-230.  
Dorr, L.J. 2015. *Ayenia*, pp. 202-207. IN: Flora of North America, vol. 6. Oxford University Press, New York.  
Whitlock, B.A. & A.M. Hale. 2011. The phylogeny of *Ayenia*, *Byttneria*, and *Rayleya* (Malvaceae s.l.) and its implications for the evolution of growth forms. Syst. Bot. 36(1):129-136.
- filiformis*** S. Watson [Cristobal 1960]  
***microphylla*** Gray [Cristobal 1960; M&H]  
***pilosa*** Cristobal [Cristobal 1960]  
*pusilla* Linnaeus : Reported by M&H, but not occurring in NM [Cristobal 1960].  
*Bogenhardia crispata* (Linnaeus) Kearney = *Herissantia crispata* (Linnaeus) Brizicky
- Callirhoë** poppy-mallow  
Dorr, L.J. 2015. *Ayenia*, pp. 202-207. IN: Flora of North America, vol. 6. Oxford University Press, New York.
- \*alcaeoides** (Michaux) Gray [M&H; W&S]  
*Sida alcaeoides* Michaux
- involutrata*** (Torrey & Gray) Gray var. ***involutrata*** [Dorr 2015; M&H; W&S]  
*Malva involutrata* Torrey & Gray
- involutrata*** (Torrey & Gray) Gray var. ***lineariloba*** (Torrey & Gray) Gray [Dorr 2015]  
*Malva involutrata* Torrey & Gray var. *lineariloba* Torrey & Gray
- Disella hederacea* (Douglas) Greene = *Malvella leprosa* (Ortega) Krapovickas  
*lepidota* (Gray) Greene = *Malvella lepidota* (Gray) Fryxell  
*sagittifolia* (Gray) Greene = *Malvella sagittifolia* (Gray) Fryxell
- Gayoides crispum* (Linnaeus) Small = *Herissantia crispata* (Linnaeus) Brizicky
- Gossypium** cotton  
Fryxell, P.A. & S.R. Hill. 2015. *Gossypium*, pp. 250-251. IN: Flora of North America, vol. 6. Oxford University Press, New York.
- \*hirsutum** Linnaeus [Fryxell & Hill 2015]
- Herissantia** bladder-mallow  
Brizicky, G.K. 1968. *Herissantia*, *Bogenhardia*, and *Gayoides* (Malvaceae). J. Arnold Arbor. 49:278-279.
- crispata*** (Linnaeus) Brizicky [M&H; W&S]  
*Abutilon crispum* (Linnaeus) Sweet  
*Bogenhardia crispata* (Linnaeus) Kearney  
*Gayoides crispum* (Linnaeus) Small  
*Sida crispata* Linnaeus
- Hibiscus** rose-mallow  
Blanchard, O.J., Jr. 2015. *Hibiscus*, pp. 252-267. IN: Flora of North America, vol. 6. Oxford University Press, New York.  
Fryxell, P.A. 1980. a revision of the American species of *Hibiscus* sect. *Bombicella*. U.S.D.A. Tech. Bull. 1624:1-53.
- biseptus S. Watson : Reported questionably by Kartesz (1999); awaits verification.
- coulteri*** Harvey ex Gray [Blanchard 2015; M&H]  
***denudatus*** Bentham [Blanchard 2015; M&H; W&S]  
*Hibiscus denudatus* Bentham var. *involucellatus* Gray  
*Hibiscus involucellatus* (Gray) Wootton & Standley

*denudatus* Benthham var. *involutellatus* Gray = *Hibiscus denudatus* Benthham

*involutellatus* (Gray) Wootton & Standley = *Hibiscus denudatus* Benthham

***moscheutos*** Linnaeus subsp. ***lasiocarpus*** (Cavanilles) Blanchard [Blanchard 2015; M&H; W&S]

*Hibiscus lasiocarpus* Cavanilles

*lasiocarpus* Cavanilles = *Hibiscus moscheutos* Linnaeus subsp. *lasiocarpus* (Cavanilles) Blanchard

**\*trionum** Linnaeus [Blanchard 2015; M&H; W&S]

flower-of-an-hour

*Trionum trionum* (Linnaeus) Wootton & Standley

***Iliamna*** wild-hollyhock

Bates, D.M. 2015. *Iliamna*, pp. 268-272. IN: Flora of North America, vol. 6. Oxford University Press, New York.

Bodo Slotta, T.A. 2000. Phylogenetic analysis of *Iliamna* (Malvaceae) using the internal transcribed spacer region. Master's Thesis, Virginia Polytechnic Institute and State University. 70 pp.

***grandiflora*** (Rydberg) Wiggins [Bates 2015; M&H; W&S]

*Phymosia grandiflora* (Rydberg) Rydberg

*Sphaeralcea grandiflora* Rydberg

***rivularis*** (Douglas) Greene [Bates 2015; Bodo Slotta 2000] Note: Though reported by both Bates (2015) and Bodo Slotta (2000), no specimens have yet been found from NM; included provisionally.

*Malva rivularis* Douglas

***Malva*** cheeseweed, mallow

Hill, S.R. 2015. *Malva*, pp. 286-293. IN: Flora of North America, vol. 6. Oxford University Press, New York.

Ray, M.F. 1995. Systematics of *Lavatera* and *Malva* (Malvaceae, Malveae) – A new perspective. Pl. Syst. Evol. 198:29-53.

*angustifolia* Cavanilles = *Sphaeralcea angustifolia* (Cavanilles) G. Don

*coccinea* Nuttall = *Sphaeralcea coccinea* (Nuttall) Rydberg

*crispa* (Linnaeus) Linnaeus = *Malva verticillata* Linnaeus var. *crispa* Linnaeus

*hederacea* Douglas = *Malvella leprosa* (Ortega) Krapovickas

*involutrata* Torrey & Gray = *Callirhoë involutrata* (Torrey & Gray) Gray

*involutrata* Torrey & Gray var. *lineariloba* Torrey & Gray = *Callirhoë involutrata* (Torrey & Gray) Gray var. *lineariloba* (Torrey & Gray) Gray

*leprosa* Ortega = *Malvella leprosa* (Ortega) Krapovickas

**\*neglecta** Wallroth [M&H]

*Malva rotundifolia* of NM authors

**\*parviflora** Linnaeus [M&H; W&S]

*rivularis* Douglas = *Iliamna rivularis* (Douglas) Greene

*rotundifolia* of NM authors = *Malva neglecta* Wallroth

**\*sylvestris** Linnaeus [M&H; W&S]

**\*verticillata** Linnaeus [Hill 2015; M&H; W&S]

*Malva crispa* (Linnaeus) Linnaeus

*Malva verticillata* (Linnaeus) var. *crispa* Linnaeus

*Malvastrum coccineum* (Nuttall) Gray = *Sphaeralcea coccinea* (Nuttall) Rydberg

*digitatum* Greene = *Sphaeralcea digitata* (Greene) Rydberg var. *digitata*

*elatum* (Baker) A. Nelson = *Sphaeralcea coccinea* (Nuttall) Rydberg

*leptophyllum* Gray = *Sphaeralcea leptophylla* (Gray) Rydberg

*micranthum* Wootton & Standley = *Sphaeralcea coccinea* (Nuttall) Rydberg

***Malvella*** mallow

Fryxell, P.A. 1974. The North American Malvellas. Southw. Naturalist 19:97-103.

Fryxell, P.A. & S.R. Hill. 2015. *Malvella*, pp. 301-302. IN: Flora of North America, vol. 6. Oxford University Press, New York.

***lepidota*** (Gray) Fryxell [Fryxell 1974; M&H; W&S]

*Disella lepidota* (Gray) Greene

*Sida lepidota* Gray

*Sida lepidota* Gray var. *depauperata* Gray

*Sida leprosa* (Ortega) K. Schumann var. *depauperata* (Gray) I. Clement

***leprosa*** (Ortega) Krapovickas [Fryxell 1974; W&S]

*Disella hederacea* (Douglas) Greene

*Malva hederacea* Douglas  
*Malva leprosa* Ortega  
*Sida hederacea* (Doubl.) Torrey  
*Sida leprosa* (Ortega) K. Schumann

**sagittifolia** (Gray) Fryxell [Fryxell 1974; M&H; W&S]

*Disella sagittifolia* (Gray) Greene  
*Sida lepidota* Gray var. *sagittifolia* Gray  
*Sida leprosa* (Ortega) K. Schumann var. *sagittifolia* (Gray) I. Clement  
*Sida sagittifolia* (Gray) Rydberg

*Phymosia grandiflora* (Rydberg) Rydberg = *Iliamna grandiflora* (Rydberg) Wiggins

**Rhynchosida** buff-petal

Fryxell, P.A. & S.R. Hill. 2015. *Rhynchosida*, pp. 309-310. IN: Flora of North America, vol. 6. Oxford University Press, New York.

**physocalyx** (Gray) Fryxell [Fryxell & Hill 2015; M&H; W&S]

*Sida hastata* St. Hilaire  
*Sida physocalyx* Gray

**Sida** fan-petal

Fryxell, P.A. 1985. *Sida* sidarum V. The North and Central American species of *Sida*. *Sida* 11:62-91.  
 Fryxell, P.A. & S.R. Hill. 2015. *Sida*, pp. 310-319. IN: Flora of North America, vol. 6. Oxford University Press, New York.

**\*abutilifolia** Miller [Fryxell 1985; M&H; W&S]

*Sida diffusa* Kunth  
*Sida filicaulis* Torrey & Gray  
*Sida procumbens* Swartz

*abutiloides* Jacquin = *Abutilon abutiloides* (Jacquin) Garcke ex Hochreutiner

*abutilon* Linnaeus = *Abutilon theophrasti* Medikus

*alcaeoides* Michaux = *Callirhoe alcaeoides* (Michaux) Gray

*angustifolia* Lamarck = *Sida spinosa* Linnaeus var. *angustifolia* (Lamarck) Grisebach

*crispa* Linnaeus = *Herissantia crispa* (Linnaeus) Brizicky

*cristata* Linnaeus = *Anoda cristata* (Linnaeus) Schlectendal

*diffusa* Kunth = *Sida abutilifolia* Miller

*filicaulis* Torrey & Gray = *Sida abutilifolia* Miller

*grossulariifolia* Hooker & Arnott = *Sphaeralcea grossulariifolia* (Hooker & Arnott) Rydberg

*hastata* St. Hilaire = *Rhynchosida physocalyx* (Gray) Fryxell

*hederacea* (Douglas) Torrey = *Malvella leprosa* (Ortega) Krapovickas

*incana* Link = *Abutilon incanum* (Link) Sweet

*lepidota* Gray = *Malvella lepidota* (Gray) Fryxell

*leprosa* (Ortega) K. Schumann s.s. = *Malvella leprosa* (Ortega) Krapovickas

*leprosa* (Ortega) K. Schumann var. *depauperata* (Gray) I. Clement = *Malvella lepidota* (Gray) Fryxell

*leprosa* (Ortega) K. Schumann var. *sagittifolia* (Gray) I. Clement = *Malvella sagittifolia* (Gray) Fryxell

*mollicoma* Willdenow = *Abutilon mollicomum* (Willdenow) Sweet

**neomexicana** Gray [M&H; W&S]

*physocalyx* Gray = *Rhynchosida physocalyx* (A. Gray) Fryxell

*procumbens* Swartz = *Sida abutilifolia* Miller

*sagittifolia* (Gray) Rydberg = *Malvella sagittifolia* (Gray) Fryxell

*spinosa* Linnaeus var. *angustifolia* (Lamarck) Grisebach : Reported as expected by M&H; awaits verification.

*Sida angustifolia* Lamarck

**Sidalcea** checker-mallow

Hill, S.R. 2015. *Sidalcea*, pp. 319-356. IN: Flora of North America, vol. 6. Oxford University Press, New York.

**candida** Gray [M&H; W&S]

*Sidalcea candida* Gray var. *glabrata* C.L. Hitchcock

*Sidalcea candida* Gray var. *tincta* Cockerell

*candida* Gray var. *glabrata* C.L. Hitchcock = *Sidalcea candida* Gray

*candida* Gray var. *tincta* Cockerell = *Sidalcea candida* Gray

**neomexicana** Gray [M&H; W&S]

- Sidalcea parviflora* Greene var. *thurberi* Robinson ex Gray  
*Sidalcea neomexicana* Gray var. *parviflora* (Greene) Murray  
*parviflora* Greene var. *thurberi* Robinson ex Gray = *Sidalcea neomexicana* Gray  
*neomexicana* Gray var. *parviflora* (Greene) Murray = *Sidalcea neomexicana* Gray  
*Sidanoda pentaschista* (Gray) Wooton & Standley = *Anoda pentaschista* Gray
- Sphaeralcea** globemallow
- Kearney, T.H. 1935. The North American species of *Sphaeralcea*, subgenus *Eusphaeralcea*. Univ. Calif. Publ. Bot. 19:1-128.  
Fryxell, P.A. 2008. Malvaceae of Mexico. Syst. Bot. Monogr. 25:1-522.  
LaDuke, J.C. 1985. A new species of *Sphaeralcea* from New Mexico. Southw. Naturalist 30:433-436.  
[*Sphaeralcea polychroma*]  
LaDuke, J.C. 2015. *Sphaeralcea*, pp. 357-369. IN: Flora of North America, vol. 6. Oxford University Press, New York.  
LaDuke, J.C. & D.K. Northington. 1978. The systematics of *Sphaeralcea coccinea* (Nuttall) Rydberg (Malvaceae). Southw. Natural. 23:651-660.  
Shinners, L.H. 1964. Three new varietal names in *Sphaeralcea* (Malvaceae). Sida 1(6):384-385.
- angustifolia** (Cavanilles) G. Don [M&H; W&S]  
*Malva angustifolia* Cavanilles  
*Sphaeralcea angustifolia* (Cavanilles) G. Don var. *cuspidata* Gray  
*Sphaeralcea cuspidata* (Gray) Britton  
*angustifolia* (Cavanilles) G. Don var. *cuspidata* Gray = *Sphaeralcea angustifolia* (Cavanilles) G. Don  
*angustifolia* (Cavanilles) G. Don var. *lobata* (Wooton) Kearney = *Sphaeralcea lobata* Wooton  
*angustifolia* (Cavanilles) G. Don. var. *oblongifolia* (Gray) Shinners = *Sphaeralcea lobata* Wooton  
*arenaria* Wooton & Standley = *Sphaeralcea hastulata* Gray  
*arizonica* Heller = *Sphaeralcea parvifolia* A. Nelson
- coccinea** (Nuttall) Rydberg [M&H; W&S]  
scarlet globemallow  
*Malva coccinea* Nuttall  
*Malvastrum elatum* (Baker) A. Nelson  
*Malvastrum coccineum* (Nuttall) Gray  
*Malvastrum micranthum* Wooton & Standley  
*Sphaeralcea coccinea* (Nuttall) Rydberg var. *dissecta* (Nuttall) Garrett  
*Sphaeralcea coccinea* (Nuttall) Rydberg var. *elata* (Baker f.) Kearney  
*Sphaeralcea dissecta* (Nuttall) Rydberg  
*coccinea* (Nuttall) Rydberg var. *dissecta* (Nuttall) Garrett = *Sphaeralcea coccinea* (Nuttall) Rydberg  
*coccinea* (Nuttall) Rydberg var. *elata* (Baker) Kearney = *Sphaeralcea coccinea* (Nuttall) Rydberg  
*cuspidata* (Gray) Britton = *Sphaeralcea angustifolia* (Cavanilles) G. Don
- digitata** (Greene) Rydberg [M&H; W&S]  
*Malvastrum digitatum* Greene  
*Sphaeralcea digitata* (Greene) Rydberg var. *angustiloba* (A. Gray) Shinners  
*Sphaeralcea digitata* (Greene) Rydberg var. *tenuipes* (Wooton & Standley) Kearney  
*Sphaeralcea pedata* A. Gray var. *angustiloba* A. Gray  
*Sphaeralcea tenuipes* Wooton & Standley  
*digitata* (Greene) Rydberg var. *angustiloba* (A. Gray) Shinners = *Sphaeralcea digitata* (Greene) Rydberg  
*digitata* (Greene) Rydberg var. *tenuipes* (Wooton & Standley) Kearney = *Sphaeralcea digitata* (Greene) Rydberg  
*dissecta* (Nuttall) Rydberg = *Sphaeralcea coccinea* (Nuttall) Rydberg  
emoryi Torrey ex Gray : Reported by M&H, but no authentic specimens known; awaits verification.
- fendleri** Gray [M&H; W&S]  
*Sphaeralcea fendleri* Gray subsp. *elongata* Kearney  
*Sphaeralcea fendleri* Gray var. *elongata* (Kearney) Kearney  
*Sphaeralcea fendleri* Gray subsp. *tripartita* (Wooton & Standley) Kearney  
*Sphaeralcea fendleri* Gray var. *tripartita* (Wooton & Standley) Kearney

- Sphaeralcea leiocarpa* Wooton & Standley  
*Sphaeralcea tripartita* Wooton & Standley  
*fendleri* Gray subsp. *elongata* Kearney = *Sphaeralcea fendleri* Gray  
*fendleri* Gray var. *elongata* (Kearney) Kearney = *Sphaeralcea fendleri* Gray  
*fendleri* Gray subsp. *tripartita* (Wooton & Standley) Kearney = *Sphaeralcea fendleri* Gray  
*fendleri* Gray var. *tripartita* (Wooton & Standley) Kearney = *Sphaeralcea fendleri* Gray  
*glabrescens* Wooton & Standley = *Sphaeralcea hastulata* Gray  
*grandiflora* Rydberg = *Iliamna grandiflora* (Rydberg) Wiggins  
***grossulariifolia*** (Hooker & Arnott) Rydberg [M&H; W&S]  
*Sida grossulariifolia* Hooker & Arnott (as *grossulariaefolia*)  
*Sphaeralcea grossulariifolia* (Hooker & Arnott) Rydberg var. *pedata* (Torrey ex Gray) Kearny  
*Sphaeralcea pedata* Torrey  
***hastulata*** Gray [M&H; W&S]  
*Sphaeralcea arenaria* Wooton & Standley  
*Sphaeralcea glabrescens* Wooton & Standley  
*Sphaeralcea martii* Cockerell  
*Sphaeralcea pumila* Wooton & Standley  
*Sphaeralcea simulans* Wooton & Standley  
*Sphaeralcea subhastata* Coulter  
*Sphaeralcea subhastata* Coulter var. *connata* Kearney  
*Sphaeralcea subhastata* Coulter var. *latifolia* Kearney  
*Sphaeralcea subhastata* Coulter var. *martii* (Cockerell) Kearney  
*Sphaeralcea subhastata* Coulter var. *pumila* (Wooton & Standley) Kearney  
*incana* Torrey ex Gray var. *cuneata* Kearney = *Sphaeralcea lobata* Wooton  
***incana*** Torrey ex Gray [M&H; W&S]  
*incana* Torrey var. *oblongifolia* Gray = *Sphaeralcea lobata* Wooton  
***laxa*** Wooton & Standley [M&H; W&S]  
*Sphaeralcea ribifolia* Wooton & Standley  
*leiocarpa* Wooton & Standley = *Sphaeralcea fendleri* Gray  
***leptophylla*** (Gray) Rydberg [M&H; W&S]  
*Malvastrum leptophyllum* Gray  
***lobata*** Wooton [M&H; W&S]  
*Sphaeralcea angustifolia* (Cavanilles) G. Don var. *oblongifolia* (A. Gray) Shinnery  
*Sphaeralcea angustifolia* (Cavanilles) G. Don var. *lobata* (Wooton) Kearney  
*Sphaeralcea angustifolia* (Cavanilles) G. Don var. *oblongifolia* (Gray) Shinnery  
*Sphaeralcea incana* Torrey ex Gray var. *cuneata* Kearney  
*Sphaeralcea incana* Torrey var. *oblongifolia* Gray  
*marginata* York = *Sphaeralcea parvifolia* A. Nelson  
*martii* Cockerell = *Sphaeralcea hastulata* Gray  
***parvifolia*** A. Nelson [M&H; W&S]  
*Sphaeralcea arizonica* Heller  
*Sphaeralcea marginata* York  
*pedata* Torrey = *Sphaeralcea grossulariifolia* (Hooker & Arnott) Rydberg  
*pedata* A. Gray var. *angustiloba* A. Gray = *Sphaeralcea digitata* (Greene) Rydberg  
***polychroma*** La Duke [La Duke 1985, 2015]  
*procera* Porter : considered no longer present in NM..  
*pumila* Wooton & Standley = *Sphaeralcea hastulata* Gray  
*ribifolia* Wooton & Standley = *Sphaeralcea laxa* Wooton & Standley  
*simulans* Wooton & Standley = *Sphaeralcea hastulata* Gray  
*subhastata* Coulter var. *connata* Kearney = *Sphaeralcea hastulata* Gray  
*subhastata* Coulter var. *latifolia* Kearney = *Sphaeralcea hastulata* Gray  
*subhastata* Coulter var. *martii* (Cockerell) Kearney = *Sphaeralcea hastulata* Gray  
*subhastata* Coulter var. *pumila* (Wooton & Standley) Kearney = *Sphaeralcea hastulata* Gray  
*subhastata* Coulter var. *subhastata* = *Sphaeralcea hastulata* Gray  
*tenuipes* Wooton & Standley = *Sphaeralcea digitata* (Greene) Rydberg  
*tripartita* Wooton & Standley = *Sphaeralcea fendleri* Gray  
***wrightii*** Gray [M&H]



*Trionum trionum* (Linnaeus) Wooton & Standley = *Hibiscus trionum* Linnaeus

**Family MARTYNIACEAE** [1/5/5]

Gormley, I.C., D.Bedigian, & R.G. Olmstead. 2015. Phylogeny of Pedaliaceae and Martyniaceae and the Placement of *Trapella* in Plantaginaceae s. l.

Gutierrez, R. 2011. A phylogenetic study of the plant family Martyniaceae (Order Lamiales). Dissertation, Arizona State University. 251 pp.

*Martynia althaeifolia* Bentham = *Proboscidea althaeifolia* (Bentham) Decaisne  
*arenaria* Engelmman = *Proboscidea althaeifolia* (Bentham) Decaisne  
*fragrans* Lindley = *Proboscidea fragrans* (Lindley) Decaisne  
*louisiana* Miller = *Proboscidea louisianica* (Miller) Thellung  
*parviflora* Wooton = *Proboscidea parviflora* (Wooton) Wooton & Standley

**Proboscidea** devil's-claw, unicorn plant

Bretting, P.K. 1982. Range extension of *Proboscidea sabulosa* Correll (Martyniaceae), a sand dune endemic. Southw. Naturalist 27:228.

Bretting, P.K. 1983. The taxonomic relationship between *Proboscidea louisianica* and *Proboscidea fragrans* (Martyniaceae). Southw. Natural. 28:445-449.

Gutierrez, R. 2013. *Proboscidea sabulosa* (Martyniaceae) in south Texas. Phytoneuron 2013-16: 1-4.

Gutierrez, R. 2014. *Proboscidea fragrans* (Martyniaceae) in El Paso County, Texas. Phytoneuron 2014-55: 1-3.

Hevly, R.H. 1969. Nomenclatural history and typification of *Martynia* and *Proboscidea* (Martyniaceae). Taxon 18(5): 527-534.

*arenaria* (Engelmann) Decaisne = *Proboscidea althaeifolia* (Bentham) Decaisne

**althaeifolia** (Bentham) Decaisne [M&H; W&S]

*Martynia althaeifolia* Bentham

*Proboscidea arenaria* (Engelmann) Decaisne

*Martynia arenaria* Engelmman

**fragrans** (Lindley) Decaisne [Gutierrez 2011, 2014]

*Martynia fragrans* Lindley

*Proboscidea louisiana* (Miller) Thellung subsp. *fragrans* (Lindley) Bretting

*louisiana* (Miller) Thellung subsp. *fragrans* (Lindley) Bretting = *Proboscidea fragrans* (Lindley) Decaisne

*louisiana* (Miller) Wooton & Standley = *Proboscidea louisianica* (Miller) Thellung

**louisiana** (Miller) Thellung [M&H; W&S]

*Martynia louisiana* Miller

**parviflora** (Wooton) Wooton & Standley [M&H; W&S]

*Martynia parviflora* Wooton & Standley

**sabulosa** Correll [Bretting 1982]

**Family MELIACEAE** [1/1/1]

Pennington, T.D. 1981. Meliaceae. Flora Neotrop. Monogr. 28.

**Melia** Chinaberry tree

**\*azedarach** Linnaeus [M&H; W&S]

Family *MENTHACEAE* = *LAMIACEAE*

**Family MENYANTHACEAE** [1/1/1]

Tippery, N.P., D.H. Les, D.J. Padgett, S.W.L. Jacobs. 2008. Generic circumscription in Menyanthaceae; A phylogenetic evaluation. Syst. Bot. 33(3): 598-612.

**Menyanthes** buckbean

McGrath, J. 1999. New plant distribution records. The New Mexico Botanist 10:7. [*Menyanthes trifoliata*]

**trifoliata** Linnaeus [McGrath 1999]

Family *MIMOSACEAE* = *FABACEAE*

**Family MOLLUGINACEAE** [1/2/2]

Christenhusz, M.J.M., S.F. Brockington, P.-A. Christin, & R.F. Sage. 2014. On the disintegration of Molluginaceae: a new genus and family (*Kewa*, Kewaceae) segregated from *Hypertelis*, and placement of *Macarthuria* in Macarthuraceae. Phytotaxa 181(4): 238-242.

Vincent, M.A. 2003. Molluginaceae, pp. 509-512. IN: Flora of North America, vol. 4, pt. 1. Oxford University Press, New York.

- Schäferhoff, B., K.R. Müller, T. Borsch. 2009. Caryophyllales phylogenetics: disentangling Phytolaccaceae and Molluginaceae and description of Microteaceae as a new isolated family. *Willdenowia* 39: 209-228.
- Thulin, M., A.J. Moore, H. El-Seedi, A. Larsson, P.-A. Christin, & E.J. Edwards. 2016. Phylogeny and generic delimitation in Molluginaceae, new pigment data in Caryophyllales, and the new family Corbichoniaceae. *Taxon* 65: 775-793.

**Mollugo** carpetweed

- Sukhorukov, A. & M. Kushunina. 2017. Taxonomic significance of seed morphology in the genus *Mollugo* s.l. (Molluginaceae). *Israel J. Plant Sci.* 64(1-2): 31-47.

**\*cerviana** (Linnaeus) Seringe [M&H; Vincent 2001; W&S]

*Pharnaceum cerviana* Linnaeus

**verticillata** Linnaeus [M&H; Vincent 2001; W&S]

*Pharnaceum cerviana* Linnaeus = *Mollugo cerviana* (Linnaeus) Seringe

Family **MONOTROPACEAE** = ERICACEAE

Family **MONTIACEAE** [6/16/17]

- Carter, M.E.B. & W.H. Murdy. 1985. Systematics of *Talinum parviflorum* Nutt. and the origin of *Talinum teretifolium* Pursh (Portulacaceae). *Rhodora* 87(850): 121-130.
- Hernández-Ledesma, P., W.G. Berendsohn, T. Borsch, S. Von Mering, H. Akhiani, S. Arias, I. Castañeda-Noa, U. Eggli, R. Eriksson, H. FloresOlvera, S. Fuentes-Bazán, G. Kadereit, C. Klak, N. Korotkova, R. Nyffeler, G. Ocampo, H. Ochoterena, B. Oxelman, R.K. Rabeler, A. Sanchez, B.O. Schlumberger, & P. Uotila. 2015. A taxonomic backbone for the global synthesis of species diversity in the angiosperm order Caryophyllales. *Willdenowia* 45(3): 281-383.
- HersHKovitz, M.A. 2018. Synopsis of a New Taxonomic Synthesis of Montiaceae (Portulacaceae) Based on Rational Metadata Analysis, with Critical New Insights on Historically Poorly Understood Taxa and a Reevaluation of Historical Biogeography. *Preprints*, 2018080496 (doi: 10.20944/preprints201808.0496.v2).
- HersHKovitz, M.A. 2018. Perspectives from Montiaceae (Portulacaceae) Evolution. I. Phylogeny and Phylogeography. *Preprints*, 2018090096 (doi: 10.20944/preprints201809.0096.v1).
- HersHKovitz, M.A. 2018. Perspectives from Montiaceae (Portulacaceae) Evolution. II. Ecological Evolution, Phylogenetic Comparative Analysis, and the Principle of Evolutionary Idiosyncraticity. *Preprints*, 2018090566 (doi: 10.20944/preprints201809.0566.v1).
- HersHKovitz, M.A. 2019. Systematics, evolution, and phylogeography of Montiaceae (Portulacaceae). *Phytonuron* 2019-27: 1-77.
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- Soltis, D.E., S.A. Smith, N. Cellinese, K.J. Wurdack, DC. Tank, S.F. Brockington, N.F. Refulio-Rodriguez, J.B. Walker, M.J. Moore, B.S. Carlswald, C.D. Bell, M. Latvis, S. Crawley, C. Black, D. Diouf, Z. Xi, C.A. Rushworth, M.A. Gitzendanner, K.J. Sytsma, Y.-L. Qiu, K.W. Hilu, C.C. Davis, M.J. Sanderson, R.S. Beaman, R.G. Olmstead, W.S. Judd, M.J. Donoghue, & P.S. Soltis. 2011. Angiosperm phylogeny: 17 genes, 640 taxa. *Amer. J. Bot.* 98(4): 704-730.

**Calandrinia** redmaids

- HersHKovitz, M.A. 2006. Ribosomal and chloroplast DNA evidence for diversification of western American Portulacaceae in the Andean region. *Gayana Bot.* 63(1): 13-74.
- Kelley, W.A. 2003. *Calandrinia*, pp. 459-460. IN: *Flora of North America*, vol. 4, pt. 1. Oxford University Press, New York.
- Wagner, W.L. 1979. New records to the Animas Mountain flora, New Mexico. *Southw. Naturalist* 24(2):291-296. [*Calandrinia ciliata*]
- arizonica* Rydberg = *Calandrinia menziesii* (Hooker) Torrey & Gray
- ciliata* (Ruiz & Pavon) A.P. de Candolle var. *menziesii* (Hooker) Macbride = *Calandrinia menziesii* (Hooker) Torrey & Gray
- menziesii** (Hooker) Torrey & Gray [Kelley 2003; M&H; Wagner 1979]
- Calandrinia arizonica* Rydberg
- Calandrinia ciliata* of NM reports
- Calandrinia ciliata* (Ruiz & Pavon) A.P. de Candolle var. *menziesii* (Hooker) Macbride
- Talinum menziesii* Hooker

*ciliata* of NM reports = *Calandrinia menziesii* (Hooker) Torrey & Gray  
*ciliata* (Ruiz & Pavon) A.P. de Candolle s.s. : Reported by various authors, but our plants  
 belong to *Calandrinia menziesii* (Hooker) Torrey & Gray

*Talinum ciliatum* Ruiz & Pavon

*nevadensis* Gray = *Lewisia pygmaea* (Gray) Robinson var. *nevadensis* (Gray) Fosberg

***Calyptridium*** pussypaws

Hershkovitz, M.A. 1990. Nomenclatural changes in Portulacaceae. *Phytologia* 68: 267-270.

Hershkovitz, M.A. 2006. Ribosomal and chloroplast DNA evidence for diversification of western American Portulacaceae in the Andean region. *Gayana Bot.* 63(1): 13-74.

Simpson, M.G., M. Silveira, C.M. Guillems. 2010. Taxonomy of *Calyptridium parryi* (Montiaceae).

***monandrum*** Nuttall [M&H]

*Cistanthe monandra* (Nuttall) Hershkovitz

*Cistanthe monandra* (Nuttall) Hershkovitz = *Calyptridium monandrum* Nuttall

***Claytonia*** spring-beauty

Halleck, D.K. & D. Wiens. 1966. Taxonomic status of *Claytonia rosea* and *C. lanceolata* (Portulacaceae).

*Ann. Missouri Bot. Gard.* 53(2):205-212. [*Claytonia rosea*]

Miller, J.M. 2003. *Claytonia*, pp. 465-475. IN: *Flora of North America*, vol. 4, pt. 1. Oxford University Press, New York.

Miller, J.M. & K.L. Chambers. 2006. Systematics of *Claytonia* (Portulacaceae). *Syst. Bot. Monographs* 78:1-236.

O'Quinn, R. & L. Hufford. 2005. Molecular systematics of Montieae (Portulacaceae): Implications for taxonomy, biogeography, and Ecology. *Syst. Bot.* 30(2): 314-331.

Stoughton, T.R., D.D. Jolles, & R.L. O'Quinn. 2017. The western spring beauties, *Claytonia lanceolata* (Montiaceae): A review and revised taxonomy for California. *Syst. Bot.* 42(2): 283-300.

*arctica* Adams var. *megarhiza* Gray = *Claytonia megarhiza* (Gray) Parry ex S. Watson

*chamissoi* Ledebour = *Montia chamissoi* (Ledebour ex Sprengel) Durand & Jackson

***lanceolata*** Pallas ex Pursh [M&H; Miller 2003; W&S]

*lanceolata* Pursh var. *rosea* (Rydberg) R.J. Davis = *Claytonia rosea* Rydberg

***megarhiza*** (Gray) Parry ex S. Watson [M&H; Miller 2003; W&S]

*Claytonia arctica* Adams var. *megarhiza* Gray

***perfoliata*** Donn ex Willdenow subsp. ***mexicana*** (Rydberg) J.M. Miller [Miller 2003]

miner's-lettuce

*Limnia mexicana* Rydberg

***rosea*** Rydberg [Halleck & Wiens 1966; Miller 2003]

*Claytonia lanceolata* Pursh var. *rosea* (Rydberg) R.J. Davis

*Crunocallis chamissonis* (Ledebour) Rydberg = *Montia chamissoi* (Ledebour) Durand & Jackson

***Lewisia*** bitter-root

Abrams, L. 1940-1960. An illustrated flora of the Pacific States, Washington, Oregon, and California. 4 vols. Stanford Univ. Press.

Hershkovitz, M.A. & S.B. Hogan. 2003. *Lewisia*, pp. 476-4485. IN: *Flora of North America*, vol. 4, pt. 1. Oxford University Press, New York.

Matthew, B. 1989. The Genus *Lewisia*. Royal Botanic Gardens, Kew. 151 pp. [*Lewisia pygmaea*]

*brachycalyx* Engelmann ex Gray : Matthews (1989) noted that plants attributed to NM by Abrams (1940-1960) were probably collected in Arizona; awaits verification.

*pygmaea* (Gray) Robinson var. *nevadensis* (Gray) Fosberg = *Lewisia pygmaea* (Gray)

Robinson var. *nevadensis* (Gray) Fosberg

*nevadensis* (Gray) B.L. Robinson = *Lewisia pygmaea* (Gray) Robinson var. *nevadensis* (Gray) Fosberg

***pygmaea*** (Gray) B.L. Robinson var. ***pygmaea*** [Hershkovitz & Hogan 2003; Matthew 1989]

*Talinum pygmaeum* Gray

***pygmaea*** (Gray) Robinson var. ***nevadensis*** (Gray) Fosberg [Hershkovitz & Hogan 2003; M&H; W&S]

*Calandrinia nevadensis* Gray

*Lewisia nevadensis* (Gray) B.L. Robinson

*Oreobroma nevadense* (Gray) Howell

*Limnia mexicana* Rydberg = *Claytonia perfoliata* Donn ex Willdenow subsp. *mexicana* (Rydberg) J.M. Miller

**Montia** miner's-lettuce

Miller, J.M. 2003. *Montia*, pp. 485-488. IN: Flora of North America, vol. 4, pt. 1. Oxford University Press, New York.

O'Quinn, R. & L. Hufford. 2005. Molecular systematics of Montieae (Portulacaceae): Implications for taxonomy, biogeography, and ecology. *Syst. Bot.* 30(2): 314-331.

**chamissoi** (Ledebour ex Sprengel) Durand & Jackson [M&H; Miller 2003; W&S]

*Claytonia chamissoi* Ledebour

*Crunocallis chamissonis* (Ledebour) Rydberg

*perfoliata* (Donn ex Willdenow) Howell = *Claytonia perfoliata* Donn ex Willdenow

*Oreobroma nevadense* (Gray) Howell = *Lewisia pygmaea* (Gray) Robinson var. *nevadensis* (Gray) Fosberg

**Phemeranthus** phemeranthus

Allred, K.W. 2002. Plant distribution reports. The New Mexico Botanist 24:7. [*Phemeranthus parvulus*]

Carter, M.E.B. & W.H. Murdy. 1985. Systematics of *Talinum parviflorum* Nutt. and the origin of *Talinum teretifolium* Pursh (Portulacaceae). *Rhodora* 87(850): 121-130.

Bogle, A.L. 1969. The genera of Portulacaceae and Basellaceae in the southeastern United States. *J. Arnold Arbor.* 50:566-598. [*Phemeranthus calycinus*]

Ferguson, D.J. 2001. *Phemeranthus* and *Talinum* (Portulacaceae) in New Mexico. The New Mexico Botanist 20:1-7.

Kiger, R.W. 2003. *Phemeranthus*, pp. 488-495. IN: Flora of North America, vol. 4, pt. 1. Oxford University Press, New York. [*Phemeranthus validulus*]

Price, T.M. & D.J. Ferguson. 2012. A new combination in *Phemeranthus* (Montiaceae) and notes on the circumscription of *Phemeranthus* and *Talinum* (Talinaceae) from the southwestern United States and northern Mexico. *Novon* 22: 67-69.

*aurantiacus* (Engelmann) Kiger = *Talinum aurantiacum* Engelmann

**brevicaulis** (S. Watson) Kiger [Kiger 2003; M&H; W&S]

*Talinum brevicaule* S. Watson

*Talinum eximium* A. Nelson

*Talinum pulchellum* Wooton & Standley

*Talinum youngiae* C.H. Muller

**brevifolius** (Torrey) Hershkovitz [Kiger 2003; M&H; W&S]

*Talinum brevifolium* Torrey

*Talinum brachypodium* S. Watson

**calycinus** (Engelmann) Kiger [Bogle 1969; Kiger 2003]

*Talinum calycinum* Engelmann

*confertiflorus* (Greene) Hershkovitz = *Phemeranthus parviflorus* (Nuttall) Kiger

**humilis** (Greene) Kiger [Kiger 2003; M&H; W&S]

*Talinum humile* Greene

**longipes** (Wooton & Standley) Kiger [Kiger 2003; M&H; W&S]

*Talinum longipes* Wooton & Standley

*marginatus* (Greene) Kiger = *Phemeranthus parvulus* (Rose & Standley) Ferguson & Price

**parviflorus** (Nuttall) Kiger [M&H; W&S]

*Phemeranthus confertiflorus* (Greene) Hershkovitz

*Talinum confertiflorum* Greene

*Talinum fallax* von Poellnitz

*Talinum gooddingii* P. Wilson

*Talinum gracile* Rose & Standley (non Colla 1833)

*Talinum parviflorum* Nuttall

*Talinum rosei* P. Wilson

**parvulus** (Rose & Standley) Ferguson & Price [Allred 2002]

*Phemeranthus marginatus* (Greene) Kiger

*Talinum marginatum* Greene

*Talinum parvulum* Rose & Standley

**validulus** (Greene) Kiger [Kiger 2003]

*Talinum validulum* Greene

**Family MORACEAE** [3/4/4]

Wunderlin, R.P. 1997. Moraceae, p. 388-399. IN: Flora North America, Vol. 3. Oxford University Press.

**Ficus** fig

Anderson, D.L. 2011. Plant distribution reports [*Ficus carica*]. The New Mexico Botanist 56:2.

\**carica* Linnaeus [Anderson 2011]

**Maclura** Osage-orange\***pomifera** (Rafinesque) Schneider [M&H]*Toxylon pomiferum* Rafinesque**Morus** mulberrySivinski, R.C., T. Lowrey and R. Peterson. 1994. Additions to the native and adventive flora of New Mexico. *Phytologia* 76(6):473-479. [*Morus alba*]\***alba** Linnaeus [Sivinski et al. 1994]**microphylla** Buckley [M&H; W&S]

Texas mulberry

*Toxylon pomiferum* Rafinesque = *Maclura pomifera* (Rafinesque) SchneiderFamily **MUTISIACEAE** = **ASTERACEAE**Family **MYRSINACEAE** = **PRIMULACEAE****Family NAMACEAE** [1/6/6]Hilger, H.H. & T.C.H. Cole. 2019. Boraginales Phylogeny Poster. Boraginales Working Group, <http://boraginales.myspecies.info/>, accessed 11 July 2019.Luebert, F., L. Cecchi, M.W. Frohlich, M. Gottschling, C.M. Williams, K.E. Hasenstab-Lehman, H.H. Hilger, J.S. Miller, M. Miller, M. Mittelbach, M. Nazaire, M. Nepi, D. Nocentini, D. Odr, R.G. Olmstead, F. Selvi, M.G. Simpson, K. Sutory, B. Valdes, G.K. Walden, M. Weigend. 2016. Familial classification of the Boraginales. *Taxon* 65(3): 502-522.*Andropus carnosus* (Wooton) Brand = *Nama carnosus* (Wooton) C. L. Hitchcock*Conanthus angustifolius* (Gray) Heller = *Nama dichotoma* (Ruiz & Pavon) Choisy*carnosus* Wooton = *Nama carnosus* (Wooton) C.L. Hitchcock*hispidus* (Gray) Heller = *Nama hispida* Gray*Hydrolea dichotoma* Ruiz & Pavon = *Nama dichotoma* (Ruiz & Pavon) Choisy**Nama** fiddleleafBacon, J.D. 1984. Chromosome numbers and taxonomic notes in the genus *Nama* (Hydrophyllaceae). II. *Sida* 10:267-275. [*Nama stevensii*]Nicolson, D.H. 1994. Gender of generic names, particularly those ending in *-ma*, in the 'Names in current use' list. *Taxon* 43: 97-107.Spellenberg, R., R. Worthington, P. Knight, & R. Fletcher. 1986. Additions to the flora of New Mexico. *Sida* 11(4):455-470. [*Nama hispida mentzelii*, *Nama retrorsa*]*angustifolia* (Gray) A. Nelson = *Nama dichotoma* (Ruiz & Pavon) Choisy*biflora* Choisy var. *spathulata* Torrey = *Nama hispida* Gray**carnosus** (Wooton) C. L. Hitchcock [M&H; W&S]*Andropus carnosus* (Wooton) Brand*Conanthus carnosus* Wooton**dichotoma** (Ruiz & Pavon) Choisy [M&H; W&S]*Conanthus angustifolius* (Gray) Heller*Hydrolea dichotoma* Ruiz & Pavon*Marilaunidium angustifolium* (Gray) Kuntze*Marilaunidium tenue* Wooton & Standley, not Small*Nama angustifolia* (Gray) A. Nelson*Nama dichotoma* (Ruiz & Pavon) Choisy var. *angustifolia* Gray*Nama tenue* (Wooton & Standley) Tidestrom*dichotoma* (Ruiz & Pavon) Choisy var. *angustifolia* Gray = *Nama dichotoma* (Ruiz & Pavon) Choisy*foliosa* (Wooton & Standley) Tidestrom = *Nama hispida* Gray**hispidus** Gray [M&H; W&S]*Conanthus hispidus* (Gray) Heller*Marilaunidium foliosum* Wooton & Standley*Marilaunidium hispidum* (Gray) Kuntze*Marilaunidium tenue* Small*Nama biflora* Choisy var. *spathulata* Torrey*Nama hispida* Gray var. *mentzelii* Brand*Nama hispida* Gray var. *spathulata* (Torrey) C.L. Hitchcock*hispidus* Gray var. *mentzelii* Brand = *Nama hispida* Gray*hispidus* Gray var. *spathulata* (Torrey) C.L. Hitchcock = *Nama hispida* Gray**retrorsa** J.T. Howell [Spellenberg et al. 1986]

**stevensii** C.L. Hitchcock [Bacon 1984]

*tenue* (Wooton & Standley) Tidestrom = *Nama dichotoma* (Ruiz & Pavon) Choisy

**xylopoda** (Wooton & Standley) C. L. Hitchcock [M&H; W&S]

*Marilaunidium xylopodum* Wooton & Standley

*Marilaunidium angustifolium* (Gray) Kuntze = *Nama dichotoma* (Ruiz & Pavon) Choisy

*foliosum* Wooton & Standley = *Nama hispida* Gray

*hispidum* (Gray) Kuntze = *Nama hispida* Gray

*tenue* Small = *Nama hispida* Gray

*tenue* Wooton & Standley, not Small = *Nama dichotoma* (Ruiz & Pavon) Choisy

*xylopodum* Wooton & Standley = *Nama xylopoda* (Wooton & Standley) C. L. Hitchcock

### Family NITRARIACEAE [1/1/1]

Sheahan, M.C. & M.W. Chase. 1996. A phylogenetic analysis of Zygophyllaceae R.Br. based on morphological, anatomical and *rbcL* DNA sequence data. Bot. J. Linn. Soc. 122: 279-300.

### **Peganum**

Davison, J. & M. Wargo. 2001. Recognition and control of African rue in Nevada. Fact Sheet FS-01-45. Univ. Nevada, Reno.

\***harmala** Linnaeus [M&H]

African rue

*mexicanum* Gray : Reported for NM on various lists, but no specimens have been located.

### Family NYCTAGINACEAE [10/38/45]

Spellenberg, R.W. 2003. Nyctaginaceae, pp. 14-74. IN: Flora of North America, vol. 4. Oxford University Press, New York.

### **Abronia** sand-verbena

Ackerfield, J. & W.F. Jennings. 2008. The genus *Abronia* (Nyctaginaceae) in Colorado, with notes on

*Abronia bolackii* in New Mexico. J. Bot. Res. Inst. Texas 2(1):419-423.

Atwood, N.D., S.L. Welsh, & K.D. Heil. 2002. A new species of *Abronia* (Nyctaginaceae) from San Juan County, New Mexico, U.S.A. Novon 12:167-169. [*Abronia bolackii*]

Galloway, L.A. 1975. Systematics of the North American desert species of *Abronia* and *Tripterocalyx* (Nyctaginaceae). Brittonia 27:328-347.

Heil, K.D., S.L. O'Kane, & A. Clifford. 2002. Additions to the flora of New Mexico from the San Juan Basin Flora project. The New Mexico Botanist 24:1-4. [*Abronia nana harrisii*]

**angustifolia** Greene [Galloway 1975; M&H; W&S]

*Abronia angustifolia* Greene var. *arizonica* (Standley) Kearney & Peebles

*Abronia arizonica* Standley

*Abronia torreyi* Standley

*angustifolia* Greene var. *arizonica* (Standley) Kearney & Peebles = *Abronia angustifolia* Greene

*arizonica* Standley = *Abronia angustifolia* Greene

+**bigelovii** Heimerl [M&H; W&S]

+**bolackii** Atwood, Welsh, & Heil [Atwood et al. 2002] Note: Ackerfield & Jennings (2008) contend that this species should be submerged within *Abronia elliptica* A. Nelson.

*carletonii* Coulter & Fisher = *Abronia fragrans* Nuttall ex Hooker

*carnea* Greene = *Tripterocalyx carnea* (Greene) Galloway var. *carnea*

**elliptica** A. Nelson [Galloway 1975; M&H; W&S]

*Abronia fragrans* Nuttall var. *elliptica* M.E. Jones

*Abronia nana* S. Watson var. *harrisii* Welsh

*Abronia ramosa* Standley

*fendleri* Standley = *Abronia fragrans* Nuttall

**fragrans** Nuttall ex Hooker [Galloway 1975; M&H; W&S]

*Abronia carletonii* Coulter & Fisher

*Abronia fendleri* Standley

*fragrans* Nuttall var. *elliptica* M.E. Jones = *Abronia elliptica* A. Nelson

*micrantha* Torrey = *Tripterocalyx micranthus* (Torrey) Hooker

*nana* S. Watson var. *harrisii* Welsh = *Abronia elliptica* A. Nelson

*ramosa* Standley = *Abronia elliptica* A. Nelson

*torreyi* Standley = *Abronia angustifolia* Greene

### **Acleisanthes** angel's trumpets

Fowler, B.A. & B.L. Turner. 1977. Taxonomy of *Selinocarpus* and *Ammocodon* (Nyctaginaceae). Phytologia 37:177-208.

- Levin, R.A. 2002. Taxonomic status of *Acleisanthes*, *Selinocarpus*, and *Ammocodon* (Nyctaginaceae). *Novon* 12:58-63.
- Smith, J.M. 1976. A taxonomic study of *Acleisanthes* (Nyctaginaceae). *Wrightia* 5(8):261-276.
- chenopodioides** (A. Gray) R.A. Levin [Fowler & Turner 1977; M&H; W&S]  
*Ammocodon chenopodioides* (A. Gray) Standley  
*Selinocarpus chenopodioides* A. Gray
- diffusa** (A. Gray) R.A. Levin [Fowler & Turner 1977; M&H; W&S]  
*Selinocarpus diffusus* A. Gray
- lanceolata** (Wooton) R.A. Levin [Fowler & Turner 1977; M&H; W&S]  
*Selinocarpus lanceolatus* Wooton
- longiflora** Gray [M&H; W&S]
- Allionia** windmills  
 Turner, B.L. 1993. Texas species of *Mirabilis* (Nyctaginaceae). *Phytologia* 75:432-451.  
 Turner, B.L. 1994. Revisionary study of the genus *Allionia* (Nyctaginaceae). *Phytologia* 77(1):45-55.
- albida* Walter = *Mirabilis albida* (Walter) Heimerl  
*bodinii* (Holzinger) Morong = *Mirabilis linearis* (Pursh) Heimerl  
*carletonii* Standley = *Mirabilis glabra* (S. Watson) Standley
- choisyi** Standley [M&H; W&S]  
*Allionia incarnata* Linnaeus var. *glabra* Choisy  
*Wedelia glabra* (Choisy) Standley  
*Wedeliella glabra* (Choisy) Cockerell
- coccinea* (Torrey) Standley = *Mirabilis coccineus* (Torrey) Bentham & Hooker f.  
*comata* Small = *Mirabilis comata* (Small) Standley  
*diffusa* Heller = *Mirabilis linearis* (Pursh) Heimerl  
*divaricata* Rydberg = *Mirabilis linearis* (Pursh) Heimerl  
*gausapoides* Standley = *Mirabilis linearis* (Pursh) Heimerl var. *subhispida* (Heimerl) Spellenberg  
*glabra* (S. Watson) Kuntze = *Mirabilis glabra* S. Watson  
*glabra* (S. Watson) Kuntze var. *recedens* (Weatherby) Standley = *Mirabilis glabra* S. Watson
- hirsuta* Pursh = *Mirabilis albida* (Walter) Heimerl  
*incarnata* Linnaeus var. *glabra* Choisy = *Allionia choisyi* Standley
- incarnata** Linnaeus var. **incarnata** [M&H; W&S]  
*Wedeliella incarnata* (Linnaeus) Cockerell  
*Wedeliella incarnata* (Linnaeus) Cockerell var. *anodonta* (Standley) Cockerell
- incarnata** Linnaeus var. **villosa** (Standley) B.L. Turner [Turner 1994]  
*Wedelia incarnata* (Linnaeus) Kuntze subsp. *villosa* Standley
- lanceolata* Rydberg = *Mirabilis lanceolata* (Rydberg) Standley  
*linearifolia* (S. Watson) Kuntze var. *filifolia* Standley = *Mirabilis coccinea* (Torrey) Bentham & Hooker  
*linearis* Pursh = *Mirabilis linearis* (Pursh) Heimerl  
*linearis* Pursh *subhispida* (Heimerl) Standley [rank unstated] = *Mirabilis linearis* (Pursh) Heimerl var. *subhispida* (Heimerl) Spellenberg  
*melanotricha* Standley = *Mirabilis melanotricha* (Standley) Spellenberg  
*nyctaginea* Michaux = *Mirabilis nyctaginea* (Michaux) MacMillan  
*pinetorum* Standley = *Mirabilis linearis* (Pursh) Heimerl  
*pratensis* Standley = *Mirabilis albida* (Walter) Heimerl  
*pumila* Standley = *Mirabilis comata* (Small) Standley  
*subhispida* (Heimerl) Standley = *Mirabilis linearis* (Pursh) Heimerl var. *subhispida* (Heimerl) Spellenberg
- Allionella oxybaphoides* (Gray) Rydberg = *Mirabilis oxybaphoides* (Gray) Gray  
*oxybaphoides* (Gray) Rydberg var. *glabrata* (Heimerl) Standley = *Mirabilis oxybaphoides* (Gray) Gray
- Ammocodon chenopodioides* (Gray) Standley = *Acleisanthes chenopodioides* (A. Gray) R.A. Levin
- Anulocaulis** ringstem  
 Hernandez-Ledesma, P. H. Flores Olvera, & H. Ochoterena. 2010. Cladistic analysis and taxonomic synopsis of *Anulocaulis* (Nyctaginaceae) based on morphological data. *Syst. Bot.* 35(4):858-876.  
 Spellenberg, R. 1993. Taxonomy of *Anulocaulis* (Nyctaginaceae). *Sida* 15(3):373-390.

Spellenberg, R. & T. Wootten. 1999. Vascular plants on a gypsum outcrop in southern New Mexico: A listing, a new variety and taxonomic realignments in the *Anulocalis leiosolenus* complex (Nyctaginaceae), and a new variety of *Mentzelia humilis* (Loasaceae). Sida 18(4):987-999.  
*gypsogenus* Waterfall = *Anulocalis leiosolenus* (Torrey) Standley var. *gypsogenus* (Waterfall) Spellenb & T. Wootten

***leiosolenus*** (Torrey) Standley var. ***gypsogenus*** (Waterfall) Spellenberg & T. Wootten [M&H; Spellenberg 1993; Spellenberg & Wootten 1999]  
*Anulocalis gypsogenus* Waterfall

+***leiosolenus*** (Torrey) Standley var. ***howardii*** Spellenberg & T. Wootten [Spellenberg & Wootten 1999]

***leiosolenus*** (Torrey) Standley var. ***leiosolenus*** [M&H; Spellenberg 1993; W&S]  
*Boerhavia leiosolenus* Torrey  
*Boerhavia nummularia* M.E. Jones

**Boerhavia** spiderling

Jercinovic, E.M. 2009. Noteworthy collections. Madroño 56(4):295. [*Boerhavia pterocarpa*]

Spellenberg, R. 2002. *Boerhavia coulteri* var. *palmeri*, a new varietal combination for *Boerhavia* (Nyctaginaceae) of southwestern North America. Sida 20(1):151-155. [*Boerhavia coulteri palmeri*]

Spellenberg, R. 2007. *Boerhavia triquetra* var. *intermedia* (Nyctaginaceae): a new combination and varietal status for the widespread southwestern North American *B. intermedia*. J. Bot. Res. Inst. Texas 1(2):871-874.

***coccinea*** Miller [M&H; W&S]

*Boerhavia ixodes* Standley

*Boerhavia ramulosa* M.E. Jones

*Boerhavia viscosa* Lagasca & Rodríguez var. *oligadena* Heimerl

***coulteri*** (Hooker f.) S. Watson var. ***coulteri*** [M&H; Spellenberg 2002]

***coulteri*** (Hooker f.) S. Watson var. ***palmeri*** (S. Watson) Spellenberg [Spellenberg 2002]

*Boerhavia spicata* Choisy var. *palmeri* S. Watson

***erecta*** Linnaeus [M&H; W&S]

*Boerhavia erecta* Linnaeus var. *thornberi* (M.E. Jones) Standley

*Boerhavia thornberi* M.E. Jones

*erecta* Linnaeus var. *intermedia* (M.E. Jones) Kearney & Peebles = *Boerhavia intermedia* M.E. Jones

*erecta* Linnaeus var. *thornberi* (M.E. Jones) Standley = *Boerhavia erecta* Linnaeus

***gracillima*** Heimerl [M&H; W&S]

*Boerhavia organensis* Standley

*gypsophiloides* (Martius & Galeotti) Coulter = *Cyphomeris gypsophiloides* (Martius & Galeotti) Standley

*intermedia* M.E. Jones = *Boerhavia triquetra* S. Watson var. *intermedia* (M.E. Jones) Spellenberg

*ixodes* Standley = *Boerhavia coccinea* Miller

***linearifolia*** Gray [M&H; W&S]

*Boerhavia tenuifolia* Gray

*leiosolenus* Torrey = *Anulocalis leiosolenus* (Torrey) Standley var. *leiosolenus*

*nummularia* M.E. Jones = *Anulocalis leiosolenus* (Torrey) Standley var. *leiosolenus*

*organensis* Standley = *Boerhavia gracillima* Heimerl

***pterocarpa*** S. Watson [Jercinovic 2009]

***purpurascens*** Gray [M&H; W&S]

*ramulosa* M.E. Jones = *Boerhavia coccinea* Miller

*scandens* Linnaeus = *Commicarpus scandens* (Linnaeus) Standley

***spicata*** Choisy [M&H; W&S]

*spicata* Choisy var. *palmeri* S. Watson = *Boerhavia coulteri* (Hooker f.) S. Watson var. *palmeri* (S. Watson) Spellenberg

*spicata* var. *torreyana* S. Watson = *Boerhavia torreyana* (S. Watson) Standley

*tenuifolia* Gray = *Boerhavia linearifolia* Gray

*thornberi* M.E. Jones = *Boerhavia erecta* Linnaeus

***torreyana*** (S. Watson) Standley [M&H; W&S]

*Boerhavia spicata* var. *torreyana* S. Watson

***triquetra*** S. Watson var. ***intermedia*** (M.E. Jones) Spellenberg [M&H; W&S]



- Boerhavia erecta* Linnaeus var. *intermedia* (M.E. Jones) Kearney & Peebles  
*Boerhavia intermedia* M.E. Jones  
*viscosa* Lagasca & Rodríguez var. *oligadena* Heimerl = *Boerhavia coccinea* Miller  
**wrightii** Gray [M&H; W&S]
- Commicarpus** wart-club  
 Allred, K.W. 1999. New plant distribution records. The New Mexico Botanist 13:7. [*Commicarpus scandens*]  
 Harriman, N.A. 1999. Synopsis of New World *Commicarpus* (Nyctaginaceae). Sida 18(3):679-684.  
**scandens** (Linnaeus) Standley [Allred 1999; Harriman 1999]  
*Boerhavia scandens* Linnaeus
- Cyphomeris** delicate darling  
 Mahrt, M. & R. Spellenberg. 1995. Taxonomy of *Cyphomeris* (Nyctaginaceae) based on multivariate analyses of geographic variation. Sida 16(6):679-698.  
**gypsophiloides** (Martens & Galeotti) Standley [M&H; Mahrt & Spellenberg 1995; W&S]  
*Boerhavia gypsophiloides* (Martens & Galeotti) Coulter  
*Lindenia gypsophiloides* Martens & Galeotti  
*Lindenia gypsophiloides* Martens & Galeotti = *Cyphomeris gypsophiloides* (Martens & Galeotti) Standley
- Mirabilis** four-o'clock  
 Heil, K. 2007. Plant distribution reports [*Mirabilis multiflora glandulosa*]. The New Mexico Botanist 39:7.  
 LeDuc, A. 1995. A revision of *Mirabilis* section *Mirabilis* (Nyctaginaceae). Sida 16(40):613-648.  
 Pilz, G.E. 1978. Systematics of *Mirabilis* subgenus *Quamoclidion* (Nyctaginaceae). Madroño 25:113-176.  
 Spellenberg, R. 1998 [1999]. *Mirabilis melanotricha* (Nyctaginaceae), a new combination for a common four o'clock from southwestern North America. Phytologia 85(2):99-104.  
 Spellenberg, R. & S.R. Rodriguez Tijerina. 2001. Geographic variation and taxonomy of North American species of *Mirabilis*, section *Oxybaphoides* (Nyctaginaceae). Sida 19(3):539-570.  
 Spellenberg, R. 2002. Varietal status for a hirsute phase of *Mirabilis linearis* (Nyctaginaceae). Novon 12:270-271.  
 Turner, B.L. 1993. Texas species of *Mirabilis* (Nyctaginaceae). Phytologia 75:432-451.  
**albida** (Walter) Heimerl [M&H; M&H]  
*Allionia albida* Walter  
*Allionia hirsuta* Pursh  
*Allionia lanceolata* Rydberg  
*Allionia pratensis* Standley  
*Mirabilis comata* (Small) Standley  
*Mirabilis lanceolata* (Rydberg) Standley  
*Mirabilis oblongifolia* (A. Gray) Heimerl  
*Oxybaphus albidus* (Walter) Choisy  
*Oxybaphus hirsutus* (Pursh) Sweet  
*Oxybaphus lanceolatus* (Rydberg) Standley  
*Oxybaphus nyctagineus* var. *oblongifolius* A. Gray  
*carletonii* (Standley) Standley = *Mirabilis glabra* (S. Watson) Standley  
**coccinea** (Torrey) Benthams & Hooker f. [M&H; W&S]  
*Allionia coccinea* (Torrey) Standley  
*Allionia linearifolia* (S. Watson) Kuntze var. *filifolia* Standley  
*Oxybaphus coccineus* Torrey  
*Oxybaphus linearifolius* S. Watson  
**comata** (Small) Standley [M&H; W&S]  
*Allionia comata* Small  
*Allionia pumila* Standley  
*Oxybaphus comatus* (Small) Weatherby  
*Oxybaphus pumilus* (Standley) Standley  
*decipiens* (Standley) Standley = *Mirabilis linearis* (Pursh) Heimerl var. *decipiens* (Standley) S.L. Welsh  
*decumbens* (Nuttall) Daniels : Tentative report by M&H map; awaits verification.  
*Oxybaphus decumbens* Nuttall  
*diffusa* (Heller) Reed = *Mirabilis linearis* (Pursh) Heimerl  
*gausapoides* (Standley) Standley = *Mirabilis linearis* (Pursh) Heimerl var. *subhispidia* (Heimerl) Spellenberg  
**glabra** (S. Watson) Standley [M&H; Turner 1993; W&S]  
*Allionia carletonii* Standley

- Allionia glabra* (S. Watson) Kuntze  
*Allionia glabra* (S. Watson) Kuntze var. *recedens* (Weatherby) Standley  
*Oxybaphus carletonii* (Standley) Weatherby  
*Oxybaphus glaber* S. Watson  
*glandulosa* (Standley) Weber = *Mirabilis multiflora* (Torrey) Gray var. *glandulosa*  
 (Standley) MacBride  
*hirsuta* (Pursh) MacMillan = *Mirabilis albida* (Walter) Heimerl  
*jalapa* Linnaeus (garden four o'clock) : Reported as expected by M&H map; not yet known  
 in NM except as a garden ornamental (Le Duc 1995); awaits verification.  
*lanceolata* (Rydberg) Standley = *Mirabilis albida* (Walter) Heimerl  
***linearis*** (Pursh) Heimerl var. ***decipiens*** (Standley) S.L. Welsh [M&H]  
*Allionia decipiens* Standley  
***linearis*** (Pursh) Heimerl var. ***linearis*** [M&H; Turner 1993; W&S]  
*Allionia bodinii* (Holzinger) Morong  
*Allionia divaricata* Rydberg  
*Allionia diffusa* Heller  
*Allionia linearis* Pursh  
*Allionia pinetorum* Standley  
*Mirabilis decipiens* (Standley) Standley  
*Mirabilis diffusa* (Heller) Reed  
*Oxybaphus diffusus* (Heller) Martin & Hutchins ined. [not validly published by  
 Martin & Hutchins]  
*Oxybaphus linearis* (Pursh) Robinson var. *decipiens* (Standley) Kearney &  
 Peebles  
*Oxybaphus linearis* (Pursh) Robinson var. *linearis*  
*linearis* (Pursh) Heimerl forma *subhispida* Heimerl = *Mirabilis linearis* (Pursh) Heimerl var.  
*subhispida* (Heimerl) Spellenberg  
***linearis*** (Pursh) Heimerl var. ***subhispida*** (Heimerl) Spellenberg [M&H; W&S]  
*Allionia gausapoides* Standley  
*Allionia linearis* Pursh *subhispida* (Heimerl) Standley [rank unstated]  
*Allionia subhispida* (Heimerl) Standley  
*Mirabilis gausapoides* (Standley) Standley  
*Mirabilis linearis* (Pursh) Heimerl. forma *subhispida* Heimerl  
*Oxybaphus linearis* (Pursh) Robinson var. *subhispidus* (Heimerl) Dayton  
***longiflora*** Linnaeus [M&H; Le Duc 1995; W&S]  
*Mirabilis longiflora* Linnaeus var. *wrightiana* (Gray ex Britton & Kearney)  
 Kearney & Peebles  
*Mirabilis wrightiana* Gray ex Britton & Kearney  
***melanotricha*** (Standley) Spellenberg [Spellenberg 1998; W&S]  
*Allionia melanotricha* Standley  
***multiflora*** (Torrey) Gray var. ***glandulosa*** (Standley) MacBride [Heil 2007]  
*Quamoclidion multiflorum* Torrey subsp. *glandulosum* Standley  
***multiflora*** (Torrey) Gray var. ***multiflora*** [M&H; W&S]  
*Oxybaphus multiflorus* Torrey  
*Quamoclidion multiflorum* Torrey  
***nyctaginea*** (Michaux) MacMillan [M&H; Turner 1993]  
*Allionia nyctaginea* Michaux  
*Oxybaphus nyctagineus* (Michaux) Sweet  
*oblongifolia* (A. Gray) Heimerl = *Mirabilis albida* (Walter) Heimerl  
***oxybaphoides*** (Gray) Gray [M&H; W&S]  
*Allionella oxybaphoides* (Gray) Rydberg  
*Allionella oxybaphoides* (Gray) Rydberg var. *glabrata* (Heimerl) Standley  
*Mirabilis oxybaphoides* (Gray) Gray var. *glabrata* Heimerl  
*Oxybaphus wrightii* Hemsley  
*Quamoclidion oxybaphoides* Gray  
*oxybaphoides* (Gray) Gray var. *glabrata* Heimerl = *Mirabilis oxybaphoides* (Gray) Gray  
*pumila* (Standley) Standley = *Mirabilis albida* (Walter) Heimerl  
*wrightiana* Gray ex Britton & Kearney = *Mirabilis longiflora* Linnaeus

**Nyctaginea** devil's-bouquet**capitata** Choisy [M&H; W&S]*Nyctaginea cockerellae* A. Nelson*cockerellae* A. Nelson = *Nyctaginea capitata* Choisy*Oxybaphus albidus* (Walter) Choisy = *Mirabilis albida* (Walter) Heimerl*carletonii* (Standley) Weatherby = *Mirabilis glabra* (S. Watson) Standley*coccineus* Torrey = *Mirabilis coccineus* (Torrey) Benth & Hooker f.*comatus* (Small) Weatherby = *Mirabilis comata* (Small) Standley*decumbens* Nuttall = *Mirabilis decumbens* (Nuttall) Daniels*diffusus* (Heller) Martin & Hutchins ined. [This combination not validly published byM&H; see ICBN, Article 33] = *Mirabilis linearis* (Pursh) Heimerl*glaber* S. Watson = *Mirabilis glabra* (S. Watson) Standley*hirsutus* (Pursh) Sweet = *Mirabilis albida* (Walter) Heimerl*lanceolatus* (Rydberg) Standley = *Mirabilis lanceolata* (Rydberg) Standley*linearifolius* S. Watson = *Mirabilis coccineus* (Torrey) Benth & Hooker f.*linearis* (Pursh) Robinson var. *decepiens* (Standley) Kearney & Peebles = *Mirabilis linearis* (Pursh) Heimerl*linearis* (Pursh) Robinson var. *linearis* = *Mirabilis linearis* (Pursh) Heimerl*linearis* (Pursh) Robinson var. *subhispidus* (Heimer) Dayton = *Mirabilis linearis* (Pursh) Heimerl*multiflorus* Torrey = *Mirabilis multiflora* (Torrey) Gray var. *multiflora**nyctagineus* (Michaux) Sweet = *Mirabilis nyctaginea* (Michaux) MacMillan*nyctagineus* var. *oblongifolius* A. Gray = *Mirabilis albida* (Walter) Heimerl*pumilus* (Standley) Standley = *Mirabilis comata* (Small) Standley*wrightii* Hemsley = *Mirabilis oxybaphoides* (Gray) Gray**Quamoclidion multiflorum** Torrey = *Mirabilis multiflora* (Torrey) Gray var. *multiflora**multiflorum* Torrey subsp. *glandulosum* Standley = *Mirabilis multiflora* (Torrey) Gray var. *glandulosa* (Standley) Macbride*oxybaphoides* Gray = *Mirabilis oxybaphoides* (Gray) Gray**Selinocarpus chenopodioides** Gray = *Acleisanthes chenopodioides* (A. Gray) R.A. Levin*diffusus* Gray = *Acleisanthes diffusus* (A. Gray) R.A. Levin*lanceolatus* Wooton = *Acleisanthes lanceolatus* (Wooton) R.A. Levin**Tripterocalyx** sand-puffsGalloway, L.A. 1975. Systematics of the North American desert species of *Abronia* and *Tripterocalyx* (Nyctaginaceae). *Brittonia* 27:328-347.**carneus** (Greene) Galloway [Galloway 1975; M&H; W&S]*Abronia carnea* Greene*Tripterocalyx cyclopterus* sensu Standley*Tripterocalyx carneus* (Greene) Galloway var. *wootonii* (Standley) Galloway*carneus* (Greene) Galloway var. *wootonii* (Standley) Galloway = *Tripterocalyx carneus* (Greene) Galloway*cyclopterus* sensu Standley = *Tripterocalyx carneus* (Greene) Galloway**micranthus** (Torrey) Hooker [Galloway 1975; M&H; W&S]*Abronia micrantha* Torrey*Tripterocalyx micranthus* (Torrey) Hooker forma *albus* Moldenke*micranthus* (Torrey) Hooker forma *albus* Moldenke = *Tripterocalyx micranthus* (Torrey) Hooker*wootonii* Standley = *Tripterocalyx carneus* (Greene) Galloway**Wedelia glabra** (Choisy) Standley = *Allionia choisyi* Standley*incarnata* (Linnaeus) Cockerell subsp. *villosa* Standley = *Allionia incarnata* Linnaeus var. *villosa* (Standley) B.L. Turner**Wedeliella glabra** (Choisy) Cockerell = *Allionia choisyi* Standley*incarnata* (Linnaeus) Cockerell = *Allionia incarnata* Linnaeus var. *incarnata**incarnata* (Linnaeus) Cockerell var. *anodonta* (Standley) Cockerell = *Allionia incarnata* Linnaeus var. *incarnata***Family NYMPHAEACEAE** [2/3/3]Les, D.H., E.L. Schneider, D.J. Padgett, P.S. Soltis, D.E. Soltis, & M. Zanis. 1999. Phylogeny, classification and floral evolution of water lilies (Nymphaeaceae; Nymphaeales): A synthesis of non-molecular, rbcL, matK, and 18S rDNA data. *Syst. Bot.* 24(1): 28-46.

**Nuphar** pond-lily

Wiersema, J.H. & C.B. Hellquist. 1997. *Nuphar*, pp. 67-71. IN: Flora of North America, vol. 3. Oxford University Press.

**polysepala** Engelm. [M&H; Wiersema & Hellquist 1997]

*Nymphaea polysepala* (Engelm.) Greene

**Nymphaea** water-lily

Allred, K.W. 2001. New plant distribution records. The New Mexico Botanist 20:8. [*Nymphaea mexicana*]  
Wiersema, J.H. 1997. *Nymphaea*, pp. 71-77. IN: Flora of North America, vol. 3. Oxford University Press.

\***mexicana** Zuccarini [Allred 2001]

\***odorata** Aiton [Wiersema 1997]

*polysepala* (Engelm.) Greene = *Nuphar polysepala* Engelm.

**Family OLEACEAE** [5/10/11]

Wallander, E. & V.A. Albert. 2000. Phylogeny and classification of Oleaceae based on rps16 and trnL-F sequence data. Amer. J. Bot. 87(12): 1827-1841.

**Adelia neomexicana** (Gray) Kuntze = *Forestiera pubescens* Nuttall

**Forestiera** desert-olive

Hess, W.J. 2000. New plant distribution records. The New Mexico Botanist 14:4. [*Forestiera shrevei*]

Nesom, G.L. 2009. Taxonomy of *Forestiera pubescens* and *Forestiera neomexicana* (Oleaceae). Lundellia 12: 8-14.

*neomexicana* Gray = *Forestiera pubescens* Nuttall

**phillyreoides** (Benth.) Torrey [Hess 2000]

*Forestiera phillyreoides* (Benth.) Torrey var. *spathulifolia* Torrey

*Forestiera shrevei* Standley

*Piptolepis phillyreoides* Benth.

*phillyreoides* (Benth.) Torrey var. *spathulifolia* Torrey = *Forestiera phillyreoides* (Benth.) Torrey

**pubescens** Nuttall [M&H; W&S]

*Adelia neomexicana* (Gray) Kuntze

*Forestiera neomexicana* Gray

*Forestiera pubescens* Nuttall var. *glabrifolia* Shinn.

*pubescens* Nuttall var. *glabrifolia* Shinn. = *Forestiera pubescens* Nuttall

*Forestiera pubescens* Nuttall var. *parvifolia* (A. Gray) Nesom = *Forestiera pubescens* Nuttall

*shrevei* Standley = *Forestiera phillyreoides* (Benth.) Torrey

**Fraxinus** ash

Elias, T.S. 1980. The Complete Trees of North America. Van Nostrand Reinhold Company, New York.

Heil, K.D., S.L. O'Kane, & A. Clifford. 2002. Additions to the flora of New Mexico from the San Juan Basin Flora project. The New Mexico Botanist 24:1-4. [*Fraxinus pennsylvanica*]

Huff, C. 1996. New plant distribution records. The New Mexico Botanist 3:6. [*Fraxinus lowellii*]

Miller, G.N. 1955. The genus *Fraxinus*, the ashes, in North America, north of Mexico. New York State College Agr. Mem. (Cornell Univ.) 335. 1-64.

Nesom, G.L. 2010. Geography of unifoliolate taxa of *Fraxinus* (Oleaceae). Phytoneuron 2010-17:1-6.

Nesom, G.L. 2010. Taxonomic notes on *Fraxinus berlandierana* and *F. velutina* (Oleaceae). Phytoneuron 2010-34:1-8.

Nesom, G.L. 2010. Notes on *Fraxinus cuspidata* and *F. goodingii* (Oleaceae). Phytoneuron 2010-38:1-14. [*Fraxinus cuspidata macropetala*]

Rehder, A. 1917. The genus *Fraxinus* in New Mexico and Arizona. Proc. Amer. Acad. Arts 53: 199-212.

Wallander, E. 2008. Systematics of *Fraxinus* (Oleaceae) and evolution of dioecy. Plant Syst. Evol. 273: 25-49.

**anomala** Torrey ex S. Watson var. **anomala** [M&H; Nesom 2010; W&S]

single-leaf ash

**anomala** Torrey ex S. Watson var. **lowellii** (Sargent) Little [Huff 1996; Nesom 2010]

Lowell's ash

*Fraxinus lowellii* Sargent

*attenuata* M.E. Jones = *Fraxinus velutina* Torrey

*berlandierana* A.P. de Candolle : Reported as expected by M&H; awaits verification.

**cuspidata** Torrey [M&H; Nesom 2010; W&S]

fragrant ash

*Fraxinus cuspidata* Torrey var. *macropetala* (Eastwood) Rehder

- Fraxinus macropetala* Eastwood  
*cuspidata* Torrey var. *macropetala* (Eastwood) Rehder = *Fraxinus cuspidata* Torrey  
*lowellii* Sargent = *Fraxinus anomala* Torrey ex S. Watson var. *lowellii* (Sargent) Little  
*greggii* Gray : Reported by M&H, but our material is referred to *Fraxinus cuspidata* Torrey  
 [Nesom 2010]  
*macropetala* Eastwood = *Fraxinus cuspidata* Torrey var. *macropetala* (Eastwood) Rehder  
*papillosa* Lingelsheim = *Fraxinus velutina* Torrey  
 \**pennsylvanica* Marshall [Heil et al. 2002]  
 green ash  
*pennsylvanica* Marshall subsp. *velutina* (Torrey) G.N. Miller = *Fraxinus velutina* Torrey  
*standleyi* Rehder = *Fraxinus velutina* Torrey  
*toumeyii* Britton = *Fraxinus velutina* Torrey  
***velutina*** Torrey [M&H; W&S]  
 velvet ash, Arizona ash  
*Fraxinus attenuata* M.E. Jones  
*Fraxinus papillosa* Lingelsheim  
*Fraxinus pennsylvanica* Marshall subsp. *velutina* (Torrey) G.N. Miller  
*Fraxinus standleyi* Rehder  
*Fraxinus toumeyii* Britton  
*Fraxinus velutina* Torrey var. *glabra* (Thornber) Rehder  
*Fraxinus velutina* Torrey var. *toumeyii* (Britton) Rehder  
*velutina* Torrey var. *glabra* (Thornber) Rehder = *Fraxinus velutina* Torrey  
*velutina* Torrey var. *toumeyii* (Britton) Rehder = *Fraxinus velutina* Torrey
- Ligustrum*** privet  
 Allred, B.W. 2000. New plant distribution records. The New Mexico Botanist 15:7. [*Ligustrum vulgare*]  
 Nesom, G.L. 2009. Taxonomic overview of *Ligustrum* (Oleaceae) naturalized in North America north of Mexico. Phytologia 91(3):467-482.  
 \**vulgare* Linnaeus [Allred, B.W. 2000]
- Menodora*** menodora  
 Chumley, T.W. 2007. Phylogeny, biogeography and systematics of *Menodora* (Oleaceae) and the chloroplast genome of *Pelargonium × hortorum*. Ph.D. dissertation, Univ. Texas, Austin.  
 Turner, B.L. 1991. An overview of the North American species of *Menodora* (Oleaceae). Phytologia 71:340-356.  
*decemfida* (Gill ex Hooker & Arnott) Gray var. *longifolia* Steyermark : Reported by Kartesz (1999), citing Steyermark (1932) as the source, but the latter work does not include New Mexico in the distribution of var. *longifolia*.  
*laevis* Wooton & Standley = *Menodora scabra* Gray  
***longiflora*** Gray [M&H; W&S]  
*Menodoropsis longiflora* (Gray) Small  
*scabra* Gray var. *laevis* (Wooton & Standley) Steyermark = *Menodora scabra* Gray  
*scabra* Gray var. *ramosissima* Steyermark = *Menodora scabra* Gray  
***scabra*** Gray [M&H; W&S]  
*Menodora laevis* Wooton & Standley  
*Menodora scabra* Gray var. *laevis* (Wooton & Standley) Steyermark  
*Menodora scabra* Gray var. *ramosissima* Steyermark  
*Menodora scoparia* Engelman  
*scoparia* Engelman = *Menodora scabra* Gray  
*Menodoropsis longiflora* (Gray) Small = *Menodora longiflora* Gray  
*Piptolepis phillyreoides* Benthams = *Forestiera phillyreoides* (Benthams) Torrey
- Syringa*** lilac  
 Hartman, R.L., B. Reif, B.E. Nelson, & B. Jacobs. 2006. New vascular plant records for New Mexico. Sida 22(2):1225-1233. [*Syringa vulgaris*]  
 \**vulgaris* Linnaeus [Hartman et al. 2006]

### Family ONAGRACEAE [9/59/70]

[Epilobiaceae]

- Raven, P.H. 1976. Generic and sectional delimitation in Onagraceae, tribe Epilobieae. Ann. Missouri Bot. Gard. 63:326-340.  
 Wagner, W.L. and P.C. Hoch. 2005-. Onagraceae, The Evening Primrose Family website. <http://botany.si.edu/onagraceae/index.cfm> [accessed 3 May 2019].

Wagner, W.L., P.C. Hoch, & P.H. Raven. 2007. Revised classification of the Onagraceae. Syst. Bot. Monographs vol. 83.

- Anogra albicaulis* (Pursh) Britton = *Oenothera albicaulis* Pursh  
*amplexicaulis* (Wooton & Standley) Tidestrom = *Oenothera pubescens* Willdenow ex Sprengel  
*coronopifolia* (Torrey & Gray) Britton = *Oenothera coronopifolia* Torrey & Gray  
*ctenophylla* Wooton & Standley = *Oenothera albicaulis* Pursh  
*engelmannii* (Small) Wooton & Standley = *Oenothera engelmannii* (Small) Munz  
*gypsophila* (Eastwood) Heller = *Oenothera pallida* Lindley var. *runcinata* (Engelmann) Cronquist  
*latifolia* Rydberg = *Oenothera pallida* Lindley var. *latifolia* (Rydberg) Small  
*leucotricha* Wooton & Standley = *Oenothera pallida* Lindley var. *runcinata* (Engelmann) Cronquist  
*neomexicana* Small = *Oenothera neomexicana* (Small) Munz  
*pallida* (Lindley) Britton = *Oenothera pallida* Lindley var. *pallida*  
*pallida* (Lindley) Britton var. *engelmannii* Small = *Oenothera engelmannii* (Small) Munz  
*pallida* (Lindley) Britton var. *runcinata* (Engelmann) Small = *Oenothera pallida* Lindley var. *runcinata* (Engelmann) Cronquist  
*albicaulis* Britton var. *runcinata* Engelmann = *Oenothera pallida* Lindley var. *runcinata* (Engelmann) Cronquist  
*runcinata* (Engelmann) Wooton & Standley = *Oenothera pallida* Lindley var. *runcinata* (Engelmann) Cronquist  
*Boisduvalia campestris* Jepson = *Epilobium campestre* (Jepson) Hoch & W.L. Wagner  
*glabella* (Nuttall) Walpers = *Epilobium campestre* (Jepson) Hoch & W.L. Wagner  
*Calylophus berlandieri* Spach subsp. *berlandieri* = *Oenothera capillifolia* Scheele subsp. *berlandieri* (Spach) Wagner & Hoch  
*berlandieri* Spach subsp. *pinifolius* (Engelmann ex Gray) Towner = *Oenothera capillifolia* Scheele subsp. *capillifolia*  
*berlandieri* Spach subsp. *pinifolius* (Engelmann ex Gray) Towner = *Oenothera capillifolia* Scheele subsp. *capillifolia*  
*drummondianus* Spach = *Oenothera serrulata* Nuttall  
*hartwegii* (Benth) Raven subsp. *fendleri* (Gray) Towner & Raven = *Oenothera hartwegii* Benth subsp. *fendleri* (Gray) W.L. Wagner & Hoch  
*hartwegii* (Benth) Raven subsp. *filifolius* (Eastwood) Towner & Raven = *Oenothera hartwegii* Benth var. *filifolia* (Eastwood) Munz  
*hartwegii* (Benth) Raven subsp. *hartwegii* [= *Oenothera hartwegii* Benth subsp. *hartwegii*] : Reported by M&H and W&S, but the typical subspecies is not known in NM [Towner 1977].  
*hartwegii* (Benth) Raven subsp. *lavandulifolius* (Torrey & Gray) Towner & Raven = *Oenothera lavandulifolia* Torrey & Gray  
*hartwegii* (Benth) Raven subsp. *pubescens* (Gray) Towner & Raven = *Oenothera hartwegii* Benth subsp. *pubescens* (Gray) W.L. Wagner & Hoch  
*hartwegii* (Benth) Raven subsp. *toumeyii* (Small) Towner & Raven = *Oenothera toumeyii* (Small) Tidestrom  
*lavandulifolius* (Torrey & Gray) Raven = *Oenothera lavandulifolia* Torrey & Gray  
*serrulatus* (Nuttall) Raven = *Oenothera serrulata* Nuttall  
*toumeyii* (Small) Towner = *Oenothera toumeyii* (Small) Tidestrom  
*tubicula* (Gray) Raven = *Oenothera tubicula* Gray
- Camissonia** suncup  
 Heil, K.D., S.L. O'Kane, & A. Clifford. 2002. Additions to the flora of New Mexico from the San Juan Basin Flora project. The New Mexico Botanist 24:1-4. [*Camissonia parvula*]  
 Raven, P.H. 1969. A revision of the genus *Camissonia* (Onagraceae). Contrib. U.S. Nat. Herb. 37:161-396.  
*chamaenerioides* (Gray) Raven = *Eremothera chamaenerioides* (A. Gray) W.L. Wagner & Hoch  
*claviformis* (Torrey & Frémont) Raven subsp. *peeblesii* (Munz) Raven = *Chylismia claviformis* Torrey & Frémont subsp. *peeblesii* (Munz) W.L. Wagner & Hoch  
**parvula** (Nuttall ex Torrey & Gray) Raven [Heil et al. 2002]  
*Oenothera parvula* Nuttall ex Torrey & Gray  
*refracta* (S. Watson) Raven = *Eremothera refracta* (S. Watson) W.L. Wagner & Hoch

*scapoidea* (Nuttall ex Torrey & Gray) Raven subsp. *scapoidea* = *Chylismia scapoidea*  
(Torrey & Gray) Nuttall ex Raimann subsp. *scapoidea*  
*walkeri* (A. Nelson) Raven = *Chylismia walkeri* A. Nelson

**Chamaenerion** fireweed

Baum, D.A., K.J. Sysmsma, & P.C. Hoch. 1994. a phylogenetic analysis of *Epilobium* (Onagraceae) based on nuclear ribosomal DNA sequences. *Syst. Bot.* 19:363-388.

Chen, C.-j., P.C. Hoch, & P.H. Raven. 1992. Systematics of *Epilobium* (Onagraceae) in China. *Syst. Bot. Monogr.* 34.

Mosquin, T. 1966. A new taxonomy for *Epilobium angustifolium* L. (Onagraceae). *Brittonia* 18:167-188.

Sennikov, A.N. 2011. *Chamerion* or *Chamaenerion* (Onagraceae)? The old story in new words. *Taxon* 60(5):1485-1488.

**angustifolium** (Linnaeus) Scopoli subsp. **circumvagum** (Mosquin) Moldenke  
[M&H; W&S]

*Chamerion angustifolium* (Linnaeus) Holub subsp. *circumvagum* (Mosquin)  
Hoch

*Epilobium angustifolium* Linnaeus var. *canescens* Wood

*Epilobium angustifolium* Linnaeus subsp. *circumvagum* Mosquin

*Chamerion angustifolium* (Linnaeus) Holub subsp. *circumvagum* (Mosquin) Hoch =

*Chamaenerion angustifolium* (Linnaeus) Scopoli subsp. *circumvagum*  
(Mosquin) Moldenke

*palustre* (Linnaeus) Schreber = *Epilobium palustre* Linnaeus

**Chylismia** suncup

Heil, K.D., S.L. O'Kane, & A. Clifford. 2002. Additions to the flora of New Mexico from the San Juan Basin Flora project. *The New Mexico Botanist* 24:1-4. [*Chylismia walkeri*]

Wagner, W.L., P.C. Hoch, & P.H. Raven. 2007. Revised classification of the Onagraceae. *Syst. Bot. Monographs* vol. 83.

**claviformis** subsp. **peeblesii** (Munz) W.L. Wagner & Hoch [M&H]

*Camissonia claviformis* (Torrey & Frémont) Raven subsp. *peeblesii* (Munz)  
Raven

*Oenothera claviformis* Torrey & Frémont var. *peeblesii* Munz

**scapoidea** (Torrey & Gray) Nuttall ex Raimann subsp. **scapoidea** [M&H]

*Camissonia scapoidea* (Torrey & Gray) Raven subsp. *scapoidea*

*Oenothera scapoidea* Torrey & Gray

**walkeri** A. Nelson [Heil et al. 2002]

*Camissonia walkeri* (A. Nelson) Raven

*Oenothera multijuga* S. Watson var. *orientalis* Munz

**Circaea** enchanter's-nightshade

Boufford, D.E. 1982 (1983). The systematics and evolution of *Circaea* (Onagraceae). *Ann. Missouri Bot. Gard.* 69:804-994.

**alpina** Linnaeus var. **alpina** [M&H; W&S]

**alpina** Linnaeus var. **pacifica** (Ascherson & Magnus) M.E. Jones [M&H]

*Circaea alpina* Linnaeus subsp. *pacifica* (Ascherson & Magnus) Raven

*Circaea pacifica* Ascherson & Magnus

*alpina* Linnaeus subsp. *pacifica* (Ascherson & Magnus) Raven = *Circaea alpina* Linnaeus  
var. *pacifica* (Ascherson & Magnus) M.E. Jones

*pacifica* Ascherson & Magnus = *Circaea alpina* Linnaeus var. *pacifica* (Ascherson &  
Magnus) M.E. Jones

**Epilobium** willow-herb

Chen, C.-j., P.C. Hoch, & P.H. Raven. 1992. Systematics of *Epilobium* (Onagraceae) in China. *Syst. Bot. Monogr.* 34.

Heil, K.D., S.L. O'Kane, & A. Clifford. 2002. Additions to the flora of New Mexico from the San Juan Basin Flora project. *The New Mexico Botanist* 24:1-4. [*Epilobium palustre*]

Raven, P.H. 1976. Generic and sectional delimitation in Onagraceae, tribe Epilobieae. *Ann. Missouri Bot. Gard.* 63:326-340.

Reif, B., J. Larson, B.R. Jacobs, B.E. Nelson, & R.L. Hartman. 2009. Floristic studies in north central New Mexico, U.S.A., the Tusa Mountains and the Jemez Mountains. *J. Bot. Res. Inst. Texas* 3(2):921-961. [*Epilobium campestre*, *Epilobium ciliatum glandulosum*]

Sivinski, R.C. 2012. Plant distribution reports (*Epilobium oregonense*). *The New Mexico Botanist* 57:4.

Sivinski, R.C., T. Lowrey, & C. Keller. 1995 [1996]. Additions to the floras of Colorado and New Mexico. *Phytologia* 79(5):319-324. [*Epilobium hornemanni lactiflorum*]

*adenocaulon* Haussknecht = *Epilobium ciliatum* Rafinesque

*adenocaulon* Haussknecht var. *parishii* (Trelease) Munz = *Epilobium ciliatum* Rafinesque

- adenocaulon* Haussknecht var. *perplexans* Trelease = *Epilobium ciliatum* Rafinesque  
*adenocladon* (Haussknecht) Rydberg = *Epilobium brachycarpum* C. Presl  
*alpinum* Linnaeus, nomen rejiciendum = *Epilobium anagallidifolium* Lamarck  
*alpinum* Linnaeus var. *lactiflorum* (Haussknecht) C.L. Hitchcock = *Epilobium lactiflorum*  
 Haussknecht  
***anagallidifolium*** Lamarck [M&H; W&S]  
*Epilobium alpinum* Linnaeus, nomen rejiciendum  
*angustifolium* Linnaeus var. *canescens* Wood = *Chamaenerion angustifolium* (Linnaeus)  
 Scopoli subsp. *circumvagum* (Mosquin) Moldenke  
*angustifolium* Linnaeus subsp. *circumvagum* Mosquin = *Chamaenerion angustifolium*  
 (Linnaeus) Scopoli subsp. *circumvagum* (Mosquin) Moldenke  
***brachycarpum*** C. Presl [M&H; W&S]  
*Epilobium paniculatum* Nuttall ex Torrey & Gray  
*Epilobium adenocladon* (Haussknecht) Rydberg  
*Epilobium paniculatum* Nuttall ex Torrey & Gray forma *adenocladon*  
 Haussknecht  
*Epilobium paniculatum* Nuttall ex Torrey & Gray forma *subulatum* Haussknecht  
*californicum* Haussknecht = *Epilobium ciliatum* Rafinesque  
***campestre*** (Jepson) Hoch & W.L. Wagner [Reif et al. 2009]  
*Boisduvalia campestris* Jepson  
*Boisduvalia glabella* (Nuttall) Walpers  
*Epilobium pygmaeum* (Spegazzini) Hoch & P.H. Raven  
***canum*** (Greene) Raven var. ***latifolium*** (Hooker) N.H. Holmgren & P.K.  
 Holmgren [M&H; W&S]  
 hummingbird-trumpets  
*Epilobium canum* (Greene) Raven subsp. *latifolium* (Hooker) Raven  
*Zauschneria californica* Presl subsp. *latifolia* (Hooker) Keck  
*Zauschneria californica* Presl var. *latifolia* Hooker  
*Zauschneria arizonica* A. Davidson  
*Zauschneria latifolia* Greene var. *arizonica* (A. Davidson) Hilend  
*canum* (Greene) Raven subsp. *latifolium* (Hooker) Raven = *Epilobium canum* (Greene)  
 Raven var. *latifolium* (Hooker) N.H. Holmgren & P.K. Holmgren  
***ciliatum*** Rafinesque var. ***ciliatum*** [M&H; W&S]  
*Epilobium adenocaulon* Haussknecht  
*Epilobium adenocaulon* Haussknecht var. *parishii* (Trelease) Munz  
*Epilobium adenocaulon* Haussknecht var. *perplexans* Trelease  
*Epilobium californicum* Haussknecht  
*Epilobium fendleri* Haussknecht  
*Epilobium novomexicanum* Haussknecht  
***ciliatum*** Rafinesque var. ***glandulosum*** (Lehmann) Dorn [Reif et al. 2009]  
*drummondii* Haussknecht = *Epilobium saximontanum* Haussknecht  
*fendleri* Haussknecht = *Epilobium ciliatum* Rafinesque  
***hallianum*** Haussknecht [W&S]  
***hornemannii*** Reichenbach var. ***hornemannii*** [M&H]  
*hornemannii* Reichenbach var. *lactiflorum* (Haussknecht) D. Löve = *Epilobium lactiflorum*  
 Haussknecht  
***lactiflorum*** Haussknecht [Sivinski et al. 1995]  
*Epilobium alpinum* Linnaeus var. *lactiflorum* (Haussknecht) C.L. Hitchcock  
*Epilobium hornemannii* Reichenbach var. *lactiflorum* (Haussknecht) D. Löve  
***leptophyllum*** Rafinesque [M&H; W&S]  
*Epilobium lineare* of NM reports  
*lineare* of NM reports = *Epilobium leptophyllum* Rafinesque  
*novomexicanum* Haussknecht = *Epilobium ciliatum* Rafinesque  
***oregonense*** Haussknecht [Sivinski 2012]  
*ovatifolium* Rydberg = *Epilobium saximontanum* Haussknecht  
*palustre* Linnaeus : Reported by Heil et al. (2002), but the specimen in question belongs to  
*Epilobium hallianum* Haussknecht.  
*Chamaenerion palustre* (Linnaeus) Schreber  
*paniculatum* Nuttall ex Torrey & Gray = *Epilobium brachycarpum* C. Presl



- paniculatum* Nuttall ex Torrey & Gray forma *adenocladon* Haussknecht = *Epilobium brachycarpum* C. Presl
- paniculatum* Nuttall ex Torrey & Gray forma *subulatum* Haussknecht = *Epilobium brachycarpum* C. Presl
- pygmaeum* (Spegazzini) Hoch & P.H. Raven = *Epilobium campestre* (Jepson) Hoch & W.L. Wagner
- saximontanum*** Haussknecht [M&H]  
*Epilobium drummondii* Haussknecht  
*Epilobium ovatifolium* Rydberg
- Eremothera*** **suncup**  
Wagner, W.L., P.C. Hoch, & P.H. Raven. 2007. Revised classification of the Onagraceae. Syst. Bot. Monographs vol. 83.
- chamaenerioides*** (Gray) W.L. Wagner & Hoch [M&H; W&S]  
*Camissonia chamaenerioides* (Gray) Raven  
*Oenothera chamaenerioides* Gray  
*Sphaerostigma chamaenerioides* (Gray) Small
- refracta*** (S. Watson) W.L. Wagner & Hoch [M&H]  
*Camissonia refracta* (S. Watson) Raven  
*Oenothera deserti* M.E. Jones  
*Oenothera refracta* S. Watson  
*Sphaerostigma deserti* (M.E. Jones) Heller  
*Sphaerostigma refractum* (S. Watson) Small
- Galpinsia carlsbadiana* Nelson = *Oenothera tubicula* Gray  
*camporum* Wootton & Standley = *Oenothera hartwegii* Benth var. *pubescens* (A. Gray) Allred
- fendleri* (Gray) Heller = *Oenothera hartwegii* Benth var. *fendleri* (A. Gray) A. Gray  
*filifolia* (Eastwood) Wootton = *Oenothera hartwegii* Benth var. *filifolia* (Eastwood) Munz  
*glandulifera* A. Nelson = *Oenothera tubicula* Gray  
*hartwegii* (Benth) Britton = *Oenothera hartwegii* Benth subsp. *hartwegii*  
*lampsana* (Buckley) Wootton & Standley = *Oenothera hartwegii* Benth var. *pubescens* (A. Gray) Allred
- lavandulifolia* (Torrey & Gray) Small = *Oenothera lavandulifolia* Torrey & Gray  
*toumeyii* Small = *Oenothera toumeyii* (Small) Tidestrom  
*tubicula* (Gray) Small = *Oenothera tubicula* Gray
- Gaura australis* Grisebach = *Oenothera curtiflora* W.L. Wagner & Hoch  
*brassicacea* Wootton & Standley = *Oenothera podocarpa* (Wootton & Standley) W.L. Wagner & Hoch
- cinerea* Wootton & Standley = *Oenothera cinerea* (Wootton & Standley) W.L. Wagner & Hoch  
*coccinea* Nuttall ex Pursh = *Oenothera suffrutescens* (Seringe) W.L. Wagner & Hoch  
*coccinea* Nuttall ex Pursh var. *arizonica* Munz = *Oenothera suffrutescens* (Seringe) W.L. Wagner & Hoch
- coccinea* Nuttall ex Pursh var. *epilobioides* (Kunth) Munz = *Oenothera suffrutescens* (Seringe) W.L. Wagner & Hoch
- coccinea* Nuttall ex Pursh var. *glabra* (Lehmann) Torrey & Gray = *Oenothera suffrutescens* (Seringe) W.L. Wagner & Hoch
- coccinea* Nuttall ex Pursh var. *parvifolia* (Torrey) Torrey & Gray = *Oenothera suffrutescens* (Seringe) W.L. Wagner & Hoch
- epilobioides* Kunth = *Oenothera suffrutescens* (Seringe) W.L. Wagner & Hoch  
*glandulosa* Wootton & Standley = *Oenothera podocarpa* (Wootton & Standley) W.L. Wagner & Hoch
- gracilis* Wootton & Standley = *Oenothera podocarpa* (Wootton & Standley) W.L. Wagner & Hoch
- gracilis* Wootton & Standley forma *glandulosa* Munz = *Oenothera podocarpa* (Wootton & Standley) W.L. Wagner & Hoch
- gracilis* Wootton & Standley var. *typica* Munz = *Oenothera podocarpa* (Wootton & Standley) W.L. Wagner & Hoch
- hexandra* Ortega subsp. *gracilis* (Wootton & Standley) Raven & Gregory = *Oenothera podocarpa* (Wootton & Standley) W.L. Wagner & Hoch
- induta* Wootton & Standley = *Oenothera suffrutescens* (Seringe) W.L. Wagner & Hoch  
*linearis* Wootton & Standley = *Oenothera suffrutescens* (Seringe) W.L. Wagner & Hoch

- linifolia* Nuttall ex James = *Oenothera glaucifolia* W.L. Wagner & Hoch  
*mollis* James = *Oenothera curtiflora* W.L. Wagner & Hoch  
*nealleyi* Coulter = *Oenothera nealleyi* (Coulter) Krakos & Wagner  
*neomexicana* Wootton = *Oenothera dodgeniana* Krakos & Wagner  
*parviflora* Douglas ex Hooker = *Oenothera curtiflora* W.L. Wagner & Hoch  
*parviflora* Douglas ex Hooker var. *lachnocarpa* Weatherby = *Oenothera curtiflora* W.L. Wagner & Hoch  
*parviflora* Douglas ex Hooker var. *parviflora* = *Oenothera curtiflora* W.L. Wagner & Hoch  
*parviflora* Douglas ex Hooker var. *typica* Munz = *Oenothera curtiflora* W.L. Wagner & Hoch  
*parviflora* Douglas ex Hooker var. *typica* Munz forma *glabra* Munz = *Oenothera curtiflora* W.L. Wagner & Hoch  
*parvifolia* Torrey = *Oenothera suffrutescens* (Seringe) W.L. Wagner & Hoch  
*podocarpa* Wootton & Standley = *Oenothera podocarpa* (Wootton & Standley) W.L. Wagner & Hoch  
*strigillosa* Wootton & Standley = *Oenothera podocarpa* (Wootton & Standley) W.L. Wagner & Hoch  
*suffrutescens* Seringe = *Oenothera suffrutescens* (Seringe) W.L. Wagner & Hoch  
*suffulta* Engelmann ex Gray subsp. *nealleyi* (Coulter) Raven & Gregory = *Oenothera nealleyi* (Coulter) Krakos & Wagner  
*villosa* Torrey subsp. *villosa* = *Oenothera cinerea* (Wootton & Standley) W.L. Wagner  
*villosa* Torrey var. *arenicola* Munz = *Oenothera cinerea* (Wootton & Standley) W.L. Wagner
- Gaurella canescens* (Torrey & Frémont) A. Nelson = *Oenothera canescens* Torrey & Frémont  
*guttulata* Small = *Oenothera canescens* Torrey & Frémont
- Gayophytum** ground-smoke  
 Heil, K.D., S.L. O'Kane, L.M. Reeves, & A. Clifford. 2013. Flora of the Four Corners Region. Monographs in Systematic Botany from the Missouri Botanical Garden, Vol. 124. Missouri Bot. Gard. Press, St. Louis. 1098 pp. [*Gayophytum decipiens*]  
 Lewis, H. & J. Szweykowski. 1964. The genus *Gayophytum* (Onagraceae). Brittonia 16:343-391.
- decipiens** Lewis & Szweykowski [Heil et al. 2013]  
**diffusum** Torrey & Gray var. **strictipes** (Hooker) Dorn [M&H; W&S]  
*Gayophytum diffusum* Torrey & Gray subsp. *parviflorum* Lewis & Szweykowski  
*Gayophytum intermedium* Rydberg  
*Gayophytum nuttallii* Torrey & Gray var. *intermedium* (Rydberg) Munz  
*Gayophytum ramosissimum* Torrey & Gray var. *strictipes* Hooker  
*diffusum* Torrey & Gray subsp. *parviflorum* Lewis & Szweykowski = *Gayophytum diffusum* Torrey & Gray var. *strictipes* (Hooker) Dorn  
*intermedium* Rydberg = *Gayophytum diffusum* Torrey & Gray var. *strictipes* (Hooker) Dorn  
*nuttallii* Torrey & Gray var. *intermedium* (Rydberg) Munz = *Gayophytum diffusum* Torrey & Gray var. *strictipes* (Hooker) Dorn
- ramosissimum** Torrey & Gray [M&H; W&S]  
*Gayophytum ramosissimum* Torrey & Gray var. *deflexum* Hooker  
*ramosissimum* Torrey & Gray var. *deflexum* Hooker = *Gayophytum ramosissimum* Torrey & Gray  
*ramosissimum* Torrey & Gray var. *strictipes* Hooker = *Gayophytum diffusum* Torrey & Gray var. *strictipes* (Hooker) Dorn
- Hartmannia rosea* of NM reports = *Oenothera speciosa* Nuttall  
*speciosa* (Nuttall) Small = *Oenothera speciosa* Nuttall
- Isnardia palustris* Linnaeus = *Ludwigia palustris* (Linnaeus) Elliot  
*Jussiaea peploides* Kunth = *Ludwigia peploides* (Kunth) Raven subsp. *peploides*  
*repens* Linnaeus var. *glabrescens* Kuntze = *Ludwigia peploides* (Kunth) Raven subsp. *peploides*  
*repens* Linnaeus var. *peploides* (Kunth) Grisebach = *Ludwigia peploides* (Kunth) Raven subsp. *peploides*
- Lavauxia brachycarpa* (Gray) Britton = *Oenothera brachycarpa* Gray  
*flava* A. Nelson = *Oenothera flava* (A. Nelson) Garrett  
*hamata* Wootton & Standley = *Oenothera triloba* Nuttall  
*primiveris* (Gray) Small = *Oenothera primiveris* Gray subsp. *primiveris*

*taraxacoides* Wootton & Standley = *Oenothera flava* (A. Nelson) Garrett  
*triloba* (Nuttall) Spach = *Oenothera triloba* Nuttall  
*wrightii* Small = *Oenothera brachycarpa* Gray

**Ludwigia**

water-primrose

- Peng, C.-I. 1988. The biosystematics of *Ludwigia* sect. *Microcarpum* (Onagraceae). Ann. Missouri Bot. Gard. 75:970-1009.  
 Peng, C.-I. 1989. The systematics and evolution of *Ludwigia* sect. *Microcarpum* (Onagraceae). Ann. Missouri Bot. Gard. 76:221-302.  
 Peng, C.-I., C.L. Schmidt, P.C. Hoch, & P.H. Raven. 2005. Systematics and evolution of *Ludwigia* section *Dantia* (Onagraceae). Ann. Missouri Bot. Gard. 92(3):307-359.  
 Ramamoorthy, T.P. & E.M. Zardini. 1987. The systematics and evolution of *Ludwigia* sect. *Myrtocarpus* sensu lato (Onagraceae). Monogr. Syst. Bot. Missouri Bot. Gard. 19:1-120.  
 Raven, P.H. 1963. The old world species of *Ludwigia* (including *Jussiaea*), with a synopsis of the genus (Onagraceae). Reinwardtia 6: 327-427.  
*natans* Elliott = *Ludwigia repens* J.R. Forster  
***palustris*** (Linnaeus) Elliott [M&H]  
*Isnardia palustris* Linnaeus  
 \****peploides*** (Kunth) Raven subsp. ***peploides*** [M&H]  
*Jussiaea peploides* Kunth  
*Jussiaea repens* Linnaeus var. *glabrescens* Kuntze  
*Jussiaea repens* Linnaeus var. *peploides* (Kunth) Grisebach  
***repens*** J.R. Forster [M&H; Peng et al. 2005]  
*Ludwigia natans* Elliott  
*Ludwigia repens* J.R. Forster var. *rotundata* (Grisebach) Gomes  
*repens* J.R. Forster var. *rotundata* (Grisebach) Gomes = *Ludwigia repens* J.R. Forster

*Meriolix serrulata* (Nuttall) Walpers = *Calyophus serrulatus* (Nuttall) Raven

**Oenothera**

evening-primrose

- Allred, K.W. 1999. New plant distribution records. The New Mexico Botanist 13:7. [*Oenothera pallida trichocalyx*]  
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***albicaulis*** Pursh [M&H; W&S]

*Anogra albicaulis* (Pursh) Britton

- Anogra ctenophylla* Wooton & Standley  
*Oenothera ctenophylla* (Wooton & Standley) Tidestrom  
*albicaulis* Pursh var. *gypsophila* Eastwood = *Oenothera pallida* Lindley var. *runcinata* (Engelmann) Cronquist  
*albicaulis* Pursh var. *pallida* (Lindley) H. Léveillé = *Oenothera pallida* Lindley var. *pallida*  
*amplexicaulis* Wooton & Standley = *Oenothera pubescens* Willdenow ex Sprengel  
*australis* (Wooton & Standley) Tidestrom = *Oenothera brachycarpa* Gray  
*berlandieri* (Spach) D. Dietrich subsp. *berlandieri* = *Oenothera capillifolia* Scheele subsp. *berlandieri* (Spach) Wagner & Hoch  
*berlandieri* (Spach) D. Dietrich subsp. *pinifolia* (Engelmann ex Gray) W.L. Wagner & Hoch = *Oenothera capillifolia* Scheele subsp. *capillifolia*
- \**biennis* Linnaeus [M&H]  
*Oenothera biennis* Linnaeus subsp. *centralis* Munz  
*biennis* Linnaeus subsp. *centralis* Munz = *Oenothera biennis* Linnaeus  
*biennis* Linnaeus var. *hirsutissima* Gray ex S. Watson = *Oenothera elata* Kunth subsp. *hirsutissima* (Gray ex S. Watson) Dietrich
- brachycarpa*** Gray [M&H; W&S]  
*Lavauxia brachycarpa* (Gray) Britton  
*Lavauxia wrightii* (Gray) Small  
*Oenothera australis* (Wooton & Standley) Tidestrom  
*Oenothera brachycarpa* Gray var. *wrightii* (Gray) Leveille  
*Oenothera cespitosa* Nuttall ex Fraser subsp. *australis* (Wooton & Standley) Munz  
*Oenothera cespitosa* Nuttall ex Fraser var. *australis* (Wooton & Standley) Munz  
*Oenothera wrightii* Gray  
*Pachylophus australis* Wooton & Standley
- capillifolia*** Scheele subsp. ***berlandieri*** (Spach) Wagner & Hoch [Towner 1977]  
*Calylophus berlandieri* Spach [1841] (not *Oe. berlandieri* D. Dietrich [1840])  
*Calylophus drummondianus* Spach subsp. *berlandieri* (Spach) Towner & P. H. Raven  
*Oenothera berlandieri* (Spach) D. Dietrich
- capillifolia*** Scheele subsp. ***capillifolia*** [Spellenberg et al. 1986]  
*Calylophus berlandieri* Spach subsp. *pinifolius* (Engelmann ex Gray) Towner  
*Oenothera serrulata* Nuttall var. *pinifolia* Engelmann ex A.Gray
- capillifolia*** Scheele subsp. ***gayleana*** (B.L. Turner & M.J. Moore) Allred [Turner & Moore 2014]  
*Oenothera gayleana* B.L. Turner & M.J. Moore  
*cespitosa* Nuttall ex Fraser subsp. *australis* (Wooton & Standley) Munz = *Oenothera brachycarpa* Gray  
*cespitosa* Nuttall ex Fraser subsp. *eximia* (Gray) Munz = *Oenothera cespitosa* Nuttall subsp. *marginata* (Nuttall) Munz  
*cespitosa* Nuttall ex Fraser subsp. *cespitosa* : Reported by Heil et al. (2002), but not by Wagner & Hoch (2013) in their subsequent treatment of the Four Corners flora; awaits verification.  
*Oenothera cespitosa* Nuttall ex Fraser var. *montana* (Nuttall) Durand  
*Pachylophus cespitosa* (Nuttall) Raimann  
*Pachylophus montanus* (Nuttall) Rydberg
- cespitosa*** Nuttall ex Fraser subsp. ***macroglottis*** (Rydberg) W.L. Wagner, Stockhouse, & Klein [Wagner et al. 1985; W&S]  
*Pachylophus hirsutus* Rydberg  
*Pachylophus macroglottis* Rydberg
- cespitosa*** Nuttall ex Fraser subsp. ***marginata*** (Nuttall ex Hooker & Arnott) Munz [M&H; W&S]  
*Oenothera cespitosa* Nuttall ex Fraser subsp. *eximia* (Gray) Munz  
*Oenothera cespitosa* Nuttall ex Fraser var. *eximia* (Gray) Munz  
*Oenothera cespitosa* Nuttall ex Fraser var. *marginata* (Nuttall ex Hooker & Arnott) Durand  
*Oenothera eximia* Gray  
*Oenothera marginata* Nuttall ex Hooker & Arnott  
*Pachylophus eximius* (Gray) Wooton & Standley

- Pachylophus marginatus* (Nuttall ex Hooker & Arnott) Rydberg  
*cespitosa* Nuttall ex Fraser var. *eximia* (Gray) Munz = *Oenothera cespitosa* Nuttall ex  
 Fraser subsp. *marginata* (Nuttall ex Hooker & Arnott) Munz  
*cespitosa* Nuttall ex Fraser var. *marginata* (Nuttall ex Hooker & Arnott) Durand =  
*Oenothera cespitosa* Nuttall ex Fraser subsp. *marginata* (Nuttall ex Hooker  
 & Arnott) Munz  
*cespitosa* Nuttall ex Fraser subsp. *montana* (Nuttall) Munz = *Oenothera cespitosa* Nuttall  
 ex Fraser subsp. *cespitosa*  
***cespitosa*** Nuttall ex Fraser subsp. ***navajoensis*** W.L. Wagner, Stockhouse, &  
 Klein [Wagner et al. 1985; W&S]  
*Pachylophus caulescens* Rydberg  
*cespitosa* Nuttall var. *primiveris* (A. Gray) H. Léveillé = *Oenothera primiveris* A. Gray  
***canescens*** Torrey & Frémont [M&H; W&S]  
*Gaurella canescens* (Torrey & Frémont) A. Nelson  
*Gaurella guttulata* Small  
*chamaenerioides* Gray = *Camissonia chamaenerioides* (Gray) Raven  
***cinerea*** (Wooton & Standley) W.L. Wagner [M&H; W&S]  
 bee-blossom  
*Gaura cinerea* Wooton & Standley  
*Gaura villosa* Torrey [not *Oenothera villosa* Thunberg]  
*Gaura villosa* Torrey var. *arenicola* Munz  
*claviformis* Torrey & Frémont var. *peeblesii* Munz = *Chylismia claviformis* subsp. *peeblesii*  
 (Munz) W.L. Wagner & Hoch  
*clutei* A. Nelson = *Oenothera longissima* Rydberg  
*coloradensis* (Rydberg) subsp. *neomexicana* (Wooton) W.L. Wagner & Hoch = *Oenothera*  
*dodgeniana* Krakos & Wagner  
***coronopifolia*** Torrey & Gray [M&H; W&S]  
 hairy-throat evening-primrose  
*Anogra coronopifolia* (Torrey & Gray) Britton  
*ctenophylla* (Wooton & Standley) Tidestrom = *Oenothera albicaulis* Pursh  
***curtiflora*** W.L. Wagner & Hoch [M&H; W&S]  
 velvet-weed  
*Gaura australis* Grisebach  
*Gaura mollis* James [not *Oenothera mollis* Renner]  
*Gaura parviflora* Douglas ex Lehmann [not *Oenothera parviflora* Linnaeus]  
*Gaura parviflora* Douglas ex Lehmann var. *lachnocarpa* Weatherby  
*Gaura parviflora* Douglas ex Lehmann var. *typica* Munz  
*Gaura parviflora* Douglas ex Lehmann var. *typica* Munz forma *glabra* Munz  
*deserti* M.E. Jones = *Camissonia refracta* (S. Watson) Raven  
***dodgeniana*** Krakos & Wagner [M&H; W&S]  
 bee-blossom  
*Gaura neomexicana* Wooton [not *Oenothera neomexicana* (Small) Munz]  
*Oenothera coloradensis* (Rydberg) subsp. *neomexicana* (Wooton) W.L. Wagner  
 & Hoch  
***elata*** Kunth subsp. ***hirsutissima*** (Gray ex S. Watson) Dietrich [Dietrich et al. 1997;  
 M&H; W&S]  
*Anogra guttata* ined.  
*Oenothera biennis* Linnaeus var. *hirsutissima* Gray ex S. Watson  
*Oenothera hirsutissima* (Gray ex S. Watson) Rydberg  
*Oenothera hookeri* Torrey & Gray subsp. *angustifolia* (Gates) Munz  
*Oenothera hookeri* Torrey & Gray var. *angustifolia* Gates  
*Oenothera hookeri* Torrey & Gray subsp. *hewittii* Cockerell  
*Oenothera hookeri* Torrey & Gray subsp. *hirsutissima* (Gray ex S. Watson)  
 Munz  
*Oenothera irrigua* Wooton & Standley  
*eximia* Gray = *Oenothera cespitosa* Nuttall ex Fraser subsp. *marginata* (Nuttall ex Hooker &  
 Arnott) Munz  
***engelmannii*** (Small) Munz [M&H; W&S]  
*Anogra engelmannii* (Small) Wooton & Standley

- Anogra pallida* (Lindley) Britton var. *engelmannii* Small  
*fendleri* Gray = *Oenothera hartwegii* Bentham var. *fendleri* (A. Gray) A. Gray  
*filifolia* (Eastwood) Tidestrom = *Oenothera hartwegii* Bentham var. *filifolia* (Eastwood) Munz
- flava** (A. Nelson) Garrett [M&H; Wagner 1986; W&S]  
*Lavauxia flava* A. Nelson  
*Lavauxia taraxacoides* Wooton & Standley  
*Oenothera flava* (A. Nelson) Garrett subsp. *taraxacoides* (Wooton & Standley) W.L. Wagner  
*Oenothera taraxacoides* (Wooton & Standley) Munz  
*flava* (A. Nelson) Garrett subsp. *taraxacoides* (Wooton & Standley) W.L. Wagner =  
*Oenothera flava* (A. Nelson) Garrett  
*gayleana* B.L. Turner & M.J. Moore = *Oenothera capillifolia* Scheele subsp. *gayleana* (B.L. Turner & M.J. Moore) Allred
- glaucifolia** W.L. Wagner & Hoch [M&H; Sublette 1980]  
false-gaura  
*Gaura linifolia* Nuttall ex James [not *Oenothera linifolia* Nuttall]  
*Stenosiphon linifolius* (Nuttall ex James) Heynhold
- grandis** Smyth [M&H]  
*Oenothera laciniata* Hill var. *grandiflora* (S. Watson) Robinson  
*Oenothera sinuata* Linnaeus var. *grandiflora* S. Watson  
*Oenothera sinuata* Linnaeus var. *grandis* Britton, nom. illeg.  
*greggii* Gray = *Oenothera hartwegii* Bentham var. *pubescens* (A. Gray) Allred  
*greggii* Gray var. *lampasana* (Buckley) Munz = *Oenothera hartwegii* Bentham var. *pubescens* (A. Gray) Allred  
*greggii* var. *pubescens* Gray = *Oenothera hartwegii* Bentham subsp. *pubescens* (Gray) W.L. Wagner & Hoch
- hamata* (Wooton & Standley) Tidestrom = *Oenothera triloba* Nuttall  
*hartwegii* Bentham subsp. *fendleri* (Gray) W.L. Wagner & Hoch = *Oenothera hartwegii* Bentham var. *fendleri* (A. Gray) A. Gray
- hartwegii** Bentham var. **fendleri** (A. Gray) A. Gray [M&H; W&S]  
*Calylophus hartwegii* (Bentham) Raven subsp. *fendleri* (Gray) Towner & Raven  
*Galpinsia fendleri* (Gray) Heller  
*Oenothera fendleri* Gray  
*Oenothera hartwegii* Bentham subsp. *fendleri* (Gray) W.L. Wagner & Hoch
- hartwegii** Bentham var. **filifolia** (Eastwood) Munz [M&H; W&S]  
*Calylophus hartwegii* (Bentham) Raven subsp. *filifolius* (Eastwood) Towner & Raven  
*Galpinsia filifolia* (Eastwood) Wooton  
*Oenothera filifolia* (Eastwood) Tidestrom  
*Oenothera hartwegii* Bentham subsp. *filifolia* (Eastwood) W.L. Wagner & Hoch  
*Oenothera tubicula* Gray var. *filifolia* Eastwood  
*hartwegii* Bentham var. *filifolia* (Eastwood) Munz = *Oenothera hartwegii* Bentham subsp. *filifolia* (Eastwood) W.L. Wagner & Hoch  
*hartwegii* Bentham subsp. *hartwegii* : Reported by M&H and W&S, but the typical subspecies is not known in NM [Towner 1977].  
*Calylophus hartwegii* (Bentham) Raven  
*Galpinsia hartwegii* (Bentham) Britton
- hartwegii* Bentham var. *lavandulifolia* (Torrey & A. Gray) S. Watson = *Oenothera lavandulifolia* Torrey & A. Gray
- hartwegii* Bentham subsp. *pubescens* (Gray) Towner & Raven = *Oenothera hartwegii* Bentham var. *pubescens* (A. Gray) Allred
- hartwegii** Bentham var. **pubescens** (A. Gray) Allred [M&H; W&S]  
*Calylophus hartwegii* (Bentham) Raven subsp. *pubescens* (Gray) Towner & Raven  
*Galpinsia camporum* Wooton & Standley  
*Galpinsia lampasana* (Buckley) Wooton & Standley  
*Oenothera greggii* Gray  
*Oenothera greggii* Gray var. *lampasana* (Buckley) Munz  
*Oenothera greggii* Gray var. *pubescens* Gray

- Oenothera hartwegii* Bentham subsp. *pubescens* (Gray) W.L. Wagner & Hoch  
*Oenothera lampasana* Buckley  
*hartwegii* Bentham var. *toumeyii* (Small) Munz = *Oenothera toumeyii* (Small) Tidestrom  
*hexandra* (Ortega) W.L. Wagner & Hoch subsp. *gracilis* (Wooton & Standley) W.L.  
 Wagner & Hoch = *Oenothera podocarpa* (Wooton & Standley) W.L.  
 Wagner & Hoch  
*hirsutissima* (Gray ex S. Watson) Rydberg = *Oenothera elata* Kunth subsp. *hirsutissima*  
 (Gray ex S. Watson) Dietrich  
*hookeri* Torrey & Gray subsp. *angustifolia* (Gates) Munz = *Oenothera elata* Kunth subsp.  
*hirsutissima* (Gray ex S. Watson) Dietrich  
*hookeri* Torrey & Gray var. *angustifolia* Gates = *Oenothera elata* Kunth subsp. *hirsutissima*  
 (Gray ex S. Watson) Dietrich  
*hookeri* Torrey & Gray subsp. *hewittii* Cockerell = *Oenothera elata* Kunth subsp.  
*hirsutissima* (Gray ex S. Watson) Dietrich  
*hookeri* Torrey & Gray subsp. *hirsutissima* (Gray ex S. Watson) Munz = *Oenothera elata*  
 Kunth subsp. *hirsutissima* (Gray ex S. Watson) Dietrich  
*irrigua* Wooton & Standley = *Oenothera elata* Kunth subsp. *hirsutissima* (A. Gray ex S.  
 Watson) W. Dietrich  
*jamesii* Torrey & Gray : Reported as expected by M&H; awaits verification.  
*kunthiana* (Spach) Munz : Reported as expected by M&H; awaits verification.  
*Hartmannia kunthiana* Spach  
***laciniata*** Hill [M&H; W&S]  
*Oenothera mexicana* of NM reports  
*Oenothera minima* Pursh  
*Oenothera sinuata* Linnaeus  
*Raimannia laciniata* (Hill) Rose  
*Raimannia mexicana* of NM reports  
*laciniata* Hill var. *grandiflora* (S. Watson) Robinson = *Oenothera grandis* Smyth  
*laciniata* Hill subsp. *pubescens* (Willdenow ex Sprengel) Munz = *Oenothera pubescens*  
 Willdenow ex Sprengel  
*laciniata* Hill subsp. *pubescens* (Willdenow ex Sprengel) Munz = *Oenothera pubescens*  
 Willdenow ex Sprengel  
*lampasana* Buckley = *Oenothera hartwegii* Bentham var. *pubescens* (A. Gray) Allred  
*latifolia* (Rydb.) Munz = *Oenothera pallida* Lindley var. *latifolia* (Rydberg) Small  
***lavandulifolia*** Torrey & A. Gray [M&H; Towner 1977; W&S]  
*Calylophus hartwegii* (Bentham) Raven subsp. *lavandulifolius* (Torrey & Gray)  
 Towner & Raven  
*Calylophus lavandulifolius* (Torrey & Gray) Raven  
*Galpinsia lavandulifolia* (Torrey & Gray) Small  
*Oenothera hartwegii* Bentham var. *lavandulifolia* (Torrey & A. Gray) S. Watson  
*Oenothera lavandulifolia* Torrey & Gray var. *glandulosa* Munz  
*lavandulifolia* Torrey & Gray var. *glandulosa* Munz = *Oenothera lavandulifolia* Torrey &  
 Gray  
***longissima*** Rydberg [M&H]  
*Oenothera clutei* A. Nelson  
*macrosiphon* Wooton & Standley = *Oenothera organensis* Munz  
*marginata* Nuttall ex Hooer & Arnott = *Oenothera cespitosa* Nuttall ex Fraser subsp.  
*marginata* (Nuttall ex Hooker & Arnott) Munz  
*mexicana* of NM reports = *Oenothera laciniata* Hill  
*minima* Pursh = *Oenothera laciniata* Hill  
*multijuga* S. Watson var. *orientalis* Munz = *Chylismia walkeri* A. Nelson  
***nealleyi*** (Coulter) Krakos & Wagner [M&H]  
 bee-blossom  
*Gaura nealleyi* Coulter  
*Gaura suffulta* Engelmann ex Gray subsp. *nealleyi* (Coulter) Raven & Gregory  
*Oenothera suffulta* (Engelmann ex Gray) Wagner & Hoch subsp. *nealleyi*  
 (Coulter) Wagner & Hoch  
***neomexicana*** (Small) Munz [M&H; W&S]  
*Anogra neomexicana* Small [not *Gaura neomexicana* Wooton]  
**+*organensis*** Munz [M&H; W&S]

- Oenothera macrosiphon* Wooton & Standley [not *Oenothera macrosiphon* Lehmann]
- pallida** Lindley var. **latifolia** (Rydberg) Small [M&H; W&S]  
*Anogra latifolia* Rydberg  
*Oenothera latifolia* (Rydberg) Munz  
*Oenothera pallida* Lindley subsp. *latifolia* (Rydberg) Munz  
*pallida* Lindley subsp. *latifolia* (Rydberg) Munz = *Oenothera pallida* Lindley var. *latifolia* (Rydberg) Small
- pallida** Lindley var. **pallida** [M&H; W&S]  
*Anogra pallida* (Lindley) Britton  
*Oenothera albicaulis* Pursh var. *pallida* (Lindley) H. Léveillé
- pallida** Lindley var. **runcinata** (Engelmann) Cronquist [M&H; W&S]  
*Anogra albicaulis* Britton var. *runcinata* Engelmann  
*Anogra gypsophila* (Eastwood) Heller  
*Anogra leucotricha* Wooton & Standley  
*Anogra pallida* (Lindley) Britton subsp. *runcinata* (Engelmann) Munz & Klein  
*Anogra pallida* (Lindley) Britton var. *runcinata* (Engelmann) Small  
*Anogra runcinata* (Engelmann) Wooton & Standley  
*Oenothera albicaulis* Pursh var. *gypsophila* Eastwood  
*Oenothera pallida* Lindley subsp. *runcinata* (Engelmann) Munz & Klein  
*Oenothera runcinata* (Engelmann) Munz  
*Oenothera runcinata* (Engelmann) Munz var. *brevifolia* (Engelmann) Munz  
*Oenothera runcinata* (Engelmann) Munz var. *gypsophila* (Eastwood) Munz  
*Oenothera runcinata* (Engelmann) Munz var. *leucotricha* (Wooton & Standley) Standley
- pallida* Lindley subsp. *trichocalyx* (Nuttall) Munz & Klein = *Oenothera pallida* Lindley var. *trichocalyx* (Nuttall) Dorn
- pallida** Lindley var. **trichocalyx** (Nuttall) Dorn [Allred 1999]  
*Oenothera pallida* Lindley subsp. *trichocalyx* (Nuttall) Munz & Klein  
*Oenothera trichocalyx* Nuttall
- parvula* Nuttall ex Torrey & Gray = *Camissonia parvula* (Nuttall ex Torrey & Gray) Raven
- podocarpa** (Wooton & Standley) W.L. Wagner & Hoch [M&H; W&S]  
 bee-blossom  
*Gaura brassicea* Wooton & Standley  
*Gaura glandulosa* Wooton & Standley  
*Gaura gracilis* Wooton & Standley  
*Gaura gracilis* Wooton & Standley forma *glandulosa* Munz  
*Gaura gracilis* Wooton & Standley var. *typica* Munz  
*Gaura hexandra* Ortega subsp. *gracilis* (Wooton & Standley) Raven & Gregory  
*Gaura strigillosa* Wooton & Standley  
*Oenothera hexandra* (Ortega) Wagner & Hoch subsp. *gracilis* (Wooton & Standley) Wagner & Hoch
- primiveris** Gray subsp. **primiveris** [M&H; W&S]  
*Lavauxia primiveris* (Gray) Small  
*Oenothera cespitosa* Nuttall var. *primiveris* (A. Gray) H. Léveillé
- procera* Wooton & Standley = *Oenothera villosa* Thunberg subsp. *strigosa* (Rydberg) W. Dietrich & P.H. Raven
- pubescens** Willdenow ex Sprengel [Dietrich & Wagner 1988; M&H]  
*Anogra amplexicaulis* (Wooton & Standley) Tidestrom  
*Oenothera amplexicaulis* Wooton & Standley  
*Oenothera laciniata* Hill subsp. *pubescens* (Willdenow ex Sprengel) Munz  
*Oenothera laciniata* Hill var. *pubescens* (Willdenow ex Sprengel) Munz
- refracta* S. Watson = *Camissonia refracta* (S. Watson) Raven
- rhombipetala** Nuttall ex Torrey & Gray [Dietrich & Wagner 1988]  
*rosea* of NM reports = *Oenothera speciosa* Nuttall  
*runcinata* (Engelmann) Munz = *Oenothera pallida* Lindley var. *runcinata* (Engelmann) Cronquist
- runcinata* (Engelmann) Munz var. *brevifolia* (Engelmann) Munz = *Oenothera pallida* Lindley var. *runcinata* (Engelmann) Cronquist



- runcinata* (Engelmann) Munz var. *gypsophila* (Eastwood) Munz = *Oenothera pallida*  
Lindley var. *runcinata* (Engelmann) Cronquist
- runcinata* (Engelmann) Munz var. *leucotricha* (Wooton & Standley) Standley = *Oenothera*  
*pallida* Lindley var. *runcinata* (Engelmann) Cronquist
- scapoidea* Nuttall ex Torrey & Gray = *Chylismia scapoidea* (Torrey & Gray) Small subsp.  
*scapoidea*
- serrulata*** Nuttall [M&H; W&S]  
*Calylophus drummondianus* Spach  
*Calylophus serrulatus* (Nuttall) Raven  
*Meriolix serrulata* (Nuttall) Walpers
- sinuata* Linnaeus = *Oenothera laciniata* Hill
- sinuata* Linnaeus var. *grandiflora* S. Watson = *Oenothera grandis* Smyth
- sinuata* Linnaeus var. *grandis* Britton, nom. illeg. = *Oenothera grandis* Smyth
- \**speciosa*** Nuttall [M&H; W&S]  
*Hartmannia rosea* of NM reports  
*Hartmannia speciosa* (Nuttall) Small  
*Oenothera rosea* of NM reports
- strigosa* (Rydberg) Mackenzie & Bush = *Oenothera villosa* Thunberg subsp. *strigosa*  
(Rydberg) W. Dietrich & P.H. Raven
- suffrutescens*** (Seringe) W.L. Wagner & Hoch [M&H; W&S]  
bee-blossom  
*Gaura coccinea* Nuttall ex Pursh  
*Gaura coccinea* Nuttall ex Pursh var. *arizonica* Munz  
*Gaura coccinea* Nuttall ex Pursh var. *epilobioides* (Kunth) Munz  
*Gaura coccinea* Nuttall ex Pursh var. *glabra* (Lehmann) Torrey & Gray  
*Gaura coccinea* Nuttall ex Pursh var. *parvifolia* (Torrey) Torrey & Gray  
*Gaura epilobioides* Kunth  
*Gaura glabra* Lehmann  
*Gaura induta* Wooton & Standley  
*Gaura linearis* Wooton & Standley  
*Gaura parvifolia* Torrey  
*Gaura suffrutescens* Seringe
- suffulta* (Engelmann) W.L. Wagner & Hoch subsp. *nealleyi* (Coulter) W.L. Wagner &  
Hoch = *Oenothera nealleyi* (Coulter) Krakos & Wagner
- taraxacoides* (Wooton & Standley) Munz = *Oenothera flava* (A. Nelson) Garrett
- toumeyii*** (Small) Tidestrom [M&H; Towner 1977; W&S]  
*Calylophus hartwegii* (Bentham) Raven subsp. *toumeyii* (Small) Towner &  
Raven  
*Calylophus toumeyii* (Small) Towner  
*Galpinsia toumeyii* Small  
*Oenothera hartwegii* Bentham var. *toumeyii* (Small) Munz
- trichocalyx* Nuttall = *Oenothera pallida* Lindley var. *trichocalyx* (Nuttall) Dorn
- triloba*** Nuttall [Great Plains Flora Association 1977; Worthington 2000]  
*Lavauxia hamata* Wooton & Standley  
*Lavauxia triloba* (Nuttall) Spach  
*Oenothera hamata* (Wooton & Standley) Tidestrom
- tubicula*** Gray [M&H; W&S]  
*Calylophus tubicula* (Gray) Raven  
*Galpinsia carlsbadiana* A. Nelson  
*Galpinsia glandulifera* A. Nelson  
*Galpinsia tubicula* (Gray) Small
- tubicula* Gray var. *filifolia* Eastwood = *Oenothera hartwegii* Bentham var. *filifolia*  
(Eastwood) Munz
- villosa*** Thunberg subsp. *strigosa* (Rydberg) W. Dietrich & P.H. Raven [Dietrich et  
al. 1997; M&H; W&S]  
not *Gaura villosa* Torrey  
*Anagra strigosa* Rydberg  
*Oenothera procera* Wooton & Standley  
*Oenothera strigosa* (Rydberg) Mackenzie & Bush
- wrightii* Gray = *Oenothera brachycarpa* Gray

- Onagra guttata* "Greene" : This name was never validly published, though it was attributed to Greene; plants called this are referred to *Oenothera elata* Kunth subsp. *hirsutissima* (Gray ex S. Watson) W. Dietrich (Dietrich et al. 1997).  
*strigosa* Rydberg = *Oenothera villosa* Thunberg subsp. *strigosa* (Rydberg) W. Dietrich & P.H. Raven
- Pachylophus australis* Wooton & Standley = *Oenothera brachycarpa* Gray  
*caulescens* Rydberg = *Oenothera cespitosa* Nuttall subsp. *navajoensis* W.L. Wagner, Stockhouse, & Klein  
*cespitosa* (Nuttall) Raimann = *Oenothera cespitosa* Nuttall subsp. *cespitosa*  
*eximius* (Gray) Wooton & Standley = *Oenothera cespitosa* Nuttall subsp. *marginata* (Nuttall) Munz  
*hirsutus* Rydberg = *Oenothera cespitosa* Nuttall subsp. *macroglottis* (Rydberg) W.L. Wagner, Stockhouse, & Klein  
*macroglottis* Rydberg = *Oenothera cespitosa* Nuttall subsp. *macroglottis* (Rydberg) W.L. Wagner, Stockhouse, & Klein  
*marginatus* (Nuttall ex Hooker & Arnott) Rydberg = *Oenothera cespitosa* Nuttall subsp. *marginata* (Nuttall ex Hooker & Arnott) Munz  
*Pachylophus montanus* (Nuttall) Rydberg = *Oenothera cespitosa* Nuttall subsp. subsp. *cespitosa*
- Raimannia laciniata* (Hill) Rose = *Oenothera laciniata* Hill  
*mexicana* of NM reports = *Oenothera laciniata* Hill
- Sphaerostigma chamaenerioides* (Gray) Small = *Eremothera chamaenerioides* (A. Gray) W.L. Wagner & Hoch  
*deserti* (M.E. Jones) Heller = *Eremothera refracta* (S. Watson) W.L. Wagner & Hoch  
*refractum* (S. Watson) Small = *Eremothera refracta* (S. Watson) W.L. Wagner & Hoch
- Stenosiphon linifolius* (Nuttall ex James) Heynhold = *Oenothera glaucifolia* W.L. Wagner & Hoch
- Zauschneria arizonica* A. Davidson = *Epilobium canum* (Greene) Raven var. *latifolium* (Hooker) N.H. Holmgren & P.K. Holmgren  
*californica* Presl subsp. *latifolia* (Hooker) Keck = *Epilobium canum* (Greene) Raven var. *latifolium* (Hooker) N.H. Holmgren & P.K. Holmgren  
*californica* Presl var. *latifolia* Hooker = *Epilobium canum* (Greene) Raven var. *latifolium* (Hooker) N.H. Holmgren & P.K. Holmgren  
*latifolia* Greene var. *arizonica* (A. Davidson) Hilend = *Epilobium canum* (Greene) Raven var. *latifolium* (Hooker) N.H. Holmgren & P.K. Holmgren

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- McNeal, J.R., J.R. Bennett, A.D. Wolfe, & S. Mathews. Phylogeny and origins of holoparasitism in Orobanchaceae. *Amer. J. Bot.* 100(5): 971-983.
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### *Agalinis* false-foxtail

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- Canne, J.M. 1980. Seed surface features in *Auerolaria*, *Brachystigma*, *Tomanthera*, and certain South American *Agalinis* (Scrophulariaceae). *Syst. Bot.* 5:241-252.
- Great Plains Flora Association. 1977. Atlas of the Flora of the Great Plains. Iowa State Univ. Press. 600 pp. [*Agalinis tenuifolia*]
- Pennell, F.W. 1929. *Agalinis* and allies in North America—II. Proceedings of the Academy of Natural Sciences of Philadelphia 81: 111-249.
- Peterson, R.S. 2000. New plant distribution records. *The New Mexico Botanist* 15:7. [*Agalinis calycina*]
- Sivinski, R.C. 2011. *Agalinis calycina* (Leoncita false-foxtail): A Conservation Status Assessment. 2011 ESA Section 6 Progress Report, prepared for NM Energy, Minerals and Natural Resources Department and USDI-Fish & Wildlife Service, Region 2.

### *calycina* Pennell [Peterson 2000]

*Gerardia calycina* (Pennell) Pennell

*tenuifolia* (Vahl) Rafinesque var. *parviflora* (Nuttall) Pennell : Reported by Great Plains Flora Association (1977) and M&H, but no specimens have been located, and the basis for these reports is unknown; awaits verification.

*Gerardia tenuifolia* Vahl var. *parviflora* Nuttall

**Aphyllon** broom-rape

- Achey, D.M. 1933. A revision of the section *Gymnocaulis* of the genus *Orobanche*. Bull. Torrey Bot. Club 60:441-451.
- Collins, L.T. 1973. Systematics of *Orobanche* section *Myzorrhiza* (Orobanchaceae), with emphasis on *Orobanche ludoviciana*. Ph.D. dissertation, Univ. Wisconsin-Milwaukee.
- Collins, L.T., A.E.L. Colwell, & G. Yatskievych. 2009. *Orobanche riparia* (Orobanchaceae), a new species from the American Midwest. J. Bot. Res. Inst. Texas 3(1): 3-11.
- Collins, L.T. & G. Yatskievych. 2015. *Orobanche arizonica* sp. nov. and nomenclatural changes in *Orobanche cooperi* (Orobanchaceae). Phytoneuron 2015-48: 1-19.
- Heil, K.D., S.L. O'Kane, & A. Clifford. 2002. Additions to the flora of New Mexico from the San Juan Basin Flora project. The New Mexico Botanist 24:1-4. [*Orobanche corymbosa*]
- Munz, P.A. 1931. The North American species of *Orobanche*, section *Myzorrhiza*. Bull. Torrey Bot. Club 57:611-624.
- Schneider, A.C. 2016. Resurrection of the genus *Aphyllon* for New World broomrapes (*Orobanche* s.l., Orobanchaceae). PhytoKeys 75: 107-118. doi: 10.3897/phytokeys.75.10473
- Schneider, A.C., A.E.L. Colwell, G.M. Schneeweiss, & B.G. Baldwin. 2016. Cryptic host-specific diversity among western hemisphere broomrapes (*Orobanche* s.l., Orobanchaceae). Ann. Bot. 118: 1101-1111.
- White, H.L. & W.C. Holmes. 2001. Validation of the name *Orobanche ludoviciana* subsp. *multiflora* (Orobanchaceae). Sida 19(3):623-624.

**arizonicum** (L.T. Collins) A.C. Schneider [Collins & Yatskievych 2015]

*Orobanche arizonica* L.T. Collins

**cooperi** A. Gray subsp. **palmeri** (Munz) A.C. Schneider [Collins & Yatskievych 2015, M&H]

*Orobanche cooperi* of NM reports

*Orobanche cooperi* (A. Gray) A. Heller subsp. *palmeri* (Munz) L.T. Collins

*Orobanche multicaulis* S. Watson var. *palmeri* Munz

**corymbosum** (Rydberg) A.C. Schneider [Heil et al. 2002]

*Aphyllon corymbosum* (Rydberg) A.C. Schneider subsp. *mutabile* (Heckard) A.C. Schneider

*Myzorrhiza corymbosa* Rydberg

*Orobanche corymbosa* subsp. *mutabilis* Heckard

*corymbosum* (Rydberg) A.C. Schneider subsp. *mutabile* (Heckard) A.C. Schneider = *Aphyllon corymbosum* (Rydberg) A.C. Schneider

**fasciculatum** (Nuttall) Torrey & A. Gray [M&H; W&S]

*Orobanche fasciculata* Nuttall var. *lutea* (Parry) Achey

*Thalesia fasciculata* (Nuttall) Britton

*Thalesia lutea* (Parry) Rydberg

**ludovicianum** (Nuttall) A. Gray [M&H; W&S]

*Aphyllon arenosa* Suksdorf

*Myzorrhiza ludoviciana* (Nuttall) Rydberg

*Orobanche ludoviciana* Nuttall

*Orobanche multiflora* Nuttall var. *arenosa* (Suksdorf) Munz

**multiflorum** (Nuttall) A. Gray [M&H; W&S]

*Myzorrhiza multiflora* (Nuttall) Rydberg

*Orobanche ludoviciana* Nuttall subsp. *multiflora* (Nuttall) L.T. Collins ex H.L. White & W.C. Holmes

*Orobanche ludoviciana* Nuttall var. *multiflora* (Nuttall) Beck

*Orobanche multiflora* Nuttall

**pinorum** (Geyer ex Hooker) A. Gray []

*Myzorrhiza pinorum* (Geyer ex Hooker) Rydberg

*Orobanche pinorum* Geyer ex Hooker

**purpureum** (Heller) Holub [M&H]

*Aphyllon uniflorum* (Linnaeus) A. Gray subsp. *occidentalis* (Greene) Abrams ex Ferris

*Aphyllon uniflorum* (Linnaeus) A. Gray var. *occidentale* Greene

*Orobanche uniflora* Linnaeus var. *occidentalis* (Greene) Taylor & Macbryde

*Orobanche uniflora* Linnaeus var. *purpurea* (Heller) Achey

*Thalesia purpurea* Heller

**riparium** (L.T. Collins) A.C. Schneider []

*Orobanche riparia* L.T. Collins

uniflorum (Linnaeus) Torrey & A. Gray s.s. : not occurring in NM, but restricted to Alaska, Canada, and eastern United States; our material belongs to *Aphyllon purpureum* (Heller) Holub

*Orobanche uniflora* Linnaeus

*uniflorum* of NM reports = *Aphyllon purpureum* (Heller) Holub

*uniflorum* (Linnaeus) A. Gray subsp. *occidentalis* (Greene) Abrams ex Ferris = *Aphyllon purpureum* (Heller) Holub

*Andenostegia wrightii* (Gray) Greene = *Cordylanthus wrightii* Gray

**Brachystigma** desert-foxglove

Canne, J.M. 1980. Seed surface features in *Auerolaria*, *Brachystigma*, *Tomanthera*, and certain South American *Agalinis* (Scrophulariaceae). Syst. Bot. 5:241-252.

Pennell, F.W. 1928. *Agalinis* and allies in North America-I. Proceedings of the Academy of Natural Sciences of Philadelphia 80: 339-449.

**wrightii** (Gray) Pennell [M&H; W&S]

*Dasytoma wrightii* (Gray) Wootton & Standley

*Gerardia wrightii* Gray

*Buchnera canadensis* Linnaeus = *Glandularia canadensis* (Linnaeus) Nuttall (Verbenaceae)

**Castilleja** paintbrush, owl-clover

Cockman, J.S. & R.D. Pieper. 1997. A preliminary checklist of plant species for the southern foothills of the Sacramento Mountains, Otero County, New Mexico. NM Agr. Exp. Sta. Res. Rpt. 721.

[*Castilleja mexicana*, as *Castilleja tortifolia*]

Egger, J.M. 1994. New natural hybrid combinations and comments on interpretation of hybrid populations in *Castilleja* (Scrophulariaceae). Phytologia 77(5): 381-389.

Egger, J.M. 2008. Nomenclatural changes and selected lectotypifications in *Castilleja* (Orobanchaceae). Phytologia 90(1):63-82.

Egger, J.M. 1994. New natural hybrid combinations and comments on interpretation of hybrid populations in *Castilleja* (Scrophulariaceae). Phytologia 77(5): 381-389.

Egger, J.M. 2012. The status of *Castilleja tomentosa* A. Gray (Orobanchaceae) and first records for this species from the United States. Phytoneuron 2012-72: 1-7.

Egger, J.M. 2016. Index to unpublished "herbarium names" for *Castilleja* and synonymous names from related genera (Orobanchaceae). Phytoneuron 2016-4: 1-5.

Heil, K.D., S.L. O'Kane, & A. Clifford. 2002. Additions to the flora of New Mexico from the San Juan Basin Flora project. The New Mexico Botanist 24:1-4. [*Castilleja scabrida*]

Holmgren, N.H. 1984. Scrophulariaceae, pp.344-506. IN: Intermountain Flora, vol. 4. New York Botanical Garden.

McIntosh, L. 1994. First report of *Castilleja ornata* (Scrophulariaceae) from the United States. Phytologia 76:329-332.

Spellenberg, R., L. McIntosh, & L. Brouillet. 1993. New records of angiosperms from southern New Mexico. Phytologia 75:224-230. [*Castilleja exserta*]

Tank, D.C., J.M. Egger, & R.G. Olmstead. 2009. Phylogenetic classification of subtribe Castillejinae (Orobanchaceae). Syst. Bot. 34(1): 182-197.

Turner, B.L., H. Nichols, G. Denny, & O. Doron. 2003. Atlas of the Vascular Plants of Texas, vol. 1. Sida, Botanical Miscellany, No. 24.

*angustifolia* (Nuttall) G. Don var. *angustifolia* : not known from NM.

*angustifolia* (Nuttall) G. Don var. *dubia* A. Nelson : not known from NM.

*austromontana* Standley & Blumer = *Castilleja nelsonii* Eastwood

**chromosa** A. Nelson [M&H; W&S]

*Castilleja eremophila* Wootton & Standley

*confusa* Greene = *Castilleja miniata* Douglas ex Hooker

*crista-galli* Rydberg = *Castilleja miniata* Douglas ex Hooker

*eremophila* Wootton & Standley = *Castilleja chromosa* A. Nelson

*exilis* A. Nelson = *Castilleja minor* (Gray) Gray var. *exilis* (A. Nelson) J.M. Egger

**exserta** (Heller) Chuang, & Heckard subsp. **exserta** [Spellenberg et al. 1993]

*Orthocarpus exsertus* Heller

*Orthocarpus purpurascens* Benth

*galeata* A. Nelson = *Castilleja patriotica* Fernald

*gloriosa* Britton = *Castilleja integra* Gray

**haydenii** (Gray) Cockerell [M&H; W&S]

*Castilleja pallida* Kunth var. *haydenii* Gray

*inconstans* Standley = *Castilleja miniata* Douglas ex Hooker

- integra** A. Gray [M&H; W&S]  
*Castilleja gloriosa* Britton  
*Castilleja integra* A. Gray var. *gloriosa* (Britton) Cockerell  
*integra* A. Gray var. *gloriosa* (Britton) Cockerell = *Castilleja integra* A. Gray  
*lanceifolia* Rydberg = *Castilleja rhexifolia* Rydberg  
**lanata** Gray [M&H; W&S]  
*lauta* A. Nelson = *Castilleja rhexiifolia* Rydberg  
*laxa* Gray = *Castilleja tenuiflora* Benth  
**linariifolia** Benth [M&H; W&S]  
*Castilleja linariifolia* Benth var. *omnipubescens* (Pennell) Clokey  
*Castilleja linearis* Rydberg  
*linariifolia* Benth var. *omnipubescens* (Pennell) Clokey = *Castilleja linariifolia* Benth  
*linearis* Rydberg = *Castilleja linariifolia* Benth  
**lineata** Greene [M&H; W&S]  
*luteovirens* Rydberg = *Castilleja sulphurea* Rydberg  
*mexicana* (Hemsley) Gray : Reported by Cockman (1997), but the voucher cannot be located; the Atlas for the Vascular Plants of Texas (Turner et al. 2003) shows this species in northwest Culberson Co., Texas, next to the NM border, and 71 air miles southeast of the Cockman collection site; awaits verification.  
*Castilleja tortifolia* Pennell  
*Orthocarpus mexicanus* Hemsley  
**miniata** Douglas ex Hooker [M&H; W&S]  
*Castilleja confusa* Greene  
*Castilleja crista-galli* Rydberg  
*Castilleja inconstans* Standley  
*Castilleja ×porterae* Cockerell  
*Castilleja trinervis* Rydberg  
**minor** (Gray) Gray var. **exilis** (A. Nelson) J.M. Egger [M&H; W&S]  
*Castilleja exilis* A. Nelson  
*Castilleja stricta* Rydberg  
**minor** (Gray) Gray var. **minor** [Holmgren 1984]  
**nelsonii** Eastwood [M&H; W&S]  
*Castilleja austromontana* Standley & Blumer  
*obtusiloba* Rydberg = *Castilleja rhexifolia* Rydberg  
**occidentalis** Torrey [M&H; W&S]  
**+organorum** Standley [M&H; W&S]  
**ornata** Eastwood [McIntosh 1994]  
*Castilleja palmeri* Eastwood  
*Castilleja pediaca* Eastwood  
*pallida* Kunth var. *haydenii* Gray = *Castilleja haydenii* (Gray) Cockerell  
*palmeri* Eastwood = *Castilleja ornata* Eastwood  
**patriotica** Fernald [M&H]  
*Castilleja galeata* A. Nelson  
*pediaca* Eastwood = *Castilleja ornata* Eastwood  
*×porterae* Cockerell = *Castilleja miniata* Douglas ex Hooker Note: this is a hybrid between *Castilleja miniata* and *Castilleja sulphurea* (Holmgren 1984).  
**rhexiifolia** Rydberg [M&H; W&S]  
*Castilleja lauta* A. Nelson  
*Castilleja lanceifolia* Rydberg  
*Castilleja obtusiloba* Rydberg  
*rhexiifolia* Rydberg var. *sulphurea* (Rydberg) Atwood = *Castilleja sulphurea* Rydberg  
**scabrida** Eastwood [Heil et al. 2002]  
**septentrionalis** Lindley [M&H; W&S]  
*Castilleja luteovirens* Rydberg  
*Castilleja rhexiifolia* Rydberg var. *sulphurea* (Rydberg) Atwood  
*Castilleja sulphurea* Rydberg  
**sessiliflora** Pursh [M&H; W&S]

*stricta* Rydberg = *Castilleja minor* (Gray) Gray  
*sulphurea* Rydberg = *Castilleja septentrionalis* Lindley  
*tenuiflora* Benth : Reported by M&H, but authentic specimens are unknown; awaits verification.

*Castilleja laxa* Gray  
*tortifolia* Pennell = *Castilleja mexicana* (Hernsley) Gray  
*trinervis* Rydberg = *Castilleja miniata* Douglas ex Hooker  
*tomentosa* Gray [Egger 2012]  
*wootonii* Standley [M&H; W&S]

**Conopholis** Indian-root

Haynes, R.R. 1969. *Conopholis alpina* Liebmann var. *mexicana* (Gray ex Watson) Haynes, comb. nov. Sida 3:347.

Haynes, R. R. 1971. A monograph of the genus *Conopholis* (Orobanchaceae). Sida 4: 246–264.

Rodrigues, A.G., A.E.L. Colwell, & S. Stefanovic. 2011. Molecular systematics of the parasitic genus *Conopholis* (Orobanchaceae) inferred from plastid and nuclear sequences. Amer. J. Bot. 98(5): 896-908.

Rodrigues, A.G., S. Shaya, T.A. Dickinson, & S. Stefanovic. 2013. Morphometric analyses and taxonomic revision of the North American holoparasitic genus *Conopholis* (Orobanchaceae). Syst. Bot. 38(3): 795-804.

**alpina** Liebmann [M&H; W&S]

*Conopholis alpina* Liebmann var. *mexicana* (A. Gray ex S. Watson) Haynes

*Conopholis mexicana* A. Gray ex S. Watson

*Orobanche multiflora* Nuttall var. *xanthochroa* (A. Nelson & Cockerell) Munz

*Orobanche xanthochroa* A. Nelson & Cockerell

*alpina* Liebmann var. *mexicana* (A. Gray ex S. Watson) Haynes = *Conopholis alpina* Liebmann

*mexicana* Gray ex S. Watson = *Conopholis alpina* Liebmann

**Cordylanthus** bird's-beak

Chuang, T.I. & L.R. Heckard. 1986. Systematics and evolution of *Cordylanthus* (Scrophulariaceae – Pediculariaceae). Syst. Bot. Monogr. 10:1-105.

Ferris, R.S. 1918. Taxonomy and distribution of *Adenostegia*. Bull. Torrey Bot. Club 45: 399-423.

Spellenberg, R., R. Worthington, P. Knight, & R. Fletcher. 1986. Additions to the flora of New Mexico. Sida 11(4):455-470. [*Chloropyron maritimum*, as *Cordylanthus laxiflorus*]

Tank, D.C., J.M. Egger, & R.G. Olmstead. 2009. Phylogenetic classification of subtribe Castillejinae (Orobanchaceae). Syst. Bot. 34(1):182-197.

Welsh, S.L., N.D. Atwood, S. Goodrich, & L.C. Higgins (eds.). 2003. A Utah Flora. 3<sup>rd</sup> ed, revised. Provo, Utah: Brigham Young University Press.

**laxiflorus** Gray [Spellenberg et al. 1986]

*tenuifolius* Pennell = *Cordylanthus wrightii* Gray subsp. *tenuifolius* (Pennell) Chuang & Heckard

**wrightii** Gray subsp. **tenuifolius** (Pennell) Chuang & Heckard [Chuang & Heckard 1986]

*Cordylanthus tenuifolius* Pennell

**wrightii** Gray subsp. **wrightii** [M&H; W&S]

*Adenostegia wrightii* (Gray) Greene

*Dasystoma wrightii* (Gray) Wooton & Standley = *Brachystigma wrightii* (Gray) Pennell

*Elephantella groenlandica* (Retzius) Rydberg = *Pedicularis groenlandica* Retzius

*Gerardia calycina* (Pennell) Pennell = *Agalinis calycina* Pennell

*tenuifolia* Vahl var. *parviflora* Nuttall = *Agalinis tenuifolia* (Vahl) Rafinesque var. *parviflora* (Nuttall) Pennell

*wrightii* Gray = *Brachystigma wrightii* (Gray) Pennell

*Myzorrhiza corymbosa* Rydberg = *Aphyllon corymbosum* (Rydberg) A.C. Schneider

*ludoviciana* (Nuttall) Rydberg = *Aphyllon ludovicianum* (Nuttall) A. Gray

*multiflora* (Nuttall) Rydberg = *Aphyllon multiflorum* (Nuttall) A. Gray

*Orobanche arizonica* L.T. Collins = *Aphyllon arizonicum* (L.T. Collins) A.C. Schneider

*cooperi* of NM reports = *Aphyllon cooperi* A. Gray subsp. *palmeri* (Munz) A.C. Schneider  
*cooperi* A. Gray subsp. *cooperi* : not known from NM [Collins & Yatskievych 2015].

*Orobanche multicaulis* Brandege

*corymbosa* (Rydberg) Ferris subsp. *corymbosa* = *Aphyllon corymbosum* (Rydberg) A.C. Schneider subsp. *corymbosum*

*corymbosa* subsp. *mutabilis* Heckard = *Aphyllon corymbosum* (Rydberg) A.C. Schneider

*fasciculata* Nuttall = *Aphyllon fasciculatum* (Nuttall) Torrey & A. Gray

- fasciculata* Nuttall var. *lutea* (Parry) Achey = *Aphyllon fasciculatum* (Nuttall) Torrey & A. Gray  
*ludoviciana* Nuttall var. *arenosa* (Suksdorf) Cronquist = *Aphyllon ludovicianum* (Nuttall) A. Gray  
*ludoviciana* Nuttall var. *cooperi* of NM reports = *Aphyllon cooperi* A. Gray subsp. *palmeri* (Munz) A.C. Schneider  
*ludoviciana* Nuttall var. *latiloba* Munz : not known from NM [Collins & Yatskievych 2015].  
*ludoviciana* Nuttall = *Aphyllon ludovicianum* (Nuttall) A. Gray  
*ludoviciana* Nuttall subsp. *multiflora* (Nuttall) Collins ex H.L. White & W.C. Holmes = *Aphyllon multiflorum* (Nuttall) A. Gray  
*multicaulis* Brandegee = *Aphyllon cooperi* A. Gray subsp. *cooperi*  
*multiflora* Nuttall = *Aphyllon multiflorum* (Nuttall) A. Gray  
*multiflora* Nuttall var. *arenosa* (Suksdorf) Munz = *Aphyllon ludovicianum* (Nuttall) A. Gray  
*multiflora* Nuttall var. *xanthochroa* (A. Nelson & Cockerell) Munz = *Conopholus alpina* Liebmann  
*uniflora* Linnaeus = *Aphyllon purpureum* (Heller) Holub  
*uniflora* Linnaeus var. *occidentalis* (Greene) Taylor & Macbride = *Aphyllon purpureum* (Heller) Holub  
*uniflora* Linnaeus var. *purpurea* (Heller) Achey = *Aphyllon purpureum* (Heller) Holub  
*xanthochroa* A. Nelson & Cockerell = *Conopholus alpina* Liebmann

**Orthocarpus** owl-clover

- Chuang, T.I. & L.R. Heckard. 1991. Generic realignment and synopsis of subtribe Castillejiniae (Scrophulariaceae - Tribe Pedicularae). *Syst. Bot.* 16(4): 644-666.  
 Chuang, T.I. & L.R. Heckard. 1992. A taxonomic revision of *Orthocarpus* (Scrophulariaceae - Tribe Pedicularae). *Syst. Bot.* 17(4):560-582.  
 Tank, D.C., J.M. Egger, & R.G. Olmstead. 2009. Phylogenetic classification of subtribe Castillejiniae (Orobanchaceae). *Syst. Bot.* 34(1): 182-197.

*luteus* Nuttall [M&H; W&S]

*purpureoalbus* Gray ex S. Watson [M&H; W&S]

*mexicanus* Hemsley = *Castilleja mexicana* (Hemsley) Gray

*exserta* Heller = *Castilleja exserta* (Heller) Chuang & Heckard

*purpurascens* Benthham = *Castilleja exserta* (Heller) Chuang & Heckard

**Pedicularis** lousewort

- Allred, K. 2004. Plant distribution reports. *The New Mexico Botanist* 31:1. [*Pedicularis bracteosa*]  
 Carr, G.D. 1971. Taxonomy of *Pedicularis parryi* (Scrophulariaceae). *Brittonia* 23:280-291.  
 Major, J. & S.A. Bamberg. 1963. Some cordilleran plant species new for the Sierra Nevada of California. *Madroño* 17(4):93-107. [*Pedicularis crenulata*, in error]  
 Sprague, E.F. 1962. Pollination and evolution in *Pedicularis* (Scrophulariaceae). *Aliso* 5:181-209.

*angustifolia* Benthham [M&H; W&S]

*Pedicularis angustissima* Greene

*angustissima* Greene = *Pedicularis angustifolia* Benthham

*bracteosa* Benthham var. *paysoniana* (Pennell) Cronquist [Allred 2004]

*Pedicularis paysoniana* Pennell

*canadensis* Linnaeus subsp. *fluviatilis* (Heller) Weber [M&H; W&S]

*Pedicularis canadensis* Linnaeus var. *fluviatilis* (Heller) Macbride

*Pedicularis fluviatilis* Heller

*canadensis* Linnaeus var. *fluviatilis* (Heller) Macbride = *Pedicularis canadensis* Linnaeus subsp. *fluviatilis* (Heller) Macbride

*centranthera* Gray [M&H; W&S]

*crenulata* Benthham : Reported by Major & Bamberg (1963) from near Elk Mountain in San Miguel County, but the specimen in question (*F.H. Snow* 6389, in 1884, LSU!) belongs to *Pedicularis racemosa* Douglas ex Benthham.

*fluviatilis* Heller = *Pedicularis canadensis* Linnaeus subsp. *fluviatilis* (Heller) Macbride

*grayi* A. Nelson = *Pedicularis procera* Gray

*groenlandica* Retzius [M&H; W&S]

elephant-head

*Elephantella groenlandica* (Retzius) Rydberg

*mogollonica* Greene = *Pedicularis parryi* Gray

*parryi* Gray [M&H; W&S]

*Pedicularis mogollonica* Greene

*Pedicularis parryi* Gray subsp. *mogollonica* (Greene) G.D. Carr

*parryi* Gray subsp. *mogollonica* (Greene) G.D. Carr = *Pedicularis parryi* Gray

*paysoniana* Pennell = *Pedicularis bracteosa* Benth. var. *paysoniana* (Pennell) Cronquist

*procera* Gray [M&H; W&S]

*Pedicularis grayi* A. Nelson

*racemosa* Douglas ex Benth. [M&H; W&S]

*scopulorum* Gray = *Pedicularis sudetica* Willdenow subsp. *scopulorum* (Gray) Hulst

*sudetica* Willdenow subsp. *scopulorum* (Gray) Hulst [M&H]

*Pedicularis scopulorum* Gray

*Pedicularis sudetica* Willdenow var. [no name] Gray, nom. illeg.

*sudetica* Willdenow var. [no name] Gray, nom. illeg. = *Pedicularis sudetica* Willdenow subsp. *scopulorum* (Gray) Hulst

**Rhinanthus** yellow-rattle

Hulst, R. van & B. Shipley. 1986. The systematic position of the genus *Rhinanthus* (Scrophulariaceae) in North America. *Can. J. Bot.* 64(7):1443-1449.

Soo, R. 1970. Arten und unterarten der gattung *Rhinanthus* in Europe. *Acta Bot.* 16(1/2):193-206.

*crista-galli* sensu W&S = *Rhinanthus minor* Linnaeus

*rigidus* Chabert = *Rhinanthus minor* Linnaeus

*minor* Linnaeus subsp. *groenlandicus* (Chabert) Neuman = *Rhinanthus minor* Linnaeus

*minor* Linnaeus [M&H; W&S]

*Rhinanthus crista-galli* sensu W&S

*Rhinanthus minor* Linnaeus subsp. *groenlandicus* (Chabert) Neuman

*Rhinanthus rigidus* Chabert

*Thalesia fasciculata* (Nuttall) Britton = *Aphyllon fasciculatum* (Nuttall) Torrey & A. Gray

*lutea* (Parry) Rydberg = *Aphyllon fasciculatum* (Nuttall) Torrey & A. Gray

*purpurea* Heller = *Aphyllon purpureum* (Heller) Holub

**Family OXALIDACEAE** [1/10/10]

*Inoxalis alpina* Rose = *Oxalis alpina* (Rose) Rose ex Kunth

*amplifolia* (Trelease) Rose = *Oxalis latifolia* Trelease

*caerulea* Small = *Oxalis caerulea* (Small) Knuth

*grayi* Rose = *Oxalis decaphylla* Kunth

*metcalfei* Small = *Oxalis metcalfei* (Small) Knuth

*monticola* Small = *Oxalis metcalfei* (Small) Knuth

*violacea* (Linnaeus) Small = *Oxalis violacea* Linnaeus

**Oxalis** wood-sorrel

Denton, M.F. 1973. A monograph of *Oxalis*, section *Inoxalis* (Oxalidaceae) in North America. Publ. of the Museum, Michigan State University Biological Series 4(10):455-615.

Lourteig, A. 1979. Oxalidaceae extra-austroamericanae. II. *Oxalis* L. Section *Corniculatae* DC. *Phytologia* 42:57-198.

Nesom, G.L. 2009. Taxonomic notes on acaulescent *Oxalis* (Oxalidaceae) in the United States. *Phytologia* 91(3):501-526.

Nesom, G.L. 2009. Notes on *Oxalis* sect. *Corniculatae* (Oxalidaceae) in the southwestern United States. *Phytologia* 91(3):527-533.

Nesom, G.L. 2016. Oxalidaceae, pp. 133-153. IN: *Flora of North America*, vol. 12. Oxford University Press.

Spellenberg, R., R. Worthington, P. Knight, & R. Fletcher. 1986. Additions to the flora of New Mexico. *Sida* 11(4):455-470. [*Oxalis corniculata pilosa*]

Turner, B.L. 1994. Regional variation in the North American elements of *Oxalis corniculata* (Oxalidaceae). *Phytologia* 77(1):1-7.

*albicans* Kunth [M&H; Turner 1994; W&S]

*Oxalis corniculata* Linnaeus var. *wrightii* (Gray) B.L. Turner

*Oxalis pilosa* Nuttall var. *wrightii* (A. Gray) Wiegand

*Oxalis wrightii* Gray

*Xanthoxalis albicans* (Kunth) Small

*Xanthoxalis wrightii* (Gray) Abrams

*albicans* Kunth subsp. *pilosa* (Nuttall) G. Eiten = *Oxalis pilosa* Nuttall in Torrey & Gray

*alpina* (Rose) Rose ex Knuth s.s. : Not known from NM, but occurring in central and southwestern Mexico; our material is referred to *Oxalis metcalfei* (Small) Knuth



- Ionoxalis alpina* Rose  
*amplifolia* (Trelease) Knuth = *Oxalis latifolia* Kunth  
*bulbosa* A. Nelson = *Oxalis metcalfei* (Small) Knuth  
***caerulea*** (Small) Knuth [Denton 1973; W&S]  
*Ionoxalis caerulea* Small  
*coloradensis* Rydberg = *Oxalis stricta* Linnaeus  
***corniculata*** Linnaeus [M&H]  
*corniculata* Linnaeus var. *dillenii* (Jacquin) Trelease = *Oxalis dillenii* Jacquin  
*corniculata* Linnaeus var. *pilosa* (Nuttall in Torrey & Gray) B.L. Turner = *Oxalis pilosa* Nuttall  
*corniculata* Linnaeus var. *wrightii* (Gray) B.L. Turner = *Oxalis albicans* Kunth  
***decaphylla*** Kunth [Denton 1973; M&H; W&S]  
*Ionoxalis grayi* Rose  
*Oxalis grayi* (Rose) Knuth  
***dillenii*** Jacquin [Nesom 2016]  
*Oxalis corniculata* Linnaeus var. *dillenii* (Jacquin) Trelease  
*divergens* Benthham var. *amplifolia* Trelease = *Oxalis latifolia* Kunth  
*drummondii* of NM reports = *Oxalis latifolia* Kunth or *Oxalis metcalfei* (Small) Knuth [Nesom 2016]  
***frutescens*** Linnaeus subsp. ***angustifolia*** (Kunth) Lourteig [Nesom 2016]  
*grayi* (Rose) Knuth = *Oxalis decaphylla* Kunth  
***latifolia*** Kunth [Denton 1973; M&H; W&S]  
*Ionoxalis amplifolia* (Trelease) Rose  
*Oxalis amplifolia* (Trelease) Knuth  
*Oxalis divergens* Benthham var. *amplifolia* Trelease  
*Oxalis drummondii* of NM reports, p.p.  
*Oxalis violacea* of NM reports, p.p.  
***metcalfei*** (Small) Knuth [M&H; Nesom 2009; W&S]  
*Ionoxalis metcalfei* Small  
*Ionoxalis monticola* Small  
*Oxalis alpina* of NM authors  
*Oxalis bulbosa* A. Nelson  
*Oxalis drummondii* of NM reports, p.p.  
*Oxalis monticola* Small  
*Oxalis neomexicana* Knuth  
*Oxalis violacea* of NM reports, p.p.  
*monticola* Small = *Oxalis metcalfei* (Small) Knuth  
*neomexicana* Knuth = *Oxalis metcalfei* (Small) Knuth  
***pilosa*** Nuttall in Torrey & Gray [Spellenberg et al. 1986; Turner 1994]  
*Oxalis albicans* Kunth subsp. *pilosa* (Nuttall) G. Eiten  
*Oxalis corniculata* Linnaeus var. *pilosa* (Nuttall in Torrey & Gray) B.L. Turner  
*Oxalis wrightii* A. Gray var. *pilosa* (Nuttall) Wiegand  
*pilosa* Nuttall var. *wrightii* (A. Gray) Wiegand = *Oxalis albicans* Kunth  
***stricta*** Linnaeus [Nesom 2016]  
*Oxalis coloradensis* Rydberg  
*violacea* of NM reports = *Oxalis latifolia* Kunth and *Oxalis metcalfei* (Small) Knuth  
*Ionoxalis violacea* (Linnaeus) Small  
*wrightii* Gray = *Oxalis albicans* Kunth  
*wrightii* A. Gray var. *pilosa* (Nuttall) Wiegand = *Oxalis pilosa* Nuttall in Torrey & Gray  
*Xanthoxalis albicans* (Kunth) Small = *Oxalis albicans* Kunth  
*stricta* sensu NM authors, not (Linnaeus) Small = *Oxalis albicans* Kunth  
*wrightii* (Gray) Abrams = *Oxalis albicans* Kunth

## Family PAPAVERACEAE [4/12/12]

[Fumariaceae]

- Hoot, S.B., K.M. Wefferling, & J.A. Wulff. 2015. Phylogeny and Character Evolution of Papaveraceae s. l. (Ranunculales). *Syst. Bot.* 40(2): 474-488.  
 Judd, W.S., C.S. Campbell, E.A. Kellogg, P.F. Stevens, & M.J. Donoghue. 2016. *Plant Systematics: A Phylogenetic Approach*, 4<sup>th</sup> ed. Sinauer Associates, Inc., Sunderland, Massachusetts. 677 pp.

Stevens, P.F. 2001+. Angiosperm Phylogeny Website. Version 12, July 2012 [and more or less continuously updated since]: <http://www.mobot.org/MOBOT/research/APweb/>.

Wang, W., A.-M. Lu, Y. Ren, M. E. Endress, & Z.-D. Chen. 2009. Phylogeny and classification of Ranunculales: Evidence from four molecular loci and morphological data. *Perspectives in Plant Ecology, Evolution and Systematics* 11; 81–110.

**Argemone** prickly-poppy

Cervantes, S.D., P. Tonne, R. Govindarajulu, P.J. Alexander, & C.D. Bailey. 2010. Population genetic analysis of *Argemone pleiacantha* subsp. *pinnatisecta* (Sacramento prickly poppy, Papaveraceae) and re-evaluation of its taxonomic status. *J. Bot. Res. Inst. Texas* 41(1):261-269.

Ownbey, G.B. 1958. Monograph of the genus *Argemone* for North America and the West Indies. *Mem. Torrey Bot. Club* 21(1):1-159.

Ownbey, G.B. 1997. *Argemone*, pp. 314-322. IN: *Flora of North America*, vol. 3. Oxford University Press.  
Schwarzbach, A.E. & J.W. Kadereit. 1999. Phylogeny of prickly poppies, *Argemone* (Papaveraceae), and the evolution of morphological and alkaloid characters based on ITS nrDNA sequence variation. *Plant Syst. Evol.* 218:257-279.

aenea G.B. Ownbey : Reported by Kartesz (1999) without documentation; awaits verification.

**hispid**a Gray [Ownbey 1997; M&H; W&S]

*Argemone platyceras* Link & Otto

*intermedia* Sweet = *Argemone polyanthem* (Fedde) G. Ownbey

*intermedia* Sweet var. *polyanthem* Fedde = *Argemone polyanthem* (Fedde) G. Ownbey

+**pinnatisecta** (G. Ownbey) Cervantes & Bailey [Ownbey 1997; M&H]

*Argemone pleiacantha* Greene subsp. *pinnatisecta* G. Ownbey

*platyceras* Link & Otto = *Argemone hispida* Gray

*platyceras* auctores = *Argemone pleiacantha* Greene

*pleiacantha* Greene subsp. *pinnatisecta* G. Ownbey = *Argemone pinnatisecta* (G. Ownbey) Cervantes & Bailey

**pleiacantha** Greene [Ownbey 1997; M&H]

*Argemone platyceras* auctores

**polyanthem** (Fedde) G. Ownbey [Ownbey 1997; M&H; W&S]

*Argemone intermedia* Sweet

*Argemone intermedia* Sweet var. *polyanthem* Fedde

*squarrosa* Greene subsp. *glabrata* G. Ownbey = *Argemone squarrosa* Greene

**squarrosa** Greene [M&H; Ownbey 1997; W&S]

*Argemone squarrosa* Greene subsp. *glabrata* G. Ownbey

**Capnoides aureum** (Willdenow) Kuntze = *Corydalis aurea* Willdenow

*brandegeei* (S. Watson) Heller = *Corydalis caseana* Gray subsp. *brandegeei* (S. Watson) G. Ownbey

*euchlamydeum* Wootton & Standley = *Corydalis aurea* Willdenow

*montanum* (Engelmann) Britton = *Corydalis aurea* Willdenow

**Corydalis** golden-smoke

Stern, K.R. 1997. *Corydalis*, pp. 348-355. IN: *Flora of North America*, vol. 3. Oxford University Press.

Ownbey, G.B. 1947. Monograph of the North American species of *Corydalis*. *Ann. Miss. Bot. Gard.* 34:187-260.

**aurea** Willdenow [Stern 1997; M&H; W&S]

*Capnoides aureum* (Willdenow) Kuntze

*Capnoides euchlamydeum* Wootton & Standley

*Capnoides montanum* (Engelmann) Britton

*Corydalis aurea* Willdenow var. *occidentalis* Engelmann

*Corydalis curvisiliqua* Engelmann subsp. *occidentalis* (Engelmann ex Gray) W.A. Weber

*Corydalis montana* Engelmann

*aurea* Willdenow subsp. *occidentalis* (Engelmann ex Gray) G. Ownbey = *Corydalis aurea* Willdenow

*brandegeei* S. Watson = *Corydalis caseana* Gray subsp. *brandegeei* (S. Watson) G. Ownbey

**caseana** Gray subsp. **brandegeei** (S. Watson) G. Ownbey [Stern 1997; M&H; W&S]

*Capnoides brandegeei* (S. Watson) Heller

*Corydalis brandegeei* S. Watson

*curvisiliqua* Engelmann subsp. *occidentalis* (Engelmann ex Gray) W.A. Weber = *Corydalis aurea* Willdenow

*montana* Engelmann = *Corydalis aurea* Willdenow

**Eschscholtzia** California poppy

Clark, C. 1978. Systematic studies of *Eschscholtzia* (Papaveraceae). I. The origin and affinities of *E. mexicana*. Syst. Bot. 3(4):374-385.

**californica** Chamisso subsp. **mexicana** (Greene) C. Clark [M&H; W&S]

*Eschscholtzia mexicana* Greene

*Eschscholtzia parvula* (Gray) Cockerell

*mexicana* Greene = *Eschscholtzia californica* Chamisso subsp. *mexicana* (Greene) C. Clark

*parvula* (Gray) Cockerell = *Eschscholtzia californica* Chamisso subsp. *mexicana* (Greene) C. Clark

**Papaver** poppy

Holmgren, N.H. & P.K. Holmgren. 2012. *Papaver*, pp. 28-34. IN: Intermountain Flora, vol. 2A. New York Botanical Garden.

Kadereit, J.W., A.E. Schwarzbach, & K.B. Jork. 1997. The phylogeny of *Papaver* s.l. (Papaveraceae): Polyphyly or monophyly? Pl. Syst. Evol. 204: 75-98.

Kiger, R.W. & D.F. Murray. 1997. *Papaver*, pp. 323-333. IN: Flora of North America, vol. 3. Oxford University Press.

Spellenberg, R., L. McIntosh, and L. Brouillet. 1993. New records of angiosperms from southern New Mexico. Phytologia 75:224-230. [*Papaver rhoeas*]

Carolan, J.C., I.L. I. Hook, M.W. Chase, J.W. Kadereit, & T.R. Hodkinson. 2006. Phylogenetics of *Papaver* and related genera based on DNA sequences from ITS nuclear ribosomal DNA and plastid *trnL* intron and *trnL-F* intergenic spacer. Annals of Botany 98(1): 141-155.

**coloradense** (Fedde) Fedde ex Wootton & Standley [Kiger & Murray 1997; M&H; W&S]

*Papaver nudicaule* L. var. *coloradense* Fedde

*Papaver nudicaule* of NM reports

*Papaver radicum* of NM reports

*Papaver radicum* Rottboell var. *kluanensis* of NM reports

\***dubium** Linnaeus [FNM I]

*Papaver dubium* Linnaeus var. *stevonianum* (Mikheev) Kubát & Šipošová

*Papaver stevonianum* Mikheev

*dubium* Linnaeus var. *stevonianum* (Mikheev) Kubát & Šipošová = *Papaver dubium* Linnaeus

*kluanensis* of NM reports = *Papaver coloradense* (Fedde) Fedde ex Wootton & Standley  
*orientale* Linnaeus : Commonly cultivated and expected to eventually escape; not known in the wild.

*radicum* Rottboell var. *kluanensis* of NM reports = *Papaver coloradense* (Fedde) Fedde ex Wootton & Standley

*nudicaule* Linnaeus var. *radicum* (Rottboell) A.P. de Candolle [=*Papaver radicum* Rottboell subsp. *radicum*] : Reported as expected by M&H map, but Kiger & Murray (1997) restrict this taxon to polar regions at the northernmost latitudes.

\***rhoeas** Linnaeus [Kiger & Murray 1997; Spellenberg et al. 1993]

\***somniferum** Linnaeus [Kiger & Murray 1997; M&H; W&S]

*stevonianum* Mikheev = *Papaver dubium* Linnaeus

**Family PARNASSIACEAE** [1/2/2]

Holmgren, N.H. & P.K. Holmgren, 1997. Parnassiaceae, pp. 60-64. IN: Intermountain Flora, vol. 3A. New York Botanical Garden.

Morgan, D.R. & D.E. Soltis. 1993. Phylogenetic relationships among members of Saxifragaceae sensu lato based on *rbcl* sequence data. Ann. Missouri Bot. Gard. 80:631-660.

**Parnassia** parnassia

**fimbriata** König [M&H; W&S]

*montanensis* Fernald & Rydberg = *Parnassia palustris* Linnaeus

**palustris** Linnaeus [M&H; W&S]

*Parnassia montanensis* Fernald & Rydberg

*Parnassia palustris* Linnaeus var. *montanensis* (Fernald & Rydberg) C.L. Hitchcock

*Parnassia palustris* Linnaeus var. *parviflora* (A.P de Candolle) Boivin

*Parnassia parviflora* A.P de Candolle

*palustris* Linnaeus var. *montanensis* (Fernald & Rydberg) C.L. Hitchcock = *Parnassia palustris* Linnaeus

*palustris* Linnaeus var. *parviflora* (A.P de Candolle) Boivin = *Parnassia palustris* Linnaeus

*parviflora* A.P de Candolle = *Parnassia palustris* Linnaeus

Family PASSIFLORACEAE

Goldman, D.H. 2004. Lectotypification of *Passiflora affinis* (Passifloraceae) and discussion of its geographic range within the United States. *Sida* 21:275-285.

*Passiflora tenuiloba* Engelm.: Reported by M&H based on a single specimen of C. Wright, collected 1851, with the scant information "Coll. N. Mex.". Goldman (2004) shows clearly that the attribution of Wright's collection to New Mexico is inaccurate.

Family PEDALIACEAE...go to MARTYNIACEAE

Family PETIVERIACEAE [1/1/1]

[Rivinaeae]

Nienaber, M.A. & J.W. Thieret. 2003. Phytolaccaceae, pp. 3-11. IN: *Flora of North America*, vol. 4. Oxford University Press, New York.

**Rivina** humble-weed

Mandal, M., S. Mitra, G.G. Maiti, & D. Maity. 2014. A new variety of *Rivina humilis* and the status of *R. bengalensis* (Phytolaccaceae). *Rheedea* 24(2): 99-104.

**humilis** Linnaeus [M&H; Nienaber & Thieret 2003; W&S]

*Rivina portulacoides* Nuttall

*portulacoides* Nuttall = *Rivina humilis* Linnaeus

Family PHYLLANTHACEAE [1/3/3]

Levin, G.A. 2016. Phyllanthaceae, pp. 318-347. IN: *Flora of North America*, vol. 12. Oxford University Press, New York

**Phyllanthus** leaf-flower

Levin, G.A. 2016. Phyllanthus, pp. 335-345. IN: *Flora of North America*, vol 12. Oxford University Press, New York.

Urbatsch, L.E., J.D. Bacon, R.L. Hartman, M.C. Johnston, T.J. Watson, Jr., & G.L. Webster. 1975. Chromosome numbers for North American Euphorbiaceae. *Amer. J. Bot.* 62:494-500.

[*Phyllanthus abnormis*]

Webster, G.L. & K.I. Miller. 1963. The genus *Reverchonia* (Euphorbiaceae). *Rhodora* 65:193-207.

Webster, G.L. 1970. A revision of *Phyllanthus* (Euphorbiaceae) in the continental United States. *Brittonia* 22:44-76.

Webster, G.L. 2007. Taxonomic and nomenclatural changes in American Euphorbiaceae sensu lato. *Contr. Univ. Michigan Herb.* 25:235-239.

**abnormis** Baillon var. **abnormis** [Urbatsch et al. 1975]

*Phyllanthus drummondii* Small

*drummondii* Small = *Phyllanthus abnormis* Baillon var. **abnormis**

**polygonoides** Nuttall ex Sprengel [M&H; W&S]

**warnockii** G.L. Webster [M&H; W&S]

*Reverchonia arenaria* Gray = *Phyllanthus warnockii* G.L. Webster

Family PINGUICULACEAE = LENTIBULARIACEAE

Family PHRYMACEAE [1/12/12]

Barker, W.R., G.L. Nesom, P.M. Beardsley, and N.S. Fraga. 2012. A taxonomic conspectus of Phrymaceae: A narrowed circumscriptions for *Mimulus*, new and resurrected genera, and new names and combinations. *Phytoneuron* 2012-39: 1-60.

**Erythranthe**

Barker, W.R., G.L. Nesom, P.M. Beardsley, and N.S. Fraga. 2012. A taxonomic conspectus of Phrymaceae: A narrowed circumscriptions for *Mimulus*, new and resurrected genera, and new names and combinations. *Phytoneuron* 2012-39: 1-60.

Beardsley, P.M., S.E. Schoenig, J.B. Whittall, & R.G. Olmstead. 2004. Patterns of evolution in western North American *Mimulus* (Phrymaceae). *Amer. J. Bot.* 91(3): 474-489.

Campbell, G.R. 1950. *Mimulus guttatus* and related species. *Aliso* 2:319-337.

Grant, A.L. 1924. A monograph of the genus *Mimulus*. *Ann. Missouri Bot. Gard.* 11:99-388.

Heil, K.D., S.L. O'Kane, & A. Clifford. 2002. Additions to the flora of New Mexico from the San Juan Basin Flora project. *The New Mexico Botanist* 24:1-4. [*Erythranthe eastwoodiae*]

Keller, C.F. 2010. Verification of *Mimulus suksdorfii*. *The New Mexico Botanist* 51:1.

Nesom, G.L. 2012. Taxonomy of *Erythranthe* sect. *Simiola* (Phrymaceae) in the USA and Mexico. *Phytoneuron* 2012-40:1-123. [*Erythranthe minor*, *E. nasutus*, *E. unimaculatus*]

Nesom, G.L. 2012. Taxonomy of *Erythranthe* sect. *Mimulosma* (Phrymaceae). *Phytoneuron* 2012-41:1-36.

- Nesom, G.L. 2014. Updated classification and hypothetical phylogeny of *Erythranthe* sect. *Simiola* (Phrymaceae). *Phytoneuron* 2014-81: 1-6.
- Nesom, G.L. 2014. Taxonomy of *Erythranthe* sect. *Erythranthe* (Phrymaceae). *Phytoneuron* 2014-31: 1-41.
- Worthington, R.D. 2005. Plant distribution reports. *The New Mexico Botanist* 34:7. [*Erythranthe primuloides*]
- cinnabarina* Nesom : Reported by M&H and W&S (as *Mimulus cardinalis*), based on *P.F. Mohr* from “Gila Canyon;” the specimen has not been found and this locality is almost certainly along the Gila River in Arizona and not in NM; no specimens belong to this are known; awaits verification.  
*Mimulus cardinalis* of NM reports?
- cordata*** (Greene) Nesom [Nesom 2012; W&S]  
*Mimulus cordatus* Greene
- dentiloba* (Robinson & Fernald) Nesom s.l. : Not occurring in NM, but a plant of Mexico; our plants are referred to the segregate species *Erythranthe parvula* (Wooton & Standley) Nesom.  
*Mimulus dentilobus* Robinson & Fernald
- eastwoodiae*** (Rydberg) Nesom & N.S. Fraga [Heil et al. 2002]  
*Mimulus eastwoodiae* Rydberg
- floribunda*** (Douglas ex Lindley) Nesom [M&H]  
*Mimulus floribundus* Douglas ex Lindley
- glabrata* (Kunth) Nesom s.l. : Not known from NM, but a plant of Mexico and southward; our plants are referred to *Erythranthe geyeri* (Torrey) Nesom  
*Mimulus glabratus* Kunth
- geyeri*** (Torrey) Nesom [Nesom 2012; W&S]  
*Mimulus geyeri* Torrey  
*Mimulus glabratus* Kunth var. *fremontii* (Benth) Grant  
*Mimulus jamesii* Torrey & Gray ex Benth  
*Mimulus jamesii* Torrey & Gray ex Benth var. *fremontii* Benth
- guttata*** (A.P. de Candolle) Nesom [M&H; Nesom 2012; W&S]  
*Mimulus guttatus* A.P. de Candolle  
*Mimulus langsдорфii* Donn  
*Mimulus puberulus* Greene ex Rydberg
- minor*** (A. Nelson) Nesom [Nesom 2012]  
*Mimulus minor* A. Nelson
- nasuta*** (Greene) Nesom [Nesom 2012]  
*Mimulus guttatus* A.P. de Candolle var. *gracilis* (A. Gray) G. Campbell  
*Mimulus nasutus* Greene
- parvula*** (Wooton & Standley) Nesom [M&H; Nesom 2012; W&S]  
*Mimulus parvulus* Wooton & Standley
- primuloides*** (Benth) Nesom & N.S. Fraga [Worthington 2005]  
*Mimulus primuloides* Benth
- rubella*** (Gray) N.S. Fraga [M&H; W&S]  
*Mimulus gratiolooides* Rydberg  
*Mimulus rubellus* Gray
- suksdorffii*** (Gray) N.S. Fraga [Keller 2010]  
*Mimulus suksdorffii* Gray
- tilingii* (Regel) Nesom : Reported by various works, but the specimens belong to *Erythranthe minor* (formerly included within *E. tilingii*); awaits verification.  
*Mimulus tilingii* Regel
- unimaculata*** (Pennell) Nesom [Nesom 2012]  
*Mimulus unimaculatus* Pennell
- verbenacea* (Greene) Nesom & Fraga : Reported by M&H and W&S (as *Mimulus cardinalis*), based on *P.F. Mohr* from “Gila Canyon;” the specimen has not been found and this locality is almost certainly along the Gila River in Arizona and not in NM; no specimens belong to this are known; awaits verification.  
*Mimulus cardinalis* of NM reports?
- Mimulus cardinalis* of NM reports = *Erythranthe cinnabarina* Nesom or *E. verbenacea* (Greene) Nesom & Fraga

- cordatus* Greene = *Erythranthe cordata* (Greene) Nesom  
*dentilobus* Robinson & Fernald = *Erythranthe dentiloba* (Robinson & Fernald) Nesom  
*eastwoodiae* Rydberg = *Erythranthe eastwoodiae* (Rydberg) Nesom & N.S. Fraga  
*floribundus* Douglas ex Lindley = *Erythranthe floribunda* (Douglas ex Lindley) Nesom  
*geyeri* Torrey = *Erythranthe geyeri* (Torrey) Nesom  
*glabratus* Kunth var. *fremontii* (Bentham) Grant = *Erythranthe geyeri* (Torrey) Nesom  
*glabratus* Kunth = *Erythranthe glabrata* (Kunth) Nesom  
*glabratus* Kunth var. *jamesii* (Torrey & Gray ex Bentham) Gray = *Erythranthe geyeri* (Torrey) Nesom  
*gratioloides* Rydberg = *Erythranthe rubella* (Gray) N.S. Fraga  
*guttatus* A.P. de Candolle = *Erythranthe guttata* (A.P. de Candolle) Nesom  
*guttatus* A.P. de Candolle var. *gracilis* (A. Gray) G. Campbell = *Erythranthe guttata* (A.P. de Candolle) Nesom  
*jamesii* Torrey & Gray ex Bentham = *Erythranthe geyeri* (Torrey) Nesom  
*jamesii* Torrey & Gray ex Bentham var. *fremontii* Bentham = *Erythranthe geyeri* (Torrey) Nesom  
*langsdorfii* Donn = *Erythranthe guttata* (A.P. de Candolle) Nesom  
*minor* A. Nelson = *Erythranthe minor* (A. Nelson) Nesom  
*nasutus* Greene = *Erythranthe nasuta* (Greene) Nesom  
*parvulus* Wootton & Standley = *Erythranthe parvula* (Wootton & Standley) Nesom  
*primuloides* Bentham = *Erythranthe primuloides* (Bentham) Nesom & N.S. Fraga  
*puberulus* Greene ex Rydberg = *Erythranthe guttata* (A.P. de Candolle) Nesom  
*rubellus* Gray = *Erythranthe rubella* (Gray) N.S. Fraga  
*suksdorfii* Gray = *Erythranthe suksdorfii* (Gray) N.S. Fraga  
*tilingii* Regel = *Erythranthe tilingii* (Regel) Nesom  
*unimaculatus* Pennell = *Erythranthe unimaculata* (Pennell) Nesom

**Family PHYTOLACCACEAE** [1/1/1]

- Nienaber, M.A. & J.W. Thieret. 2003. Phytolaccaceae, pp. 3-11. IN: Flora of North America, vol. 4. Oxford University Press, New York.  
 Schäferhoff, B., K.R. Müller, T. Borsch. 2009. Caryophyllales phylogenetics: disentangling Phytolaccaceae and Molluginaceae and description of Microteaceae as a new isolated family. Willdenowia 39: 209-228.

**Phytolacca** pokeweed

- McGrath, J. 1999. New plant distribution records. The New Mexico Botanist 12:8. [*Phytolacca americana*]  
*americana* Linnaeus var. *americana* [McGrath 1999; Nienaber & Thieret 2003]

*Rivina*...go to PETIVERIACEAE

**Family PLANTAGINACEAE** [16/80/89]

[Callitrichaceae, Hippuridaceae, Veronicaceae]

- Judd, W.S., C.S. Campbell, E. A. Kellogg, P. F. Stevens, & M. J. Donoghue. 2016. Anacardiaceae, pp. 437-439. IN: Plant Systematics, A Phylogenetic Approach, Sinauer Associates, Inc.  
 Ghebrehiwet, M., B. Bremer, & M. Thulin. 2000. Phylogeny of the tribe Antirrhineae (Scrophulariaceae) based on morphological and *ndhF* sequence data. Plant Syst. Evol. 220: 223-239.  
 Olmstead, R.G., C.W. dePamphilis, A.D. Wolfe, N.D. Young, W.J. Elisens, & P.A. Reeves. 2001. Disintegration of the Scrophulariaceae. Amer. J. Bot. 88(2):348-361.  
 Tank, D.C., P.M. Beardsley, S.A. Kelchner, & R.G. Olmstead. 2006. Review of the systematics of Scrophulariaceae s.l. and their current disposition. Australian Syst. Bot. 19: 289-307.  
*Antirrhinum antirrhiniflora* (Humboldt & Bonpland ex Willdenow) Hitchcock = *Maurandella antirrhiniflora* (Humboldt & Bonpland ex Willdenow) Rothmaler  
*dalmaticum* Linnaeus = *Linaria dalmatica* (Linnaeus) Miller

**Bacopa** water-hyssop

- Barrett, S.C.H. & J.L. Strother. 1978. Taxonomy and natural history of *Bacopa* (Scrophulariaceae) in California. Syst. Bot. 3:408-419.  
 Pennell, F.W. 1946. Reconsideration of the *Bacopa-Herpestis* problem of the Scrophulariaceae. Proc. Acad. Nat. Sci. Philadelphia 98:83-98.

**rotundifolia** (Michaux) Wettstein [M&H]

*Monniera rotundifolia* Michaux

- Besseyia alpina* (Gray) Rydberg = *Synthyris alpina* Gray  
*arizonica* Pennell = *Synthyris plantaginea* (James) Bentham  
*oblongifolia* Pennell = *Synthyris oblongifolia* (Pennell) Hufford & McMahon  
*plantaginea* (James) Rydberg = *Synthyris plantaginea* (James) Bentham

- Callitriche** water-starwort  
 Les, D.H. & C.T. Philbrick. 2000. Phylogenetic studies in *Callitriche*: implications for interpretation of ecological, karyological, and pollination system evolution. *Aquatic Botany* 68: 123-141.  
 Ricketson, J. 1995. Callitrichaceae. *J. Ariz.-Nev. Acad. Sci.* 29(1):15-16.  
*autumnalis* Linnaeus = *Callitriche hermaphroditica* Linnaeus  
***hermaphroditica*** Linnaeus [M&H]  
*Callitriche autumnalis* Linnaeus  
***heterophylla*** Pursh [M&H]  
***palustris*** Linnaeus [M&H; W&S] [1753]  
*Callitriche verna* Linnaeus [1755]  
*verna* Linnaeus = *Callitriche palustris* Linnaeus  
*Chelone barbata* Cavanilles = *Penstemon barbatus* (Cavanilles) Roth subsp. *barbatus*
- Chionophila** snowlover  
 Peterson, R.S. 2010. Plant distribution reports. *The New Mexico Botanist* 50:3. [*Chionophila jamesii*]  
***jamesii*** Bentham [Peterson 2010]
- Collinsia** blue-eyed-Mary  
 Newsom, V.M. 1929. A revision of the genus *Collinsia* (Scrophulariaceae). *Bot. Gaz.* 87:260-301.  
***parviflora*** Douglas [M&H]  
*Collinsia tenella* (Pursh) Piper  
*tenella* auctores non (Pursh) Piper = *Collinsia parviflora* Douglas  
*Conobea intermedia* Gray = *Schistophragma intermedia* (Gray) Pennell
- Epixiphium**  
 Elisens, W.J. 1985. Monograph of the Maurandyinae (Scrophulariaceae-Antirrhineae). *Syst. Bot. Monogr.* 5:1-97.  
 Sutton, D.A. 1988. A revision of the tribe Anthirrhineae. Oxford University Press, London, England.  
***wislizeni*** (Engelmann ex Gray) Munz [M&H; W&S]  
*Maurandya wislizeni* Engelmann ex Gray
- Erinus procumbens* P. Miller = *Mecardonia procumbens* (P. Miller) Small  
*Erythranthe*...go to PHRYMACEAE
- Gratiola** clammy hyssop  
 Tank, D.C., P.M. Beardsley, S.A. Kelchner, & R.G. Olmstead. 2006. Review of the systematics of Scrophulariaceae s.l. and their current disposition. *Australian Syst. Bot.* 19: 289-307.  
*anagallidea* Michaux = *Lindernia dubia* (Linnaeus) Pennell  
*dubia* Linnaeus = *Lindernia dubia* (Linnaeus) Pennell  
***neglecta*** Torrey [M&H]  
*Gratiola virginica* of western authors, misapplied  
*virginica* of western authors, misapplied = *Gratiola neglecta* Torrey
- Hippuris** mare's-tail  
 McCully, M.E. & H.M. Dale. 1961. Variations in leaf numbers in *Hippuris*. *Canad. J. Bot.* 39: 611-625.  
 McCully, M.E. & H.M. Dale. 1961. Heterophyly in *Hippuris*, a problem in identification. *Canad. J. Bot.* 39: 1099-1116.  
***vulgaris*** Linnaeus [M&H; W&S]
- Leostemon ambiguus* (Torrey) Greene = *Penstemon ambiguus* Torrey var. *ambiguus*  
*thurberi* Greene = *Penstemon thurberi* Torrey
- Linaria** toadflax  
 Sutton, D.A. 1988. A revision of the tribe Anthirrhineae. Oxford University Press, London, England.  
 Fernandez-Mazuecos, M., J.L. Blanco-Pastor, & P. Vargas. 2013. A phylogeny of toadflaxes (*Linaria* Mill.) based on nuclear internal transcribed spacer sequences: Systematic and evolutionary consequences. *Int. J. Plant Sci.* 174(2): 234-249.  
 Ogutcen, E. & J.C. Vamosi. 2016. A phylogenetic study of the tribe Antirrhineae: Genome duplications and long-distance dispersals from the Old World to the New World. *Amer. J. Bot.* 103(6): 1071-1080.  
*canadensis* sensu W&S = *Nuttallanthus texanus* (Scheele) D.A. Sutton  
*canadensis* (Linnaeus) Dumortier var. *texana* (Scheele) Pennell = *Nuttallanthus texanus* (Scheele) D.A. Sutton  
**\**dalmatica*** (Linnaeus) Miller [M&H]  
 Dalmatian toadflax  
*Antirrhinum dalmaticum* Linnaeus  
*texana* Scheele = *Nuttallanthus texanus* (Scheele) D.A. Sutton  
**\**vulgaris*** Hill [M&H]  
 butter-and-eggs

*Lindernia*...go to LINDERNIACEAE

*Maurandella antirrhiniflora* (Humboldt & Bonpland ex Willdenow) Rothmaler = *Maurandya antirrhiniflora* Humboldt & Bonpland ex Willdenow

***Maurandella***

Elisens, W.J. 1985. Monograph of the Maurandiyinae (Scrophulariaceae-Antirrhineae). Syst. Bot. Monogr. 5:1-97.

Sutton, D.A. 1988. A revision of the tribe Anthirrhineae. Oxford University Press, London, England.

***antirrhiniflora*** (Humboldt & Bonpland ex Willdenow) Rothmaler [M&H; W&S]

*Antirrhinum antirrhiniflora* (Humboldt & Bonpland ex Willdenow) Hitchcock

*Maurandya antirrhiniflora* Humboldt & Bonpland ex Willdenow

*Maurandya antirrhiniflora* Humboldt & Bonpland ex Willdenow = *Maurandella antirrhiniflora* (Humboldt & Bonpland ex Willdenow) Rothmaler

*wislizeni* Engelm ex Gray = *Epixiphium wislizeni* (Engelmann ex Gray) Munz

***Mecardonia*** baby-jump-up

Todsen, T.K. 1984. Noteworthy collections (New Mexico). Madroño 31:125. [*Mecardonia procumbens*]

***procumbens*** (P. Miller) Small [Todsens 1984]

*Erinus procumbens* P. Miller

*Pagesia vandellioides* Pennell

*Mecardonia vandellioides* auctores non (Kunth) Pennell

*vandellioides* auctores non (Kunth) Pennell = *Mecardonia procumbens* (P. Miller) Small

*Mimulus*...go to PHRYMACEAE

*Monniera rotundifolia* Michaux = *Bacopa rotundifolia* (Michaux) Wettstein

***Nuttallanthus*** blue toadflax

Crawford, P.T. & W.J. Elisens. 2006. Genetic variation and reproductive system among North American species of *Nuttallanthus* (Plantaginaceae). Amer. J. Bot. 93(4): 582-591.

Sutton, D.A. 1988. A revision of the tribe Anthirrhineae. Oxford University Press, London, England.

*canadensis* sensu W&S = *Nuttallanthus texanus* (Scheele) D.A. Sutton

***texanus*** (Scheele) D.A. Sutton [M&H; W&S]

*Linaria canadensis* of NM reports

*Linaria canadensis* (Linnaeus) Dumortier var. *texana* (Scheele) Pennell

*Linaria texana* Scheele

*Nuttallanthus canadensis* of NM reports

*Pagesia vandellioides* Pennell = *Mecardonia procumbens* (P. Miller) Small

***Penstemon*** beardtongue

Anderson, J.L., S. Richmond-Williams, & O. Williams. 2007. *Penstemon lanceolatus* Benth. or *P. ramosus* Crosswhite in Arizona and New Mexico, a peripheral or endemic species? In: P. Barlow-Irick, J. Anderson, & C. McDonald (tech. eds.), Southwestern rare and endangered plants: proceedings of the fourth conference: March 22-26, 2004, Las Cruces, NM. Proceedings RMRS-P-48CA, Fort Collins, CO. USDA Forest Service, Rocky Mountain Research Station.

Bleakly, D. 1998. A key to the penstemons of New Mexico. The New Mexico Botanist 9:1-6.

Crosswhite, F.S. 1965. Revision of *Penstemon* section *Penstemon* (Scrophulariaceae) II. A western alliance in series *Gracilis*. Amer. Midl. Naturalist 74(2):429-442.

Crosswhite, F.S. 1966. Revision of the *Penstemon* section *Chamaeleon* (Scrophulariaceae). Sida 2:339-346.

Crosswhite, F.S. 1967. Against proliferation of superfluous names by giving formal status to spelling variants. Taxon 16: 109-112.

Crosswhite, F.S. 1967. Revision of *Penstemon* section *Habroanthus* (Scrophulariaceae). III: series *Virgati*. Amer. Midl. Naturalist 77:1-41.

Hartman, R.L., B. Reif, B.E. Nelson, & B. Jacobs. 2006. New vascular plant records for New Mexico. Sida 22(2):1225-1233. [*Penstemon glaber alpinus*]

Heil, K.D., S.L. O'Kane, & A. Clifford. 2002. Additions to the flora of New Mexico from the San Juan Basin Flora project. The New Mexico Botanist 24:1-4. [*Penstemon eatonii eatonii*, *Penstemon pachyphyllus*?]

Hubbard, J.P. 1999. *Penstemon pulchellus* Lindley [= *P. campanulatus* (Cavanilles) Willdenow]: A specious member of New Mexico's flora. The New Mexico Botanist 11:6-7.

Hubbard, J.P. 1999. *Penstemon spinulosus* Wootton and Standley: New Mexico endemic, error, or introduction? The New Mexico Botanist 12:1-4.

Hubbard, J.P. 2001. An update of the *Penstemon* treatment in Wootton and Standley's (1915) Flora of New Mexico. Bull. Amer. Penstemon Soc. 60(2):4-24.

Nisbet, G.T. & R.C. Jackson. 1960. The genus *Penstemon* in New Mexico. Univ. Kansas Sci. Bull. 41(5):691-759.

O'Kane, S.L., Jr., & K.D. Heil. 2014. *Penstemon bleaklyi* (Plantaginaceae), a new high-elevation species from north-central New Mexico. Phytoneuron 2014-61: 1-4.



- Roth, D. 2016. Wildfire Impacts on Species of Concern Plants in the Gila National Forest, New Mexico. Unpublished report prepared by EMNRD-Forestry Division, Santa Fe, NM for the U.S. Fish & Wildlife Service, Region 2, Albuquerque, NM. 48 pp. [*Penstemon metcalfei*]
- Sivinski, R.C. 1998. New plant distribution records (*Arenaria hookeri*, *Mentzelia marginata*, *Paronychia depressa*, *Penstemon ophianthus*). The New Mexico Botanist 7:6.
- Sivinski, R.C. & K. Lightfoot, eds. 1994. Inventory of rare and endangered plants of New Mexico. New Mexico Forestry and Resources Conservation Division, Misc. Publ. No. 3.
- Straw, R.M. 1966. A redefinition of *Penstemon* (Scrophulariaceae). Brittonia 18: 80-95.
- Todsen, T.K. 1998. *Penstemon metcalfei* (Scrophulariaceae), a valid species. Sida 18(2):621-622.
- acuminatus* Douglas ex Lindley var. *congestus* M.E. Jones = *Penstemon pachyphyllus* A. Gray ex Rydberg
- amosensis*** Pennell & Nisbet [Bleakly 1998; M&H]
- albidus*** Nuttall [Bleakly 1998; M&H]
- alpinus* Torrey = *Penstemon glaber* Pursh var. *alpinus* (Torrey) Gray
- alpinus* Torrey subsp. *brandegeei* (Porter) Harrington = *Penstemon glaber* Pursh var. *brandegeei* (Porter) Freeman
- ambiguus*** Torrey var. ***ambiguus*** [Bleakly 1998; M&H; W&S]
- Leiostemon ambiguus* (Torrey) Greene
- ambiguus*** Torrey var. ***laevisissimus*** (Keck) N. Holmgren [Bleakly 1998; M&H]
- Penstemon ambiguus* Torrey subsp. *laevisissimus* Keck
- ambiguus* Torrey subsp. *laevisissimus* Keck = *Penstemon ambiguus* Torrey var. *laevisissimus* (Keck) N. Holmgren
- ambiguus* Torrey var. *thurberi* (Torrey) Gray = *Penstemon thurberi* Torrey
- amplexicaulis* Buckley = *Penstemon buckleyi* Pennell
- angustifolius*** Nuttall ex Pursh var. ***caudatus*** (Heller) Rydberg [Bleakly 1998; M&H; W&S]
- Penstemon angustifolius* Nuttall ex Pursh subsp. *caudatus* (Heller) Keck
- Penstemon caudatus* Heller
- angustifolius* Nuttall ex Pursh subsp. *caudatus* (Heller) Keck = *Penstemon angustifolius* Nuttall ex Pursh var. *caudatus* (Heller) Rydberg
- angustifolius* Nuttall ex Pursh subsp. *venosus* Keck = *Penstemon angustifolius* Nuttall ex Pursh var. *venosus* (Keck) N. Holmgren
- angustifolius*** Nuttall ex Pursh var. ***venosus*** (Keck) N. Holmgren [Bleakly 1998; M&H]
- Penstemon angustifolius* Nuttall ex Pursh subsp. *venosus* Keck
- arizonicus* Heller = *Penstemon whippleanus* Gray
- auriberbis*** Pennell [Bleakly 1998; M&H]
- barbatus*** (Cavanilles) Roth subsp. ***barbatus*** [Bleakly 1998; M&H; W&S]
- Chelone barbata* Cavanilles
- barbatus*** (Cavanilles) Roth var. ***torreyi*** (Bentham) Gray [Bleakly 1998; M&H; W&S]
- Penstemon barbatus* (Cavanilles) Roth subsp. *torreyi* (Bentham) Keck
- Penstemon torreyi* Bentham
- barbatus* (Cavanilles) Roth subsp. *torreyi* (Bentham) Keck = *Penstemon barbatus* (Cavanilles) Roth var. *torreyi* (Bentham) Gray
- barbatus*** (Cavanilles) Roth var. ***trichander*** Gray [Bleakly 1998; M&H; W&S]
- Penstemon barbatus* (Cavanilles) Roth subsp. *trichander* (Gray) Keck
- Penstemon trichander* (Gray) Rydberg
- barbatus* (Cavanilles) Roth subsp. *trichander* (Gray) Keck = *Penstemon barbatus* (Cavanilles) Roth var. *trichander* (Gray) Keck
- bleaklyi*** O'Kane & Heil [O'Kane & Heil 2014]
- brandegeei* Porter = *Penstemon glaber* Pursh var. *brandegeei* (Porter) Freeman
- breviculus*** (Keck) Nisbet & Jackson [Bleakly 1998; M&H]
- Penstemon jamesii* Bentham subsp. *breviculus* Keck
- bridgesii* Gray = *Penstemon rostriflorus* Kellogg
- bridgesii* Gray var. *rostriflorus* (Kellogg) Schelle = *Penstemon rostriflorus* Kellogg
- buckleyi*** Pennell [Bleakly 1998; M&H]
- Penstemon amplexicaulis* Buckley [1861, not *Penstemon amplexicaulis* Moench, 1794]
- campanulatus* (Cavanilles) Willdenow subsp. *chihuahuensis* Straw : Not known from NM [Hubbard 1999, 2001].
- Penstemon pulchellus* Lindley

- +cardinalis** Wooton & Standley var. **cardinalis** [Bleakly 1998; M&H; W&S]  
*Penstemon crassulus* Wooton & Standley  
*cardinalis* Wooton & Standley subsp. *regalis* (A. Nelson) Nisbet & Jackson = *Penstemon cardinalis* Wooton & Standley var. *regalis* (A. Nelson) C.C. Freeman
- cardinalis** Wooton & Standley var. **regalis** (A. Nelson) C.C. Freeman [Bleakly 1998; M&H]  
*Penstemon cardinalis* Wooton & Standley subsp. *regalis* (A. Nelson) Nisbet & Jackson  
*Penstemon regalis* A. Nelson
- caudatus* Heller = *Penstemon angustifolius* Nuttall subsp. *caudatus* (Heller) Keck
- \*cobaea** Nuttall [Bleakly 1998]
- coloradoensis* A. Nelson = *Penstemon linarioides* Gray subsp. *coloradoensis* (A. Nelson) Keck
- comarrhenus** Gray [Bleakly 1998; M&H; W&S]
- connatifolius* A. Nelson = *Penstemon pseudospectabilis* M.E. Jones var. *connatifolius* (A. Nelson) C.C. Freeman
- crandallii** A. Nelson var. **glabrescens** (Pennell) Nisbet & Jackson [Bleakly 1998; M&H; W&S]  
*Penstemon crandallii* A. Nelson var. *taosensis* (Keck) Nisbet & Jackson  
*Penstemon glabrescens* Pennell  
*Penstemon linarioides* subsp. *taosensis* Keck
- crandallii* A. Nelson var. *taosensis* (Keck) Nisbet & Jackson = *Penstemon crandallii* A. Nelson var. *glabrescens* (Pennell) Nisbet & Jackson
- crassulus* Wooton & Standley = *Penstemon cardinalis* Wooton & Standley subsp. *cardinalis*
- cyananthus* Hooker var. *brandegeei* Porter & Coulter = *Penstemon glaber* Pursh var. *brandegeei* (Porter) Freeman
- cyathophorus* Rydberg : Reported by W&S, but the specimens in question belong to *Penstemon buckleyi* Pennell and *Penstemon fendleri* Torrey & Gray [Hubbard 2001].
- dasyphyllus** Gray [Bleakly 1998; M&H]
- deaveri** Crosswhite [Bleakly 1998; Crosswhite 1967]
- eatonii** Gray [Bleakly 1998; Heil et al. 2002; M&H; W&S]  
*Penstemon eatonii* Gray var. *undosus* M.E. Jones  
*eatonii* Gray var. *undosus* M.E. Jones = *Penstemon eatonii* Gray
- erosus* Rydberg = *Penstemon rydbergii* A. Nelson
- fendleri** Torrey & Gray [Bleakly 1998; M&H; W&S]
- glaber** Pursh var. **alpinus** (Torrey) Gray [Hartman et al. 2006]  
*Penstemon alpinus* Torrey
- glaber** Pursh var. **brandegeei** (Porter ex Rydberg) Freeman [Bleakly 1998; M&H; W&S]  
*Penstemon alpinus* Torrey subsp. *brandegeei* (Porter) Harrington  
*Penstemon brandegeei* Porter ex Rydberg  
*Penstemon cyananthus* Hooker var. *brandegeei* Porter & Coulter  
*glabrescens* Pennell = *Penstemon crandallii* A. Nelson var. *glabrescens* (Pennell) Nisbet & Jackson
- glaucus* R. Graham var. *stenosepalus* Gray = *Penstemon whippleanus* Gray
- gracilis** Nuttall [Bleakly 1998; M&H; W&S]  
*Penstemon pubescens* Solander var. *gracilis* (Nuttall) Gray
- grandiflorus** Nuttall [Bleakly 1998]
- griffinii** A. Nelson [Bleakly 1998; Crosswhite 1965]  
*humilis* Nuttall ex Gray : Reported by W&S, but the specimen in question belongs to *Penstemon jamesii* Bentham [Hubbard 2001].
- +inflatus** Crosswhite [Bleakly 1998; Crosswhite 1965]
- jamesii** Bentham [Bleakly 1998; M&H; W&S]  
*Penstemon similis* A. Nelson  
*jamesii* Bentham subsp. *breviculus* Keck = *Penstemon breviculus* (Keck) Nisbet & Jackson  
*jamesii* Bentham subsp. *ophianthus* (Pennell) Keck = *Penstemon ophianthus* Pennell  
*lacerellus* Greene = *Penstemon rydbergii* A. Nelson
- lanceolatus** Bentham [Anderson et al. 2007; M&H; W&S]

- Penstemon pauciflorus* Greene  
*Penstemon ramosus* Crosswhite
- lentus** Pennell [Bleakly 1998; M&H; Sivinski & Lightfoot 1994]
- linarioides** Gray var. **coloradoensis** (A. Nelson) C.C. Freeman [Bleakly 1998; M&H]  
*Penstemon coloradoensis* A. Nelson  
*Penstemon linarioides* Gray subsp. **coloradoensis** (A. Nelson) Keck
- linarioides** Gray var. **linarioides** [Bleakly 1998; M&H; W&S]  
*linarioides* Gray subsp. **maguirei** Keck = *Penstemon linarioides* Gray var. **maguirei** (Keck) A. Nelson
- linarioides** Gray var. **maguirei** (Keck) A. Nelson [Bleakly 1998; M&H]  
*Penstemon linarioides* Gray subsp. **maguirei** Keck
- linarioides* subsp. **taosensis** Keck = *Penstemon crandallii* A. Nelson var. **glabrescens** (Pennell) Nisbet & Jackson
- metcalfei** Wootton & Standley [Todsén 1998; W&S]  
*Penstemon puberulus* Wootton & Standley [1909] [not M.E. Jones 1908]
- neomexicanus** Wootton & Standley [Bleakly 1998; M&H; W&S]
- oliganthus** Wootton & Standley [Bleakly 1998; M&H; W&S]  
*Penstemon pseudoparvus* Crosswhite
- ophianthus** Pennell [Bleakly 1998; M&H; Sivinski 1998]  
*Penstemon jamesii* Benth. subsp. **ophianthus** (Pennell) Keck
- pachyphyllus* A. Gray ex Rydberg : Reported by Heil et al. (2002), but authentic specimens cannot be found; awaits verification.  
*Penstemon acuminatus* Douglas ex Lindley var. **congestus** M.E. Jones  
*Penstemon pachyphyllus* A. Gray ex Rydberg var. **congestus** (M.E. Jones) N. Holmgren
- pachyphyllus* A. Gray ex Rydberg var. **congestus** (M.E. Jones) N. Holmgren = *Penstemon pachyphyllus* A. Gray ex Rydberg
- \*palmeri** A. Gray [Bleakly 1998; M&H]
- \*parryi** (A. Gray) A. Gray [FNM I]  
*Penstemon puniceus* A. Gray var. **parryi** A. Gray
- parviflorus* Pennell : Kartesz (1999) lists this species as extinct from NM.
- pauciflorus* Greene = *Penstemon lanceolatus* Benth.
- pinifolius** Greene [Bleakly 1998; M&H; W&S]  
*pseudoparvus* Crosswhite = *Penstemon oliganthus* Wootton & Standley
- pseudospectabilis** M.E. Jones var. **connatifolius** (A. Nelson) C.C. Freeman [Bleakly 1998; M&H; W&S]  
*Penstemon connatifolius* A. Nelson  
*Penstemon pseudospectabilis* M.E. Jones subsp. **connatifolius** (A. Nelson) Keck  
*Penstemon spectabilis* Wootton & Standley, not Thurber
- pseudospectabilis* M.E. Jones subsp. **connatifolius** (A. Nelson) Keck = *Penstemon pseudospectabilis* M.E. Jones var. **connatifolius** (A. Nelson) C.C. Freeman
- puberulus* Wootton & Standley = *Penstemon metcalfei* Wootton & Standley
- pubescens* Solander var. **gracilis** (Nuttall) Gray = *Penstemon gracilis* Nuttall
- pulchellus* Lindley = *Penstemon campanulatus* (Cavanilles) Willdenow subsp. **chihuahuensis** Straw
- puniceus* Gray = *Penstemon superbus* A. Nelson
- puniceus* A. Gray var. **parryi** A. Gray = *Penstemon parryi* (A. Gray) A. Gray
- ramosus* Crosswhite = *Penstemon lanceolatus* Benth.
- regalis* A. Nelson = *Penstemon cardinalis* Wootton & Standley var. **regalis** (A. Nelson) C.C. Freeman
- rostriflorus** Kellogg [Bleakly 1998; M&H; W&S]  
*Penstemon bridgesii* Gray  
*Penstemon bridgesii* Gray var. **rostriflorus** (Kellogg) Schelle
- rydbergii** A. Nelson [Bleakly 1998; M&H; W&S]  
*Penstemon erosus* Rydberg  
*Penstemon lacerellus* Greene
- secundiflorus** Benth. [Bleakly 1998; M&H; W&S]  
*Penstemon unilateralis* Rydberg
- similis* A. Nelson = *Penstemon jamesii* Benth.

- spectabilis* Wooton & Standley = *Penstemon pseudospectabilis* M.E. Jones var. *connatifolius* (A. Nelson) C.C. Freeman
- spinulosus* Wooton & Standley [= *Penstemon heterophyllus* Lindley] : Not known from (or no longer present in) NM [Hubbard 1999].
- stenosepalus* (Gray) Howell = *Penstemon whippleanus* Gray
- strictiformis*** Rydberg [Bleakly 1998; M&H; W&S]  
*Penstemon strictus* Bentham subsp. *strictiformis* (Rydberg) Keck
- strictus* Bentham subsp. *strictiformis* (Rydberg) Keck = *Penstemon strictiformis* Rydberg
- strictus*** Bentham [Bleakly 1998; M&H; W&S]
- superbus*** A. Nelson [Bleakly 1998; M&H; W&S]  
*Penstemon puniceus* Gray
- teucroides* Greene : Reported by W&S, but this species is endemic to Colorado; the specimen reported by W&S belongs to *Penstemon crandallii* A. Nelson [Hubbard 2001].
- thurberi*** Torrey [Bleakly 1998; M&H; W&S]  
*Leiostemon thurberi* Greene  
*Penstemon ambiguus* Torrey var. *thurberi* (Torrey) Gray
- torreyi* Bentham = *Penstemon barbatus* (Cavanilles) Roth var. *torreyi* (Bentham) Gray
- trichander* (Gray) Rydberg = *Penstemon barbatus* (Cavanilles) Roth var. *trichander* Gray  
 Keck
- unilateralis* Rydberg = *Penstemon secundiflorus* Bentham
- unilateralis* of NM reports = *Penstemon virgatus* Gray var. *asa-grayi* (Crosswhite) Dorn
- virgatus* Gray subsp. *asa-grayi* Crosswhite = *Penstemon virgatus* Gray var. *asa-grayi* (Crosswhite) Dorn
- virgatus*** Gray var. *asa-grayi* (Crosswhite) Dorn [Bleakly 1998]  
*Penstemon unilateralis* of NM reports (not Rydberg)  
*Penstemon virgatus* Gray subsp. *asa-grayi* Crosswhite
- virgatus*** Gray var. ***virgatus*** [Bleakly 1998; M&H; W&S]
- whippleanus*** Gray [Bleakly 1998; M&H; W&S]  
*Penstemon arizonicus* Heller  
*Penstemon glaucus* R. Graham var. *stenosepalus* Gray  
*Penstemon stenosepalus* (Gray) Howell

***Plantago*** plantain

- Bassett, I.J. 1966. Taxonomy of North American *Plantago* L., section *Micropsyllium* Decne. Can. J. Bot. 44:467-479.
- Bassett, I.J. 1967. Taxonomy of *Plantago* L. in North America: Sections *Holopsyllium*, *Pilger*, *Palaeopsyllium* Pilger, and *Lamprosantha* Decne. Can. J. Bot. 45:565-577.
- McIntosh, L. 1996. Seven additions to the flora of New Mexico. Phytologia 81(5):365-368. [*Plantago bigelovii californica*]
- Rahn, K. 1974. *Plantago* section *Virginica*, a taxonomic revision of a group of American plantains, using experimental, taximetric, and classical methods. Dansk. Bot. Ark. 30:1-178.
- Sivinski, R.C. 1993. Noteworthy collections (New Mexico). Madroño 40:273-274. [*Plantago elongata*]
- Sivinski, R.C. 1997. New plant distribution records. The New Mexico Botanist 5:8. [*Plantago wrightiana*]
- Sivinski, R.C. 2001. The genus *Plantago* (Plantaginaceae) in New Mexico. The New Mexico Botanist 18:1-3.
- Spellenberg, R., M. Mahrt & R. Brozka. 1991. Noteworthy collections, New Mexico. Madroño 38:298-301. [*Plantago virginica*]
- argyraea*** Morris [M&H; Sivinski 2001; W&S]  
*aristata* Michaux : Reported as expected by M&H map; awaits verification.
- bigelovii* Gray subsp. *californica* (Greene) Bassett = *Plantago elongata* Pursh
- californica* Greene = *Plantago elongata* Pursh
- elongata*** Pursh subsp. ***elongata*** [McIntosh 1996; Sivinski 1993; Sivinski 2001]  
*Plantago bigelovii* Gray subsp. *californica* (Greene) Bassett  
*Plantago californica* Greene  
*Plantago myosuroides* Rydberg
- eriopoda*** Torrey [M&H; Sivinski 2001; W&S]
- helleri*** Small [M&H; Sivinski 2001]  
*heterophylla* Nuttall : Reported as expected by M&H map; this seems unlikely in view of the distribution reported by Bassett (1966).
- hirtella* Kunth var. *galeottiana* (Decaisne) Pilger : Reported as expected by M&H; awaits verification.

- \*lanceolata** Linnaeus [M&H; Sivinski 2001; W&S]  
**\*major** Linnaeus [M&H; Sivinski 2001; W&S]  
*myosuroides* Rydberg = *Plantago elongata* Pursh  
*oblonga* Morris = *Plantago patagonica* Jacquin  
**patagonica** Jacquin [M&H; Sivinski 2001; W&S]  
     *Plantago purshii* Roemer & Schultes  
     *Plantago purshii* Roemer & Schultes var. *picta* (Morris) Pilger  
     *Plantago oblonga* Morris  
     *Plantago picta* Morris  
     *Plantago spinulosa* Decaisne  
*picta* Morris = *Plantago patagonica* Jacquin  
*purshii* Roemer & Schultes var. *picta* (Morris) Pilger = *Plantago patagonica* Jacquin  
*purshii* Roemer & Schultes = *Plantago patagonica* Jacquin  
**rhodosperma** Decaisne [M&H; Sivinski 2001]  
*spinulosa* Decaisne = *Plantago patagonica* Jacquin  
**tweedyi** Gray [M&H; Sivinski 2001; W&S]  
**virginica** Linnaeus [Sivinski 2001; Spellenberg et al. 1991]  
**wrightiana** Decaisne [Great Plains Flora Association 1977; Sivinski 1997; Sivinski 2001]
- Schistophragma** spiral-seed  
**intermedium** (Gray) Pennell [M&H; W&S]  
     *Conohea intermedia* Gray
- Synthyris** kitten's-tail  
 Albach, D.C., M. Montserrat Martinez-Ortega, M.A. Fischer, & M.W. Chase. 2004. A new classification of the tribe Veroniceae – problems and a possible solution. *Taxon* 53(2): 429-452.  
 Hufford, L. & M. McMahon. 2004. Morphological evolution and systematics of *Synthyris* and *Besseyia* (Veroniceae): A phylogenetic analysis. *Syst. Bot.* 29(3):716-736.  
 Pennell, F.W. 1933 [1934]. A revision of *Synthyris* and *Besseyia*. *Proc. Acad. Nat. Sci. Philadelphia* 85:77-106.
- alpina** Gray [M&H; W&S]  
     *Besseyia alpina* (Gray) Rydberg  
     *Veronica besseyia* M.M. Martinez-Ortega & Albach
- +oblongifolia** (Pennell) Hufford & McMahon [M&H]  
     *Besseyia oblongifolia* Pennell  
     *Veronica oblongifolia* (Pennell) M.M. Martinez-Ortega & Albach
- plantaginea** (James) Bentham [M&H; W&S]  
     *Besseyia arizonica* Pennell  
     *Besseyia plantaginea* (James) Rydberg  
     *Synthyris plantaginea* (James) Bentham subsp. *arizonica* (Pennell) J.M. Porter, nom. inval.  
     *Veronica plantaginea* James  
*plantaginea* (James) Bentham subsp. *arizonica* (Pennell) J.M. Porter, nom. inval. =  
     *Synthyris plantaginea* (James) Bentham
- Veronica** speedwell, veronica  
 Allred, K.W. 1999. New plant distribution records. *The New Mexico Botanist* 13:7. [*Veronica arvensis*]  
 Pennell, F.W. 1921. "Veronica" in North and South America. *Rhodora* 23:29-41.  
 Walters, S.M. & D.A. Webb. 1972. *Veronica*, pp. 242-251. IN: *Flora Europaea*, vol. 3. Cambridge University Press, England.
- americana** Schweinitz ex Bentham [M&H; W&S]  
**\*anagallis-aquatica** Linnaeus subsp. **anagallis-aquatica** [M&H; W&S]  
     *Veronica micromera* Wooton & Standley  
**\*anagallis-aquatica** Linnaeus subsp. **aquatica** Bernhardt ex Nyman [M&H; W&S]  
     *Veronica catenata* Pennell  
     *Veronica connata* Rafinesque subsp. *glaberrima* Pennell  
**\*arvensis** Linnaeus [Allred 1999]  
*besseyia* M.M. Martinez-Ortega & Albach = *Synthyris alpina* Gray  
*buxbaumii* Tenore = *Veronica persica* Poiret  
*catenata* Pennell = *Veronica anagallis-aquatica* Linnaeus subsp. *aquatica* Bernhardt ex Nyman

- connata* Rafinesque subsp. *glaberrima* Pennell = *Veronica anagallis-aquatica* Linnaeus  
 subsp. *aquatica* Bernhardt ex Nyman  
*humifusa* Dickson = *Veronica serpyllifolia* Linnaeus  
*micromera* Wooton & Standley = *Veronica anagallis-aquatica* Linnaeus subsp. *anagallis-aquatica*  
*oblongifolia* (Pennell) M.M. Martinez-Ortega & Albach = *Synthyris oblongifolia* (Pennell)  
 Hufford & McMahon  
***peregrina*** Linnaeus var. ***xalapensis*** (Kunth) Pennell [M&H; W&S]  
*Veronica xalapensis* Kunth  
**\**persica*** Poiret [M&H; W&S]  
*Veronica buxbaumii* Tenore  
*Veronica tournefortii* K. Gmelin  
*plantaginea* James = *Synthyris plantaginea* (James) Bentham  
**\**polita*** Fries [FNM I]  
**\**serpyllifolia*** Linnaeus [M&H; W&S]  
*Veronica humifusa* Dickson  
*Veronica serpyllifolia* Linnaeus var. *borealis* Laestadius  
*Veronica serpyllifolia* Linnaeus var. *humifusa* (Dickson) Vahl  
*Veronica serpyllifolia* Linnaeus var. *neomexicana* Cockerell  
*Veronica tenella* Allioni  
*serpyllifolia* Linnaeus var. *borealis* Laestadius = *Veronica serpyllifolia* Linnaeus  
*serpyllifolia* Linnaeus var. *humifusa* (Dickson) Vahl = *Veronica serpyllifolia* Linnaeus  
*serpyllifolia* Linnaeus var. *neomexicana* Cockerell = *Veronica serpyllifolia* Linnaeus  
*tenella* Allioni = = *Veronica serpyllifolia* Linnaeus  
*tournefortii* K. Gmelin = *Veronica persica* Poiret  
***wormskjoldii*** Roemer & Schultes [M&H; W&S]  
*xalapensis* Kunth = *Veronica peregrina* Linnaeus var. *xalapensis* (Kunth) Pennell

**Family PLATANACEAE** [1/1/1]

Kaul, R.B. 1997. 1997. Platanaceae, pp. 358-361. IN: Flora North America, Vol. 3. Oxford Univ. Press.

- Platanus*** sycamore  
*racemosa* Nuttall var. *wrightii* (S. Watson) L. Benson = *Platanus wrightii* S. Watson  
***wrightii*** S. Watson [M&H; W&S]  
 Arizona sycamore, aliso  
*Platanus racemosa* Nuttall var. *wrightii* (S. Watson) L. Benson

**Family PLUMBAGINACEAE** [1/1/1]

- Limonium*** sea-lavender  
***limbatum*** Small [M&H; W&S]

**Family POLEMONIACEAE** [11/54/66]

- Cronquist, A. 1984. Polemoniaceae, pp. 86-155. IN: Intermountain Flora, vol. 4. New York Botanical Garden.  
 Grant, V. 1959. Natural History of the Phlox Family, vol. 1, Systematic Botany. M. Nijhoff, The Hague, Netherlands. 280 pp.  
 Grant, V. 1998. Primary classification and phylogeny of the Polemoniaceae, with comments on molecular cladistics. Amer. J. Bot. 85(6):741-752.  
 Johnson, L.A. & J.M. Porter. 2017. Fates of angiosperm species following long-distance dispersal: Examples from American amphitropical Polemoniaceae. Amer. J. Bot. 104(11): 1729-1744.  
 Porter, J.M. & L.A. Johnson. 2000. A phylogenetic classification of Polemoniaceae. Aliso 19(1):55-91.  
 Wilken, D.H. & J.M. Porter. 2005. Vascular Plants of Arizona: Polemoniaceae. Canotia 1: 1-37.  
***Aliciella*** ***aliciella***  
 Heil, K.D., S.L. O'Kane, & A. Clifford. 2002. Additions to the flora of New Mexico from the San Juan Basin Flora project. The New Mexico Botanist 24:1-4. [*Aliciella triodon*]  
 Porter, J.M. 1998. *Aliciella*, a circumscribed genus of Polemoniaceae. Aliso 17(1): 23-46.  
 Porter, J.M. 2011. Two new *Aliciella* species and a new subspecies in *Ipomopsis* (Polemoniaceae) from the western United States of America. Phytotaxa 15:15-25. [*Aliciella cliffordii*]  
 Roth, D., and R. Sivinski. 2018. Status report Aztec gilia (*Aliciella formosa*), San Juan County, New Mexico. Unpublished report prepared by the NM Energy, Minerals, and Natural Resources Department, Forestry Division, Santa Fe NM, for the U.S. Fish & Wildlife Service, Region 2, Albuquerque, NM.

- cliffordii** J.M. Porter [Porter 2011]  
**+formosa** (Greene ex Brand) J.M. Porter [M&H; W&S]  
*Gilia formosa* Greene ex Brand
- haydenii** (A. Gray) J.M. Porter subsp. **haydenii** [M&H; W&S]  
*Gilia haydenii* A. Gray
- haydenii** (A. Gray) J.M. Porter subsp. **crandallii** (Rydberg) J.M. Porter  
*Gilia crandallii* Rydberg  
*Gilia montezumae* Tidestrom & Dayton
- leptomeria** (A. Gray) J.M. Porter [M&H; W&S]  
*Aliciella triodon* (Eastwood) Brand  
*Gilia leptomeria* A. Gray  
*Gilia triodon* Eastwood
- pinnatifida** (Nuttall ex A. Gray) J.M. Porter [M&H; W&S]  
*Gilia calcarea* M.E. Jones  
*Gilia pinnatifida* Nuttall ex A. Gray  
*Gilia viscida* Wooton & Standley
- subnuda** (Torrey ex Gray) J.M. Porter [M&H]  
*Gilia subnuda* Torrey ex Gray  
*Gilia subnuda* Torrey ex Gray subsp. **superba** (Eastwood) Brand  
*triodon* (Eastwood) Brand = *Aliciella leptomeria* (A. Gray) J.M. Porter
- Callisteris collina* Greene = *Ipomopsis aggregata* (Pursh) V. Grant subsp. *collina* (Greene) Wilken & Allard  
*formosissima* Greene = *Ipomopsis aggregata* (Pursh) V. Grant subsp. *formosissima* (Greene) Wherry
- Cantua aggregata* Pursh = *Ipomopsis aggregata* (Pursh) V. Grant subsp. *aggregata*  
*longiflora* Torrey = *Ipomopsis longiflora* (Torrey) V. Grant subsp. *longiflora*  
*pungens* Torrey = *Linanthus pungens* (Torrey) J.M. Porter & L.A. Johnson
- Collomia** mountain-trumpets  
Hsiao, Y.-C. & T.I. Chuang. 1981. Seed coat morphology and anatomy in *Collomia* (Polemoniaceae). Amer. J. Bot. 68(9): 1155-1164.  
Johnson, L.A. & R.L. Johnson. 2006. Morphological delimitation and molecular evidence for allopolyploidy in *Collomia wilkenii* (Polemoniaceae), a new species from northern Nevada. Syst. Bot. 31(2): 349-360.  
Wherry, E.T. 1944. Review of the genera *Collomia* and *Gymnosteris*. Amer. Midl. Naturalist 31:216-231.  
*grandiflora* Douglas ex Lindley : Reported as expected by M&H; awaits verification.  
*Gilia grandiflora* (Douglas ex Lindley) Gray  
*Navarretia grandiflora* (Douglas ex Lindley) Kuntze
- linearis** Nuttall [M&H; W&S]  
*Gilia linearis* (Nuttall) Gray  
*Navarretia linearis* (Nuttall) Kuntze  
*micrantha* Kellogg = *Microsteris gracilis* (Hooker) Greene
- Dactylophyllum aureum* (Nuttall) Heller = *Leptosiphon chrysanthus* J.M. Porter & R. Patterson
- Eriastrum** woolly-star  
DeGroot, S.J. 2016. *Tomus nominum Eriastri*: The nomenclature and taxonomy of *Eriastrum* (Polemoniaceae: Loeselieae). Aliso 34(2): 25-152.  
Harrison, H.K. 1972. Contributions to the study of the genus *Eriastrum*. II. Notes concerning the type specimens and descriptions of the species. Brigham Young University Science Bull. 16(4):1-26.  
Mason, H.L. 1945. The genus *Eriastrum* and the influence of Bentham and Gray upon the problem of generic confusion in Polemoniaceae. Madroño 8: 65-91.
- diffusum** (Gray) Mason subsp. **diffusum** [M&H; W&S]  
*Gilia filifolia* Nuttall var. *diffusa* Gray  
*Eriastrum filifolium* (Nuttall) Wooton & Standley  
*Navarretia filifolia* Kuntze var. *diffusa* (Gray) Brand  
*filifolium* (Nuttall) Wooton & Standley = *Eriastrum diffusum* (Gray) Mason
- Gilia** *gilia*  
Grant, A. & V. Grant. 1956. Genetic and taxonomic studies in *Gilia*. VIII. The cobwebby *gilia*s. Aliso 3(3): 203-287.  
Grant, V. 1964. Genetic and taxonomic studies in *Gilia*. XII. Fertility relationships of the polyploid cobwebby *gilia*s. Aliso 5(4): 479-507.  
Grant, V. 1998. Classification of the genus *Gilia* (Polemoniaceae). Phytologia 84(2):69-86.

- Grant, V. & A. Grant. 1956. Genetic and taxonomic studies in *Gilia*. X. Conspectus of the subgenus *Gilia*. *Aliso* 3(3): 297-300.
- Grant, V. 2004. Taxonomy of the Polemoniaceae: *Gilia* and *Lathrocasis*. *Sida* 21(2): 531-546.
- Grant, V. & D. Wilken. 1986. Taxonomy of the *Ipomopsis aggregata* group (Polemoniaceae). *Bot. Gaz.* 147(3):359-371.
- Heil, K.D., S.L. O'Kane, & A. Clifford. 2002. Additions to the flora of New Mexico from the San Juan Basin Flora project. *The New Mexico Botanist* 24:1-4. [*Gilia capitata*, *Gilia ophthalmoides*]
- Johnson, L.A., K.H. Huish, and J.M. Porter. 2004. Seed surface sculpturing and its systematic significance in *Gilia* (Polemoniaceae) and segregate genera. *Internat. J. Plant Sci.* 165: 153-172.
- Johnson, L.A. 2007. Transfer of the western North American species *Gilia splendens* to *Saltugilia* (Polemoniaceae), and the taxonomic affinities of *Gilia scopulorum*, *Gilia stellata*, and *Gilia yorkii*. *Novon* 17(2): 193-197.
- Soreng, R. 1984. *Ipomopsis pinnata* (Polemoniaceae) in the United States. *Madroño* 31:189-190.
- Sivinski, R.C., T. Lowrey, & R. Peterson. 1994. Additions to the native and adventive flora of New Mexico. *Phytologia* 76(6):473-479. [*Gilia stellata*]
- acerosa* (Gray) Britton = *Giliastrum acerosum* (Gray) Rydberg
- aggregata* (Pursh) Sprengel = *Ipomopsis aggregata* (Pursh) V. Grant
- aggregata* (Pursh) Sprengel subsp. *formosissima* (Greene) Wherry = *Ipomopsis aggregata* (Pursh) V. Grant subsp. *formosissima* (Greene) Wherry
- aggregata* (Pursh) V. Grant var. *texana* (Greene) Shinners = *Ipomopsis aggregata* (Pursh) V. Grant subsp. *formosissima* (Greene) Wherry
- aurea* Nuttall = *Leptosiphon chrysanthum* J.M. Porter & R. Patterson
- bigelovii* Gray = *Linanthus bigelovii* (Gray) Greene
- brachysiphon* Wooton & Standley = *Ipomopsis multiflora* (Nuttall) V. Grant subsp. *brachysiphon* (Wooton & Standley) Wilken
- brandegeei* Gray = *Polemonium brandegeei* (Gray) Greene
- calcareae* M.E. Jones = *Aliciella pinnatifida* (Nuttall ex A. Gray) J.M. Porter
- campylantha* Wooton & Standley = *Ipomopsis pinnata* (Cavanilles) V. Grant
- candida* Rydberg = *Ipomopsis aggregata* (Pursh) V. Grant subsp. *candida* (Rydberg) V. Grant
- candida* Rydberg subsp. *collina* (Greene) Wherry = *Ipomopsis aggregata* (Pursh) V. Grant subsp. *collina* (Greene) Wilken & Allard
- candida* Rydberg forma *vera* Wherry = *Ipomopsis aggregata* (Pursh) V. Grant subsp. *candida* (Rydberg) V. Grant
- \**capitata* Sims subsp. *staminea* (Greene) V. Grant [Heil et al. 2002]
- Gilia staminea* Greene
- clokeyi* Mason [M&H; W&S]
- Gilia inconspicua* of NM reports p.p.
- Gilia ophthalmoides* Brand subsp. *clokeyi* (Mason) A. & V. Grant
- crandallii* Rydberg = *Aliciella haydenii* (A. Gray) J.M. Porter subsp. *crandallii* (Rydberg) J.M. Porter
- crebrifolia* Nuttall = *Ipomopsis congesta* (Hooker) V. Grant subsp. *crebrifolia* (Nuttall) A.G. Day
- filifolia* Nuttall var. *diffusa* Gray = *Eriastrum diffusum* (Gray) Mason
- flavocincta* A. Nelson subsp. *australis* (A. & V. Grant) Day and V. Grant = *Gilia lyndana* Allred
- floribunda* Gray = *Leptosiphon nuttallii* (Gray) J.M. Porter subsp. *nuttallii* (not occurring in NM)
- formosa* Greene ex Brand = *Aliciella formosa* (Greene ex Brand) J.M. Porter
- formosissima* (Greene) Wooton & Standley = *Ipomopsis aggregata* (Pursh) V. Grant subsp. *formosissima* (Greene) Wherry
- gracilis* Hooker = *Microsteris gracilis* (Hooker) Greene
- grandiflora* (Douglas ex Lindley) Gray = *Collomia grandiflora* (Douglas ex Lindley) Gray
- greeneana* Wooton & Standley = *Ipomopsis aggregata* (Pursh) V. Grant subsp. *candida* (Rydberg) V. Grant
- gunnisonii* Torrey & Gray = *Ipomopsis gunnisonii* (Torrey & Gray) V. Grant
- haydenii* A. Gray = *Aliciella haydenii* (A. Gray) J.M. Porter
- incisa* Bentham = *Giliastrum incisum* (Bentham) J.M. Porter
- inconspicua* of NM reports = *Gilia clokeyi* Mason, *Gilia lyndana* Allred, *Gilia mexicana* A.&V. Grant, *Gilia ophthalmoides* Brand
- inconspicua* (J.E. Smith) Sweet var. *sinuata* (Douglas ex Bentham) A. Gray = *Gilia sinuata* Douglas ex Bentham



*floribunda* Gray = *Leptosiphon floribundus* (A. Gray) J.M. Porter & L.A. Johnson  
*laxiflora* (Coulter) Osterhout = *Ipomopsis laxiflora* (Coulter) V. Grant  
*leptomeria* Gray = *Aliciella leptomeria* (A. Gray) J.M. Porter  
*lindheimeriana* Scheele = *Giliastrum incisum* (Benth) J.M. Porter  
*linearis* (Nuttall) Gray = *Collomia linearis* Nuttall

**lyndana** Allred [Grant & Grant 1956; M&H]

*Gilia flavocincta* A. Nelson subsp. *australis* (A. & V. Grant) A. Day and V. Grant

*Gilia inconspicua* of NM reports p.p.

*Gilia ophthalmoides* Brand subsp. *australis* A.D. Grant & V.E. Grant

Not *Gilia australis* (H. Mason & A.D. Grant) V.E. Grant & A.D. Grant

Not *Gilia splendens* Douglas ex H. Mason & A.D. Grant subsp. *australis* H. Mason & A.D. Grant

*longiflora* (Torrey) G. Don = *Ipomopsis longiflora* (Torrey) V. Grant subsp. *longiflora*

*macombii* Torrey ex Gray = *Ipomopsis macombii* (Torrey ex Gray) V. Grant

*macombii* Torrey var. *laxiflora* Coulter = *Ipomopsis laxiflora* (Coulter) V. Grant

**mexicana** A.&V. Grant [M&H]

*Gilia inconspicua* of NM reports p.p.

*montezumae* Tidestrom & Dayton = *Aliciella haydenii* (A. Gray) J.M. Porter subsp.

*crandallii* (Rydberg) J.M. Porter

*multiflora* Nuttall = *Ipomopsis multiflora* (Nuttall) V. Grant

*nuttallii* A. Gray = *Leptosiphon nuttallii* (Gray) J.M. Porter

*ophthalmoides* Brand subsp. *australis* A.D. Grant & V.E. Grant = *Gilia lyndana* Allred

**ophthalmoides** Brand [Heil et al. 2002]

*Gilia inconspicua* of NM reports p.p.

*ophthalmoides* Brand subsp. *clokeyi* (Mason) A. & V. Grant = *Gilia clokeyi* Mason

*perennans* Shinners = *Giliastrum incisum* (Benth) J.M. Porter

*pinnatifida* Nuttall ex A. Gray = *Aliciella pinnatifida* (Nuttall ex A. Gray) J.M. Porter

*polyantha* Rydberg = *Ipomopsis polyantha* (Rydberg) V. Grant; endemic to Colorado

*polycladon* Torrey = *Ipomopsis polycladon* (Torrey) V. Grant

*pringlei* Gray = *Ipomopsis pringlei* (Gray) Henrickson

*pulchella* Douglas ex Benth = *Ipomopsis aggregata* (Pursh) V. Grant subsp. *aggregata*

*pumila* Nuttall = *Ipomopsis pumila* (Nuttall) V. Grant

*pungens* (Torrey) Benth = *Linanthus pungens* (Torrey) J.M. Porter & L.A. Johnson

*rigidula* Benth s.s. = *Giliastrum rigidulum* (Benth) Rydberg

*rigidula* Benth subsp. *acerosa* (Gray) Wherry = *Giliastrum acerosum* (A. Gray) Rydberg

*rigidula* Benth var. *acerosa* Gray = *Giliastrum acerosum* (A. Gray) Rydberg

**sinuata** Douglas ex Benth [M&H]

*Gilia inconspicua* (J.E. Smith) Sweet var. *sinuata* (Douglas ex Benth) A. Gray

*spicata* Nuttall = *Ipomopsis spicata* (Nuttall) V. Grant

*staminea* Greene = *Gilia capitata* Sims subsp. *staminea* (Greene) V. Grant

**stellata** Heller [Sivinski et al. 1994]

*subnuda* Torrey ex Gray subsp. *subnuda* = *Aliciella subnuda* (Torrey ex Gray) J.M. Porter

*subnuda* Torrey ex Gray subsp. *superba* Eastwood = *Aliciella subnuda* (Torrey ex Gray) J.M. Porter

*tenuituba* Rydberg = *Ipomopsis tenuituba* (Rydberg) V. Grant

*texana* (Greene) Wooton & Standley = *Ipomopsis aggregata* (Pursh) V. Grant subsp. *formosissima* (Greene) Wherry

*thurberi* Torrey ex Gray = *Ipomopsis thurberi* (Torrey ex Gray) V. Grant

*triodon* Eastwood = *Aliciella leptomeria* (A. Gray) J.M. Porter

*viscida* Wooton & Standley = *Aliciella pinnatifida* (Nuttall ex A. Gray) J.M. Porter

*wrightii* A. Gray = *Ipomopsis wrightii* (A. Gray) Shinners

## **Giliastrum**

GILIA

Turner, B.L. 1994. Taxonomic overview of *Gilia*, sect. *Giliastrum* (Polemoniaceae) in Texas and Mexico. *Phytologia* 76(1): 52-68.

**acerosum** (A. Gray) Rydberg [M&H; W&S]

*Gilia acerosa* (Gray) Britton

*Gilia rigidula* Benth subsp. *acerosa* (Gray) Wherry

*Gilia rigidula* Benth var. *acerosa* Gray

***incisum*** (Bentham) J.M. Porter [M&H]

*Gilia incisum* Bentham  
*Gilia lindheimeriana* Scheele  
*Gilia perennans* Shinners

***rigidulum*** (Bentham) Rydberg [M&H]

*Gilia rigidula* Bentham

***Ipomopsis*** skyrocket

- Day, A.G. 1980. Nomenclatural changes in *Ipomopsis* (Polemoniaceae). *Madroño* 27(2): 111-112.  
 Fletcher, R. & W.L. Wagner. 1984. A new subspecies of *Ipomopsis longiflora* (Polemoniaceae) from Arizona, New Mexico, and northern Mexico. *Madroño* 31:20-23.  
 Grant, V. & D. Wilken. 1986. Taxonomy of the *Ipomopsis aggregata* group (Polemoniaceae). *Bot. Gaz.* 147(3):359-371.  
 Heil, K.D., S.L. O'Kane, & A. Clifford. 2002. Additions to the flora of New Mexico from the San Juan Basin Flora project. *The New Mexico Botanist* 24:1-4. [*Ipomopsis aggregata aggregata*]  
 Henrickson, J. 1987. New species, combinations, and notes in *Ipomopsis* (Polemoniaceae). *Aliso* 11(4): 589-598.  
 Kearney, T.H. & R.H. Peebles. 1944. *Gilia multiflora* Nutt. and its nearest relatives. *Madroño* 7(2): 59-63.  
 Porter, J.M. 2010. Phylogenetic systematics of *Ipomopsis* (Polemoniaceae): Relationships and divergence times estimated from chloroplast and nuclear DNA sequences. *Syst. Bot.* 35(1): 181-200.  
 Porter, J.M. 2011. Two new *Aliciella* species and a new subspecies in *Ipomopsis* (Polemoniaceae) from the western United States of America. *Phytotaxa* 15:15-25. [*Ipomopsis congesta matthewii*]  
 Shinners, L.H. 1963. *Gilia* and *Ipomopsis* (Polemoniaceae) in Texas. *Sida* 1(3): 171-179.  
 Soreng, R. 1984. *Ipomopsis pinnata* (Polemoniaceae) in the United States. *Madroño* 31:189-190.  
 Wilken, D.H. 2001. A new *Ipomopsis* (Polemoniaceae) from the southwest USA and adjacent Mexico. *Madroño* 48(2):116-122.  
 Wilken, D.H. & R. Fletcher. 1988. *Ipomopsis sancti-spiritus* (Polemoniaceae), a new species from northern New Mexico. *Brittonia* 40(1):48-51.  
 Wilken, D.H. 2019. Reassessment and circumscription of *Ipomopsis multiflora* and *Ipomopsis polyantha* (Polemoniaceae). *Madroño* 66(3): 87-91.

***aggregata*** (Pursh) V. Grant subsp. ***aggregata*** [Heil et al. 2002]

*Cantua aggregata* Pursh  
*Gilia aggregata* (Pursh) Sprengel  
*Gilia pulchella* Douglas ex Bentham

***aggregata*** (Pursh) V. Grant subsp. ***candida*** (Rydberg) V. & A. Grant [Grant & Wilken 1986; M&H; W&S]

*Gilia candida* Rydberg  
*Gilia candida* Rydberg forma *vera* Wherry  
*Gilia greeneana* Wootton & Standley

***aggregata*** (Pursh) V. Grant subsp. ***collina*** (Greene) Wilken & Allard [Grant & Wilken 1986]

*Callisteris collina* Greene  
*Gilia candida* Rydberg subsp. *collina* (Greene) Wherry

***aggregata*** (Pursh) V. Grant subsp. ***formosissima*** (Greene) Wherry [Grant & Wilken 1986; W&S]

*Callisteris formosissima* Greene  
*Gilia aggregata* (Pursh) Sprengel subsp. *formosissima* (Greene) Wherry  
*Gilia aggregata* (Pursh) V. Grant var. *texana* (Greene) Shinners  
*Gilia formosissima* (Greene) Wootton & Standley  
*Gilia texana* (Greene) Wootton & Standley

*Ipomopsis aggregata* (Pursh) V. Grant subsp. *texana* (Greene) Martin & Hutchins ined. [not validly published by M&H]

***aggregata*** (Pursh) V. Grant var. *texana* (Greene) Shinners = *Ipomopsis aggregata* (Pursh) V. Grant subsp. *formosissima* (Greene) Wherry

***aggregata*** (Pursh) V. Grant subsp. *texana* (Greene) Martin & Hutchins ined. [This combination not validly published by M&H; see ICBN, Article 33] = *Ipomopsis aggregata* (Pursh) V. Grant subsp. *formosissima* (Greene) Wherry

*campylantha* (Wootton & Standley) Martin & Hutchins ined. [This combination not validly published by M&H; see ICBN, Article 33] = *Ipomopsis pinnata* (Cavanilles) V. Grant

***congesta*** (Hooker) V. Grant subsp. ***crebrifolia*** (Nuttall) A.G. Day [M&H]

*Gilia crebrifolia* Nuttall  
*Ipomopsis congesta* (Hooker) V. Grant var. *crebrifolia* (Nuttall) A. Gray

- congesta* (Hooker) V. Grant var. *crebrifolia* (Nuttall) A. Gray = *Ipomopsis congesta* (Hooker) V. Grant subsp. *crebrifolia* (Nuttall) A.G. Day
- congesta*** (Hooker) V. Grant subsp. ***matthewii*** J.M. Porter [Porter 2011]
- gunnisonii*** (Torrey & Gray) V. Grant [M&H; W&S]  
*Gilia gunnisonii* Torrey & Gray
- inconspicua* J.E. Smith = *Gilia inconspicua* (J.E. Smith) Sweet
- laxiflora*** (Coulter) V. Grant [M&H; W&S]  
*Gilia laxiflora* (Coulter) Osterhout  
*Gilia macombii* Torrey var. *laxiflora* Coulter
- longiflora*** (Torrey) V. Grant subsp. ***australis*** Fletcher & Wagner [Fletcher & Wagner 1984]
- longiflora*** (Torrey) V. Grant subsp. ***longiflora*** [Fletcher & Wagner 1984; M&H; W&S]  
blue trumpets  
*Cantua longiflora* Torrey  
*Gilia longiflora* (Torrey) G. Don
- longiflora*** (Torrey) V. Grant subsp. ***neomexicana*** Wilken [Wilken 2001]
- macombii*** (Torrey ex Gray) V. Grant [Henrickson 1987; M&H]  
*Gilia macombii* Torrey ex Gray  
*Ipomopsis pringlei* of NM reports
- macombii* Torrey ex A. Gray var. *pringlei* (A. Gray) Brand = *Ipomopsis pringlei* (A. Gray) Henrickson
- multiflora*** (Nuttall) V. Grant subsp. ***brachysiphon*** (Wooton & Standley) Wilken [M&H; W&S; Wilken 2019]  
*Gilia brachysiphon* Wooton & Standley  
*Gilia polyantha* Rydberg var. *brachysiphon* (Wooton & Standley) Kearney & Peebles
- multiflora*** (Nuttall) V. Grant subsp. ***multiflora*** [M&H; W&S; Wilken 2019]  
*Gilia multiflora* Nuttall
- multiflora*** (Nuttall) V. Grant subsp. ***whitingii*** (Kearney & Peebles) Wilken [Wilken 2019]  
*Gilia polyantha* Rydberg var. *whitingii* Kearney & Peebles
- pinnata*** (Cavanilles) V. Grant [M&H; Soreng 1984b; W&S]  
*Gilia campylantha* Wooton & Standley  
*Ipomopsis campylantha* (Wooton & Standley) Martin & Hutchins ined. [not validly published by M&H]  
*Phlox pinnata* Cavanilles
- polyantha* of NM reports = *Ipomopsis multiflora* (Nuttall) V. Grant
- polyantha* Rydberg var. *brachysiphon* (Wooton & Standley) Kearney & Peebles = *Ipomopsis multiflora* (Nuttall) V. Grant subsp. *brachysiphon* (Wooton & Standley) Wilken
- polyantha* Rydberg var. *whitingii* Kearney & Peebles = *Ipomopsis multiflora* (Nuttall) V. Grant subsp. *whitingii* (Kearney & Peebles) Wilken
- polycladon*** (Torrey) V. Grant [M&H]  
*Gilia polycladon* Torrey
- pringlei* (A. Gray) Henrickson : Reported by M&H & W&S, but this is a species of Chihuahua, Mexico; our plants belong to *Ipomopsis macombii* Torrey ex A. Gray [Henrickson 1987].  
*Gilia macombii* Torrey ex A. Gray var. *pringlei* (A. Gray) Brand  
*Gilia pringlei* A. Gray
- pumila*** (Nuttall) V. Grant [M&H; W&S]  
*Gilia pumila* Nuttall
- +***sancti-spiritus*** Wilken & Fletcher [Wilken & Fletcher 1988]
- spicata*** (Nuttall) V. Grant subsp. ***spicata*** [M&H]  
*Gilia spicata* Nuttall
- tenuituba*** (Rydberg) V. Grant subsp. ***tenuituba*** [FNM I]  
*Gilia tenuituba* Rydberg
- thurberi* (Torrey ex Gray) V. Grant : Reported by M&H and W&S, based on erroneous label information for the type collections; no authentic specimens known for the state; awaits verification.

- Gilia thurberi* Torrey ex Gray  
**wrightii** (A. Gray) Shinnery [FNM I]  
*Gilia wrightii* A. Gray  
*Ipomopsis wrightii* (A. Gray) Gould, nomen nudum  
*Leptodactylon brevifolium* Rydberg = *Linanthus pungens* (Torrey) J.M. Porter & L.A. Johnson  
*pungens* (Torrey) Torrey ex Nuttall = *Linanthus pungens* (Torrey) J.M. Porter & L.A. Johnson
- Leptosiphon** desert-trumpets  
 Bell, C.D. & R.W. Patterson. 2000. Molecular phylogeny and biogeography of *Linanthus* (Polemoniaceae). Amer. J. Bot. 87(12): 1857-1870.  
 Hankamp, P., C.D. Bell, & R. Patterson. 2016. Towards and complete species level phylogeny of *Leptosiphon* (Polemoniaceae). Madroño 63(3): 208-219.  
 Patterson, R. 1977. A revision of *Linanthus* Sect. *Siphonella* (Polemoniaceae). Madroño 24:36-48.  
 Porter, J.M. & R.W. Patterson. 2014. A fistful of Polemoniaceae: New names and combinations. Aliso 32(2): 55-88.
- aureus* of NM reports = *Leptosiphon chrysanthus* J.M. Porter & R. Patterson  
**chrysanthus** J.M. Porter & R. Patterson [M&H; W&S]  
*Dactylophyllum aureum* (Nuttall) Heller  
*Gilia aurea* Nuttall  
*Leptosiphon aureus* of NM reports  
*Leptosiphon aureus* (Nuttall) J.M. Porter & L.A. Johnson nom. illeg., non  
*Leptosiphon aureus* Bentham ex E. Vilmorin  
*Linanthus aureus* (Nuttall) Greene  
*floribundus* (A. Gray) J.M. Porter & L.A. Johnson : not occurring in NM; this is a California species.  
*Gilia floribunda* Gray  
*Linanthastrum floribundum* (Gray) Wherry  
*Siphonella floribunda* (Gray) Jepson
- nuttallii** (A. Gray) J.M. Porter [M&H; Patterson 1977]  
*Gilia nuttallii* A. Gray  
*Linanthus nuttallii* (Gray) Greene ex Milligen subsp. *tenuilobus* R. Patterson  
*Linanthastrum floribundum* (Gray) Wherry = *Leptosiphon floribundus* (A. Gray) J.M. Porter & L.A. Johnson  
*nuttallii* of NM authors = *Leptosiphon nuttallii* (A. Gray) J.M. Porter  
*nuttallii* (Gray) Ewan subsp. *floribundum* (Gray) Ewan = *Leptosiphon floribundus* (A. Gray) J.M. Porter & L.A. Johnson
- Linanthus** desert-trumpets  
 Bell, C.D. & R.W. Patterson. 2000. Molecular phylogeny and biogeography of *Linanthus* (Polemoniaceae). Amer. J. Bot. 87(12): 1857-1870.  
 Patterson, R. 1977. A revision of *Linanthus* Sect. *Siphonella* (Polemoniaceae). Madroño 24:36-48.  
*aureus* (Nuttall) Greene = *Leptosiphon chrysanthus* J.M. Porter & R. Patterson  
**bigelovii** (Gray) Greene [M&H; W&S]  
*Gilia bigelovii* Gray  
*floribundus* (Gray) Greene ex Milliken = *Leptosiphon floribundus* (A. Gray) J.M. Porter & L.A. Johnson  
*nuttallii* (Gray) Greene ex Milligen subsp. *tenuilobus* R. Patterson = *Leptosiphon nuttallii* (A. Gray) J.M. Porter  
**pungens** (Torrey) J.M. Porter & L.A. Johnson [M&H]  
 prickly-phlox  
*Cantua pungens* Torrey  
*Gilia pungens* (Torrey) Bentham  
*Leptodactylon pungens* (Torrey) Torrey ex Nuttall  
*Leptodactylon brevifolium* Rydberg
- Microsteris** microsteris  
**gracilis** (Hooker) Greene [M&H; W&S]  
*Collomia micrantha* Kellogg  
*Gilia gracilis* Hooker  
*Microsteris micrantha* (Kellogg) Greene  
*Phlox gracilis* (Hooker) Greene  
*micrantha* (Kellogg) Greene = *Microsteris gracilis* (Hooker) Greene  
*Navarretia filifolia* Kuntze var. *diffusa* (Gray) Brand = *Eriastrum diffusum* (Gray) Mason

*grandiflora* (Douglas ex Lindley) Kuntze = *Collomia grandiflora* Douglas ex Lindley  
*linearis* (Nuttall) Kuntze = *Collomia linearis* Nuttall

**Phlox** phlox

- Cronquist, A. 1984. Polemoniaceae, pp. 86-155. IN: Intermountain Flora, vol. 4. New York Botanical Garden. [*Phlox pulvinata*]  
 Fehlberg, S.D. & C.J. Ferguson. 2012. Intraspecific cytotypic variation and complicated genetic structure in the *Phlox amabilis* – *P. woodhousei* (Polemoniaceae) complex. Amer. J. Bot. 99(5): 865-874.  
 Ladner, J., M.H. Mayfield, L.A. Prather, & C.J. Ferguson. 2017. Polyploidy and genome size variation in *Phlox nana* (Polemoniaceae) from the Pecos plains of New Mexico and the Davis Mountains of west Texas, U.S.A. J. Res. Inst. Texas 11(2): 351-362.  
 Legler, B.S. 2011. *Phlox vermejoensis* (Polemoniaceae), a new species from northern New Mexico, U.S.A. J. Bot. Res. Inst. Texas 5(2):397-403.  
 Locklear, J.H. 2009. Nomenclatural innovations in *Phlox* (Polemoniaceae), with updated circumscription of *P. caespitosa*, *P. douglasii*, *P. missoulensis*, and *P. richardsonii*. J. Bot. Res. Inst. Texas 3(2):645-658.  
 Locklear, J.H. 2011. *Phlox*, A Natural History and Gardener's Guide. Timber Press, Portland, Oregon. 315 pp.  
 Peabody, F.J. 1979. *Phlox longifolia* Nuttall (Polemoniaceae) complex of North America. Great Basin Naturalist 39:1-14.  
 Wherry, E.T. 1955. The genus *Phlox*. Morris Arbor. Monogr. 3.  
 Wherry, E.T. 1965. The genus *Phlox*, ten year after. Bartonica 35: 13-16.  
 Wright, B., L.A. Prather, & C.J. Ferguson. 2016. Polyploidy in *Phlox nana* (Polemoniaceae): diversity and distribution of cytotypes across a desert sky island region of North America. J. Res. Inst. Texas 10(1): 45-63.

**austromontana** Coville [M&H]

*Phlox diffusa* Benth subsp. *subcarinata* of NM reports  
*caespitosa* Nuttall s.s. : not occurring in NM, the name is properly applied to more northern plants; our material referred to *Phlox condensata* (Gray) E. Nelson and  
*Phlox pulvinata* (Wheery) Cronquist

*caespitosa* Nuttall var. *condensata* Gray = *Phlox condensata* (Gray) E. Nelson  
*caespitosa* Nuttall subsp. *pulvinata* Wherry = *Phlox pulvinata* (Wheery) Cronquist

**canescens** Torrey & Gray [M&H; W&S]

*Phlox canescens* Torrey & Gray var. *spinosa* Brand  
*Phlox hoodii* Richardson subsp. *canescens* (Torrey & Gray) Wherry  
*canescens* Torrey & Gray var. *spinosa* Brand = *Phlox canescens* Torrey & Gray

**caryophylla** Wherry [M&H]

*pinnata* Cavanilles = *Ipomopsis pinnata* (Cavanilles) V. Grant

**cluteana** A. Nelson [M&H]

**condensata** (Gray) E. Nelson [Wherry 1955]

*Phlox caespitosa* Nuttall var. *condensata* Gray  
*diffusa* Benth subsp. *subcarinata* of NM reports = *Phlox austromontana* Coville  
*gracilis* (Hooker) Greene = *Microsteris gracilis* (Hooker) Greene  
*grayi* Wooton & Standley = *Phlox longifolia* Nuttall  
*hoodii* Richardson subsp. *canescens* (Torrey & Gray) Wherry = *Phlox canescens* Torrey & Gray

*longifolia* Nuttall subsp. *brevifolia* (Gray) Mason = *Phlox longifolia* Nuttall

*longifolia* Nuttall subsp. *compacta* (Brand) Wherry = *Phlox longifolia* Nuttall

*longifolia* Nuttall subsp. *cortezana* (A. Nelson) Wherry = *Phlox longifolia* Nuttall

*longifolia* Nuttall subsp. *humilis* (Douglas ex Hooker) Wherry = *Phlox longifolia* Nuttall

**longifolia** Nuttall [M&H; Peabody 1979; W&S]

*Phlox cortezana* A. Nelson  
*Phlox grayi* Wooton & Standley  
*Phlox longifolia* Nuttall subsp. *brevifolia* (Gray) Mason  
*Phlox longifolia* Nuttall subsp. *compacta* (Brand) Wherry  
*Phlox longifolia* Nuttall subsp. *cortezana* (A. Nelson) Wherry  
*Phlox longifolia* Nuttall subsp. *humilis* (Douglas) Wherry  
*Phlox longifolia* Nuttall var. *longipes* (M.E. Jones) M.E. Peck  
*Phlox tenuis* Wooton & Standley  
*Phlox viridis* E. Nelson subsp. *compacta* (Brand) Wherry  
*Phlox viridis* E. Nelson subsp. *longipes* (M.E. Jones) Wherry  
*Phlox visenda* A. Nelson

*longifolia* Nuttall var. *longipes* (M.E. Jones) M.E. Peck = *Phlox longifolia* Nuttall

- longifolia* Nuttall var. *stansburyi* (Torrey) A. Gray = *Phlox longifolia* Nuttall  
*mesoleuca* Greene = *Phlox nana* Nuttall  
***multiflora*** A. Nelson [Wherry 1955]  
*Phlox multiflora* A. Nelson var. *depressa* E.E. Nelson  
*multiflora* A. Nelson var. *depressa* E.E. Nelson = *Phlox multiflora* A. Nelson  
***nana*** Nuttall [M&H; W&S]  
*Phlox mesoleuca* Greene  
*Phlox nana* Nuttall subsp. *glabella* (Gray) Brand  
*Phlox nana* Nuttall var. *glabella* Gray  
*Phlox triovulata* Thurber ex Torrey  
*nana* Nuttall subsp. *glabella* (Gray) Brand = *Phlox nana* Nuttall  
*nana* Nuttall var. *glabella* Gray  
***pulvinata*** (Wherry) Cronquist [Cronquist 1984]  
*Phlox caespitosa* Nuttall subsp. *pulvinata* Wherry  
*Phlox variabilis* Brand  
*speciosa* Pursh subsp. *woodhousei* (Torrey ex Gray) Wherry = *Phlox woodhousei* (Torrey ex Gray) E. Nelson  
*speciosa* Pursh var. *woodhousei* Torrey ex Gray = *Phlox woodhousei* (Torrey ex Gray) E. Nelson  
***stansburyi*** (Torrey) Heller [M&H; W&S]  
*Phlox longifolia* Nuttall var. *stansburyi* (Torrey) A. Gray  
*Phlox stansburyi* (Torrey) Heller subsp. *eu-stansburyi* Brand  
*stansburyi* (Torrey) Heller subsp. *eu-stansburyi* Brand = *Phlox longifolia* Nuttall  
*tenuifolia* E.E. Nelson : Reported for NM by Wilken & Porter (2005), but no specimens are known; awaits verification.  
*tenuis* Wooton & Standley = *Phlox longifolia* Nuttall  
*triovulata* Thurber ex Torrey = *Phlox nana* Nuttall  
*variabilis* Brand = *Phlox pulvinata* (Wherry) Cronquist  
+***vermejoensis*** Legler [Legler 2011]  
*viridis* E. Nelson subsp. *compacta* (Brand) Wherry = *Phlox longifolia* Nuttall  
*viridis* E. Nelson subsp. *longipes* (M.E. Jones) Wherry = *Phlox longifolia* Nuttall  
*viscida* E. Nelson : Reported by Wherry (1955), but this species is found in eastern Washington and Oregon and adjacent Idaho, and no verifying specimens from NM have been located.  
*visenda* A. Nelson = *Phlox longifolia* Nuttall  
***woodhousei*** (Torrey ex Gray) E. Nelson [M&H]  
*Phlox speciosa* Pursh var. *woodhousei* Torrey ex Gray  
*Phlox speciosa* Pursh subsp. *woodhousei* (Torrey ex Gray) Wherry  
*Phlox woodhousei* (Torrey ex Gray) E. Nelson var. *oculata* A. Nelson  
*woodhousei* (Torrey ex Gray) E. Nelson var. *oculata* A. Nelson = *Phlox woodhousei* (Torrey ex Gray) E. Nelson
- Polemonium** Jacob's-ladder  
Anway, J.C. 1968. The systematic botany and taxonomy of *Polemonium foliosissimum*. Amer. Midl. Naturalist 79:451-468.  
Davidson, J.F. 1950. The genus *Polemonium*. Univ. Calif. Publ. Bot. 23:209-282.  
Galen, C. & J. Cuba. 2001. Down the tube: Pollinators, predators, and the evolution of flower shape in the alpine skipper, *Polemonium viscosum*. Evolution 55(10): 1963-1971.  
Grant, V. 1989. Taxonomy of the tufted alpine and subalpine polemoniums (Polemoniaceae). Bot. Gaz. 150(2): 158-169.  
Legler, B.S. 2010. Additions to the vascular flora of New Mexico. J. Bot. Res. Inst. Texas 4(2):777-784.  
[*Polemonium occidentale occidentale*]  
*albiflorum* of NM reports = *Polemonium foliosissimum* Gray  
***brandegeei*** (Gray) Greene [M&H; W&S]  
*Gilia brandegeei* Gray  
*Polemonium brandegeei* (Gray) Greene subsp. *mellitum* (Gray) Wherry  
*Polemonium mellitum* Gray  
*Polemonium viscosum* Nuttall subsp. *mellitum* (Gray) Davidson  
*brandegeei* (Gray) Greene subsp. *mellitum* (Gray) Wherry = *Polemonium brandegeei* (Gray) Greene  
*caeruleum* Linnaeus subsp. *occidentale* (Greene) J.F. Davidson = *Polemonium occidentale* Greene

*confertum* of NM reports = *Polemonium viscosum* Nuttall  
*confertum* Gray : Sometimes attributed to NM, but unequivocal plants are unknown; awaits verification.

*Polemonium grayanum* Rydberg

*Polemonium viscosum* Nuttall var. *grayanum* Brand

*delicatum* Rydberg = *Polemonium pulcherrimum* Hooker var. *delicatum* (Rydberg) Cronquist

*filicinum* Greene = *Polemonium foliosissimum* Gray var. *flavum* (Gray) Anway

*flavum* Greene = *Polemonium foliosissimum* Gray var. *flavum* (Gray) Anway

***foliosissimum*** Gray var. ***flavum*** (Gray) Anway [M&H; W&S]

*Polemonium flavum* Greene

*Polemonium filicinum* Greene

***foliosissimum*** Gray var. ***foliosissimum*** [M&H; W&S]

*Polemonium grande* Greene

*Polemonium pterospermum* A. Nelson & Cockerell

***foliosissimum*** Gray var. ***molle*** (Greene) Anway [W&S]

*Polemonium molle* Greene

*grande* Greene = *Polemonium foliosissimum* Gray var. *foliosissimum*

*grayanum* Rydberg = *Polemonium confertum* Gray

*mellitum* Gray = *Polemonium brandegeei* (Gray) Greene

*molle* Greene = *Polemonium foliosissimum* Gray var. *molle* (Greene) Anway

***occidentale*** Greene var. ***occidentale*** [Legler 2010]

*Polemonium caeruleum* Linnaeus subsp. *occidentale* (Greene) J.F. Davidson

***pulcherrimum*** Hooker var. ***delicatum*** (Rydberg) Cronquist [M&H; W&S]

*Polemonium delicatum* Rydberg

*Polemonium scopulinum* Greene

*pterospermum* A. Nelson & Cockerell = *Polemonium foliosissimum* Gray var. *foliosissimum*

*scopulinum* Greene = *Polemonium pulcherrimum* Hooker var. *delicatum* (Rydberg) Cronquist

***viscosum*** Nuttall [M&H; W&S]

sky-pilot

*Polemonium confertum* of NM reports

*viscosum* Nuttall var. *grayanum* Brand = *Polemonium confertum* Gray

*viscosum* Nuttall subsp. *mellitum* (Gray) Davidson = *Polemonium brandegeei* (Gray) Greene

*Siphonella floribunda* (Gray) Jepson = *Leptosiphon floribundus* (A. Gray) J.M. Porter & L.A. Johnson

### Family POLYGALACEAE [4/12/13]

Abbott, J.R. 2011. Notes on the disintegration of *Polygala* (Polygalaceae), with four new genera for the Flora of North America. *J. Bot. Inst. Texas* 5(1): 125-137.

***Hebecarpa*** blunt milkwort

Blake, S.F. 1916. A revision of the genus *Polygala* in Mexico, Central America, and the West Indies. *Contr. Gray Herb. n. ser.* 47:1-122. [*Hebecarpa rectipilis*]

***barbeyana*** (Chodat) J.R. Abbott [M&H; Wendt 1979; Abbott 2011]

*Polygala barbeyana* Chodat

*Polygala longa* Blake

***macradenia*** (A. Gray) J.R. Abbott [M&H; W&S; Abbott 2011]

*Polygala macradenia* A. Gray

***obscura*** (Bentham) J.R. Abbott [M&H; W&S; Abbott 2011]

*Polygala neomexicana* Wootton & Standley

*Polygala obscura* Bentham

*Polygala puberula* A. Gray

+***rectipilis*** (S.F. Blake) J.R. Abbott [Blake 1916; Abbott 2011];

***Monnina*** pygmy-flower

***wrightii*** Gray [M&H; W&S]

**Polygala** milkwort

Blake, S.F. 1916. A revision of the genus *Polygala* in Mexico, Central America, and the West Indies. Contr. Gray Herb. n. ser. 47:1-122.

Wendt, T. 1979. Notes on the genus *Polygala* in the United States and Mexico. J. Arnold Arbor. 60: 504-514.

*acanthoclada* Gray : Reported as expected by M&H; awaits verification.

*alba* Nuttall [M&H; W&S; Abbott 2011]

*barbeyana* Chodat = *Hebecarpa barbeyana* (Chodat) J.R. Abbott

*hemipterocarpa* A.Gray [M&H; W&S; Abbott 2011]

*lindheimeri* A. Gray var. *lindheimeri* = *Rhinotropis lindheimeri* (A. Gray) J.R. Abbott var. *lindheimeri* : Reported as expected by M&H map; awaits verification.

*lindheimeri* A. Gray var. *parvifolia* Wheelock = *Rhinotropis lindheimeri* (A. Gray) J.R.

Abbott var. *parvifolia* (Wheelock) J.R. Abbott

*longa* S.F. Blake = *Hebecarpa barbeyana* (Chodat) J.R. Abbott

*macradenia* Gray = *Hebecarpa macradenia* (A. Gray) J.R. Abbott

*neomexicana* Wooton & Standley = *Hebecarpa obscura* (Benth) J.R. Abbott

*obscura* Benth = *Hebecarpa obscura* (Benth) J.R. Abbott

*ovatifolia* Gray : Reported as expected by M&H map; awaits verification.

*parvifolia* (Wheelock) Wooton & Standley = *Rhinotropis lindheimeri* (A.Gray) J.R. Abbott

var. *parvifolia* (Wheelock) J.R. Abbott

*puberula* Gray = *Hebecarpa obscura* (Benth) J.R. Abbott

*rectipilis* S.F. Blake = *Hebecarpa rectipilis* (S.F. Blake) J.R.Abbott

*rimulicola* Steyermark var. *mescalerorum* Wendt & Todsén = *Rhinotropis rimulicola*

(Steyemark) J.R. Abbott var. *mescalerorum* (Wendt & Todsén) J.R.Abbott

*rimulicola* Steyermark var. *rimulicola* = *Rhinotropis rimulicola* (Steyermark) J.R. Abbott var. *rimulicola*

*sanguinea* Linnaeus [M&H; W&S]

*Polygala sanguinea* Linnaeus forma *viridescens* (Linnaeus) Farwell

*Polygala viridescens* Linnaeus

*sanguinea* Linnaeus forma *viridescens* (Linnaeus) Farwell = *Polygala sanguinea* Linnaeus

*scoparia* sensu W&S = *Polygala scoparioides* Chodat

*scoparioides* Chodat [M&H; W&S]

*Polygala scoparia* sensu W&S

*Polygala scoparia* Kunth var. *multicaulis* Gray

*scoparia* Kunth var. *multicaulis* Gray = *Polygala scoparioides* Chodat

*subspinosa* S. Watson = *Rhinotropis subspinosa* (S. Watson) J.R. Abbott

*tweedyi* Britton = *Rhinotropis lindheimeri* (A. Gray) J.R. Abbott var. *parvifolia* (Wheelock) J.R. Abbott

*viridescens* Linnaeus = *Polygala sanguinea* Linnaeus

**Rhinotropis** beaked milkwort

Blake, S.F. 1916. A revision of the genus *Polygala* in Mexico, Central America, and the West Indies. Contr. Gray Herb. n. ser. 47:1-122.

Todsén, T.K. 1973. Comments on New Mexico flora. Sida 5(2):135. [*Polygala rimulicola*]

Wendt, T. & T.K. Todsén. 1982. A new variety of *Polygala rimulicola* (Polygalaceae) from Dona Ana County, New Mexico. Madroño 29:19-21. [*Polygala rimulicola mescalerorum*]

*lindheimeri* (A. Gray) J.R. Abbott var. *parvifolia* (Wheelock) J.R. Abbott [M&H; W&S; Wendt 1979; Abbott 2011]

*Polygala tweedyi* Britton

*Polygala parvifolia* (Wheelock) Wooton & Standley

+*rimulicola* (Steyermark) J.R. Abbott var. *mescalerorum* (Wendt & Todsén) J.R. Abbott [Wendt & Todsén 1982; Abbott 2011]

*Polygala rimulicola* Steyermark var. *mescalerorum* Wendt & Todsén

*rimulicola* (Steyermark) J.R. Abbott var. *rimulicola* [M&H; Todsén 1973; Abbott 2011]

*Polygala rimulicola* Steyermark var. *rimulicola*

*subspinosa* (S. Watson) J.R. Abbott [M&H; W&S; Abbott 2011]

*Polygala subspinosa* S. Watson

**Family POLYGONACEAE** [10/86/93]

Freeman, C.C. & J.L. Reveal. 2005. Polygonaceae, pp. 216-601. IN: Flora of North America, vol. 5. Oxford University Press.



- Graham, S.A. and C.E. Wood, Jr. 1965. The genera of Polygonaceae in the southeastern United States. *J. Arnold Arbor.* 46:91-121.
- Hernández-Ledesma, P., W.G. Berendsohn, T. Borsch, S. Von Mering, H. Akhani, S. Arias, I. Castañeda-Noa, U. Eggli, R. Eriksson, H. FloresOlvera, S. Fuentes-Bazán, G. Kadereit, C. Klak, N. Korotkova, R. Nyffeler, G. Ocampo, H. Ochoterena, B. Oxelman, R.K. Rabeller, A. Sanchez, B.O. Schlumpberger, & P. Uotila. 2015. A taxonomic backbone for the global synthesis of species diversity in the angiosperm order Caryophyllales. *Willdenowia* 45(3): 281-383.
- Sanchez, A., T.M. Schuster, & K.A. Kron. 2009. A large-scale phylogeny of Polygonaceae based on molecular data. *Int. J. Plant Sci.* 170(8): 1044-1055.
- Schuster, T.M., J.L. Reveal, & K.A. Kron. 2011. Phylogeny of Polygoneae (Polygonaceae: Polygonoideae). *Taxon* 60(6): 1653-1666.
- Bilderdykia convolvulus* (Linnaeus) Dumortier = *Fallopia convolvulus* (Linnaeus) A. Löve
- Bistorta*** bistort  
*bistortoides* (Pursh) Small [M&H; W&S]  
*Polygonum bistortoides* Pursh  
*vivipara* (Linnaeus) S.F. Gray [M&H; W&S]  
*Polygonum viviparum* Linnaeus
- Chorizanthe*** spine-flower  
Reveal, J.L. & C.B. Hardham. 1989. A revision of the annual species of *Chorizanthe* (Polygonaceae: Eriogonoideae). *Phytologia* 66(2):98-196.  
Spellenberg, R., L. McIntosh, & L. Brouillet. 1993. New records of angiosperms from southern New Mexico. *Phytologia* 75:224-230. [*Chorizanthe brevicornu*]  
*brevicornu* Torrey [Spellenberg et al. 1993]
- Eriogonum*** wild-buckwheat  
Heil, K. 2003. New plant distribution reports. *The New Mexico Botanist* 25:7. [*Eriogonum villiflorum*]  
Kempton, E.A. 2012. Systematics of Eriogonoideae s.s. (Polygonaceae). *Syst. Bot.* 37(3): 723-737.  
Legler, B.S. 2010. Additions to the vascular flora of New Mexico. *J. Bot. Res. Inst. Texas* 4(2):777-784. [*Eriogonum arcuatum xanthum*]  
Reveal, J.L. 1976. *Eriogonum* (Polygonaceae) of Arizona and New Mexico. *Phytologia* 34(5):409-484.  
Reveal, J.L. 1989. New combinations and novelties in *Eriogonum* (Polygonaceae: Eriogonoideae). *Phytologia* 66(3):251-265.  
Reveal, J.L. 1989. A checklist of the Eriogonoideae (Polygonaceae). *Phytologia* 66(3):266-294.  
Reveal, J.L. 2005. *Eriogonum*, pp. 221-430. IN: *Flora of North America*, vol. 5. Oxford University Press.  
Reveal, J.L. 2013. *Eriogonum*, pp. 841-855. IN: Heil, K.D., S.L. O’Kane, Jr., L.M. Reeves, & A. Clifford. *Flora of the Four Corners Region*. Missouri Botanical Garden Press.  
Reveal, J. L. & A. Clifford. 2004. A new variety of *Eriogonum lachnogynum* (Polygonaceae: Eriogonoideae). *Phytologia* 86: 160-168.  
Reveal, J.L. & B.J. Ertter. 1977. Re-establishment of *Stenogonum* (Polygonaceae). *Great Basin Naturalist* 36:272-280.  
Sivinski, R.C. 2000. New plant distribution records. *The New Mexico Botanist* 14:4. [*Eriogonum longifolium lindheimeri*]  
Soreng, R. 1984. Noteworthy collections (New Mexico). *Madroño* 31:126. [*Eriogonum hookeri*]  
Spellenberg, R., C. Leiva, & E. P. Lessa. 1988. An evaluation of *Eriogonum densus* (Polygonaceae). *Southw. Naturalist* 33(1):71-80.  
Spellenberg, R., R. Worthington, P. Knight, & R. Fletcher. 1986. Additions to the flora of New Mexico. *Sida* 11(4):455-470.  
Welsh, S.L., N.D. Atwood, S. Goodrich, & L.C. Higgins (eds.). 2003. *A Utah Flora*. 3<sup>rd</sup> ed, revised. Provo, Utah: Brigham Young University Press. [*Eriogonum sarahiae*]  
***abertianum*** Torrey in Emory [M&H; Reveal 2005; W&S]  
*Eriogonum abertianum* Torrey subsp. *pinetorum* (Greene) Stokes  
*Eriogonum abertianum* Torrey subsp. *typicum* Stokes  
*Eriogonum abertianum* Torrey var. *bracteatum* Fosberg  
*Eriogonum abertianum* Torrey var. *neomexicanum* Gandoger  
*Eriogonum abertianum* Torrey var. *ruberrimum* Gandoger  
*Eriogonum abertianum* Torrey var. *villosum* Fosberg  
*Eriogonum cyclosepalum* Greene  
*Eriogonum pinetorum* Greene  
*abertianum* Torrey in Emory var. *cyclosepalum* (Greene) Fosberg = *Eriogonum abertianum* Torrey in Emory  
*abertianum* Torrey subsp. *pinetorum* (Greene) Stokes = *Eriogonum abertianum* Torrey in Emory  
*abertianum* Torrey subsp. *typicum* Stokes = *Eriogonum abertianum* Torrey in Emory  
*abertianum* Torrey var. *bracteatum* Fosberg = *Eriogonum abertianum* Torrey in Emory

- abertianum* Torrey var. *neomexicanum* Gandoger = *Eriogonum abertianum* Torrey in Emory
- abertianum* Torrey var. *ruberrimum* Gandoger = *Eriogonum abertianum* Torrey in Emory
- abertianum* Torrey var. *villosum* Fosberg = *Eriogonum abertianum* Torrey in Emory
- ainsliei* Standley = *Eriogonum lonchophyllum* Torrey & Gray
- alatum*** Torrey var. ***alatum*** [M&H; Reveal 2005; W&S]  
*Eriogonum elatum* Douglas ex Bentham subsp. *triste* (S. Watson) Stokes  
*Eriogonum triste* S. Watson
- alatum*** Torrey var. ***glabriusculum*** Torrey [Reveal 1976, 2005]
- +***aliquantum*** Reveal [Reveal 1976, 2005]
- annuum*** Nuttall [M&H; Reveal 2005; W&S]
- arcuatum*** Greene var. ***arcuatum*** [M&H; Reveal 2005; W&S]  
*Eriogonum bakeri* Greene  
*Eriogonum jamesii* Bentham var. *flavescens* S. Watson
- arcuatum*** Greene var. ***xanthum*** (Small) Reveal [Legler 2010]  
*Eriogonum xanthum* Small
- atrorubens*** Engelmann [M&H; Reveal 2005; W&S]
- bakeri* Greene = *Eriogonum arcuatum* Greene
- brandegeei* Rydberg : Reported by Reveal (1976) and others based on an undated Greene specimen at Iowa State University Herbarium supposedly gathered in northern NM, but which Reveal (2005) now questions as to its provenance; awaits verification.
- capillare*** Small [Reveal 2005; Spellenberg et al. 1993]
- cernuum*** Nuttall [M&H; Reveal 2005; W&S]
- cernuum* Nuttall subsp. *rotundifolium* (Bentham) Stokes = *Eriogonum rotundifolium* Bentham
- clavellatum*** Small [Heil et al. 2002; Reveal 2005]
- corymbosum* Bentham var. *corymbosum* : Reported by M&H as *Eriogonum divergens* Small ("probably western") and by W&S (two localities), but not by Reveal (1976, 2005); W&S's report probably refers to other varieties of this species; needs verification.  
*Eriogonum corymbosum* Bentham var. *divaricatum* Torrey & Gray  
*Eriogonum divergens* Small  
*Eriogonum effusum* Nuttall subsp. *divaricatum* (Torrey & Gray) Stokes
- corymbosum* Bentham var. *divaricatum* Torrey & Gray = *Eriogonum corymbosum* Bentham var. *corymbosum*
- corymbosum*** Bentham var. ***orbiculatum*** (Stokes) Reveal & Brotherson [M&H; Reveal 1976]  
*Eriogonum effusum* Nuttall subsp. *orbiculatum* Stokes
- corymbosum*** Bentham var. ***velutinum*** Reveal [M&H; Reveal 1976, 2005]
- cyclosepalum* Greene = *Eriogonum abertianum* Torrey in Emory
- deflexum*** Torrey var. ***deflexum*** [Reveal 2005]
- deflexum* Torrey var. *hookeri* (S. Watson) Stokes = *Eriogonum hookeri* S. Watson
- densum* Greene = *Eriogonum polycladon* Bentham
- divaricatum*** Hooker [M&H; Reveal 2005; W&S]
- divergens* Small [= *Eriogonum corymbosum* Bentham var. *corymbosum*] : Reported by M&H ("probably western") and by W&S (two localities), but not by Reveal (1976); no specimens are known from NM; awaits verification.
- eastwoodiae* M.E. Jones = *Eriogonum leptocladon* Torrey & Gray var. *papiliunculi* Reveal
- effusum*** Nuttall [M&H; Reveal 2005; W&S]  
*Eriogonum effusum* Nuttall subsp. *typicum* Stokes
- effusum* Nuttall subsp. *divaricatum* (Torrey & Gray) Stokes = *Eriogonum corymbosum* Bentham var. *corymbosum*
- effusum* Nuttall subsp. *leptocladon* (Torrey & Gray) Stokes = *Eriogonum leptocladon* Torrey & Gray var. *papiliunculi* Reveal
- effusum* Nuttall var. *leptophyllum* Torrey = *Eriogonum leptophyllum* (Torrey) Wooton & Standley
- effusum* Nuttall var. *nudicaule* Torrey = *Eriogonum lonchophyllum* Torrey & Gray

- effusum* Nuttall subsp. *orbiculatum* Stokes = *Eriogonum corymbosum* Benth. var. *orbiculatum* (Stokes) Reveal & Brotherson
- effusum* Nuttall subsp. *simpsonii* (Benth.) Stokes = *Eriogonum microthecum* Nuttall var. *simpsonii* (Benth.) Reveal
- effusum* Nuttall subsp. *typicum* Stokes = *Eriogonum effusum* Nuttall
- elatum* Douglas ex Benth. subsp. *triste* (S. Watson) Stokes = *Eriogonum alatum* Torrey in Sitgreaves var. *alatum*
- fendlerianum* (Benth.) Small = *Eriogonum lonchophyllum* Torrey & Gray
- flexum* M.E. Jones = *Stenogonum flexum* (M.E. Jones) Reveal & J.T. Howell
- gordonii*** Benth. [Reveal 1976, 2005]
- +***gypsophilum*** Wooton & Standley [M&H; Reveal 2005; W&S]
- hvardii*** S. Watson [M&H; Reveal 2005; W&S]  
*Eriogonum leucophyllum* Wooton & Standley
- hieracifolium*** Benth. [M&H; Reveal 2005; W&S]  
*Eriogonum pannosum* Wooton & Standley
- hookeri*** S. Watson [Reveal 2005; Soreng 1984]  
*Eriogonum deflexum* Torrey var. *hookeri* (S. Watson) Stokes
- inflatum*** Torrey & Frémont [M&H; Reveal 2005; W&S]
- jamesii* Benth. var. *flavescens* S. Watson = *Eriogonum arcuatum* Greene var. *arcuatum*
- jamesii*** Benth. var. ***jamesii*** [M&H; Reveal 2005; W&S]  
*Eriogonum jamesii* Benth. var. *neomexicanum* Gandoger
- jamesii* Benth. var. *neomexicanum* Gandoger = *Eriogonum jamesii* Benth. var. *jamesii*
- jamesii*** Benth. var. ***undulatum*** (Benth.) Stokes ex M.E. Jones [M&H; Reveal 2005]  
*Eriogonum undulatum* Benth.
- jamesii* Benth. var. *wootonii* Reveal = *Eriogonum wootonii* (Reveal) Reveal
- +***lachnogynum*** Torrey ex Benth. var. ***colobum*** Reveal & Clifford [Reveal & Clifford 2004; Reveal 2005]
- lachnogynum*** Torrey ex Benth. var. ***lachnogynum*** [M&H; Reveal 2005; W&S]
- lachnogynum*** Torrey ex Benth. var. ***sarahiae*** (Atwood & Clifford) Reveal [Welsh et al. 2003; Reveal 2005]  
*Eriogonum sarahiae* Atwood & Clifford
- leptocladon*** Torrey & Gray var. ***papiliunculi*** Reveal [Reveal 1976, 2005]  
*Eriogonum eastwoodiae* M. E. Jones
- leptocladon*** Torrey & Gray var. ***ramosissimum*** (Eastwood) Reveal [M&H; Reveal 2005]  
*Eriogonum ramosissimum* Eastwood
- leptophyllum*** (Torrey) Wooton & Standley [M&H; Reveal 2005; W&S]  
*Eriogonum effusum* Nuttall var. *leptophyllum* Torrey
- leucophyllum* Wooton & Standley = *Eriogonum hvardii* S. Watson
- lonchophyllum* Torrey & Gray var. *fendlerianum* (Benth.) Reveal = *Eriogonum lonchophyllum* Torrey & Gray
- lonchophyllum*** Torrey & Gray [M&H; Reveal 2005; W&S]  
*Eriogonum ainsliei* Standley  
*Eriogonum effusum* Nuttall var. *nudicaule* Torrey  
*Eriogonum fendlerianum* Benth.  
*Eriogonum lonchophyllum* Torrey & Gray var. *fendlerianum* (Benth.) Reveal  
*Eriogonum nudicaule* (Torrey) Small  
*Eriogonum nudicaule* (Torrey) Small subsp. *scoparium* (Small) Stokes  
*Eriogonum nudicaule* (Torrey) Small subsp. *tristichum* (Small) Stokes  
*Eriogonum scoparium* Small  
*Eriogonum tristichum* Small
- lonchophyllum* Torrey & Gray var. *nudicaule* (Torrey) Reveal = *Eriogonum lonchophyllum* Torrey & Gray
- longifolium*** Nuttall var. ***longifolium*** [M&H; Reveal 2005; Sivinski 2000; W&S]  
*Eriogonum longifolium* Nuttall var. *lindheimeri* Gandoger  
*Eriogonum texanum* Scheele
- longifolium* Nuttall var. *lindheimeri* Gandoger = *Eriogonum longifolium* Nuttall
- longilobum* M.E. Jones = *Eriogonum shockleyi* S. Watson

- maculatum** Heller [Reveal 2005; Spellenberg et al. 1993]  
*microthecum* Nuttall var. *foliosum* (Torrey & Gray) Reveal = *Eriogonum microthecum*  
 Nuttall var. *simpsonii* (Benth) Reveal
- microthecum** Nuttall var. *simpsonii* (Benth) Reveal [M&H; Reveal 2005; W&S]  
*Eriogonum effusum* Nuttall subsp. *simpsonii* (Benth) Stokes  
*Eriogonum microthecum* Nuttall var. *foliosum* (Torrey & Gray) Reveal  
*Eriogonum simpsonii* Benth
- nudicaule* (Torrey) Small = *Eriogonum lonchophyllum* Torrey & Gray  
*nudicaule* (Torrey) Small subsp. *scoparium* (Small) Stokes = *Eriogonum lonchophyllum*  
 Torrey & Gray  
*nudicaule* (Torrey) Small subsp. *tristichum* (Small) Stokes = *Eriogonum lonchophyllum*  
 Torrey & Gray
- ovalifolium** Nuttall var. **purpureum** (Nuttall) Durand [M&H; Reveal 2005; W&S]  
*Eucycla purpurea* Nuttall
- palmerianum** Reveal [Reveal 1976, 2005]  
*Eriogonum plumatella* Durand & Hilgard var. *palmeri* Torrey
- pannosum* Wooton & Standley = *Eriogonum hieraciifolium* Benth
- pharnaceoides** Torrey [Reveal 1976, 2005; W&S]  
*pinetorum* Greene = *Eriogonum abertianum* Torrey
- polycladon** Benth [M&H; Reveal 1976; W&S]  
*Eriogonum densum* Greene  
*Eriogonum polycladon* Benth var. *crispum* Gandoger  
*Eriogonum vimineum* Douglas ex Benth subsp. *polycladon* (Benth) Stokes  
*polycladon* Benth var. *crispum* Gandoger = *Eriogonum polycladon* Benth
- racemosum** Nuttall [M&H; Reveal 2005; W&S]  
*ramosissimum* Eastwood = *Eriogonum leptocladon* Torrey & Gray var. *ramosissimum*  
 (Eastwood) Reveal
- rotundifolium** Benth [M&H; Reveal 2005; W&S]  
*Eriogonum cernuum* Nuttall subsp. *rotundifolium* (Benth) Stokes  
*sarahiae* Atwood & Clifford = *Eriogonum lachnogynum* Torrey ex Benth var. *sarahiae*  
 (Atwood & Clifford) Reveal  
*salsuginosum* (Nuttall) Hooker = *Stenogonum salsuginosum* Nuttall
- scabrellum** Reveal [Reveal 2005; Soreng 1984]  
*shockleyi* S. Watson var. *longilobum* (M.E. Jones) Reveal = *Eriogonum shockleyi* S.  
 Watson var. *shockleyi*
- shockleyi** S. Watson [Reveal 1976, 2005]  
*Eriogonum longilobum* M.E. Jones  
*Eriogonum shockleyi* S. Watson var. *longilobum* (M.E. Jones) Reveal  
*shockleyi* S. Watson var. *longilobum* (M.E. Jones) Reveal = *Eriogonum shockleyi* S.  
 Watson
- scoparium* Small = *Eriogonum lonchophyllum* Torrey & Gray  
*simpsonii* Benth = *Eriogonum microthecum* Nuttall var. *simpsonii* (Benth) Reveal
- subreniforme** S. Watson [M&H; Reveal 2005; W&S]
- tenellum** Torrey var. **tenellum** [M&H; Reveal 2005; W&S]  
*texanum* Scheele = *Eriogonum longifolium* Nuttall
- thurberi** Torrey [Reveal 2005]  
*trachyonum* Torrey ex Benth subsp. *wrightii* (Torrey ex Benth) Stokes = *Eriogonum*  
*wrightii* Torrey ex Benth
- trichopes** Torrey [M&H; Reveal 2005; W&S]  
*Eriogonum trichopodum* Torrey ex Benth
- trichopodum* Torrey ex Benth = *Eriogonum trichopes* Torrey  
*triste* S. Watson = *Eriogonum alatum* Torrey in Sitgreaves var. *alatum*  
*tristichum* Small = *Eriogonum lonchophyllum* Torrey & Gray
- umbellatum** Torrey [Reveal 2013]  
*undulatum* Benth = *Eriogonum jamesii* Benth var. *undulatum* (Benth) Stokes ex  
 M.E. Jones
- villiflorum* Gray : Reported by Heil (2003) and Tidestrom & Kittell (1941); Heil's report  
 was based on *Atwood & Clifford 27612*, which has been identified by  
 Reveal as *Eriogonum lachnogynum sarahiae*.

- vimineum* Douglas ex Bentham subsp. *polycladon* (Bentham) Stokes = *Eriogonum polycladon* Bentham
- wetherillii*** Eastwood [M&H; Reveal 2005; W&S]
- +***wootonii*** (Reveal) Reveal [M&H; Reveal 2005]  
*Eriogonum jamesii* Bentham var. *wootonii* Reveal
- wrightii*** Torrey ex Bentham var. ***wrightii*** [M&H; Reveal 2005; W&S]  
*Eriogonum trachygonum* Torrey ex Bentham subsp. *wrightii* (Torrey ex Bentham) Stokes
- xanthum* Small = *Eriogonum arcuatum* Greene var. *xanthum* (Small) Reveal
- Eucycla purpurea* Nuttall = *Eriogonum ovalifolium* Nuttall var. *purpurea* (Nuttall) Durand
- Fagopyrum** buckwheat  
*fagopyrum* (Linnaeus) Karsten = *Fagopyrum esculentum* Moench  
**\**esculentum*** Moench [M&H; W&S]  
*Fagopyrum fagopyrum* (Linnaeus) Karsten  
*Fagopyrum sagittatum* Gilibert  
*Polygonum fagopyrum* Linnaeus  
*sagittatum* Gilibert = *Fagopyrum esculentum* Moench
- Fallopia** black-bindweed  
 Spellenberg, R. 1999. New plant distribution records. The New Mexico Botanist 10:7. [*Fallopia* (as *Polygonum*) *aubertii*]  
*aubertii* (L. Henry) Holub = *Fallopia baldschuanica* (Regel) Holub  
**\**convolvulus*** (Linnaeus) A. Löve [M&H; W&S]  
*Bilderdykia convolvulus* (Linnaeus) Dumortier  
*Polygonum convolvulus* Linnaeus  
**\**baldschuanica*** (Regel) Holub [Spellenberg 1999]  
 mile-a-minute vine  
*Fallopia aubertii* (L. Henry) Holub  
*Polygonum aubertii* L. Henry  
*Polygonum baldschuanicum* Regel
- Gonopyrum americanum* Fischer & Meyer = *Polygonum americanum* (Fischer & Meyer) T.M. Schuster & Reveal
- Oxyria** mountain-sorrel  
***digyna*** (Linnaeus) Hill [M&H; W&S]  
*Rumex digynus* Linnaeus
- Persicaria** smartweed  
 Hinds, H.R. & C.C. Freeman. 2005. *Persicaria*, p. 574-594. IN: Flora of North America, vol. 5. Oxford University Press.  
 Mitchell, R.S. 1971. Comparative leaf structure of aquatic *Polygonum* species. Amer. J. Bot. 58:342-360.  
 Stanford, E.E. 1927. *Polygonum Hydropiper* in Europe and North America. Rhodora 29:77-87.
- amphibia*** (Linnaeus) Delarbre [Hinds & Freeman 2005; M&H; W&S]  
*Persicaria coccinea* (Muhlenberg) Greene  
*Persicaria muhlenbergia* (Meisner) S. Watson  
*Persicaria hartwrightii* (Gray) Greene  
*Polygonum amphibium* Linnaeus  
*Polygonum amphibium* Linnaeus var. *emersum* Michaux  
*Polygonum amphibium* Linnaeus var. *stipulaceum* (Coleman) Fernald  
*Polygonum coccineum* Muhlenberg  
*Polygonum hartwrightii* Gray  
*Polygonum natans* Eaton
- bicornis*** (Rafinesque) Nieuwland [Hinds & Freeman 2005; W&S]  
*Persicaria longistyla* (Small) Small  
*Polygonum bicornis* Rafinesque  
*Polygonum longistylum* Small
- coccinea* (Muhlenberg) Greene = *Persicaria amphibia* (Linnaeus) Delarbre  
*hartwrightii* (Gray) Greene = *Persicaria amphibia* (Linnaeus) Delarbre  
**\**hydropiper*** (Linnaeus) Delarbre [Hinds & Freeman 2005]  
*Polygonum hydropiper* Linnaeus

hydropiperoides (Michaux) Small : Reported as expected or probable by M&H; the documentation in Kartesz (1999, based on Stanford 1927) is inconclusive; awaits verification.

*Polygonum hydropiperoides* Michaux

*incarnata* (Elliott) Small = *Persicaria lapathifolia* (Linnaeus) Delarbre

*muhlenbergia* (Meisner) S. Watson = *Persicaria amphibia* (Linnaeus) Delarbre

***lapathifolia*** (Linnaeus) Delarbre [Hinds & Freeman 2005; M&H; W&S]

*Persicaria incarnata* (Elliott) Small

*Polygonum incarnatum* Elliott

*Polygonum lapathifolium* Linnaeus

*longistyla* (Small) Small = *Persicaria bicornis* (Rafinesque) Nieuwland

\****maculosa*** Gray [Hinds & Freeman 2005; M&H; W&S]

*Persicaria persicaria* (Linnaeus) Small

*Persicaria vulgaris* Webb & Moquin-Tandon

*Polygonum persicaria* Linnaeus

***pensylvanica*** (Linnaeus) M. Gomez [Hinds & Freeman 2005; W&S]

*Polygonum pensylvanicum* Linnaeus

*persicaria* (Linnaeus) Small = *Persicaria maculosa* Gray

***punctata*** (Elliott) Small [Hinds & Freeman 2005; M&H; W&S]

*Polygonum punctatum* Elliott

*vulgaris* Webb & Moquin-Tandon = *Persicaria maculosa* Gray

*Polygonella americana* (Fischer & Meyer) Small = *Polygonum americanum* (Fischer & Meyer)

T.M. Schuster & Reveal

***Polygonum*** knotweed, smartweed

Costea, M. & F.J. Tardif. 2003. Typification, taxonomy, and a new subspecies of *Polygonum sawatchense* (Polygonaceae) from North America. *Sida* 20(4):1631-1640.

Costea, M., F.J. Tardif, & H.R. Hinds. 2005. *Polygonum*, p. 547-571. IN: *Flora of North America*, vol. 5, pt. 2. Oxford University Press, New York.

Great Plains Flora Association. 1977. *Atlas of the Flora of the Great Plains*. Iowa State Univ. Press. 600 pp. [*Polygonum arenastrum*]

Heil, K. & S. O'Kane. 2007. Plant distribution reports. *The New Mexico Botanist* 41:7. [*Polygonum polygaloides kelloggii*]

Hickman, J.C. 1984. Nomenclatural changes in *Persicaria*, *Polygonum*, and *Rumex* (Polygonaceae). *Madroño* 31(4): 249-252.

Horton, J.H. 1963. A taxonomic revision of *Polygonella* (Polygonaceae). *Brittonia* 15:177-203.

McDonald, C.B. 1980. A biosystematic study of the *Polygonum hydropiperoides* (Polygonaceae) complex. *Amer. J. Bot.* 67:664-670.

Mertens, T.R. & P.H. Raven. 1965. Taxonomy of *Polygonum*, section *Polygonum* (*Aviculare*) in North America. *Madroño* 18:85-92.

Mitchell, R.A. 1968. Variation in the *Polygonum amphibium* complex and its taxonomic significance. *Univ. Calif. Publ. Bot.* 45:1-65.

Ronse Decraene, L.P. Akeroyd, J.R. 1988. Generic limits in *Polygonum* and related genera (Polygonaceae) on the basis of floral characters. *Bot. J. Linn. Soc.* 98:321-371.

Schuster, T.M., J.L. Reveal, & K.A. Kron. 2011. Phylogeny of Polygoneae (Polygonaceae: Polygonoideae). *Taxon* 60(6):1653-1666.

Stanford, E.E. 1927. *Polygonum Hydropiper* in Europe and North America. *Rhodora* 29:77-87.

Wolf, S.J. & J. McNeil. 1986. Synopsis and achene morphology of *Polygonum* section *Polygonum* (Polygonaceae) in Canada. *Rhodora* 88:457-479.

***americanum*** (Fischer & Meyer) T.M. Schuster & Reveal [M&H; W&S]

*Gonopyrum americanum* Fischer & Meyer

*Polygonella americana* (Fischer & Meyer) Small

*amphibium* Linnaeus var. *amphibium* = *Persicaria amphibia* (Linnaeus) Delarbre

*amphibium* Linnaeus var. *emersum* Michaux = *Persicaria amphibia* (Linnaeus) Delarbre

*amphibium* Linnaeus var. *stipulaceum* (Coleman) Fernald = *Persicaria amphibia* (Linnaeus) Delarbre

*arenastrum* Jordan ex Boreau = *Polygonum aviculare* Linnaeus

\****argyrocoleon*** Steudel ex Kunze [M&H]

*aubertii* L. Henry = *Fallopia baldschuanica* (Regel) Holub

\****aviculare*** Linnaeus [M&H; W&S]

*Polygonum arenastrum* Jordan ex Boreau

*Polygonum aviculare* Linnaeus subsp. *buxiforme* (Small) Costea & Tardif

*Polygonum aviculare* Linnaeus subsp. *depressum* (Meisner) Arcangeli

- Polygonum aviculare* Linnaeus var. *depressum* Meisner  
*Polygonum buxiforme* Small  
*Polygonum neglectum* Besser  
*aviculare* Linnaeus subsp. *buxiforme* (Small) Costea & Tardif = *Polygonum aviculare* Linnaeus  
*aviculare* Linnaeus subsp. *depressum* (Meisner) Arcangeli = *Polygonum aviculare* Linnaeus  
*aviculare* Linnaeus var. *depressum* Meisner = *Polygonum aviculare* Linnaeus  
*baldschuanicum* Regel = *Fallopia baldschuanica* (Regel) Holub  
 \*bellardii Allioni : Reported for NM by Kartesz (1999), but documentation inconclusive; awaits verification.  
*bicorne* Rafinesque = *Pericaria bicornis* (Rafinesque) Nieuwland  
*bistortoides* Pursh = *Bistorta bistortoides* (Pursh) Small  
*buxiforme* Small = *Polygonum aviculare* Linnaeus  
*caespitosum* Blume var. *longisetum* (deBruyn) A.N. Steward : Reported for NM by Kartesz (1999), but apparently from mistaken data.  
*coccineum* Muhlenberg = *Pericaria amphibia* (Linnaeus) Delarbre  
*confertiflorum* Nuttall ex Piper = *Polygonum kelloggii* Greene  
*convolvulus* Linnaeus = *Fallopia convolvulus* (Linnaeus) A. Löve  
***douglasii*** Greene [M&H; W&S]  
*Polygonum douglasii* Greene var. *latifolium* (Engelmann) Greene  
*Polygonum douglasii* Greene var. *montanum* Small  
*Polygonum montanum* (Small) Greene  
*Polygonum tenue* Michaux var. *latifolium* Engelmann  
*douglasii* Greene subsp. *johnstonii* (Munz) Hickman = *Polygonum sawatchense* Small  
*douglasii* Greene var. *johnstonii* Munz = *Polygonum sawatchense* Small  
*douglasii* Greene var. *latifolium* (Engelmann) Greene = *Polygonum douglasii* Greene  
*douglasii* Greene var. *montanum* Small = *Polygonum douglasii* Greene  
***erectum*** Linnaeus [M&H; W&S]  
*hartwrightii* Gray = *Pericaria amphibia* (Linnaeus) Delarbre  
*hydropiper* Linnaeus = *Pericaria hydropiper* (Linnaeus) Delarbre  
*hydropiperoides* Michaux (= *Pericaria hydropiperoides* (Michaux) Small) : Reported as expected or probable by M&H; the documentation in Kartesz (1999, based on Stanford 1927) is inconclusive; awaits verification.  
*incarnatum* Elliott = *Pericaria lapathifolia* (Linnaeus) Delarbre  
***kelloggii*** Greene [Costea et al. 2005; M&H; W&S]  
*Polygonum confertiflorum* Nuttall ex Piper  
*Polygonum kelloggii* Greene var. *confertiflorum* (Nuttall ex Piper) Dorn  
*Polygonum polygaloides* Wallich ex Meisner subsp. *confertiflorum* (Nuttall ex Piper) Hickman  
*Polygonum polygaloides* Wallich ex Meisner subsp. *kelloggii* (Greene) Hickman  
*Polygonum watsonii* Small  
*kelloggii* Greene var. *confertiflorum* (Nuttall ex Piper) Dorn = *Polygonum kelloggii* Greene  
*lapathifolium* Linnaeus = *Pericaria lapathifolia* (Linnaeus) Delarbre  
*longistylum* Small = *Pericaria bicornis* (Rafinewau) Nieuwland  
*montanum* (Small) Greene = *Polygonum douglasii* Greene  
*natans* Eaton = *Pericaria amphibia* (Linnaeus) Delarbre  
*neglectum* Besser = *Polygonum aviculare* Linnaeus  
*pensylvanicum* Linnaeus = *Pericaria pensylvanica* (Linnaeus) M. Gomez  
*periscaria* Linnaeus = *Pericaria maculosa* Gray  
*polygaloides* Wallich ex Meisner subsp. *confertiflorum* (Nuttall ex Piper) Hickman = *Polygonum kelloggii* Greene  
*polygaloides* Wallich ex Meisner subsp. *kelloggii* (Greene) Hickman = *Polygonum kelloggii* Greene  
*punctatum* Elliott = *Pericaria punctata* (Elliott) Small  
***ramosissimum*** Michaux var. ***prolificum*** Small [Costea et al. 2005]  
*Polygonum ramosissimum* Michaux subsp. *prolificum* (Small) Costea & Tardif  
*ramosissimum* Michaux subsp. *prolificum* (Small) Costea & Tardif = *Polygonum ramosissimum* Michaux var. *prolificum* Small  
***ramosissimum*** Michaux var. ***ramosissimum*** [M&H; W&S]

**sawatchense** Small [M&H; W&S]

*Polygonum douglasii* Greene subsp. *johnstonii* (Munz) Hickman

*Polygonum douglasii* Greene var. *johnstonii* Munz

*viviparum* Linnaeus = *Bistorta vivipara* (Linnaeus) S.F. Gray

*temue* Michaux var. *latifolium* Engelmann = *Polygonum douglasii* Greene

*tomentosum* Willdenow = *Persicaria lapathifolia* (Linnaeus) Delarbre

*watsonii* Small = *Polygonum kelloggii* Greene

**Pterostegia** threadstem

Reveal, J.L. 1989. Remarks on the genus *Pterostegia* (Polygonaceae: Eriogonoideae). *Phytologia* 66(3):228-235. [*Pterostegia drymarioides*]

\**drymarioides* Fischer & C.A. Meyer : Reported tentatively by Reveal (1989) based on a Charles Wright specimen supposedly taken from NM, but now thought to be actually from San Diego, California; no other reports or specimens known; awaits verification.

**Rumex** dock

Allred, K.W. 1998. New plant distribution records. *The New Mexico Botanist* 7:6. [*Rumex pulcher*]  
Mosyakin, S.L. 2005. *Rumex*, pp. 489-533. IN: *Flora of North America*, vol. 5, pt. 2. Oxford University Press, New York.

Rechinger, K.H., Jr. 1937. The North American species of *Rumex*. *Field Mus. Nat. Hist. Bot. Ser. Publ.* 386.

Reveal, J.L. and D.A. Atha. 2010. New combinations and typifications in *Bistorta*, *Persicaria*, *Polygonum* and *Rumex* (Polygonaceae). *Brittonia* 62(3):243-263.

\***acetosella** Linnaeus [M&H; Rechinger 1937; W&S]

sheep sorrel

**altissimus** Wood [M&H; Rechinger 1937; W&S]

*aquaticus* Linnaeus var. *fenestratus* (Greene) Dorn = *Rumex occidentalis* S. Watson

*aquaticus* Linnaeus subsp. *tomentellus* (K.H. Rechinger) Löve = *Rumex tomentellus* K.H. Rechinger

*britannica* sensu W&S = *Rumex patientia* Linnaeus

**californicus** K.H. Rechinger [M&H] Note: Not included for NM by FNA; warrants verification.

*Rumex salicifolius* Weinmann var. *denticulatus* Torrey

*conglomeratus* Murray : Reported as expected by M&H; awaits verification.

\***crispus** Linnaeus subsp. **crispus** [M&H; Rechinger 1937; W&S]

curly dock

*crispus* Linnaeus var. *dentatus* Schur = *Rumex stenophyllus* Ledebour

**densiflorus** Osterhout [M&H; Mosyakin 2005]

*digynus* Linnaeus = *Oxyria digyna* (Linnaeus) Hill

**ellipticus** Greene [M&H; Mosyakin 2005; W&S]

*Rumex altissimus* Wood subsp. *ellipticus* (Greene) A. Love

**fueginus** Philippi [Rechinger 1937; M&H; Mosyakin 2005]

*Rumex maritimus* of NM reports

*Rumex maritimus* Linnaeus var. *fueginus* (Philippi) Dusen

*Rumex persicarioides* of NM reports

*hastatulus* Baldwin : Reported by M&H and Rechinger (1937), but our plant belong to

*Rumex acetosella* Linnaeus; no authentic *R. hastatulus* Baldwin is known from the state.

**hymenosepalus** Torrey [M&H; Rechinger 1937; W&S]

cañaigre

*maritimus* Linnaeus var. *fueginus* (Philippi) Dusen = *Rumex fueginus* Philippi

*maritimus* of NM reports = *Rumex fueginus* Philippi

**mexicanus** Meisner [M&H; Rechinger 1937; W&S]

*Rumex salicifolius* Weinmann var. *mexicanus* (Meisner) C.L. Hitchcock

**nematopodus** K.H. Rechinger [M&H]

\***obtusifolius** Linnaeus [M&H; Rechinger 1937; W&S]

**occidentalis** S. Watson [M&H; Rechinger 1937; W&S]

*Rumex aquaticus* Linnaeus var. *fenestratus* (Greene) Dorn

*obtusifolius* Linnaeus var. *cristatus* Neilreich = *Rumex stenophyllus* Ledebour

*occidentalis* S. Watson var. *tomentellus* (K.H. Rechinger) Reveal = *Rumex tomentellus* K.H. Rechinger



- orthoneurus** K.H. Rechinger [M&H; Mosyakin 2005]  
*patientia* Linnaeus : Reported by W&S and Tidestrom & Kittell (1941), based on Blumer 115 from near Ft. Bayard; the specimen (NY) was identified as *Rumex stenophyllus* Ledebour by J.E. Dawson (in 1978)  
*Rumex britannica* sensu W&S  
*persicarioides* of NM reports = *Rumex fueginus* Philippi
- \***pulcher** Linnaeus [Allred 1998]  
*salicifolius* Weinmann var. *denticulatus* Torrey = *Rumex californicus* K.H. Rechinger  
*salicifolius* Weinmann var. *mexicanus* (Meisner) C.L. Hitchcock = *Rumex mexicanus* Meisner  
*salicifolius* Weinmann subsp. *triangulivalvis* Danser = *Rumex triangulivalvis* (Danser) K.H. Rechinger  
*salicifolius* Weinmann var. *triangulivalvis* (Danser) Hickman = *Rumex triangulivalvis* (Danser) K.H. Rechinger
- \***stenophyllus** Ledebour [Allred 2005; Mosyakin 2005]  
*Rumex crispus* Linnaeus var. *dentatus* Schur  
*Rumex obtusifolius* Linnaeus var. *cristatus* Neilreich  
*Rumex patientia* of NM reports
- +**tomentellus** K.H. Rechinger [M&H; Mosyakin 2005]  
*Rumex aquaticus* Linnaeus subsp. *tomentellus* (K.H. Rechinger) Löve  
*Rumex occidentalis* S. Watson var. *tomentellus* (K.H. Rechinger) Reveal
- triangulivalvis** (Danser) K.H. Rechinger [Mosyakin 2005]  
*Rumex salicifolius* Weinmann subsp. *triangulivalvis* Danser  
*Rumex salicifolius* Weinmann var. *triangulivalvis* (Danser) Hickman
- venosus** Pursh [M&H]  
*verticillatus* Linnaeus : Reported by M&H, but no specimens are known and not listed for NM by FNA; awaits verification.
- violascens** K.H. Rechinger [M&H; Rechinger 1937]
- Stenogonum** wild-buckwheat  
 Reveal, J.L. & B.J. Ertter. 1977. Re-establishment of *Stenogonum* (Polygonaceae). Great Basin Naturalist 36:272-280.  
 Spellenberg, R., R. Worthington, P. Knight, & R. Fletcher. 1986. Additions to the flora of New Mexico. Sida 11(4):455-470. [*Stenogonum flexum*]
- flexum** (M.E. Jones) Reveal & J.T. Howell [Spellenberg et al. 1986]  
*Eriogonum flexum* M.E. Jones
- salsuginosum** Nuttall [M&H; W&S]  
*Eriogonum salsuginosum* (Nuttall) Hooker

### Family PORTULACACEAE [1/6/8]

- Hernández-Ledesma, P., W.G. Berendsohn, T. Borsch, S. Von Mering, H. Akhiani, S. Arias, I. Castañeda-Noa, U. Eggli, R. Eriksson, H. FloresOlvera, S. Fuentes-Bazán, G. Kadereit, C. Klak, N. Korotkova, R. Nyffeler, G. Ocampo, H. Ochoterena, B. Oxelman, R.K. Rabeler, A. Sanchez, B.O. Schlumpberger, & P. Uotila. 2015. A taxonomic backbone for the global synthesis of species diversity in the angiosperm order Caryophyllales. *Willdenowia* 45(3): 281-383.
- Judd, W.S., C.S. Campbell, E.A. Kellogg, P.F. Stevens, & M.J. Donoghue. 2016. *Plant Systematics: A Phylogenetic Approach*, 4th ed. Sinauer Associates, Inc., Sunderland, Massachusetts. 677 pp.
- Nyffeler, R. & U. Eggli. 2010. Disintegrating Portulacaceae: A new familial classification of the suborder Portulacaceae (Caryophyllales) based on molecular and morphological data. *Taxon* 59(1):227-240.
- Ocampo, G. & J.T. Columbus. 2010. Molecular phylogenetics of suborder Cactineae (Caryophyllales), including insights into photosynthetic diversification and historical biogeography. *Amer. J. Bot.* 97(11): 1827-1847.
- Packer, J.G. 2003. Portulacaceae, pp. 457-504. IN: *Flora of North America*, vol. 4, pt. 1. Oxford University Press, New York.
- Soltis, D.E., S.A. Smith, N. Cellinese, K.J. Wurdack, DC. Tank, S.F. Brockington, N.F. Refulio-Rodriguez, J.B. Walker, M.J. Moore, B.S. Carlswald, C.D. Bell, M. Latvis, S. Crawley, C. Black, D. Djouf, Z. Xi, C.A. Rushworth, M.A. Gitzendanner, K.J. Sytsma, Y.-L. Qiu, K.W. Hilu, C.C. Davis, M.J. Sanderson, R.S. Beaman, R.G. Olmstead, W.S. Judd, M.J. Donoghue, & P.S. Soltis. 2011. Angiosperm phylogeny: 17 genes, 640 taxa. *Amer. J. Bot.* 98(4): 704-730.

Note: Nyffeler & Eggli (2010) summarize recent molecular conclusions that traditional Portulacaceae comprise several separate lineages, each of which should be treated as a distinct family. Below are the current dispositions and relationships of the various genera:

Anacamperotaceae: *Talinopsis*.

Montiaceae: *Calandrinia*, *Calyptridium*, *Claytonia*, *Lewisia*, *Montia*, *PheMERanthus*.

Portulacaceae s.s.: *Portulaca*.

Talinaceae: *Talinum*.

*Calandrinia*...go to MONTIACEAE

*Calyptridium*...go to MONTIACEAE

*Claytonia*...go to MONTIACEAE

*Crunocallis*...go to MONTIACEAE

*Lewisia*...go to MONTIACEAE

*Limnia*...go to MONTIACEAE

*Montia*...go to MONTIACEAE

*Oreobroma*...go to MONTIACEAE

*PheMERanthus*...go to MONTIACEAE

**Portulaca** purslane

Danin, Auinoam, I. Baker, & H. Baker. 1978. Cytogeography and taxonomy of the *Portulaca oleracea* L. polyploid complex. Israel J. Bot. 27:177-211.

Matthews, J.F. 2003. *Portulaca*, pp. 496-501. IN: Flora of North America, vol. 4, pt. 1. Oxford University Press, New York.

Matthews, J.F. & D.W. Ketron. 1991. Two new combinations in *Portulaca* (Portulacaceae). Castanea. 56(4): 304-305.

Matthews, J.F., D.W. Ketron, & S.F. Zane. 1992. The reevaluation of *Portulaca pilosa* and *P. mundula* (Portulacaceae). Sida 15:71-89.

Matthews, J.F., D.W. Ketron, & S.F. Zane. 1992. *Portulaca umbraticola* Kunth (Portulacaceae) in the United States. Castanea 57(3): 202-208.

Matthews, J.F., D.W. Ketron, & S.F. Zane. 1993. The biology and taxonomy of the *Portulaca oleracea* L. (Portulacaceae) complex in North America. Rhodora 95(882): 166-183.

*coronata* Small = *Portulaca umbraticola* Kunth subsp. *lanceolata* (Engelmann) Matthews

*fruticosa* Linnaeus = *Talinum fruticosum* (Linnaeus) Jussieu

\**grandiflora* Hooker [Matthews 2003]

*halimoides* Linnaeus [M&H; Matthews 2003; W&S]

*Portulaca parvula* Gray

*lanceolata* Engelmann = *Portulaca umbraticola* Kunth subsp. *lanceolata* (Engelmann) Matthews

*mundula* I.M. Johnston = *Portulaca pilosa* Linnaeus

\**oleracea* Linnaeus subsp. *impolita* Danin & H.G. Baker [Danin et al. 1978]

\**oleracea* Linnaeus subsp. *oleracea* [M&H; Matthews 2003; W&S]

*Portulaca retusa* Engelmann

\**oleracea* Linnaeus subsp. *papillito-stellulata* Danin & H.G. Baker [Danin et al. 1978]

*paniculata* Jacquin = *Talinum paniculatum* (Jacquin) Gaertner

*parvula* Gray = *Portulaca halimoides* Linnaeus

*pilosa* Linnaeus [M&H; Matthews 2003; W&S]

*Portulaca mundula* I.M. Johnston

*retusa* Engelmann = *Portulaca oleracea* Linnaeus subsp. *oleracea*

*suffrutescens* Engelmann [M&H; Matthews 2003; W&S]

*umbraticola* Kunth subsp. *lanceolata* (Engelmann) Matthews [M&H; Matthews 2003; W&S]

*Portulaca coronata* Small

*Portulaca lanceolata* Engelmann

*Talinopsis*...go to ANACAMPSEROTACEAE

*Talinum*...go to TALINACEAE

## Family PRIMULACEAE [2/9/9]

[Myrsinaceae, Theophrastaceae]

Cholewa, A.F. 1992. Primulaceae. J. Ariz.-Nev. Acad. Sci. 26(1):17-21.

Cholewa, A.F. 2009. Theophrastaceae, p. 251-256. IN: Flora of North America, vol. 8. Oxford University Press.

Cholewa, A.F. & S. Kelso. 2009. Primulaceae, p. 257-301. IN: Flora of North America, vol. 8. Oxford University Press, New York.

Cholewa, A.F., J.J. Pipoly III, & J.M. Ricketson. 2009. Myrsinaceae, p. 302-321. IN: Flora of North America, vol. 8. Oxford University Press.

*Anagallis arvensis* Linnaeus subsp. *arvensis* = *Lysimachia arvensis* (Linnaeus) U. Manns & Anderberg

- minima* (Linnaeus) Krause = *Lysimachia minima* (Linnaeus) U. Manns & Anderberg
- Androsace** rock-jasmine
- Kelso, S. 2009. *Androsace*, p. 259-263. IN: Flora of North America, vol. 8. Oxford University Press, New York.
- Robbins, G.T. 1944. North American species of *Androsace*. Amer. Midl. Naturalist 32:137-163.
- Wooton, E.O. & P.C. Standley. 1907. The genus *Androsace* in New Mexico. Bull. Torrey Bot. Club 34:517-520.
- arizonica* Gray = *Androsace occidentalis* Pursh
- carinata* Torrey = *Androsace chamaejasme* Wulfen subsp. *lehmanniana* (Sprengel) Hultén
- chamaejasme* Wulfen subsp. *carinata* (Torrey) Hultén = *Androsace chamaejasme* Wulfen subsp. *lehmanniana* (Sprengel) Hultén
- chamaejasme*** Wulfen subsp. ***lehmanniana*** (Sprengel) Hultén [Kelso 2009; M&H; W&S]
- Androsace carinata* Torrey
- Androsace chamaejasme* Wulfen subsp. *carinata* (Torrey) Hultén
- Drosace carinata* (Torrey) A. Nelson
- diffusa* Small = *Androsace septentrionalis* Linnaeus
- glandulosa* Wooton & Standley = *Androsace septentrionalis* Linnaeus
- occidentalis*** Pursh [Kelso 2009; M&H; W&S]
- Androsace arizonica* Gray
- Androsace occidentalis* Pursh var. *arizonica* (Gray) St. John
- Androsace platysepala* Wooton & Standley
- occidentalis* Pursh var. *arizonica* (Gray) St. John = *Androsace occidentalis* Pursh
- pinetorum* Greene = *Androsace septentrionalis* Linnaeus
- platysepala* Wooton & Standley = *Androsace occidentalis* Pursh
- puberulenta* Rydberg = *Androsace septentrionalis* Linnaeus
- septentrionalis*** Linnaeus [Kelso 2009; M&H; W&S]
- Androsace diffusa* Small
- Androsace glandulosa* Wooton & Standley
- Androsace pinetorum* Greene
- Androsace puberulenta* Rydberg
- Androsace septentrionalis* Linnaeus var. *glandulosa* (Wooton & Standley) St. John
- Androsace septentrionalis* Linnaeus var. *puberulenta* (Rydberg) Knuth
- Androsace septentrionalis* Linnaeus var. *subulifera* Gray
- Androsace septentrionalis* Linnaeus var. *subumbellata* A. Nelson
- Androsace subulifera* (Gray) Greene
- Androsace subumbellata* (A. Nelson) Small
- septentrionalis* Linnaeus var. *glandulosa* (Wooton & Standley) St. John = *Androsace septentrionalis* Linnaeus
- septentrionalis* Linnaeus var. *puberulenta* (Rydberg) Knuth = *Androsace septentrionalis* Linnaeus
- septentrionalis* Linnaeus var. *subulifera* Gray = *Androsace septentrionalis* Linnaeus
- septentrionalis* Linnaeus var. *subumbellata* A. Nelson = *Androsace septentrionalis* Linnaeus
- subulifera* (Gray) Greene = *Androsace septentrionalis* Linnaeus
- subumbellata* (A. Nelson) Small = *Androsace septentrionalis* Linnaeus
- Centunculus minimus* Linnaeus = *Lysimachia minima* (Linnaeus) U. Manns & Anderberg
- Dodecatheon ellisiae* Standley = *Primula standleyana* Mast & Reveal
- dentatum* Hooker subsp. *ellisiae* (Standley) H.J. Thompson = *Primula standleyana* Mast & Reveal
- dentatum* Hooker var. *ellisiae* (Standley) N. Holmgren = *Primula standleyana* Mast & Reveal
- pulchellum* (Rafinesque) Merrill = *Primula pauciflora* (Greene) Mast & Reveal
- radicatum* Greene = *Primula pauciflora* (Greene) Mast & Reveal
- Drosace carinata* (Torrey) A. Nelson = *Androsace chamaejasme* Wulfen subsp. *carinatus* (Torrey) Hultén
- Exinia pulchella* Rafinesque = *Primula pauciflora* (Greene) Mast & Reveal
- Glaxa maritima* Linnaeus = *Lysimachia maritima* (Linnaeus) Galasso, Banfi, & Soldano
- Lysimachia*** yellow-loosestrife

- Anderberg, A.A., U. Manns, & M. Källersjö. 2007. Phylogeny and floral evolution of the Lysimachieae (Ericales, Myrsinaceae): Evidence from *ndhF* sequence data. *Willdenowia* 37: 407–421.
- Banfi, E., G. Galasso, & A. Soldano. 2005. Notes on systematics and taxonomy for the Italian vascular flora 1. *Atti Soc. Ital. Sci. Nat. Mus. Vivico storia Nat. Milano* 146: 219–244.
- Cholewa, A.F. 2009. *Anagallis*, p. 305-308. IN: *Flora of North America*, vol. 8. Oxford University Press.
- Cholewa, A.F. 2009. *Anagallis*, p. 305-308. IN: *Flora of North America*, vol. 8. Oxford University Press.
- Cholewa, A.F. 2009. *Lysimachia*, p. 308-318. IN: *Flora of North America*, vol. 8. Oxford University Press.
- Cholewa, A.F. 2014. *Lysimachia latifolia* (Myrsinaceae), an overlooked nomenclatural change. *Phytoneuron* 2014-28:1-2.
- Coffey, V.J. & S.B. Jones, Jr. 1980. Biosystematics of *Lysimachia* section *Seleucia* (Primulaceae). *Brittonia* 32(3):309-322.
- Källersjö, M., G. Bergqvist, & A.A. Anderberg. 2000. Generic realignment in primuloid families of the Ericales s.l.: A phylogenetic analysis based on DNA sequences from three chloroplast genes and morphology. *Amer. J. Bot.* 87: 1324–1341.
- Manns, U. & A.A. Anderberg. 2005. Molecular phylogeny of *Anagallis* (Myrsinaceae) based on ITS, *trnL-F*, and *ndhF* sequence data. *Int. J. Pl. Sci.* 166: 1019–1028.
- Manns, U. & A.A. Anderberg. 2007. Character evolution in *Anagallis* (Myrsinaceae), inferred from morphological and molecular data. *Syst. Bot.* 32: 166–179.
- Manns, U. & A.A. Anderberg. 2009. New combinations and names in *Lysimachia* (Myrsinaceae) for species of *Anagallis*, *Pelletiera* and *Trientalis*. *Willdenowia* 39: 49–54.
- Martins, L., C. Oberprieler, & F.H. Hellwig. 2003. A phylogenetic analysis of Primulaceae s.l. based on internal transcribed spacer (ITS) DNA sequence data. *Pl. Syst. Evol.* 237: 75–85.
- Reeves, T. 2000. New plant distribution records. *The New Mexico Botanist* 16:7. [*Lysimachia maritima*]  
**\*arvensis** (Linnaeus) U. Manns & Anderberg [Cholewa 2009; M&H; W&S]  
*Anagallis arvensis* Linnaeus  
**ciliata** Linnaeus [Cholewa 2009; M&H; W&S]  
*Steironema ciliatum* (Linnaeus) Rafinesque  
*ciliata* Linnaeus var. *validula* (Greene) Kearney & Peebles = *Lysimachia hybrida* Michaux  
**hybrida** Michaux [Cholewa 2009; Coffey & Jones 1980; M&H; W&S]  
*Lysimachia ciliata* Linnaeus var. *validula* (Greene) Kearney & Peebles  
*Steironema validulum* Greene  
**maritima** (Linnaeus) Galasso, Banfi, & Soldano [Cholewa 2009; Reeves 2000]  
*Glaux maritima* Linnaeus  
**minima** (Linnaeus) U. Manns & Anderberg [Cholewa 2009; M&H]  
*Anagallis minima* (Linnaeus) Krause  
*Centunculus minimus* Linnaeus

**Primula** primrose

- Holmgren, N.H. 1994. Redefinition of *Dodecatheon dentatum* (Primulaceae) and rationale for use of varietal rank. *Brittonia* 46(2):87-94.
- Kelso, S. 2009. *Primula*, p. 286-301. IN: *Flora of North America*, vol. 8. Oxford University Press, New York.
- Kelso, S., P.M. Beardsley, & K. Weitemier. 2009. Phylogeny and biogeography of *Primula* sect. *Parryi* (Primulaceae). *International Journal of Plant Sciences*, 170(1): 93-106.
- Mast, A.R. & J.L. Reveal. 2007. Transfer of *Dodecatheon* to *Primula* (Primulaceae). *Brittonia* 59(1):79-82.
- Reveal, J.L. 2009. *Dodecatheon*, p. 268-286. IN: *Flora of North America*, vol. 8. Oxford University Press, New York.
- angustifolia** Torrey [Kelso 2009; M&H; W&S]  
*Primula angustifolia* Torrey var. *helenae* Pollard & Cockerell  
*angustifolia* Torrey var. *helenae* Pollard & Cockerell = *Primula angustifolia* Torrey  
*ellisiae* Pollard & Cockerell = *Primula rusbyi* Greene  
**parryi** Gray [Kelso 2009; M&H; W&S]  
**pauciflora** (Greene) Mast & Reveal [M&H; Mast & Reveal 2009; W&S]  
shooting-star  
*Dodecatheon pauciflorum* Greene  
*Dodecatheon pulchellum* (Rafinesque) Merrill (non *Primula pulchella* Franchet)  
*Dodecatheon radicatum* Greene  
*Exinia pulchella* Rafinesque  
**rusbyi** Greene [Kelso 2009; M&H; W&S]  
*Primula ellisiae* Pollard & Cockerell [not *Dodecatheon ellisiae* (= *Primula standleyana* A.R. Mast & Reveal)]  
*Primula rusbyi* Greene var. *ellisiae* (Pollard & Cockerell) L.O. Williams  
*rusbyi* Greene var. *ellisiae* (Pollard & Cockerell) L.O. Williams = *Primula rusbyi* Greene  
**standleyana** A.R. Mast & Reveal [Holmgren 1994; M&H; Mast & Reveal 2009; W&S]

shooting-star

*Dodecatheon dentatum* Hooker subsp. *ellisiae* (Standley) H.J. Thompson  
*Dodecatheon dentatum* Hooker var. *ellisiae* (Standley) N. Holmgren  
*Dodecatheon ellisiae* Standley (non *Primula ellisiae* Pollard & Cockerell)

**Samolus** brookweed

Cholewa, A.F. 2009. *Samolus*, pp. 254-256. IN: Flora of North America, vol. 8. Oxford University Press.  
 Henrickson, J. 1983. A revision of *Samolus ebracteatus* (sensu lato) (Primulaceae). Southw. Naturalist 28(3):303-314.

*cuneatus* Small = *Samolus ebracteatus* Kunth

***ebracteatus*** Kunth [Henrickson 1983; M&H; W&S]

*Samolus cuneatus* Small

*Samolus ebracteatus* Kunth var. *cuneatus* (Small) Henrickson

*ebracteatus* Kunth var. *cuneatus* (Small) Henrickson = *Samolus ebracteatus* Kunth

***parviflorus*** Rafinesque [M&H; W&S]

*Samolus floribundus* Kunth

*Samolus valerandi* of NM reports

*Samolus valerandi* Linnaeus subsp. *parviflorus* (Rafinesque) Hulten

*valerandi* of NM reports = *Samolus parviflorus* Rafinesque

*valerandi* Linnaeus subsp. *parviflorus* (Rafinesque) Hulten

*floribundus* Kunth = *Samolus parviflorus* Rafinesque

Family RAFFLESACEAE : not occurring in NM [see Apodanthaceae for our members]

*Steironema ciliatum* (Linnaeus) Rafinesque = *Lysimachia ciliata* Linnaeus

*validulum* Greene = *Lysimachia hybrida* Michaux

**Family RANUNCULACEAE** [16/62/66]

Emadzade, K., C. Lehnebach, P. Lockhart, & E. Horandl. 2010. A molecular phylogeny, morphology and classification of genera of Ranunculaceae (Ranunculaceae). Taxon 59(3): 809-828.

Wang, W., H.L. Li, X.-G. Xiang, & Z.-D.Chen. 2014. Revisiting the phylogeny of Ranunculaceae: Implications for divergence time estimation and historical biogeography. Journal of Systematics and Evolution 52(5): 551-565.

**Aconitum** monk's-hood

Brink, D.E. & J.A. Woodson 1997. *Aconitum*, pp. 191-195. IN: Flora of North America, vol. 3. Oxford University Press.

Luo, Y., F.-M. Zhang, & Q.-E. Yang. 2005. Phylogeny of *Aconitum* subgenus *Aconitum* (Ranunculaceae) inferred from ITS sequences. Plant Syst. Evol. 252: 11-25.

*arizonicum* Greene = *Aconitum columbianum* Nuttall subsp. *columbianum*

*bakeri* Greene = *Aconitum columbianum* Nuttall subsp. *columbianum*

*columbianum* Nuttall var. *bakeri* (Greene) Harrington = *Aconitum columbianum* Nuttall subsp. *columbianum*

***columbianum*** Nuttall subsp. ***columbianum*** [Brink 1997; M&H; W&S]

*Aconitum arizonicum* Greene

*Aconitum bakeri* Greene

*Aconitum columbianum* Nuttall var. *bakeri* (Greene) Harrington

*Aconitum lutescens* A. Nelson

*Aconitum mogollonicum* Greene

*Aconitum porrectum* Rydberg

*Aconitum robertianum* Greene

*lutescens* A. Nelson = *Aconitum columbianum* Nuttall subsp. *columbianum*

*mogollonicum* Greene = *Aconitum columbianum* Nuttall subsp. *columbianum*

*porrectum* Rydberg = *Aconitum columbianum* Nuttall subsp. *columbianum*

*robertianum* Greene = *Aconitum columbianum* Nuttall subsp. *columbianum*

**Actaea** baneberry

Ford, B.A. 1997. *Actaea*, pp. 181-183. IN: Flora of North America, vol. 3. Oxford University Press.

*arguta* Nuttall = *Actaea rubra* (Aiton) Willdenow subsp. *arguta* (Nuttall) Hultén

*arguta* Nuttall var. *viridiflora* (Greene) Tidestrom = *Actaea rubra* (Aiton) Willdenow subsp. *arguta* (Nuttall) Hultén

***rubra*** (Aiton) Willdenow [Ford 1997; M&H; W&S]

*Actaea arguta* Nuttall

*Actaea arguta* Nuttall var. *viridiflora* (Greene) Tidestrom

*Actaea rubra* (Aiton) Willdenow subsp. *arguta* (Nuttall) Hultén

*Actaea viridiflora* Greene

*viridiflora* Greene = *Actaea rubra* (Aiton) Willdenow subsp. *arguta* (Nuttall) Hultén

**Anemone** anemone

Dutton, B.E., C.S. Keener, & B.A. Ford. 1997. *Anemone*, pp. 139-158. IN: Flora of North America, vol. 3. Oxford University Press.

Enquist, M. and B. Crozier. 1995. *Anemone tuberosa* (Ranunculaceae) in Texas. *Phytologia* 78(6):428-445.

Mosyakin, S.L. 2016. Nomenclatural notes on North American taxa of *Anemonastrum* and *Pulsatilla* (Ranunculaceae), with comments on the circumscription of *Anemone* and related genera. *Phytoneuron* 2016-79: 1-12.

**canadensis** Linnaeus [Dutton & Keener 1997; M&H; W&S]

**cylindrica** Gray [Dutton & Keener 1997; M&H; W&S]

**globosa** Nuttall ex A. Nelson = *Anemone multifida* Poirét

**multifida** Poirét [Dutton & Keener 1997; M&H; W&S]

*Anemone globosa* Nuttall ex A. Nelson

**patens** Linnaeus var. **multifida** Pritzel = *Pulsatilla patens* (Linnaeus) P. Miller subsp. *multifida* (Pritzel) Zamelis

**patens** Linnaeus var. **wolfgangiana** (Besser) Koch = *Pulsatilla patens* (Linnaeus) P. Miller subsp. *multifida* (Pritzel) Zamelis

**sphenophylla** of NM authors = *Anemone tuberosa* Rydberg

**tuberosa** Rydberg var. **tuberosa** [Dutton & Keener 1997; M&H; W&S]

*Anemone sphenophylla* of NM reports

**tuberosa** Rydberg var. **texana** Enquist & Crozier [Enquist & Crozier 1995]

**Aquilegia** columbine

Whittemore, A.T. 1997. *Aquilegia*, pp. 249-258. IN: Flora of North America, vol. 3. Oxford University Press.

**caerulea** James [M&H; W&S; Whittemore 1997]

**chaplainei** Standley ex Payson = *Aquilegia chrysantha* Gray var. *chaplainei* (Standley ex Payson) E.J. Lott

**chrysantha** Gray var. **chrysantha** [M&H; W&S; Whittemore 1997]

*Aquilegia leptocera* Nuttall var. *flava* Gray

**chrysantha** Gray var. **chaplainei** (Standley ex Payson) E.J. Lott [M&H; Whittemore 1997]

*Aquilegia chaplainei* Standley ex Payson

**desertorum** (M.E. Jones) Cockerell ex A. Heller [M&H; Whittemore 1997]

*Aquilegia formosa* sensu W&S

*Aquilegia formosa* Fischer ex A.P. de Candolle. var. *desertorum* M.E.Jones

*Aquilegia triternata* Payson

**elegantula** Greene [M&H; W&S; Whittemore 1997]

**formosa** sensu W&S = *Aquilegia desertorum* (M.E. Jones) Cockerell ex A. Heller

**formosa** Fischer ex A.P. de Candolle. var. *desertorum* M.E.Jones = *Aquilegia desertorum* (M.E. Jones) Cockerell ex A. Heller

**leptocera** Nuttall var. *flava* Gray = *Aquilegia chrysantha* Gray

**micrantha** Eastwood : Reported as expected by M&H; awaits verification.

*Aquilegia rubricunda* Tidestrom

**rubricunda** Tidestrom = *Aquilegia micrantha* Eastwood

**triternata** Payson = *Aquilegia desertorum* (M.E. Jones) Cockerell ex A. Heller

*Atragene columbiana* Nuttall = *Clematis columbiana* (Nuttall) Torrey & Gray

**pseudoalpina** (Kuntze) Rydberg = *Clematis columbiana* (Nuttall) Torrey & Gray

*Batrachium drouetii* (F. Schultz) Nyman = *Ranunculus aquatilis* Linnaeus var. *diffusus* Withering

**flaccidum** (Persoon) Ruprecht = *Ranunculus aquatilis* Linnaeus var. *diffusus* Withering

**trichophyllum** (Chaix) Bosch = *Ranunculus aquatilis* Linnaeus var. *diffusus* Withering

**Caltha** marsh-marigold

Schuettpelz, E. & S.B. Hoot. 2004. Phylogeny and biogeography of *Caltha* (Ranunculaceae) based on chloroplast and nuclear DNA sequences. *Amer. J. Bot.* 91(2): 247-253.

Smit, P.G. 1973. A revision of *Caltha* (Ranunculaceae). *Blumea* 21:119-150.

**leptosepala** A.P. de Candolle [M&H; Smit 1973; W&S]

*Caltha leptosepala* A.P. de Candolle var. *rotundifolia* Huth

*Caltha rotundifolia* (Huth) Greene

*Psychropila leptosepala* (A.P. de Candolle) W.A. Weber

*leptosepala* A.P. de Candolle var. *rotundifolia* Huth = *Caltha leptosepala* A.P. de Candolle  
*rotundifolia* (Huth) Greene = *Caltha leptosepala* A.P. de Candolle

**Ceratocephala** bur buttercup

Emadzade, K., C. Lehnebach, P. Lockhart, & E. Horandl. 2010. A molecular phylogeny, morphology and classification of genera of Ranunculeae (Ranunculaceae). *Taxon* 59(3): 809-828.

Marley, G.A. and W.L. Wagner. 1981. Noteworthy collections (New Mexico). *Madroño* 28:41-43.  
 [*Ranunculus testiculatus*]

\***testiculata** (Crantz) Besser [Marley & Wagner 1981; Whitemore 1997]

*Ranunculus testiculatus* Crantz

**Clematis** virgin's-bower

Cockerell, T.D.A. 1899. An alien *Clematis* in New Mexico. *Science (new series)* 10:898-899. [*Clematis orientalis*]

Dennis, W.M. 1979. *Clematis pitcheri* T. & G. var. *dictyota* (Greene) Dennis, comb. nov. (Ranunculaceae). *Sida* 8(2):194-195.

Pringle, J.S. 1971. Taxonomy and distribution of *Clematis*, sect. *Atragene* (Ranunculaceae) in North America. *Brittonia* 23: 361-393.

Pringle, J.S. 1997. *Clematis*, pp. 158-176. IN: *Flora of North America*, vol. 3. Oxford University Press.  
 Yang, W.-J., Li, L.-Q., & Xie, L. 2009. A revision of *Clematis* sect. *Atragene* (Ranunculaceae). *J. Syst. Evol.* 47(6): 552-580.

*arizonica* Heller = *Clematis hirsutissima* Pursh var. *hirsutissima*

*bakeri* Greene = *Clematis hirsutissima* Pursh var. *hirsutissima*

**bigelovii** Torrey [M&H; Pringle 1997; W&S]

*Clematis palmeri* Rose

*Viorna bigelovii* (Torrey) Heller

*Viorna palmeri* (Rose) Wooton & Standley

**columbiana** (Nuttall) Torrey & Gray [M&H; Pringle 1997; W&S]

*Atragene columbiana* Nuttall

*Atragene pseudoalpina* (Kuntze) Rydberg

*Clematis occidentalis* (Hornemann) A.P. de Candolle var. *albiflora* Cockerell

*Clematis pseudoalpina* (Kuntze) A. Nelson

*crux-flava* Cockerell = *Clematis orientalis* Linnaeus

*dictyota* Greene = *Clematis pitcheri* Torrey & Gray var. *dictyota* (Greene) Dennis

**drummondii** Torrey & Gray [M&H; Pringle 1997; W&S]

*hirsutissima* Pursh var. *arizonica* (Heller) Erickson = *Clematis hirsutissima* Pursh var. *hirsutissima*

**hirsutissima** Pursh var. **hirsutissima** [M&H; Pringle 1997; W&S]

*Clematis arizonica* Heller

*Clematis bakeri* Greene

*Clematis hirsutissima* Pursh var. *arizonica* (Heller) Erickson

*Viorna arizonica* Heller

*Viorna bakeri* (Greene) Rydberg

*Viorna eriophora* Rydberg

*Viorna hirsutissima* (Pursh) Heller

**hirsutissima** Pursh var. **scottii** (Porter) Erickson [M&H; Pringle 1997; W&S]

*Clematis scottii* Porter

*Viorna scottii* (Porter) Rydberg

**ligusticifolia** Nuttall [M&H; Pringle 1997; W&S]

*Clematis neomexicana* Wooton & Standley

*neomexicana* Wooton & Standley = *Clematis ligusticifolia* Nuttall

*occidentalis* of NM reports = *Clematis columbiana* (Nuttall) Torrey & Gray

*occidentalis* (Hornemann) A.P. de Candolle var. *albiflora* Cockerell = *Clematis columbiana* (Nuttall) Torrey & Gray

\***orientalis** Linnaeus [Cockerell 1899; Pringle 1997; M&H; W&S]

*Clematis crux-flava* Cockerell

*palmeri* Rose = *Clematis bigelovii* Torrey

**pitcheri** Torrey & Gray var. **dictyota** (Greene) Dennis [Pringle 1997]

*Clematis dictyota* Greene

*pitcheri* Torrey & Gray var. *filifera* (Bentham) Robinson = *Clematis pitcheri* Torrey & Gray var. *pitcheri*

**pitcheri** Torrey & Gray var. **pitcheri** [M&H; Pringle 1997; W&S]

*Clematis pitcheri* Torrey & Gray var. *filifera* (Bentham) Robinson

*Viorna filifera* (Bentham) Wooton & Standley  
*pseudoalpina* (Kuntze) A. Nelson = *Clematis columbiana* (Nuttall) Torrey & Gray  
*scottii* Porter = *Clematis hirsutissima* Pursh var. *scottii* (Porter) Erickson

**Consolida** larkspur

Keener, C.S. 1976. Studies in the Ranunculaceae of the southeastern United States. IV. Genera with zygomorphic flowers. *Castanea* 41:12-20.  
 Spellenberg, R., R. Worthington, P. Knight, & R. Fletcher. 1986. Additions to the flora of New Mexico. *Sida* 11(4):455-470. [*Consolida ajacis*]  
 Warnock, M.J. 1997. *Consolida*, pp. 240-242. IN: *Flora of North America*, vol. 3. Oxford University Press.  
**\*ajacis** (Linnaeus) Schur [Spellenberg et al. 1986]  
*Delphinium ajacis* Linnaeus

**Cyrtorhyncha**

Emadzade, K., C. Lehnebach, P. Lockhart, & E. Horandl. 2010. A molecular phylogeny, morphology and classification of genera of Ranunculaceae (Ranunculaceae). *Taxon* 59(3): 809-828.

**ranunculina** Nuttall [M&H; Whittemore 1997]  
*Ranunculus ranunculina* (Nuttall) Rydberg

**Delphinium** larkspur

Keener, C.S. 1976. Studies in the Ranunculaceae of the southeastern United States. IV. Genera with zygomorphic flowers. *Castanea* 41:12-20.  
 Wagner, W.L. 1979. New records to the Animas Mountain flora, New Mexico. *Southw. Naturalist* 24(2):291-296. [*Delphinium andesicola*]  
 Warnock, M.J. 1981. Biosystematics of the *Delphinium carolinianum* complex (Ranunculaceae). *Syst. Bot.* 6:38-54.  
 Warnock, M.J. 1995. A taxonomic conspectus of North American *Delphinium*. *Phytologia* 78:73-101.  
 Warnock, M.J. 1997. *Delphinium*, pp. 196-240. IN: *Flora of North America*, vol. 3. Oxford University Press.

*ajacis* Linnaeus = *Consolida ajacis* (Linnaeus) Schur  
**alpestre** Rydberg [M&H; W&S; Warnock 1997]  
*amplibracteatum* Wooton = *Delphinium geraniifolium* Rydberg  
*andesicola* Ewan : Reported by M&H and Wagner (1979), but the specimens have been determined as *Delphinium geraniifolium* Rydberg [Sivinski, pers. comm. 1999].

**barbeyi** (Huth) Huth [M&H; W&S; Warnock 1997]

*Delphinium cockerellii* A. Nelson  
*Delphinium exaltatum* Aiton var. *barbeyi* Huth  
*Delphinium occidentale* (S. Watson) S. Watson var. *barbeyi* (Huth) S.L. Welsh  
*Delphinium occidentale* (S. Watson) S. Watson subsp. *quercicola* Ewan  
*Delphinium scopulorum* Gray var. *subalpinum* Gray  
*camporum* of NM reports = *Delphinium wootonii* Rydberg  
*cockerellii* A. Nelson = *Delphinium barbeyi* (Huth) Huth  
 ×confertiflorum Wooton : Reported by M&H & W&S, this represents hybrid plants of *Delphinium scaposum* × *Delphinium wootonii*.

*exaltatum* Aiton var. *barbeyi* Huth = *Delphinium barbeyi* (Huth) Huth

**geraniifolium** Rydberg [M&H; W&S; Warnock 1997]

*Delphinium amplibracteatum* Wooton  
*Delphinium tenuisectum* Greene subsp. *amplibracteatum* (Wooton) Ewan  
*macrophyllum* Wooton = *Delphinium scopulorum* Gray  
*nelsonii* Greene = *Delphinium nuttallianum* Pritzel ex Walpers var. *nuttallianum*  
**+novomexicanum** Wooton [M&H; W&S; Warnock 1997]

*Delphinium sierrae-blancae* Wooton  
**nuttallianum** Pritzel ex Walpers [M&H; W&S; Warnock 1997]

*Delphinium nelsonii* Greene  
*occidentale* (S. Watson) S. Watson subsp. *quercicola* Ewan = *Delphinium barbeyi* (Huth) Huth

**ramosum** Rydberg [Warnock 1997]

**robustum** Rydberg [M&H; W&S; Warnock 1997]  
**+sapellonis** Cockerell [M&H; W&S; Warnock 1997]

**scaposum** Greene [M&H; W&S; Warnock 1997]

**scopulorum** Gray [M&H; W&S; Warnock 1997]  
*Delphinium macrophyllum* Wooton  
*scopulorum* Gray var. *subalpinum* Gray = *Delphinium barbeyi* (Huth) Huth



*sierrae-blancae* Wooton = *Delphinium novomexicanum* Wooton  
*tenuisectum* Greene subsp. *amplibracteatum* (Wooton) Ewan = *Delphinium geraniifolium*  
 Rydberg

*virescens* Nuttall subsp. *wootonii* (Rydberg) Ewan = *Delphinium wootonii* Rydberg  
***wootonii*** Rydberg [M&H; W&S; Warnock 1997]

*Delphinium virescens* Nuttall subsp. *wootonii* (Rydberg) Ewan

***Halerpestes*** [M&H; W&S; Whittemore 1997]

Emadzade, K., C. Lehnebach, P. Lockhart, & E. Horandl. 2010. A molecular phylogeny, morphology and classification of genera of Ranunculaceae (Ranunculaceae). *Taxon* 59(3): 809-828.

***cymbalaria*** (Pursh) Greene

*Ranunculus cymbalaria* Pursh

*Ranunculus cymbalaria* Pursh var. *saximontanus* Fernald

*Hydrastis caroliniensis* Walter = *Trautvetteria caroliniensis* (Walter) Vail

***Myosurus*** mouse-tail

Whittemore, A.T. 1994. New names in North American *Myosurus* (Ranunculaceae). *Novon* 4:77-79.

Whittemore, A.T. 1997. *Myosurus*, pp. 135-138. IN: *Flora of North America*, vol. 3. Oxford University Press.

***apetalus*** Gay var. ***montanus*** (G.R. Campbell) Whittemore [M&H; W&S; Whittemore 1997]

*Myosurus aristatus* Bentham subsp. *montanus* (G.R. Campbell) Stone (illegit.)

*Myosurus minimus* Linnaeus subsp. *montanus* G.R. Campbell

*aristatus* Bentham subsp. *montanus* (G.R. Campbell) Stone = *Myosurus apetalus* Gay var. *montanus* (G.R. Campbell) Whittemore

***cupulatus*** S. Watson [M&H; W&S; Whittemore 1997]

*egglestonii* Wooton & Standley = *Myosurus nitidus* Eastwood

***minimus*** Linnaeus [M&H; W&S; Whittemore 1997]

*minimus* Linnaeus subsp. *montanus* G.R. Campbell = *Myosurus apetalus* Gay var. *montanus* (G.R. Campbell) Whittemore

***nitidus*** Eastwood [M&H; W&S; Whittemore 1997]

*Myosurus egglestonii* Wooton & Standley

*Psychropila leptosepala* (A.P. de Candolle) W.A. Weber = *Caltha leptosepala* A.P. de Candolle

***Pulsatilla*** pasqueflower

Dutton, B.E., C.S. Keener, & B.A. Ford. 1997. *Anemone*, pp. 139-158. IN: *Flora of North America*, vol. 3. Oxford University Press.

Mosyakin, S.L. 2016. Nomenclatural notes on North American taxa of *Anemonastrum* and *Pulsatilla* (Ranunculaceae), with comments on the circumscription of *Anemone* and related genera. *Phytoneuron* 2016-79: 1-12.

*hirsutissima* (Pursh) Britton = *Pulsatilla patens* (Linnaeus) P. Miller subsp. *multifida* (Pritzel) Zamelis

*ludoviciana* (Nuttall) Heller = *Pulsatilla patens* (Linnaeus) P. Miller subsp. *multifida* (Pritzel) Zamelis

***patens*** (Linnaeus) P. Miller subsp. ***multifida*** (Pritzel) Zamelis [Dutton & Keener 1997; M&H; W&S]

*Anemone patens* Linnaeus var. *multifida* Pritzel

*Anemone patens* Linnaeus var. *wolfgangiana* (Besser) Koch

*Pulsatilla hirsutissima* (Pursh) Britton, nom. illeg.

*Pulsatilla ludoviciana* (Nuttall) Heller, nom. illeg.

***Ranunculus*** buttercup

Allred, K.W. 2009. Plant distribution reports [*Cylindropuntia bigelovii*, *Ranunculus acris*]. *The New Mexico Botanist* 48:7.

Benson, L.D. 1948. A treatise on the North American *Ranunculi*. *Amer. Midl. Naturalist* 40: 1-261.

Benson, L.D. 1954. Supplement to a treatise on the North American *Ranunculi*. *Amer. Midl. Naturalist* 52: 328-369.

Emadzade, K., C. Lehnebach, P. Lockhart, & E. Horandl. 2010. A molecular phylogeny, morphology and classification of genera of Ranunculaceae (Ranunculaceae). *Taxon* 59(3): 809-828.

Duncan, T. 1980. A taxonomic study of the *Ranunculus hispidus* Michaux complex in the Western Hemisphere. *Univ. California Publ. Bot.* 77:1-125. [*Ranunculus petiolaris arsenei*]

Hartman, R.L., B. Reif, B.E. Nelson, & B. Jacobs. 2006. New vascular plant records for New Mexico. *Sida* 22(2):1225-1233. [*Ranunculus alismifolius*, *Ranunculus repens*]

Whittemore, A.T. 1997. *Ranunculus*, pp. 88-135. IN: *Flora of North America*, vol. 3. Oxford University Press.

***abortivus*** Linnaeus [Spellenberg et al. 1986; Whittemore 1997]

- \**acris* Linnaeus var. *acris* [Allred 2009]  
*alismifolius* Geyer ex Bentham var. *montanus* S. Watson [Hartman et al. 2006]  
*aquatilis* Linnaeus var. *capillaceus* (Thuiller) A.P. de Candolle = *Ranunculus aquatilis* Linnaeus var. *diffusus* Withering  
*aquatilis* Linnaeus var. *diffusus* Withering [M&H; Whittemore 1997]  
*Batrachium drouetii* (F. Schultz) Nyman  
*Batrachium flaccidum* (Persoon) Ruprecht  
*Batrachium longirostre* (Godron) F. Schultz  
*Batrachium trichophyllum* (Chaix) Bosch  
*Ranunculus aquatilis* Linnaeus var. *capillaceus* (Thuiller) A.P. de Candolle  
*Ranunculus circinatus* Sibthorp var. *subrigidus* (W. Drew) L. Benson  
*Ranunculus longirostris* Godron  
*Ranunculus subrigidus* Drew  
*Ranunculus trichophyllum* Chaix  
*arizonicus* Lemmon ex A. Gray [M&H; Whittemore 1997]  
*cardiophyllus* Hooker [M&H; W&S; Whittemore 1997]  
*Ranunculus nudatus* Greene  
*Ranunculus subsagittatus* (Gray) Greene  
*Ranunculus cardiophyllus* Hooker var. *subsagittatus* (Gray) L. Benson  
*cardiophyllus* Hooker var. *subsagittatus* (Gray) L. Benson = *Ranunculus cardiophyllus* Hooker  
*circinatus* Sibthorp var. *subrigidus* (W. Drew) L. Benson = *Ranunculus aquatilis* Linnaeus var. *diffusus* Withering  
*cymbalaria* Pursh = *Halerpestes cymbalaria* (Pursh) Greene  
*cymbalaria* Pursh var. *saximontanus* Fernald = *Halerpestes cymbalaria* (Pursh) Greene  
*earlei* Greene = *Ranunculus uncinatus* D. Don ex G. Don var. *earlei* (Greene) L. Benson  
*ellipticus* Greene = *Ranunculus glaberrimus* Hooker var. *ellipticus* Greene  
*eremogenes* Greene = *Ranunculus scleratus* Linnaeus var. *multifidus* Nuttall  
*eschscholtzii* Schlectendal var. *eschscholtzii* [M&H; Whittemore 1997]  
*fasciculatus* Sessé & Moçinho : Reported by Duncan (1980) in the text, but not in his map; no specimens are known; awaits verification.  
*Ranunculus macranthus* Scheele var. *arsenei* L. Benson  
*Ranunculus petiolaris* Kunth ex A.P. de Candolle var. *arsenei* (L. Benson) T. Duncan  
*filiformis* Michaux var. *ovalis* Bigelow = *Ranunculus flammula* Linnaeus var. *ovalis* (Bigelow) L. Benson  
*flammula* Linnaeus var. *ovalis* (Bigelow) L. Benson [M&H; W&S; Whittemore 1997]  
*Ranunculus filiformis* Michaux var. *ovalis* Bigelow  
*Ranunculus reptans* sensu W&S  
*Ranunculus reptans* Linnaeus var. *ovalis* (Bigelow) Torrey & Gray  
*glaberrimus* Hooker var. *ellipticus* (Greene) Greene [M&H; W&S; Whittemore 1997]  
*Ranunculus ellipticus* Greene  
*Ranunculus oreogenes* Greene  
*gmelinii* A.P. de Candolle [M&H; W&S; Whittemore 1997]  
*Ranunculus gmelinii* A.P. de Candolle var. *hookeri* (D. Don) L. Benson  
*Ranunculus purshii* Richardson  
*gmelinii* A.P. de Candolle var. *hookeri* (D. Don) L. Benson = *Ranunculus gmelinii* A.P. de Candolle  
*hydrocharoides* Gray [M&H; W&S; Whittemore 1997]  
*inamoenus* Greene var. *inamoenus* [M&H; Whittemore 1997]  
*Ranunculus micropetalus* (Greene) Rydberg  
*longirostris* Godron = *Ranunculus aquatilis* Linnaeus var. *diffusus* Withering  
*macauleyi* Gray [M&H; W&S; Whittemore 1997]  
*Ranunculus macauleyi* Gray var. *brandegeei* L. Benson  
*macauleyi* Gray var. *brandegeei* L. Benson = *Ranunculus macauleyi* Gray  
*macounii* Britton [M&H; W&S; Whittemore 1997]  
*macranthus* Scheele : Reported as expected by M&H map (probably referring to var. *arsenei*, which belongs to *Ranunculus fasciculatus* Sessé & Moçinho rather than to *Ranunculus macranthus*).

*macranthus* Scheele var. *arsenei* L. Benson = *Ranunculus fasciculatus* Sessé & Moçoiño  
*micropetalus* (Greene) Rydberg = *Ranunculus inamoenus* Greene  
*nudatus* Greene = *Ranunculus cardiophyllus* Hooker  
*oreogenes* Greene = *Ranunculus glaberrimus* Hooker var. *ellipticus* Greene  
*pedatifidus* J.E. Smith : Reported for NM by Coulter & Nelson (1909), but not included by  
 Whittemore (1997); awaits verification.

***pensylvanicus*** Linnaeus f. [M&H; W&S; Whittemore 1997]

*petiolaris* Kunth ex A.P. de Candolle var. *arsenei* (L. Benson) T. Duncan = *Ranunculus fasciculatus* Sessé & Moçoiño

*purshii* Richardson = *Ranunculus gmelinii* A.P. de Candolle

*ranunculinus* (Nuttall) Rydberg = *Cyrtorhyncha ranunculina* Nuttall

**\**repens*** Linnaeus [Hartman et al. 2006]

*repens* S. Watson var. *marilandicus* (Poiret) Torrey & Gray [= *Ranunculus hispidus*  
*Michaux* var. *hispidus*] : Reported by Gray (1853) from the Mimbres  
 River; not treated by later NM authors or by Whittemore (1997); awaits  
 verification.

*reptans* sensu W&S = *Ranunculus flammula* Linnaeus var. *ovalis* (Bigelow) L. Benson  
*reptans* Linnaeus var. *ovalis* (Bigelow) Torrey & Gray = *Ranunculus flammula* Linnaeus  
 var. *ovalis* (Bigelow) L. Benson

***scleratus*** Linnaeus var. ***multifidus*** Nuttall [M&H; W&S; Whittemore 1997]

*Ranunculus eremogenes* Greene

*subrigidus* Drew = *Ranunculus aquatilis* Linnaeus var. *diffusus* Withering

*subsagittatus* (Gray) Greene = *Ranunculus cardiophyllus* Hooker

*testiculatus* Crantz = *Ceratocephala testiculata* (Crantz) Besser

*trichophyllus* Chaix = *Ranunculus aquatilis* Linnaeus var. *diffusus* Withering

***uncinatus*** D. Don ex G. Don [M&H; Whittemore 1997]

*Ranunculus earlei* Greene

*Ranunculus uncinatus* D. Don ex G. Don var. *earlei* (Greene) L. Benson

*uncinatus* D. Don ex G. Don var. *earlei* (Greene) L. Benson = *Ranunculus uncinatus* D.  
 Don ex G. Don

***Thalictrum*** meadow-rue

Great Plains Flora Association. 1977. Atlas of the Flora of the Great Plains. Iowa State Univ. Press. 600 pp.  
 [*Thalictrum venulosum*]

Park, M.M. & D. Festerling, Jr. 1997. *Thalictrum*, pp. 258-271. IN: Flora of North America, vol. 3. Oxford  
 University Press.

***alpinum*** Linnaeus [M&H; Park & Festerling 1997; W&S]

*Thalictrum alpinum* Linnaeus var. *hebetum* Boivin

*Thalictrum cheilanthoides* Greene

*alpinum* Linnaeus var. *hebetum* Boivin = *Thalictrum alpinum* Linnaeus

*cheilanthoides* Greene = *Thalictrum alpinum* Linnaeus

***dasycarpum*** Fischer & Avé-Lallemant [M&H; Park & Festerling 1997; W&S]

***fendleri*** Engelmann ex Gray [M&H; Park & Festerling 1997; W&S]

*Thalictrum fendleri* Engelmann var. *wrightii* (Gray) Trelease

*Thalictrum wrightii* Gray

*fendleri* Engelmann var. *wrightii* (Gray) Trelease = *Thalictrum fendleri* Engelmann

*occidentale* Gray : Reported by W&S, based on a staminate plant with large entire leaflets  
 [Herrick s.n. (NMC)]; not verified as *Thalictrum occidentale* by M. Park,  
 who examined the plant and left it undetermined as to species.

***amphibolum*** Greene [Whittemore 1997]

*Thalictrum revolutum* A.P. de Candolle (illegitimate name)

*revolutum* A.P. de Candolle (illegitimate name) = *Thalictrum amphibolum* Greene

***venulosum*** Trelease [Park & Festerling 1997]

*wrightii* Gray = *Thalictrum fendleri* Engelmann

***Trautvetteria*** tassel-rue

Parfitt, B.D. 1997. *Trautvetteria*, pp. 138-139. IN: Flora of North America, vol. 3. Oxford University Press.

***caroliniensis*** (Walter) Vail [M&H; Parfitt 1997; W&S]

*Hydrastis caroliniensis* Walter

*Trautvetteria caroliniensis* Walter var. *borealis* (H. Hara) T. Shimizu

*Trautvetteria caroliniensis* Walter var. *occidentalis* (A. Gray) C.L. Hitchcock

*Trautvetteria grandis* Nuttall

*caroliniensis* Walter var. *borealis* (H. Hara) T. Shimizu = *Trautvetteria caroliniensis* (Walter) Vail

*caroliniensis* Walter var. *occidentalis* (A. Gray) C.L. Hitchcock = *Trautvetteria caroliniensis* (Walter) Vail

*grandis* Nuttall = *Trautvetteria caroliniensis* (Walter) Vail

*Viorna arizonica* Heller = *Clematis hirsutissima* Pursh var. *hirsutissima*

*bakeri* (Greene) Rydberg = *Clematis hirsutissima* Pursh var. *hirsutissima*

*bigelovii* (Torrey) Heller = *Clematis bigelovii* Torrey

*eriophora* Rydberg = *Clematis hirsutissima* Pursh var. *hirsutissima*

*filifera* (Bentham) Wooton & Standley = *Clematis pitcheri* Torrey & Gray var. *filifera* (Bentham) Robinson

*hirsutissima* (Pursh) Heller = *Clematis hirsutissima* Pursh var. *hirsutissima*

*palmeri* (Rose) Wooton & Standley = *Clematis bigelovii* Torrey

*scottii* (Porter) Rydberg = *Clematis hirsutissima* Pursh var. *scottii* (Porter) Erickson

### Family RESEDACEAE [1/1/1]

Martin-Bravo, S., G.C. Tucker, & T.F. Daniel. 2010. Resedaceae, p. 189-193. IN: IN: Flora of North America, vol. 7. Oxford University Press.

*Dipetalia subulata* sensu W&S = *Oligomeris linifolia* (Vahl) Macbride

***Oligomeris*** white-puff

Campbell, R.S. & E.L. Little, Jr. 1935. Notes on the flora of the Jornada Experimental Range, New Mexico. Mimeograph copy at NMCR. [*Oligomeris linifolia*]

Martin-Bravo, S., H. Meimberg, M. Luceno, W. Markle, V. Valcarcel, C. Brauchler, P. Vargas, & G. Heuble. 2007. Molecular systematics and biogeography of Resedaceae based on ITS and trnL-F sequences. Molec. Phylogen. Evol. 44: 1105-1120.

Martin-Bravo, S., P. Vargas, & M. Luceño. 2009. Is *Oligomeris* (Resedaceae) indigenous to North America? Molecular evidence for a natural colonization from the Old World. Amer. J. Bot. 96:507-518.

***linifolia*** (Vahl) Macbride [M&H; Martin-Bravo et al. 2010; W&S]

*Dipetalia subulata* sensu W&S

*Reseda linifolia* Vahl

*Reseda linifolia* Vahl = *Oligomeris linifolia* (Vahl) Macbride

### Family RHAMNACEAE [7/14/14]

Brizicky, G.K. 1964. The genera of Rhamnaceae in the southeastern United States. J. Arnold Arbor. 45:439-463.

Johnston, M.C. & L.A. Johnston. 1969. Rhamnaceae, IN Flora of Texas 2(pt II):357-388.

Richardson, J.E., M.E. Fay, Q.C.B. Cronk, D. Bowman, & M.W. Chase. 2000. A phylogenetic analysis of Rhamnaceae using *rbcL* and *trnL-F* plastid DNA sequences. Amer. J. Bot. 87: 1309-1324.

***Adolphia*** junco

Hess, W.J. 2002. New plant distribution records. The New Mexico Botanist 21:2. [*Adolphia infesta*]

Turner, R. 2006. Plant distribution reports (*Adolphia infesta*). The New Mexico Botanist 36:7.

***infesta*** (Kunth) Meisner [Hess 2001, Turner 2006]

*Ceanothus infestus* Kunth

*Colubrina infesta* (Kunth) Schlechtendal

***Ceanothus*** buckbrush

Schmidt, C. 1999. Full text key to N. American species of *Ceanothus*. Available online at <http://www.orst.edu/dept/botany/herbarium/projects/ceanothus/keys/wholekey.html>

***fendleri*** Gray [M&H; W&S]

*greggii* Gray = *Ceanothus pauciflorus* A.P. de Candolle

*greggii* Gray var. *perplexans* of NM reports = *Ceanothus pauciflorus* A.P. de Candolle

***herbaceus*** Rafinesque [Brizicky 1964; Schmidt 1999]

*Ceanothus ovatus* Desfontaines

*Ceanothus ovatus* Desfontaines var. *pubescens* S. Watson

*infestus* Kunth = *Adolphia infesta* (Kunth) Meisner

***integerrimus*** Hooker & Arnott [M&H; W&S]

deerbrush

*Ceanothus mogollonicus* Greene

*mogollonicus* Greene = *Ceanothus integerrimus* Hooker & Arnott [M&H]

*ovatus* Desfontaines = *Ceanothus herbaceus* Rafinesque

*ovatus* Desfontaines var. *pubescens* S. Watson = *Ceanothus herbaceus* Rafinesque

- pauciflorus** A.P. de Candolle [M&H; W&S]  
*Ceanothus greggii* Gray  
*Ceanothus greggii* Gray var. *perplexans* of NM reports  
*Ceanothus perplexans* of NM reports  
*Ceanothus vestitus* Greene  
*perplexans* of NM reports = *Ceanothus pauciflorus* A.P. de Candolle  
*vestitus* E.L. Greene = *Ceanothus pauciflorus* A.P. de Candolle
- Colubrina californica* I.M. Johnston : Reported for the state from time to time, but all specimens have turned out to be misidentified; awaits verification.
- infesta* (Kunth) Schlechtendal = *Adolphia infesta* (Kunth) Meisner
- Condalia** bluewood  
 Benson, L. & R.A. Darrow. 1981. *Trees and Shrubs of the Southwestern Deserts*. 3rd ed. Univ. Arizona Press. 416 p.  
 Johnston, M.C. 1962. Revision of *Condalia* including *Microrhamnus* (Rhamnaceae). *Brittonia* 14:332-368.
- correllii** M.C. Johnston [Benson & Darrow 1981; Johnston 1962; M&H]  
*Condalia mexicana* sensu M&H
- ericoides** (Gray) M.C. Johnston [Johnston 1962; M&H]  
 javelina-bush  
*Microrhamnus ericoides* Gray  
*lycioides* (Gray) Weberbauer = *Sarcomphalus obtusifolius* (Hooker ex Torrey & Gray) Hauenschild  
*lycioides* (Gray) Weberbauer var. *canescens* (Gray) Trelease = *Sarcomphalus obtusifolius* (Hooker ex Torrey & Gray) Hauenschild var. *canescens* (Gray) Hauenschild  
*mexicana* sensu M&H = *Condalia correllii* M.C. Johnston  
*spathulata* of NM reports = *Condalia warnockii* M.C. Johnston
- warnockii** M.C. Johnston var. **warnockii** [Johnston 1962; M&H]  
 crucillo  
*Condalia spathulata* of NM authors
- Endotropis** buckthorn  
 Hauenschild, F., S. Matuszak, A.N. Muellner-Riehl, & A. Favre. 2016. Phylogenetic relationships within the cosmopolitan buckthorn family (Rhamnaceae) support the resurrection of *Sarcomphalus* and the description of *Pseudoziziphus* gen. nov. *Taxon* 65(1): 47-64.  
 Hauenschild, F., A. Favre, G.A. Salazar, & A.N. Muellner-Riehl. 2016. Analysis of the cosmopolitan buckthorn genera *Frangula* and *Rhamnus* s.l. supports the description of a new genus, *Ventia*. *Taxon* 65(1): 65-78.  
 Hauenschild, F., A. Favre, G.A. Salazar, & A.N. Muellner-Riehl. 2016. Corrigendum to Hauenschild et al., Analysis of the cosmopolitan buckthorn genera *Frangula* and *Rhamnus* s.l. supports the description of a new genus, *Ventia*. *Taxon* 65(4): 926-927.  
 Rafinesque, C.S. 1825. Neogenyton, or indication of sixty-six new genera of plants of North America.
- serrata** (Humboldt & Bonpland ex Schultes) Hauenschild [Johnston 1975; M&H; W&S]  
*Rhamnus fasciculata* Greene  
*Rhamnus serrata* Humboldt & Bonpland ex Schultes  
*Rhamnus smithii* Greene subsp. *fasciculata* (Greene) C.B. Wolf  
*Ventia serrata* (Humboldt & Bonpland ex Schultes) Hauenschild
- smithii** (Greene) Hauenschild [Johnston 1975; M&H; W&S]  
*Rhamnus smithii* Greene  
*Ventia smithii* (Greene) Hauenschild
- Frangula** buckthorn  
 Bolmgren, K. & B. Oxelman. 2004. Generic limits in *Rhamnus* L. s.l. (Rhamnaceae) inferred from nuclear and chloroplast DNA sequences phylogenies. *Taxon* 53(2):383-390.  
 Sawyer, J.O. Jr. & G.L. Nesom. 2016. *Frangula*, pp. 52-59. IN: *Flora of North America*, vol. 12. Oxford University Press.
- betulifolia** (Greene) V. Grubov [M&H; W&S]  
*Frangula betulifolia* (Greene) V. Grubov subsp. *obovata* (Kearney & Peebles) Kartesz & Gandhi  
*Rhamnus betulifolia* Greene  
*betulifolia* (Greene) V. Grubov subsp. *obovata* (Kearney & Peebles) Kartesz & Gandhi =  
*Frangula betulifolia* (Greene) V. Grubov

**californica** (Eschscholtz) A. Gray subsp. **ursina** (Greene) Kartesz & Gandhi  
[M&H; W&S]

*Frangula ursina* (Greene) Grubov

*Rhamnus californica* Eschscholtz var. *ursina* (Greene) McMinn

*Rhamnus tomentella* Bentham subsp. *ursina* (Greene) J.O. Sawyer

*Rhamnus ursina* Greene

*Rhamnus californica* Eschscholtz subsp. *ursina* (Greene) C.B. Wolf

*ursina* Greene = *Frangula californica* (Eschscholtz) A. Gray subsp. *ursina* (Greene) Kartesz & Gandhi

*Microrhamnus ericoides* Gray = *Condalia ericoides* (Gray) M.C. Johnston

*Rhamnus betulifolia* Greene = *Frangula betulifolia* (Greene) V. Grubov

*californica* Eschscholtz subsp. *ursina* (Greene) C.B. Wolf = *Frangula californica*  
(Eschscholtz) A. Gray subsp. *ursina* (Greene) Kartesz & Gandhi

*californica* Eschscholtz var. *ursina* (Greene) McMinn = *Frangula californica* (Eschscholtz)  
A. Gray subsp. *ursina* (Greene) Kartesz & Gandhi

*fasciculata* Greene = *Endotropis serrata* (Humboldt & Bonpland ex Schultes) Haeuenschild

*obtusifolia* Hooker ex Torrey & Gray = *Sarcomphalus obtusifolius* (Hooker ex Torrey &  
Gray) Hauenschild

*serrata* Humboldt & Bonpland ex Schultes = *Endotropis serrata* (Humboldt & Bonpland ex  
Schultes) Haeuenschild

*smithii* Greene subsp. *fasciculata* (Greene) C.B. Wolf = *Endotropis serrata* (Humboldt &  
Bonpland ex Schultes) Haeuenschild

*smithii* Greene = *Endotropis smithii* (Greene) Hauenschild

*tomentella* Bentham subsp. *ursina* (Greene) J.O. Sawyer = *Frangula californica*  
(Eschscholtz) A. Gray subsp. *ursina* (Greene) Kartesz & Gandhi

*ursina* Greene = *Frangula californica* (Eschscholtz) A. Gray subsp. *ursina* (Greene) Kartesz  
& Gandhi

*zizyphus* Linnaeus = *Ziziphus jujuba* Miller

**Sageretia** sageretia

**wrightii** S. Watson [M&H]

**Sarcomphalus** lotebush

Hauenschild, F., S. Matuszak, A.N. Muellner-Riehl, & A. Favre. 2016. Phylogenetic relationships within  
the cosmopolitan buckthorn family (Rhamnaceae) support the resurrection of *Sarcomphalus* and  
the description of *Pseudoziziphus* gen. nov. *Taxon* 65(1): 47-64.

Hauenschild, F., A. Favre, G.A. Salazar, & A.N. Muellner-Riehl. 2016. Analysis of the cosmopolitan  
buckthorn genera *Frangula* and *Rhamnus* s.l. supports the description of a new genus, *Ventia*.  
*Taxon* 65(1): 65-78.

Islam, M.B. & M.P. Simmons. 2006. A thorny dilemma: Testing alternative intrageneric classifications  
within *Ziziphus* (Rhamnaceae). *Syst. Bot.* 31(4): 826-842.

Johnston, M.C. 1963. The species of *Ziziphus* indigenous to United States and Mexico. *Amer. J. Bot.*  
50:1020-1027.

Nesom, G.L. 2016. *Ziziphus*, pp. 70-73. IN: *Flora of North America*, vol. 12. Oxford University Press.  
*obtusifolius* (Hooker ex Torrey & Gray) Hauenschild var. *canescens* (Gray) Hauenschild :  
Reported by M&H (as *Ziziphus obtusifolia canescens*), but authentic  
specimens unknown.

*Condalia lycioides* (Gray) Weberbauer var. *canescens* (Gray) Trelease

*Ziziphus lycioides* Gray var. *canescens* Gray

*Ziziphus obtusifolia* (Hooker ex Torrey & Gray) Gray var. *canescens* (Gray)  
M.C. Johnston

**obtusifolius** (Hooker ex Torrey & Gray) Hauenschild var. **obtusifoius** [Johnston  
1963; M&H; W&S]

*Condalia lycioides* (Gray) Weberbauer

*Rhamnus obtusifolia* Hooker ex Torrey & Gray

*Ziziphus obtusifolia* (Hooker ex Torrey & Gray) Gray

*Ziziphus lycioides* Gray

*Ventia serrata* (Humboldt & Bonpland ex Schultes) Hauenschild = *Endotropis serrata* (Humboldt  
& Bonpland ex Schultes) Hauenschild

*smithii* (Greene) Hauenschild = *Endotropis smithii* (Greene) Hauenschild

*Ziziphus divaricata* (A. Nelson) Davidson & Moxley = *Sarcomphalus divaricatus* Grisebach  
*jujuba* Miller : not known definitely in the wild.

*Rhamnus zizyphus* Linnaeus

- lycioides* Gray var. *canescens* Gray = *Sarcomphalus obtusifolius* (Hooker ex Torrey & Gray) Hauenschild var. *canescens* (Gray) Hauenschild  
*lycioides* Gray = *Sarcomphalus obtusifolius* (Hooker ex Torrey & Gray) Hauenschild  
*obtusifolia* (Hooker ex Torrey & Gray) Gray = *Sarcomphalus obtusifolius* (Hooker ex Torrey & Gray) Hauenschild  
*obtusifolia* (Hooker ex Torrey & Gray) Gray var. *canescens* (Gray) M.C. Johnston = *Sarcomphalus obtusifolius* (Hooker ex Torrey & Gray) Hauenschild var. *canescens* (Gray) Hauenschild

Family RIVINACEAE = PETIVERIACEAE

Family ROSACEAE [27/92/103]

[Amygdalaceae, Malaceae]

- Potter, D., T. Eriksson, R.C. Evans, S. Oh, J.E.E. Smedmark, D.R. Morgan, M. Kerr, K.R. Robertson, M. Arsenault, T.A. Dickinson, & C.S. Campbell. 2007. Phylogeny and classification of Rosaceae. *Pl. Syst. Evol.* 266: 5-43.
- Acomastylis rossii* (R. Brown) Greene = *Geum rossii* R. Brown
- Agrimonia** burhead  
 Kline, G.J. & P.D. Sorensen. 2008. A revision of *Agrimonia* (Rosaceae) in North and Central America. *Brittonia* 60(1):11-33.  
*brittoniana* Bicknell = *Agrimonia striata* Michaux  
*brittoniana* Bicknell var. *occidentalis* Bicknell = *Agrimonia striata* Michaux  
*gryposepala* Wallroth [M&H]  
 \**parviflora* Aiton [Kline & Sorensen 2008]  
*striata* Michaux [M&H; W&S]  
*Agrimonia brittoniana* Bicknell  
*Agrimonia brittoniana* Bicknell var. *occidentalis* Bicknell
- Alchemilla** lady's-mantle  
 Mackay, H.A. 1972. *Alchemilla minor* Huds. (Rosaceae) in New Mexico. *Southwest. Nat.* 17(2): 197. [Alchemilla monticola]  
 McNeill, J., M. Dubé, P. Frost-Olsen. 2014. *Alchemilla*, pp. 302-309. IN: *Flora of North America*, vol. 9. Oxford University Press.  
*filicaulis* of NM reports = *Alchemilla monticola* Opiz  
*minor* of NM reports = *Alchemilla monticola* Opiz  
 \**monticola* Opiz [Mackay 1972]  
*Alchemilla filicaulis* of NM reports  
*Alchemilla minor* of NM reports  
*Alchemilla vulgaris* Linnaeus var. *pastoralis* (Buser) Boivin  
*vulgaris* of NM reports = *Alchemilla monticola* Opiz  
*vulgaris* Linnaeus var. *pastoralis* (Buser) Boivin = *Alchemilla monticola* Opiz
- Amelanchier** serviceberry  
 Campbell, C.S., M.B. Burgess, K.R. Cushman, E.T. Doucette, A.C. Dibble, & C.T. Frye. 2014. *Amelanchier*, pp. 646-662. IN: *Flora of North America*, vol. 9. Oxford University Press.  
 Jones, G.N. 1946. American species of *Amelanchier*. *Univ. Illinois Biol. Monogr.* 20:1-100.  
 Welsh, S.L., N.D. Atwood, S. Goodrich, & L.C. Higgins (eds.). 1993. *A Utah Flora*. 2nd ed. Provo, Utah: Brigham Young Univ. Press.  
*alnifolia* (Nuttall) Nuttall ex M. Roemer [M&H; W&S]  
*Amelanchier alnifolia* (Nuttall) Nuttall ex M. Roemer var. *pumila* (Torrey & Gray) C.K. Schneider  
*Amelanchier canadensis* (Linnaeus) Medikus var. *pumila* Torrey & Gray  
*Amelanchier polycarpa* Greene  
*Amelanchier pumila* Nuttall ex Torrey & Gray nom. nud.  
*Aronia alnifolia* Nuttall  
*alnifolia* (Nuttall) Nuttall ex M. Roemer var. *pumila* (Torrey & Gray) C.K. Schneider = *Amelanchier alnifolia* (Nuttall) Nuttall ex M. Roemer  
*australis* Standley = *Amelanchier utahensis* Koehne  
*bakeri* Greene = *Amelanchier utahensis* Koehne  
*canadensis* (Linnaeus) Medikus var. *pumila* Torrey & Gray = *Amelanchier alnifolia* (Nuttall) Nuttall ex M. Roemer  
*crenata* Greene = *Amelanchier utahensis* Koehne  
*goldmanii* Wootton & Standley = *Amelanchier utahensis* Koehne

*mormonica* C.K. Schneider = *Amelanchier utahensis* Koehne  
*oreophila* A. Nelson = *Amelanchier utahensis* Koehne  
*polycarpa* Greene = *Amelanchier alnifolia* (Nuttall) Nuttall ex M. Roemer  
*pumila* Nuttall ex Torrey & Gray nom. nud. = *Amelanchier alnifolia* (Nuttall) Nuttall ex M. Roemer

*rubescense* Greene = *Amelanchier utahensis* Koehne

**utahensis** Koehne [M&H; W&S]

*Amelanchier australis* Standley  
*Amelanchier bakeri* Greene  
*Amelanchier crenata* Greene  
*Amelanchier goldmanii* Wooton & Standley  
*Amelanchier mormonica* C.K. Schneider  
*Amelanchier oreophila* A. Nelson  
*Amelanchier rubescense* Greene

*Amygdalus persica* Linnaeus = *Prunus persica* (Linnaeus) Batsch

*Argentina anserina* (Linnaeus) Rydberg = *Potentilla anserina* Linnaeus

*argentea* Rydberg = *Potentilla anserina* Linnaeus

*Armeniaca vulgaris* Lamarck = *Persica armeniaca* Linnaeus

*Aronia alnifolia* Nuttall = *Amelanchier alnifolia* (Nuttall) Nuttall ex M. Roemer

*Bossekia deliciosa* (Torrey) A. Nelson = *Rubus deliciosus* Torrey var. *deliciosus*

*parviflora* (Nuttall) Greene = *Rubus parviflorus* Nuttall

*Cerasus crenulata* Greene = *Prunus emarginata* (Douglas ex Hooker) D. Dietrich

*demissa* Nuttall = *Prunus virginiana* Linnaeus var. *demissa* (Nuttall) Torrey

*emarginata* Douglas ex Hooker = *Prunus emarginata* (Douglas ex Hooker) D. Dietrich

**Cercocarpus** mountain mahogany

Denham, R.A. 1996. Key to the taxa of *Cercocarpus* (mountain mahogany) in New Mexico. *The New Mexico Botanist* 4:3-5.

Henrickson, J. & B.D. Vanden Heuvel. 2014. *Cercocarpus*, pp. 332-338. IN: *Flora of North America*, vol. 9. Oxford University Press.

Lis, R.A. 1992. Leaf architectural survey of *Cercocarpus* (Rosaceae) and its systematic significance. *Int. J. Plant Sci.* 153(2):258-272.

Marley, G.A. and W.L. Wagner. 1981. Noteworthy collections (New Mexico). *Madroño* 28:41-43. [*Cercocarpus intricatus*]

*argenteus* Rydberg = *Cercocarpus montanus* Rafinesque var. *argenteus* (Rydberg) F. L. Martin

*arizonicus* M.E. Jones = *Cercocarpus ledifolius* Nuttall

**breviflorus** Gray [Denham 1996; M&H; W&S]

*Cercocarpus breviflorus* Gray var. *eximius* C.K. Schneider  
*Cercocarpus eximius* (C.K. Schneider) Rydberg  
*Cercocarpus montanus* Rafinesque var. *paucidentatus* (S. Watson) F.L. Martin  
*Cercocarpus parviflorus* Nuttall ex Hooker & Arnott var. *paucidentatus* S. Watson

*Cercocarpus paucidentatus* (S. Watson) Britton

*breviflorus* Gray var. *eximius* C.K. Schneider = *Cercocarpus breviflorus* Gray

*eximius* (C.K. Schneider) Rydberg = *Cercocarpus breviflorus* Gray

*intricatus* S. Watson = *Cercocarpus ledifolius* Nuttall

**ledifolius** Nuttall [Denham 1996; Henrickson & Vanden Heuvel 2014; Marley & Wagner 1981]

*Cercocarpus arizonicus* M.E. Jones  
*Cercocarpus intricatus* S. Watson  
*Cercocarpus ledifolius* Nuttall var. *intricatus* (S. Watson) M.E. Jones

**montanus** Rafinesque [Denham 1996; M&H; W&S]

*Cercocarpus argenteus* Rydberg  
*Cercocarpus montanus* Rafinesque var. *argenteus* (Rydberg) F.L. Martin  
*Cercocarpus parvifolius* C.K. Schneider

*montanus* Rafinesque var. *argenteus* (Rydberg) F.L. Martin = *Cercocarpus montanus* Rafinesque

*montanus* Rafinesque var. *paucidentatus* (S. Watson) F. L. Martin = *Cercocarpus breviflorus* Gray

*parviflorus* Nuttall ex Hooker & Arnott var. *paucidentatus* S. Watson = *Cercocarpus breviflorus* Gray

*parvifolius* C.K. Schneider = *Cercocarpus montanus* Rafinesque



- paucidentatus* (S. Watson) Britton = *Cercocarpus breviflorus* Gray  
*Coleogyne ramosissima* Torrey : Reported as expected by M&H; awaits verification.  
*Cowania mexicana* D. Don var. *stansburyana* (Torrey) Jepson = *Purshia stansburyana* (Torrey) Henrickson  
*stansburyana* Torrey = *Purshia stansburyana* (Torrey) Henrickson
- Crataegus** hawthorn  
 Legler, B.S. 2010. Additions to the vascular flora of New Mexico. *J. Bot. Res. Inst. Texas* 4(2):777-784. [*Crataegus chrysocarpa*]  
 Phipps, J.B. 1998. Introduction to the red-fruited hawthorns (*Crataegus*, Rosaceae) of western North America. *Can. J. Bot.* 76:1863-1899.  
 Phipps, J.B. 1999. The relationships of the American black-fruited hawthorns *Crataegus erythropoda*, *C. rivularis*, *C. saligna* and *C. brachyacantha* to *C. ser. Douglasianae* (Rosaceae). *Sida* 18(3):647-660.  
 Phipps, J.B. 2014. *Crataegus*, pp. 491-643. IN: *Flora of North America*, vol. 9. Oxford University Press.  
*cerronis* A. Nelson = *Crataegus erythropoda* Ashe  
*chrysocarpa* Ashe var. *chrysocarpa* [Legler 2010]  
*erythropoda* Ashe [M&H; Phipps 1998; W&S]  
*Crataegus cerronis* A. Nelson  
*macracantha* Loddiges ex Loudon [Phipps 1998]  
*Crataegus macracantha* Loddiges ex Loudon var. *occidentalis* (Britton) Eggleston  
*Crataegus occidentalis* Britton  
*Crataegus succulenta* Schrader ex Link var. *macracantha* (Loddiges ex Loudon) Eggleston  
*occidentalis* Britton = *Crataegus macracantha* Loddiges ex Loudon  
*rivularis* Nuttall [M&H; Phipps 1999; W&S]  
*succulenta* Schrader ex Link var. *macracantha* (Loddiges ex Loudon) Eggleston = *Crataegus macracantha* Loddiges ex Loudon  
 +*wootoniana* Eggleston [M&H; Phipps 1998; W&S]
- Dasiphora** shrubby cinquefoil  
 Ertter, B. 2007. Generic realignments in Tribe Potentilleae and revision of *Drymocallis* (Rosoideae: Rosaceae) in North America. *J. Bot. Res. Inst. Texas* 1(1):31-46.  
 Ertter, B. & J.L. Reveal. 2014. *Dasiphora*, pp. 295-297. IN: *Flora of North America*, vol. 9. Oxford University Press.  
*floribunda* (Pursh) Rafinesque = *Dasiphora fruticosa* (Linnaeus) Rydberg  
*fruticosa* (Linnaeus) Rydberg  
*Dasiphora floribunda* (Pursh) Rafinesque  
*Pentaphylloides fruticosa* (Linnaeus) O. Schwarz  
*Potentilla floribunda* Pursh  
*Potentilla fruticosa* Linnaeus
- Drymocallis**  
 Ertter, B. 2007. Generic realignments in Tribe Potentilleae and revision of *Drymocallis* (Rosoideae: Rosaceae) in North America. *J. Bot. Res. Inst. Texas* 1(1):31-46.  
 Ertter, B. 2014. *Drymocallis*, pp. 280-295. IN: *Flora of North America*, vol. 9. Oxford University Press. [*Drymocallis arguta*]  
 Hartman, R.L., B. Reif, B.E. Nelson, & B. Jacobs. 2006. New vascular plant records for New Mexico. *Sida* 22(2):1225-1233. [*Drymocallis fissa*]  
*arguta* (Pursh) Rydberg [Ertter et al. 2014]  
*Potentilla arguta* Pursh  
 convallaria (Rydberg) Rydberg : Reported by several works, but Ertter et al. (2014) refers NM material to *Drymocallis arguta* (Pursh) Rydberg  
*Potentilla arguta* Pursh subsp. *convallaria* (Rydberg) Keck  
*Potentilla convallaria* Rydberg  
*fissa* (Nuttall) Rydberg [Hartman et al. 2006]  
*Potentilla fissa* Nuttall  
*Potentilla fissa* Nuttall var. *major* Torrey & Gray  
*glandulosa* (Lindley) Rydberg [M&H; W&S]  
*Potentilla glandulosa* Lindley
- Fallugia** Apache-plume  
 Henrickson, J. 2001. Systematics and relationships of *Fallugia* (Rosoideae-Rosaceae). *Aliso* 20: 1-15.  
*paradoxa* (D. Don) Endlicher ex Torrey [M&H; W&S]

- Fallugia paradoxa* (D. Don) Endlicher ex Torrey var. *acuminata* Wooton  
*Fallugia micrantha* Cockerell  
*Sieversia paradoxa* D. Don  
*paradoxa* (D. Don) Endlicher var. *acuminata* Wooton = *Fallugia paradoxa* (D. Don)  
 Endlicher ex Torrey  
*micrantha* Cockerell = *Fallugia paradoxa* (D. Don) Endlicher ex Torrey
- Fragaria** strawberry  
 Staudt, G. 1962. Taxonomic studies in the genus *Fragaria*: Typification of *Fragaria* species known at the time of Linnaeus. Can. J. Bot. 40:869-886.  
 Staudt, G. 1999. Systematics and geographic distribution of the American strawberry species. University of California Press, Berkeley.  
 Staudt, G. 2014. *Fragaria*, pp. 274-279. IN: Flora of North America, vol. 9. Oxford University Press.  
*americana* of NM authors = *Fragaria vesca* Linnaeus  
*bracteata* Heller = *Fragaria vesca* Linnaeus subsp. *bracteata* (Heller) Staudt  
*firma* Rydberg = *Fragaria virginiana* Miller subsp. *glauca* (S. Watson) Staudt  
*glauca* (S. Watson) Rydberg = *Fragaria virginiana* Miller subsp. *glauca* (S. Watson) Staudt  
*mexicana* sensu W&S = *Fragaria virginiana* Miller subsp. *glauca* (S. Watson) Staudt  
*ovalis* (Lehmann) Rydberg = *Fragaria virginiana* Miller subsp. *glauca* (S. Watson) Staudt  
***vesca*** Linnaeus subsp. ***bracteata*** (Heller) Staudt [M&H; W&S]  
*Fragaria americana* of NM reports  
*Fragaria bracteata* Heller  
*Fragaria vesca* Linnaeus var. *bracteata* (Heller) R.J. Davis  
*vesca* Linnaeus var. *bracteata* (Heller) R.J. Davis = *Fragaria vesca* Linnaeus subsp.  
*bracteata* (Heller) Staudt  
***virginiana*** Miller subsp. ***glauca*** (S. Watson) Staudt [M&H; W&S]  
*Fragaria firma* Rydberg  
*Fragaria glauca* (S. Watson) Rydberg  
*Fragaria mexicana* sensu W&S  
*Fragaria ovalis* (Lehmann) Rydberg  
*Fragaria virginiana* Miller var. *glauca* S. Watson  
*Potentilla ovalis* Lehmann  
*virginiana* Miller subsp. *glauca* (S. Watson) Staudt = *Fragaria virginiana* Miller subsp.  
*glauca* (S. Watson) Staudt  
*virginiana* Miller subsp. *glauca* (S. Watson) Staudt = *Fragaria virginiana* Miller subsp.  
*glauca* (S. Watson) Staudt
- Geum** avens  
 Hartman, R.L., B. Reif, B.E. Nelson, & B. Jacobs. 2006. New vascular plant records for New Mexico. Sida 22(2):1225-1233. [*Geum triflorum triflorum*]  
 Rohrer, J.R. 2014. *Geum*, pp. 58-70. IN: Flora of North America, vol. 9. Oxford University Press.  
 Taylor, K. 1997. *Geum rivale* L. J. Ecology 85(5): 721-731.  
***aleppicum*** Jacquin [M&H; W&S]  
*Geum aleppicum* Jacquin var. *decurrens* (Rydberg) Kearney & Peebles  
*Geum decurrens* Rydberg  
*Geum strictum* Aiton (nom. illegit.)  
*Geum strictum* Aiton var. *decurrens* (Rydberg) Kearney & Peebles (nom. illegit.)  
*aleppicum* Jacquin var. *decurrens* (Rydberg) Kearney & Peebles = *Geum aleppicum* Jacquin  
*ciliatum* Pursh = *Geum triflorum* Pursh var. *ciliatum* (Pursh) Fassett  
*decurrens* Rydberg = *Geum aleppicum* Jacquin  
***macrophyllum*** Willdenow var. ***perincisum*** (Rydberg) Raup [M&H; W&S]  
*Geum oregonense* (Scheutz) Rydberg  
*Geum perincisum* Rydberg  
*oregonense* (Scheutz) Rydberg = *Geum macrophyllum* Willdenow var. *perincisum* (Rydberg) Raup  
*perincisum* Rydberg = *Geum macrophyllum* Willdenow var. *perincisum* (Rydberg) Raup  
***rivale*** Linnaeus [M&H; W&S]  
***rossii*** (R. Brown) Seringe var. ***turbinatum*** (Rydberg) C.L. Hitchcock [M&H; W&S]  
*Acomastylis rossii* (R. Brown) Greene  
*Geum turbinatum* Rydberg

- Sieversia turbinata* (Rydberg) Greene  
*strictum* Aiton var. *decurrens* (Rydberg) Kearney & Peebles (nom. illegit.) = *Geum aleppicum* Jacquin  
*strictum* Aiton (nom. illegit.) = *Geum aleppicum* Jacquin  
***triflorum*** Pursh var. ***ciliatum*** (Pursh) Fassett [M&H; W&S]  
*Geum ciliatum* Pursh  
*Sieversia ciliata* (Pursh) G. Don  
*Sieversia grisea* (Greene) Rydberg  
***triflorum*** Pursh var. ***triflorum*** [Hartman et al. 2006; Rohrer 2014]  
*turbinatum* Rydberg = *Geum rossii* (R. Brown) Seringe var. *turbinatum* (Rydberg) C.L. Hitchcock
- Holodiscus*** mountain-spray  
Ley, A. 1943. A taxonomic revision of the genus *Holodiscus* (Rosaceae). Bull. Torrey Bot. Club 70:275-288.  
Lis, R.A. 2014. *Holodiscus*, pp. 415-421. IN: Flora of North America, vol. 9. Oxford University Press.  
*australis* Heller = *Holodiscus dumosus* (Nuttall ex Hooker) Heller  
***discolor*** (Pursh) Maximowicz var. ***discolor*** [Lis 2014; M&H; W&S]  
*Holodiscus australis* Heller  
*Holodiscus dumosus* (S. Watson) Heller var. *australis* (Heller) Ley  
*Spiraea discolor* Pursh  
***discolor*** (Pursh) Maximowicz var. ***dumosus*** (S. Watson) Maximowicz ex J.M. Coulter [Lis 2014; M&H; W&S]  
*Holodiscus dumosus* (S. Watson) Heller  
*Sericotheca dumosa* (S. Watson) Rydberg  
*Spiraea discolor* Pursh var. *dumosa* S. Watson  
*Spiraea dumosa* Nuttall ex Hooker, nom. ill.  
*dumosus* (S. Watson) Heller = *Holodiscus discolor* (Pursh) Maximowicz var. *dumosus* (S. Watson) Maximowicz ex J.M. Coulter  
*dumosus* (S. Watson) Heller var. *australis* (Heller) Ley = *Holodiscus discolor* (Pursh) Maximowicz var. *discolor*  
*australis* Heller = *Holodiscus discolor* (Pursh) Maximowicz var. *discolor*
- Malus*** apple  
Dickson, E.E. 2014. *Malus*, pp. 472-479. IN: Flora of North America, vol. 9. Oxford University Press.  
Sibley, D.A. 2009. The Sibley Guide to Trees. Alfred A. Knopf, New York. 426 pp.  
*communis* Poir = *Malus domestica* (Suckow) Borkhausen  
\****domestica*** (Suckow) Borkhausen [M&H]  
*Malus communis* Poir  
*Malus pumila* P. Miller  
*Malus sylvestris* P. Miller  
*Pyrus malus* Linnaeus  
*Pyrus malus* Linnaeus var. *domestica* Suckow  
\****ioensis*** (A. Wood) Britton [FNM I]  
*Pyrus coronaria* Linnaeus var. *ioensis* A. Wood  
*pumila* P. Miller = *Malus domestica* (Suckow) Borkhausen  
*sylvestris* P. Miller = *Malus domestica* (Suckow) Borkhausen  
*Opulaster monogynus* (Torrey) Kuntze = *Physocarpus monogynus* (Torrey) Coulter  
*Oreobatus deliciosus* (Torrey) Rydberg = *Rubus deliciosus* Torrey  
*rubicundus* Wooton & Standley = *Rubus neomexicanus* Gray  
*neomexicanus* (Gray) Rydberg = *Rubus neomexicanus* Gray  
*Padus calophylla* Wooton & Standley = *Prunus virginiana* Linnaeus var. *demissa* (Nuttall) Torrey  
*melanocarpa* (A. Nelson) Shafer = *Prunus virginiana* Linnaeus var. *demissa* (Nuttall) Torrey  
*mescaleria* Wooton & Standley = *Prunus virginiana* Linnaeus var. *demissa* (Nuttall) Torrey  
*pumicea* Wooton & Standley = *Prunus virginiana* Linnaeus var. *demissa* (Nuttall) Torrey  
*rufula* Wooton & Standley = *Prunus serotina* Ehrhart var. *rufula* (Wooton & Standley) McVaugh  
*valida* Wooton & Standley = *Prunus virginiana* Linnaeus var. *demissa* (Nuttall) Torrey  
*virens* Wooton & Standley = *Prunus serotina* Ehrhart var. *rufula* (Wooton & Standley) McVaugh

- virginiana* (Linnaeus) Miller = *Prunus virginiana* Linnaeus var. *virginiana*  
*Pentaphylloides fruticosa* (Linnaeus) O. Schwarz = *Dasiphora fruticosa* (Linnaeus) Rydberg
- Peraphyllum** Indian-apple  
*ramosissimum* Nuttall [M&H; W&S]
- Petrophytum** rock-spiraea  
 Lis, R.A. 2014. *Petrophytum*, pp. 4-414. IN: Flora of North America, vol. 9. Oxford University Press.  
*caespitosum* (Nuttall) Rydberg [M&H; W&S]  
*Spiraea caespitosa* Nuttall  
*Spiraea caespitosa* Nuttall var. *elatus* (Nuttall) Tidestrom
- Physocarpus** ninebark  
 Alexander, C. 2014. *Physocarpus*, pp. 347-350. IN: Flora of North America, vol. 9. Oxford University Press.  
*monogynus* (Torrey) Coulter [M&H; W&S]  
*Opulaster monogynus* (Torrey) Kuntze  
*Spiraea monogyna* Torrey
- Potentilla** cinquefoil  
 Ertter, B. 2007. Generic realignments in Tribe Potentilleae and revision of *Drymocallis* (Rosoidae: Rosaceae) in North America. J. Bot. Res. Inst. Texas 1(1):31-46.  
 Ertter, B., R. Elven, J.L. Reveal, D.F. Murray. 2014. *Potentilla*, pp. 121-218. IN: Flora of North America, vol. 9. Oxford University Press.  
 Hitchcock, C.L., A. Cronquist, M. Ownbey, & J.W. Thompson. 1955-1969. Vascular Plants of the Pacific Northwest. 5 vols. Univ. Washington Press, Seattle. [*Potentilla ovina*?]  
 Holmgren, N. 1997. Rosaceae, pp. 64-158. IN: Intermountain Flora, vol. 3A. New York Botanical Garden.  
 Johnston, B.C. 1980. Studies of population variability leading to a new classification of *Potentilla* sect. *Multijugae*. Ph.D. dissertation. University of Colorado.  
 Kohli, B. & J.G. Packer. 1976. A contribution to the taxonomy of the *Potentilla pensylvanica* complex in North America. Can. J. Bot. 54:706-719. [*Potentilla bipinnatifida*]  
 Legler, B.S. 2010. Additions to the vascular flora of New Mexico. J. Bot. Res. Inst. Texas 4(2):777-784. [*Potentilla nivea*]  
 Mackay, H. 1970. A comparative floristic study of Rio Hondo Canyon – Lake Fork – Wheeler Peak locale, New Mexico, and the Huerfano River – Blanca Peak locale, Colorado. Ph.D. dissertation, University of New Mexico, Albuquerque.  
 McGrath, J. 2009. Plant distribution reports (*Potentilla recta*). The New Mexico Botanist 47:7.  
 McKay, H.A. 1970. A comparative floristic study of the Rio Hondo Canyon-Lake Fork-Wheeler Peak locale, New Mexico, and the Huerfano River-Blanca Peak locale, Colorado. Ph.D., University of New Mexico. 226 pp. [*Potentilla uniflora*]  
 Peterson, R.S. 2000. On our alpine *Potentillas*. The New Mexico Botanist 16:5.  
 Rydberg, P.A. 1908. *Potentilla* [under *Potentilla*, *Argentina*, *Comarum*, *Dasiphora*, & *Drymocallis*]. N. Amer. Fl. 22(4):293-355, 366-376.  
 Welsh, S.L., N.D. Atwood, S. Goodrich, & L.C. Higgins (eds.). 1993. A Utah Flora. 2nd ed. Provo, Utah: Brigham Young Univ. Press. [*Potentilla gracilis* vars. *elmeri* & *glabrata*]
- ambigena** Greene [Erter et al. 2014; M&H; W&S]
- anserina** Linnaeus [Erter et al. 2014; M&H; W&S]  
*Argentina anserina* (Linnaeus) Rydberg  
*Argentina argentea* Rydberg  
*Potentilla anserina* Linnaeus var. *concolor* Seringe  
*Potentilla anseriana* Linnaeus var. *sericea* (Linnaeus) Hayne  
*anserina* Linnaeus var. *concolor* Seringe = *Potentilla anseriana* Linnaeus  
*anserina* Linnaeus var. *sericea* (Linnaeus) Hayne = *Potentilla anseriana* Linnaeus  
*arguta* Pursh subsp. *convallaria* (Rydberg) Keck = *Drymocallis convallaria* (Rydberg) Rydberg  
*atrorubens* Rydberg = *Potentilla thurberi* Gray
- bicrenata** Rydberg [Erter et al. 2014; M&H; W&S]  
*Potentilla concinna* L.C.M. Richard var. *bicrenata* (Rydberg) Welsh & Johnston
- biennis** Greene [Erter et al. 2014]
- bipinnatifida** Douglas ex Hooker [Erter et al. 2014; Kohli & Packer 1976]  
*concinna* L.C.M. Richard var. *bicrenata* (Rydberg) Welsh & Johnston = *Potentilla bicrenata* Rydberg
- concinna** L.C.M. Richard [Erter et al. 2014; M&H; Peterson 2000]  
*Potentilla concinna* L.C.M. Richard var. *proxima* (Rydberg) Welsh & Johnston  
*Potentilla divisa* (Rydberg) Rydberg  
*Potentilla oblanceolata* Rydberg

- Potentilla proxima* Rydberg  
*concinna* L.C.M. Richard var. *proxima* (Rydberg) Welsh & Johnston = *Potentilla concinna*  
 L.C.M. Richard  
*concinna* L.C.M. Richard var. *rubripes* (Rydberg) C.L. Hitchcock = *Potentilla subjuga*  
 Rydberg  
*convallaria* Rydberg = *Drymocallis convallaria* (Rydberg) Rydberg  
***crinita*** Gray [Errter et al. 2014; W&S]  
*Potentilla lemmoni* (S. Watson) Greene  
*Potentilla crinita* Gray var. *lemmoni* (S. Watson) Kearney & Peebles  
*diffusa* A. Gray = *Potentilla hippiana* Lehmann  
*divisa* (Rydberg) Rydberg = *Potentilla concinna* L.C.M. Richard var. *concinna*  
*diversifolia* Lehmann var. *glaucophylla* (Lehmann) Lehmann = *Potentilla glaucophylla*  
 Lehmann  
*effusa* Douglas ex Lehmann : included for NM by Errter et al. (2014), based on an  
 undocumented report in Johnston (1980); awaits verification.  
*Potentilla hippiana* Lehmann subsp. *effusa* (Douglas ex Lehmann) Dorn  
*Potentilla hippiana* Lehmann var. *effusa* (Douglas ex Lehmann) Dorn  
*elmeri* Rydberg = *Potentilla gracilis* Douglas ex Hooker  
*fastigiata* Nuttall = *Potentilla gracilis* Douglas ex Hooker  
*filipes* Rydberg = *Potentilla pulcherrima* Lehmann  
*fissa* Nuttall = *Drymocallis fissa* (Nuttall) Rydberg  
*fissa* Nuttall var. *major* Torrey & Gray = *Drymocallis fissa* (Nuttall) Rydberg  
*floribunda* Pursh = *Dasiphora fruticosa* (Linnaeus) Rydberg  
*fruticosa* Linnaeus = *Dasiphora fruticosa* (Linnaeus) Rydberg  
*glandulosa* Lindley = *Drymocallis glandulosa* (Lindley) Rydberg  
***glaucophylla*** Lehmann var. ***glaucophylla*** [M&H; W&S]  
*Potentilla diversifolia* Lehmann var. *glaucophylla* (Lehmann) Lehmann  
***gracilis*** Douglas ex Hooker [Holmgren 1997; Welsh et al. 1993]  
*Potentilla elmeri* Rydberg  
*Potentilla fastigiata* Nuttall  
*Potentilla gracilis* Douglas ex Hooker var. *elmeri* (Rydberg) Jepson  
*Potentilla gracilis* Douglas ex Hooker var. *fastigiata* (Nuttall) S. Watson  
*Potentilla gracilis* Douglas ex Hooker var. *glabrata* (Lehmann) C.L. Hitchcock  
*Potentilla nuttallii* Lehmann  
*Potentilla nuttallii* Lehmann var. *glabrata* Lehmann  
*Potentilla pectinisecta* Rydberg  
*gracilis* Douglas ex Hooker var. *elmeri* (Rydberg) Jepson = *Potentilla gracilis* Douglas ex  
 Hooker  
*gracilis* Douglas ex Hooker var. *fastigiata* (Nuttall) S. Watson = *Potentilla gracilis* Douglas  
 ex Hooker  
*gracilis* Douglas ex Hooker var. *glabrata* (Lehmann) C.L. Hitchcock = *Potentilla gracilis*  
 Douglas ex Hooker  
*gracilis* Douglas ex Hooker var. *pulcherrima* (Lehmann) Fernald = *Potentilla pulcherrima*  
 Lehmann  
*hippiana* Lehmann var. *diffusa* (A. Gray) Lehmann = *Potentilla hippiana* Lehmann  
*hippiana* Lehmann subsp. *effusa* (Douglas ex Lehmann) Dorn = *Potentilla effusa* Douglas  
 ex Lehmann  
*hippiana* Lehmann var. *effusa* (Douglas ex Lehmann) Dorn = *Potentilla effusa* Douglas ex  
 Lehmann  
***hippiana*** Lehmann [Errter et al. 2014; M&H; W&S]  
*Potentilla diffusa* A. Gray  
*Potentilla hippiana* Lehmann var. *diffusa* (A. Gray) Lehmann  
*Potentilla propinqua* Rydberg  
*lemmoni* (S. Watson) Greene = *Potentilla crinita* Gray  
*leucocarpa* Rydberg = *Potentilla rivalis* Nuttall  
*millegrana* Engelman = *Potentilla rivalis* Nuttall  
*monspeliensis* Linnaeus = *Potentilla norvegica* Linnaeus  
***nivea*** Linnaeus [Errter et al. 2014; Legler 2010]  
*Potentilla uniflora* of NM reports  
***norvegica*** Linnaeus [Errter et al. 2014; M&H; W&S]

- Potentilla monspeliensis* Linnaeus  
*Potentilla norvegica* Linnaeus subsp. *hirsuta* (Michaux) Hylander  
*Potentilla norvegica* Linnaeus var. *hirsuta* (Michaux) Lehmann  
*norvegica* Linnaeus subsp. *hirsuta* (Michaux) Hylander = *Potentilla norvegica* Linnaeus  
*norvegica* Linnaeus var. *hirsuta* (Michaux) Lehmann = *Potentilla norvegica* Linnaeus  
*nuttallii* Lehmann = *Potentilla gracilis* Douglas ex Hooker  
*nuttallii* Lehmann var. *glabrata* Lehmann = *Potentilla gracilis* Douglas ex Hooker  
*oblanceolata* Rydberg = *Potentilla concinna* L.C.M. Richard  
*ovalis* Lehmann = *Fragaria virginiana* Miller subsp. *glauca* (S. Watson) Staudt  
*ovina* Macoun ex J.M. Macoun : Reported by Kartesz (1999) based on Hitchcock et al. (1955-1969), but not by any other workers; awaits verification.  
*paradoxa* Nuttall = *Potentilla supina* Linnaeus subsp. *paradoxa* (Nuttall) Sojak  
*pectinisecta* Rydberg = *Potentilla gracilis* Douglas ex Hooker var. *elmeri* (Rydberg) Jepson  
***pennsylvanica*** Linnaeus [Erter et al. 2014; M&H; W&S]  
*Potentilla strigosa* auctores  
***plattensis*** Nuttall [M&H; W&S]  
*propinqua* Rydberg = *Potentilla hippiana* Lehmann  
*proxima* Rydberg = *Potentilla concinna* L.C.M. Richard  
***pulcherrima*** Lehmann [Erter et al. 2014; M&H; W&S]  
*Potentilla filipes* Rydberg  
*Potentilla gracilis* Douglas ex Hooker var. *pulcherrima* (Lehmann) Fernald  
\****recta*** Linnaeus [Erter et al. 2014; McGrath 2009]  
*rivalis* Nuttall var. *millegrana* (Engelmann) S. Watson = *Potentilla rivalis* Nuttall  
***rivalis*** Nuttall [Erter et al. 2014; M&H; W&S]  
*Potentilla leucocarpa* Rydberg  
*Potentilla millegrana* Engelmann  
*Potentilla rivalis* Nuttall var. *millegrana* (Engelmann) S. Watson  
*rubricaulis* Lehmann : Reported tenuously by Baker (1983), but questioned by Peterson (2000)  
*rubripes* Rydberg = *Potentilla subjuga* Rydberg  
*sibbaldii* Hall f. = *Sibbaldia procumbens* Linnaeus  
+***sierrae-blancae*** Wootton & Rydberg [Erter et al. 2014; M&H; W&S]  
*strigosa* auctores = *Potentilla pennsylvanica* Linnaeus  
***subjuga*** Rydberg [Erter et al. 2014; Spellenberg et al. 1986]  
*Potentilla concinna* L.C.M. Richard var. *rubripes* (Rydberg) C.L. Hitchcock  
*Potentilla rubripes* Rydberg  
***subviscosa*** Greene [Erter et al. 2014; M&H; W&S]  
***supina*** Linnaeus subsp. ***paradoxa*** (Nuttall) Sojak [Erter et al. 2014; M&H; W&S]  
*Potentilla paradoxa* Nuttall  
***thurberi*** Gray [Erter et al. 2014; M&H; W&S]  
*Potentilla atrorubens* Rydberg  
*Potentilla thurberi* Gray var. *atrorubens* (Rydberg) Kearney & Peebles  
*thurberi* Gray var. *atrorubens* (Rydberg) Kearney & Peebles = *Potentilla thurberi* Gray  
***townsendii*** Rydberg [Erter et al. 2014]  
*uniflora* of NM reports = *Potentilla nivea* Linnaeus
- Poteridium** burnet  
Potter, D., T. Eriksson, R.C. Evans, S. Oh, J.E.E. Smedmark, D.R. Morgan, M. Kerr, K.R. Robertson, M. Arsenault, T.A. Dickinson, & C.S. Campbell. 2007. Phylogeny and classification of Rosaceae. Pl. Syst. Evol. 266: 5-43.  
Weakley, A.S. 2014. *Poteridium*, pp. 319-320. IN: Flora of North America, vol. 9. Oxford University Press.  
***occidentale*** (Nuttall) Rydberg [Weakley 2014]  
*Sanguisorba occidentale* Nuttall
- Poterium** burnet  
Nordborg, G. 1967. The genus *Sanguisorba* section *Poterium*: Experimental studies and taxonomy. Opera Bot. 16: 1-166.  
Potter, D., T. Eriksson, R.C. Evans, S. Oh, J.E.E. Smedmark, D.R. Morgan, M. Kerr, K.R. Robertson, M. Arsenault, T.A. Dickinson, & C.S. Campbell. 2007. Phylogeny and classification of Rosaceae. Pl. Syst. Evol. 266: 5-43.  
Weakley, A.S. 2014. *Poterium*, pp. 318-319. IN: Flora of North America, vol. 9. Oxford University Press.

*polygamum* Waldstein & Kitaibel = *Poterium sanguisorba* Linnaeus var. *polygamum*  
(Waldstein & Kitaibel) Visiani

\**sanguisorba* Linnaeus var. *polygamum* (Waldstein & Kitaibel) Visiani [M&H;  
Weakley 2014]

*Poterium polygamum* Waldstein & Kitaibel

*Poterium spachianum* Cosson subsp. *balearicum* Bourgeau ex Nyman

*Sanguisorba minor* Scopoli subsp. *balearica* (Bourgeau ex Nyman) M.  
Garmendia & C. Navarro

*Sanguisorba minor* Scopoli subsp. *muricata* (Spach ex Bonnier & Layens)  
Nordborg

*spachianum* Cosson subsp. *balearicum* Bourgeau ex Nyman = *Poterium sanguisorba*  
Linnaeus var. *polygamum* (Waldstein & Kitaibel) Visiani

## **Prunus** plum, cherry

Cox, G. 2004. Plant distribution reports. The New Mexico Botanist 31:1. [*Prunus armeniaca*]

Hartman, R.L., B. Reif, B.E. Nelson, & B. Jacobs. 2006. New vascular plant records for New Mexico. Sida  
22(2):1225-1233. [*Prunus persica*]

Heil, K. 2007. Plant distribution reports [*Prunus avium*]. The New Mexico Botanist 39:7.

McVaugh, R. 1951. Revision of the North American black cherries. Brittonia 7(4):279-315.

Rohrer, J.R. 2014. *Prunus*, pp. 352-383. IN: Flora of North America, vol. 9. Oxford University Press.

Sargent, C.S. 1920. Notes on North American trees. VII. J. Arnold Arbor. 1:112-122. [*Prunus virginiana*  
*demissa*]

Sibley, D.A. 2009. The Sibley Guide to Trees. Alfred A. Knopf, New York. 426 pp. [*Prunus cerasifera*]

*americana* Marshall [M&H; W&S]

American plum

*angustifolia* Marshall [M&H; W&S]

Chickasaw plum

*Prunus angustifolia* Marshall var. *watsonii* (Sargent) Waugh

*Prunus watsonii* Sargent

*angustifolia* Marshall var. *watsonii* (Sargent) Waugh = *Prunus angustifolia* Marshall

\**armeniaca* Linnaeus [Cox 2004]

apricot

*Armeniaca vulgaris* Lamarck

\**avium* (Linnaeus) Linnaeus [Heil 2007]

sweet cherry

*Prunus cerasus* Linnaeus var. *avium* Linnaeus

\**cerasifera* Ehrhart : Reported for NM by Sibley (2009); requires verification.

\**cerasus* Linnaeus [M&H]

sour cherry

*emarginata* (Douglas ex Hooker) D. Dietrich var. *crenulata* (Greene) Kearney & Peebles =

*Prunus emarginata* (Douglas ex Hooker) D. Dietrich

*emarginata* (Douglas ex Hooker) D. Dietrich [M&H; W&S]

bitter cherry

*Cerasus crenulata* Greene

*Cerasus emarginata* Douglas ex Hooker

*Prunus emarginata* (Douglas ex Hooker) D. Dietrich var. *crenulata* (Greene)

Kearney & Peebles

*gracilis* Engelmann & Gray [M&H]

Oklahoma plum

*Prunus normalis* (Torrey & Gray) Small

\**mahaleb* Linnaeus [Rohrer 2014]

mahaleb cherry

*melanocarpa* (A. Nelson) Rydberg = *Prunus virginiana* Linnaeus var. *demissa* (Nuttall)

Torrey

*normalis* (Torrey & Gray) Small = *Prunus gracilis* Engelmann & Gray

\**persica* (Linnaeus) Batsch [Hartman et al. 2006]

peach

*Amygdalus persica* Linnaeus

*serotina* Ehrhart var. *rufula* (Wootton & Standley) McVaugh [M&H; W&S]

black cherry

- Padus rufula* Wooton & Standley  
*Padus virens* Wooton & Standley  
*Prunus serotina* Ehrhart var. *virens* (Wooton & Standley) McVaugh  
*Prunus virens* Wooton & Standley var. *rufula* (Wooton & Standley) Sargent  
*serotina* Ehrhart var. *virens* (Wooton & Standley) McVaugh = *Prunus serotina* Ehrhart var.  
*rufula* (Wooton & Standley) McVaugh  
*virens* Wooton & Standley var. *rufula* (Wooton & Standley) Sargent = *Prunus serotina*  
Ehrhart var. *rufula* (Wooton & Standley) McVaugh  
**virginiana** Linnaeus var. **demissa** (Nuttall) Torrey [M&H; Sargent 1920; W&S]  
chokecherry  
*Cerasus demissa* Nuttall  
*Padus calophylla* Wooton & Standley  
*Padus melanocarpa* (A. Nelson) Shafer  
*Padus mescaleria* Wooton & Standley  
*Padus pumicea* Wooton & Standley  
*Padus valida* Wooton & Standley  
*Prunus virginiana* Linnaeus var. *demissa* (Nuttall) Torrey forma *pachyrrhachis*  
Sargent  
*Prunus virginiana* Linnaeus var. *melanocarpa* (A. Nelson) Sargent  
*Prunus melanocarpa* (A. Nelson) Rydberg  
*virginiana* Linnaeus var. *demissa* (Nuttall) Torrey forma *pachyrrhachis* Sargent = *Prunus*  
*virginiana* Linnaeus var. *demissa* (Nuttall) Torrey  
*virginiana* Linnaeus var. *melanocarpa* (A. Nelson) Sargent = *Prunus virginiana* Linnaeus  
var. *demissa* (Nuttall) Torrey  
**virginiana** Linnaeus var. **virginiana** [Rohrer 2014]  
*Padus virginiana* (Linnaeus) Miller  
*watsonii* Sargent = *Prunus angustifolia* Marshall var. *watsonii* (Sargent) Waugh
- Purshia** cliffrose, bitterbrush  
Henrickson, J. 1986. Notes on Rosaceae. *Phytologia* 60:468.  
Henrickson, J. 2014. *Purshia*, pp. 339-342. IN: Flora of North America, vol. 9. Oxford University Press.  
Koehler, D.L. & D.M. Smith. 1981. Hybridization between *Cowania mexicana* var. *stansburyana* and  
*Purshia glandulosa* (Rosaceae). *Madroño* 28:13-25.  
Stutz, H.C. & L.K. Thomas. 1964. Hybridization and introgression in *Cowania* and *Purshia*. *Evolution*  
18:183-195.  
*mexicana* (D. Don) Welsh var. *stansburyana* (Torrey) Welsh = *Purshia stansburyana*  
(Torrey) Henrickson  
**stansburyana** (Torrey) Henrickson [M&H; W&S]  
cliffrose  
*Cowania mexicana* D. Don var. *stansburyana* (Torrey) Jepson  
*Cowania stansburyana* Torrey  
*Purshia mexicana* (D. Don) Welsh var. *stansburyana* (Torrey) Welsh
- tridentata** (Pursh) A.P. de Candolle [M&H; W&S]  
bitterbrush  
*Tigarea tridentata* Pursh (Dilleniaceae)
- Pyracantha** firethorn  
Sivinski, R.C. 1999. Plant distribution records. *The New Mexico Botanist* 12:8. [*Pyracantha coccinea*]  
\***coccinea** Roemer [Sivinski 1999]
- Pyrus** pear  
Allred, K.W. 1999. New plant distribution records. *The New Mexico Botanist* 13:7. [*Pyrus communis*]  
Catling, P.M. 2014. *Pyrus*, pp. 479-484. IN: Flora of North America, vol. 9. Oxford University Press.  
\***communis** Linnaeus [Allred 1999]  
*coronaria* Linnaeus var. *ioensis* A. Wood = *Malus ioensis* (A. Wood) Britton  
*malus* Linnaeus = *Malus domestica* (Suckow) Borkhausen  
*malus* Linnaeus var. *domestica* Suckow = *Malus domestica* (Suckow) Borkhausen
- Rosa** rose  
Legler, B.S. 2010. Additions to the vascular flora of New Mexico. *J. Bot. Res. Inst. Texas* 4(2):777-784.  
[*Rosa canina*]  
Lewis, W.H. 1965. Monograph of *Rosa* in North America. V. Subgenus *Hesperhodos*. *Ann. Missouri Bot. Gard.* 52:99-113.  
Lewis, W.H. & B. Ertter. 2007. Subspecies of *Rosa nutkana* and *R. woodsii* (Rosaceae) in western North America. *Novon* 17:341-353.



- Lewis, W.H. & B. Ertter. 2010. *Rosa woodsii* subsp. *puberulenta* and variety *erterae* (Rosaceae), new in western North America. *Novon* 20:47-52.
- Lewis, W.H., B. Ertter, & A. Bruneau. 2014. *Rosa*, pp. 75-119. IN: *Flora of North America*, vol. 9. Oxford University Press.
- McGrath, J. 2012. Plant distribution reports. *The New Mexico Botanist* 56:1. [*Rosa obtusifolia*]
- McVaugh, R. 1942. Rosaceae of Nevada. *Contr. Flora Nevada* No. 22, Div. Pl. Explor. & Introduct., Bur. Pl. Industry, U.S.D.A.
- Rink, G., A. Cully, & D.A. McCallum. 2009. A checklist of the vascular flora of El Morro National Monument, Cibola County, New Mexico. *J. Torr. Bot. Soc.* 136(3):403-421.
- Schiebout, M.H., D.L. Hazlett, & N. Snow. 2008. A floristic survey of vascular plants over parts of northeastern New Mexico. *J. Res. Inst. Texas* 2(2):1407-1447. [*Rosa* × *harisonii*]

***acicularis* Lindley var. *sayana* Erlanson [M&H; W&S]**

prickly rose

*Rosa acicularis* Lindley var. *bourgeauiana* (Crepin) Crepin

*Rosa acicularis* Lindley subsp. *sayi* (Schweinitz) W.H. Lewis

*Rosa bourgeauiana* Crepin

*Rosa sayi* Schweinitz

*acicularis* Lindley var. *bourgeauiana* (Crepin) Crepin = *Rosa acicularis* Lindley var. *sayana* Erlanson

*acicularis* Lindley subsp. *sayi* (Schweinitz) W.H. Lewis = *Rosa acicularis* Lindley var. *sayana* Erlanson

*adenosepala* Wooton & Standley = *Rosa woodsii* Lindley subsp. *arizonica* (Rydberg) W.H. Lewis & Ertter

*arizonica* Rydberg = *Rosa woodsii* Lindley subsp. *arizonica* (Rydberg) W.H. Lewis & Ertter

*arizonica* Rydberg var. *granulifera* Kearney & Peebles = *Rosa woodsii* Lindley subsp. *arizonica* (Rydberg) W.H. Lewis & Ertter

***arkansana* Porter [M&H; W&S]**

*Rosa arkansana* Porter var. *suffulta* (Greene) Cockerell

*Rosa suffulta* Greene

*bourgeauiana* Crepin = *Rosa acicularis* Lindley var. *sayana* Erlanson

*californica* Chamisso & Schlectendal var. *ultramontana* S. Watson = *Rosa woodsii* Lindley subsp. *arizonica* (Rydberg) W.H. Lewis & Ertter

**\**canina* Linnaeus [Legler 2010]**

dog rose

*fendleri* Crepin = *Rosa woodsii* Lindley subsp. *woodsii*

*granulifera* Rydberg = *Rosa woodsii* Lindley subsp. *arizonica* (Rydberg) W.H. Lewis & Ertter

**\*×*harisonii* Rivers [Schiebout et al. 2009]**

*helleri* Greene (= *Rosa gymnocarpa* Nuttall) : Reported doubtfully by W&S; not known from NM.

*hypoleuca* Wooton & Standley = *Rosa woodsii* Lindley subsp. *woodsii*

*macounii* Greene = *Rosa woodsii* Lindley subsp. *woodsii*

*manca* Greene = *Rosa woodsii* Lindley subsp. *manca* (Greene) Lewis & Ertter

*maximilliana* Rydberg = *Rosa woodsii* Lindley subsp. *woodsii*

*melina* Greene = *Rosa nutkana* Presl subsp. *melina* (Greene) W.H. Lewis & Ertter

*mirifica* Greene = *Rosa stellata* Wooton var. *mirifica* (Greene) Cockerell

**\**multiflora* Thunberg ex Murray [Heil et al. 2002]**

*neomexicana* Cockerell = *Rosa woodsii* Lindley subsp. *puberulenta* (Rydberg) W.H. Lewis & Ertter

***nutkana* Presl subsp. *melina* (Greene) W.H. Lewis & Ertter [M&H; W&S]**

*Rosa melina* Greene

*Rosa oreophila* Rydberg

**\**obtusifolia* Desvoux [McGrath 2012]**

*oreophila* Rydberg = *Rosa nutkana* Presl subsp. *melina* (Greene) W.H. Lewis & Ertter

*pecosensis* Cockerell = *Rosa woodsii* Lindley subsp. *ultramontana* (S. Watson) R.L. Taylor & MacBryde

*praetincta* Cockerell = *Rosa woodsii* Lindley subsp. *ultramontana* (S. Watson) R.L. Taylor & MacBryde

*puberulenta* Rydberg = *Rosa woodsii* Lindley subsp. *puberulenta* (Rydberg) W.H. Lewis & Ertter

- sayi* Schweinitz = *Rosa acicularis* Lindley var. *sayana* Erlanson  
*standleyi* Rydberg = *Rosa woodsii* Lindley subsp. *woodsii*  
***stellata*** Wooton var. ***erlansoniae*** W.H. Lewis [M&H]  
***stellata*** Wooton var. ***mirifica*** (Greene) Cockerell [M&H; W&S]  
     *Rosa mirifica* Greene  
     *Rosa stellata* Wooton subsp. *mirifica* (Greene) W.H. Lewis  
*stellata* Wooton subsp. *mirifica* (Greene) W.H. Lewis = *Rosa stellata* Wooton var. *mirifica*  
 (Greene) Cockerell  
***stellata*** Wooton var. ***stellata*** [M&H; W&S]  
*suffulta* Greene = *Rosa arkansana* Porter  
*woodsii* Lindley var. *adenosepala* (Wooton & Standley) Martin & Hutchins ined. [This  
 combination not validly published by M&H; see ICBN, Article 33] = *Rosa*  
*woodsii* Lindley subsp. *arizonica* (Rydberg) W.H. Lewis & Erter  
***woodsii*** Lindley subsp. ***arizonica*** (Rydberg) W.H. Lewis & Erter [M&H]  
     *Rosa adenosepala* Wooton & Standley  
     *Rosa arizonica* Rydberg  
     *Rosa arizonica* Rydberg var. *granulifera* Kearney & Peebles  
     *Rosa woodsii* Lindley var. *adenosepala* (Wooton & Standley) Martin &  
     Hutchins ined. [not validly published by Martin & Hutchins]  
     *Rosa woodsii* Lindley var. *arizonica* (Rydberg) W.H. Lewis  
     *Rosa woodsii* Lindley var. *arizonica* (Rydberg) Martin & Hutchins ined. [not  
     validly published by Martin & Hutchins]  
     *Rosa woodsii* Lindley var. *granulifera* (Rydberg) Martin & Hutchins ined. [not  
     validly published by Martin & Hutchins]  
*woodsii* Lindley var. *arizonica* (Rydberg) Martin & Hutchins ined. [This combination not  
 validly published by M&H; see ICBN, Article 33] = *Rosa woodsii* Lindley  
 var. *arizonica* (Rydberg) W.H. Lewis  
*woodsii* Lindley var. *fendleri* (Crepin) Rydberg = *Rosa woodsii* Lindley subsp. *woodsii*  
*woodsii* Lindley var. *granulifera* (Rydberg) Martin & Hutchins ined. [This combination not  
 validly published by M&H; see ICBN, Article 33] = *Rosa woodsii* Lindley  
 subsp. *arizonica* (Rydberg) W.H. Lewis & Erter  
*woodsii* Lindley var. *hypoleuca* (Wooton & Standley) Martin & Hutchins ined. [This  
 combination not validly published by M&H; see ICBN, Article 33] = *Rosa*  
*woodsii* Lindley subsp. *woodsii*  
***woodsii*** Lindley subsp. ***manca*** (Greene) Lewis & Erter [M&H]  
     *Rosa manca* Greene  
*woodsii* Lindley var. *macounii* (Greene) Martin & Hutchins ined. [This combination not  
 validly published by M&H; see ICBN, Article 33] = *Rosa woodsii* Lindley  
 subsp. *woodsii*  
*woodsii* Lindley var. *neomexicana* (Cockerell) Martin & Hutchins ined. [This combination  
 not validly published by M&H; see ICBN, Article 33] = *Rosa woodsii*  
 Lindley subsp. *puberulenta* (Rydberg) Lewis & Erter  
***woodsii*** Lindley subsp. ***puberulenta*** (Rydberg) Lewis & Erter [Lewis & Erter 2010;  
 M&H; W&S]  
     *Rosa neomexicana* Cockerell  
     *Rosa puberulenta* Rydberg  
     *Rosa woodsii* Lindley var. *neomexicana* (Cockerell) Martin & Hutchins ined.  
     [not validly published by Martin & Hutchins]  
***woodsii*** Lindley subsp. ***ultramontana*** (S. Watson) R.L. Taylor & MacBryde  
 [M&H; W&S]  
     *Rosa californica* Chamisso & Schlectendal var. *ultramontana* S. Watson  
     *Rosa pecosensis* Cockerell  
     *Rosa praetincta* Cockerell  
     *Rosa woodsii* Lindley var. *ultramontana* (S. Watson) Jepson  
     *Rosa woodsii* Lindley var. *granulifera* (Rydberg) Martin & Hutchins ined. [not  
     validly published by Martin & Hutchins]  
***woodsii*** Lindley subsp. ***woodsii*** [M&H; W&S]  
     *Rosa fendleri* Crepin  
     *Rosa hypoleuca* Wooton & Standley  
     *Rosa macounii* Greene

- Rosa maximilliana* Rydberg  
*Rosa standleyi* Rydberg  
*Rosa woodsii* Lindley var. *fendleri* (Crepin) Rydberg  
*Rosa woodsii* Lindley var. *hypoleuca* (Wooton & Standley) Martin & Hutchins  
 ined. [not validly published by Martin & Hutchins]  
*Rosa woodsii* Lindley var. *macounii* (Greene) Martin & Hutchins ined. [not  
 validly published by Martin & Hutchins]  
*Rubacer parviflorus* (Nuttall) Rydberg = *Rubus parviflorus* Nuttall  
**Rubus** raspberry, blackberry  
 Alice, L.A., D.H. Goldman, J.A. Macklin, & G. Moore. 2014. *Rubus*, pp. 28-56. IN: Flora of North  
 America, vol. 9. Oxford University Press.  
*aliceae* L.H. Bailey = *Rubus idaeus* Linnaeus var. *strigosus* (Michaux) Maximowicz  
*arizonensis* Focke = *Rubus flagellaris* Willdenow  
*arizonicus* (Greene) Rydberg = *Rubus idaeus* Linnaeus var. *strigosus* (Michaux)  
 Maximowicz  
*bernardinus* (Greene) Fedde = *Rubus leucodermis* Douglas ex Torrey & Gray  
**\*bifrons** Vest [Spellenberg et al. 1986]  
*Rubus discolor* of NM reports  
*Rubus procerus* auctores non P.J. Mueller ex Genevier  
**deliciosus** Torrey [M&H; W&S]  
*Bossekia deliciosa* (Torrey) A. Nelson  
*Oreobatus deliciosus* (Torrey) Rydberg  
*deliciosus* Torrey var. *neomexicanus* (Gray) Kearney = *Rubus neomexicanus* Gray  
*discolor* of NM reports = *Rubus bifrons* Vest  
*extrubicundus* L.H. Bailey = *Rubus deliciosus* Torrey var. *neomexicanus* (Gray) Kearney  
**flagellaris** Willdenow [Alice et al. 2014; M&H]  
*Rubus arizonensis* Focke  
*idaeus* Linnaeus var. *aculeatissimus* Regel & Tiling = *Rosa idaeus* Linnaeus var. *strigosus*  
 (Michaux) Maximowicz  
**idaeus** Linnaeus var. **strigosus** (Michaux) Maximowicz [M&H; W&S]  
*Rubus aliceae* L.H. Bailey  
*Rubus arizonicus* (Greene) Rydberg  
*Rubus idaeus* Linnaeus var. *aculeatissimus* Regel & Tiling  
*Rubus melanolasius* Dieck  
*Rubus strigosus* Michaux var. *arizonicus* (Greene) Kearney & Peebles  
*Rubus strigosus* Michaux  
**leucodermis** Douglas ex Torrey & Gray [M&H; W&S]  
*Rubus bernardinus* (Greene) Fedde  
*Rubus leucodermis* Douglas ex Torrey & Gray) var. *bernardinus* (Greene)  
 Jepson  
*leucodermis* Douglas ex Torrey & Gray) var. *bernardinus* (Greene) Jepson = *Rubus*  
*leucodermis* Douglas ex Torrey & Gray  
*melanolasius* Dieck = *Rubus idaeus* Linnaeus var. *strigosus* (Michaux) Maximowicz  
**neomexicanus** Gray [M&H; W&S]  
*Oreobatus neomexicanus* (Gray) Rydberg  
*Oreobatus rubicundus* Wooton & Standley  
*Rubus deliciosus* Torrey var. *neomexicanus* (Gray) Kearney  
*Rubus extrubicundus* L.H. Bailey  
*Rubus rubicundus* (Wooton & Standley) Tidestrom  
*occidentalis* Linnaeus : Reported as expected by M&H map; awaits verification.  
**parviflorus** Nuttall [M&H; W&S]  
*Bossekia parviflora* (Nuttall) Greene  
*Rubacer parviflorus* (Nuttall) Rydberg  
*procerus* auctores non P.J. Mueller ex Genevier = *Rubus bifrons* Vest  
*rubicundus* (Wooton & Standley) Tidestrom = *Rubus deliciosus* Torrey var. *neomexicanus*  
 (Gray) Kearney  
*strigosus* Michaux var. *arizonicus* (Greene) Kearney & Peebles = *Rubus idaeus* Linnaeus  
 var. *strigosus* (Michaux) Maximowicz  
*strigosus* Michaux var. *strigosus* = *Rubus idaeus* Linnaeus var. *strigosus* (Michaux)  
 Maximowicz

- Sanguisorba occidentale* = *Poteridium occidentale* (Nuttall) Rydberg  
annua of NM reports = *Poteridium occidentale* (Nuttall) Rydberg  
minor Scopoli = *Poterium sanguisorba* Linnaeus  
minor Scopoli subsp. *balearica* (Bourgeau ex Nyman) M. Garmendia & C. Navarro =  
*Poterium sanguisorba* Linnaeus var. *polygamum* (Waldstein & Kitaibel)  
Visiani  
minor Scopoli subsp. *muricata* (Spach ex Bonnier & Layens) Nordborg = *Poterium*  
*sanguisorba* Linnaeus var. *polygamum* (Waldstein & Kitaibel) Visiani  
*Sericotheca dumosa* (Nuttall) Rydberg = *Holodiscus discolor* (Pursh) Maximowicz var. *dumosus*  
(S. Watson) Maximowicz ex J.M. Coulter

### **Sibbaldia**

Erter, B. & J.L. Reveal. 2014. *Sibbaldia*, pp. 297-299. IN: Flora of North America, vol. 9. Oxford University Press.

***procumbens*** Linnaeus [M&H; W&S]

*Potentilla sibbaldii* Hall f.

- Sieversia ciliata* (Pursh) G. Don = *Geum triflorum* Pursh var. *ciliatum* (Pursh) Fawcett  
*grisea* (Greene) Rydberg = *Geum triflorum* Pursh var. *ciliatum* (Pursh) Fawcett  
*paradoxa* D. Don = *Fallugia paradoxa* (D. Don) Endlicher ex Torrey  
*turbinata* (Rydberg) Greene = *Geum rossii* (R. Brown) Seringe var. *turbinatum* (Rydberg)  
C.L. Hitchcock

### **Sorbus**

mountain-ash

Jones, G.N. 1939. A synopsis of the North American species of *Sorbus*. J. Arnold Arbor. 20:1-43.  
Zika, P.F. & S.M. Bailleul. 2014. *Sorbus*, pp. 433-445. IN: Flora of North America, vol. 9. Oxford University Press.

*dumosa* Greene = *Sorbus scopulina* Greene

***scopulina*** Greene [M&H; W&S]

*Sorbus dumosa* Greene

- Spiraea caespitosa* Nuttall = *Petrophytum caespitosum* (Nuttall) Rydberg  
*caespitosa* Nuttall var. *elatus* (Nuttall) Tidestrom = *Petrophytum caespitosum* (Nuttall)  
Rydberg  
*discolor* Pursh = *Holodiscus discolor* (Pursh) Maximowicz  
*discolor* Pursh var. *dumosa* S. Watson = *Holodiscus discolor* (Pursh) Maximowicz var.  
*dumosus* (S. Watson) Maximowicz ex J.M. Coulter  
*dumosa* Nuttall = *Holodiscus discolor* (Pursh) Maximowicz var. *dumosus* (S. Watson)  
Maximowicz ex J.M. Coulter  
*monogyna* Torrey = *Physocarpus monogynus* (Torrey) Coulter  
×*vanhouttei* (Briot) Carrière : Reported by Lis (2014) for NM, but all known specimens are  
from residential plantings; not known in the wild.

### **Vauquelinia**

rosewood

Hess, W. & J. Hendrickson. 1987. A taxonomic revision of *Vauquelinia* (Rosaceae). Sida 12:101-163.  
*californica* (Torrey) Sargent subsp. *californica* : Not occurring in NM (Hess & Hendrickson  
1987).

***californica*** (Torrey) Sargent subsp. ***pauciflora*** (Standley) Hess & Hendrickson  
[Hess & Hendrickson 1987; M&H; W&S]

*Vauquelinia pauciflora* Standley

*pauciflora* Standley = *Vauquelinia californica* (Torrey) Sargent subsp. *pauciflora* (Standley)  
Hess & Hendrickson

## **Family RUBIACEAE** [9/24/26]

Bremer, B. & J.-F. Manen. 2000. Phylogeny and classification of the subfamily Ruboideae (Rubiaceae).  
Plant Syst. Evol. 225: 43-72.

Bremer, B. 2009. A review of molecular phylogenetic studies Rubiaceae. Ann. Missouri Bot. Gard. 96: 4-  
26.

Erhendorfer, F. & M.H.J. Barfuss. 2014. Paraphyly and polyphyly in the worldwide tribe Rubieae  
(Rubiaceae): Challenges for generic delimitation. Ann. Missouri Bot. Gard. 100: 79-88.

Groeninckx, I., S. Desein, H. Ochoterena, C. Persson, T.J. Motley, J. Karehed, B. Bremer, S. Huysmans, &  
E. Smets. 2009. Phylogeny of the herbaceous tribe Spermacoceae (Rubiaceae) based on plastid  
DNA data. 2009. Ann. Missouri Bot. Gard. 96: 109-132.

Dempster, L.T. 1995. Rubiaceae-Madder Family. J. Ariz.-Nev. Acad. Sci. 29(1):29-38.

### **Arcytophyllum** false-bluetes

Andersson, L., J.H.E. Rova, & F.A. Guarin. 2002. Relationships, circumscriptions, and biogeography of  
*Arcytophyllum* (Rubiaceae) based on evidence from cpDNA. Brittonia 54(1): 40-49.

- Groeninckx, I., S. Dessein, H. Ochoterena, C. Persson, T.J. Motley, J.Karehed, B. Bremer, S. Huysmans, & E. Smets. 2009. Phylogeny of the herbaceous tribe Spermaceae (Rubiaceae) based on plastid DNA data. 2009. *Ann. Missouri Bot. Gard.* 96: 109-132.
- Mena V., P. 1990. A revision of the genus *Arcytophyllum* (Rubiaceae: Hedyotideae). *Mem. NY Bot. Gard.* 60: 1-26.
- Terrell, E.E. & H. Robinson. 2010. Transfer of *Hedyotis intricata* to *Arcytophyllum* (Rubiaceae). *J. Bot. Res. Inst. Texas* 4(2): 625-626.
- Terrell, E.E. & H. Robinson. 2011. Fasciculate morphology, seed variation, and distributional notes *Arcytophyllum* (Rubiaceae). *J. Bot. Res. Inst. Texas* 5(2): 587-594.
- fasciculatum*** (Gray) Terrell & H. Robinson [M&H]  
*Hedyotis intricata* Fosberg  
*Houstonia fasciculata* Gray [1882], not *Hedyotis fasciculata* Bertoloni [1850]
- Bouvardia** firecracker-bush  
Blackwell, W.H., Jr. 1968. Revision of *Bouvardia* (Rubiaceae). *Ann. Missouri Bot. Gard.* 55: 1-30.  
*glaberrima* Engelman = *Bouvardia ternifolia* (Cavanilles) Schlechtendal  
*ovata* Gray = *Bouvardia ternifolia* (Cavanilles) Schlechtendal  
***ternifolia*** (Cavanilles) Schlechtendal [M&H; W&S]  
*Bouvardia glaberrima* Engelman  
*Bouvardia ovata* Gray  
*Ixora ternifolia* Cavanilles
- Cephalanthus** button-bush  
Little, E.L., Jr., 1976. Atlas of United States trees, volume 3, minor Western hardwoods: U.S. Department of Agriculture Miscellaneous Publication 1314, 13 p., 290 maps.  
Ridsdale, C.E. 1976. A revision of the tribe Cephalantheae (Rubiaceae). *Blumea* 23(1): 177-188.  
***occidentalis*** Linnaeus [Dempster 1995; Little 1976]
- Crusea** crusea  
Anderson, W.R. 1972. A monograph of the genus *Crusea* (Rubiaceae). *Mem. New York Bot. Gard.* 22: 11-28.  
***diversifolia*** (Kunth) W.A. Anderson [M&H]  
*Crusea subulata* (Pavon) Gray  
*Spermaceoce diversifolia* Kunth  
*subulata* (Pavon) Gray = *Crusea diversifolia* (Kunth) W.A. Anderson  
*Diodella teres* (Walter) Small = *Hexasepalum teres* (Walter) J.H. Kirkbride  
*Diodia teres* Walter var. *angustata* Gray = *Hexasepalum teres* (Walter) J.H. Kirkbride  
*teres* Walter var. *setifera* Fernald = *Hexasepalum teres* (Walter) J.H. Kirkbride  
*teres* Walter = *Hexasepalum teres* (Walter) J.H. Kirkbride
- Galium** bedstraw  
Braun, A.P. 2017. Vegetative key to *Galium* of Missouri. *Missouriensis* 34: 24-26.  
<https://monativeplants.org/missouriensis>, accessed 23 May 2019.  
Cronquist, A. 1984. *Galium*, pp. 528-536. IN: Intermountain Flora, vol. 4. New York Botanical Garden.  
Dempster, L.T. 1973. The polygamous species of the genus *Galium* (Rubiaceae), section *Lophogalium*, of Mexico and southwestern United States. *Univ. Calif. Pub. Bot.* 64:1-36.  
Dempster, L.T. 1976. *Galium mexicanum* (Rubiaceae) of Central America and western North America. *Madroño* 23:378-386.  
Ehrendorfer, F. 1956. Survey of the *Galium multiflorum* complex in western North America. *Contr. Dudley Herb.* 5:1-21.  
Ehrendorfer, F., M.H.J. Barfuss, J.-F. Manen, & G.M. Schneeweiss. 2018. Phylogeny, character evolution and spatiotemporal diversification of the species-rich and world-wide distributed tribe Rubieae (Rubiaceae). *PLoS ONE* 13(12): 1-26. e0207615. <https://doi.org/10.1371/journal.pone.0207615>  
Puff, C. 1976. The *Galium trifidum* group (*Galium* sect. *Aparinoides*, Rubiaceae). *Can. J. Bot.* 54:1911-1925.  
Sivinski, R.C., T. Lowrey, & R. Peterson. 1994. Additions to the native and adventive flora of New Mexico. *Phytologia* 76(6):473-479. [*Galium bifolium*]  
Spellenberg, R., M. Mahrt & R. Brozka. 1991. Noteworthy collections, New Mexico. *Madroño* 38:298-301. [*Galium wrightii*]  
Wagner, W.L. 1983. Noteworthy collections (New Mexico). *Madroño* 30(2):126. [*Galium emeryense*]  
*acutissimum* Gray = *Galium stellatum* Kellogg  
**\**aparine*** Linnaeus [M&H; W&S]  
*Galium aparine* Linnaeus var. *echinospermum* (Wallroth) Farwell  
*Galium aparine* Linnaeus var. *vaillantii* (A.P. de Candolle) Koch  
*aparine* Linnaeus var. *echinospermum* (Wallroth) Farwell = *Galium aparine* Linnaeus  
*aparine* Linnaeus var. *vaillantii* (A.P. de Candolle) Koch = *Galium aparine* Linnaeus  
*asperrimum* Gray = *Galium mexicanum* Kunth var. *asperrimum* (Gray) Higgins & Welsh

**bifolium** S. Watson [M&H; Sivinski et al. 1994]

**boreale** Linnaeus [M&H; W&S]

*Galium septentrionale* Roemer & Schultes

*brandegeei* Gray = *Galium trifidum* Linnaeus subsp. *subbiflorum* (Wiegand) Puff

**coloradoense** W.F. Wight [Ehrendorfer 1956; M&H]

*Galium multiflorum* Kellogg var. *coloradoense* (Wight) Cronquist

*emeryense* Dempster & Ehrendorfer = *Galium multiflorum* Kellogg

**fendleri** Gray [Dempster 1973; M&H; W&S]

*flaviflorum* Heller = *Galium triflorum* Michaux

*frankliniense* Correll = *Galium wrightii* Gray

**mexicanum** Kunth var. **asperrimum** (Gray) Higgins & Welsh [Dempster 1976; M&H; W&S]

*Galium asperrimum* Gray

*Galium mexicanum* Kunth subsp. *asperrimum* (Gray) Dempster

*mexicanum* Kunth subsp. *asperrimum* (Gray) Dempster = *Galium mexicanum* Kunth var. *asperrimum* (Gray) Higgins & Welsh

**microphyllum** Gray [M&H; W&S]

*Relbunium microphyllum* Hemsley

**multiflorum** Kellogg [Wagner 1983]

*Galium emeryense* Dempster & Ehrendorfer

*Galium scabriusculum* (Ehrendorfer) Dempster & Ehrendorfer

*multiflorum* Kellogg var. *coloradoense* (Wight) Cronquist = *Galium coloradense* W.F. Wight

*pilosum* Aiton : Reported by M&H, but the specimen in question (*Hess 2303*, NMC) is a high-elevation form of *Galium boreale* Linnaeus.

**proliferum** Gray [M&H; W&S]

*Galium virgatum* Nuttall var. *diffusum* Gray

*rothrockii* Gray = *Galium wrightii* Gray

*scabriusculum* (Ehrendorfer) Dempster & Ehrendorfer = *Galium multiflorum* Kellogg

*septentrionale* Roemer & Schultes = *Galium boreale* Linnaeus

*stellatum* Kellogg : Reported by W&S (as *Galium acutissimum*), but this species is a Mojave and Sonoran Desert element and has not since been recorded for NM.

*Galium acutissimum* Gray

*tinctorium* Linnaeus var. *subbiflorum* (Wiegand) Fernald = *Galium trifidum* Linnaeus subsp. *subbiflorum* (Wiegand) Puff

**trifidum** Linnaeus var. **subbiflorum** Wiegand [M&H; Puff 1976; W&S]

*Galium brandegeei* Gray

*Galium tinctorium* Linnaeus var. *subbiflorum* (Wiegand) Fernald

*Galium trifidum* Linnaeus subsp. *subbiflorum* (Wiegand) Puff

**triflorum** Michaux [M&H; W&S]

*Galium flaviflorum* Heller

*virgatum* Nuttall var. *diffusum* Gray = *Galium proliferum* Gray

**wrightii** Gray [Dempster 1973; M&H; Spellenberg et al. 1991; W&S]

*Galium frankliniense* Correll

*Galium rothrockii* Gray

*Hedyotis acerosa* Gray var. *bigelovii* (Greenman) W.H. Lewis = *Houstonia acerosa* (Gray) Gray ex Bentham & Hooker var. *polypremoides* (Gray) Terrell

*angulata* Fosberg ex Shinnars = *Houstonia rupicola* Greenman

*greenei* (Gray) W.H. Lewis = *Stenotis greenei* (Gray) Terrell & H. Robinson

*humifusa* Gray = *Houstonia humifusa* Gray

*intricata* Fosberg = *Arcytophyllum fasciculatum* (Gray) Terrell & H. Robinson

*nigricans* (Lamarck) Fosberg var. *nigricans* = *Houstonia nigricans* (Lamarck) Fernald var. *nigricans*

*nigricans* (Lamarck) Fosberg var. *papillacea* B.L. Turner = *Houstonia nigricans* (Lamarck) Fernald var. *papillacea* (B.L. Turner) ined.

*pygmaea* Roemer & Schultes = *Houstonia wrightii* Gray

*rubra* (Cavanilles) Gray = *Houstonia rubra* Cavanilles

*wrightii* (Gray) Fosberg = *Houstonia wrightii* Gray

**Hexasepalum** poor-Joe

- Allred, K.W. 1999. New plant distribution records. The New Mexico Botanist 13:7. [*Diodia teres angustata*]  
 Cabaña-Fader, A.A., R.M. Salas, S. Dessein, & E.L. Cabral. 2016. Synopsis of *Hexasepalum* (Rubiaceae), the priority-name for *Diodella* and a new species from Brazil. Syst. Bot. 41(2): 408-422.  
 Todsén, T.K. 1996. New plant distribution records. The New Mexico Botanist 2:6. [*Diodia teres setifera*]  
**teres** (Walter) J.H. Kirkbride [Allred 1999; M&H]  
*Diodella teres* (Walter) Small  
*Diodia teres* Walter var. *angustata* Gray  
*Diodia teres* Walter var. *setifera* Fernald

**Houstonia** bluets

- Church, S.A. 2003. Molecular phylogenetics of *Houstonia* (Rubiaceae): Descending aneuploidy and breeding system evolution in the radiation of the lineage across North America. Molec. Phylogen. Evol. 27: 223–238.  
 Church, S.A. & D.R. Taylor. 2005. Speciation and hybridization among *Houstonia* (Rubiaceae) species: The influence of polyploidy on reticulate evolution. Amer. J. Bot. 92(8): 1372-1380.  
 Groenink, I., S. Dessein, H. Ochoterena, C. Persson, T.J. Motley, J. Karehed, B. Bremer, S. Huysmans, & E. Smets. 2009. Phylogeny of the herbaceous tribe Spermacoaceae (Rubiaceae) based on plastid DNA data. 2009. Ann. Missouri Bot. Gard. 96: 109-132.  
 Shanks, Hunter L. 2015. Molecular Phylogeny of the Genus *Houstonia* and Allies in Rubiaceae. Master of Science (MS) thesis, Biological Sciences, Old Dominion University. DOI: 10.25777/th0k-rv14 [https://digitalcommons.odu.edu/biology\\_etds/3](https://digitalcommons.odu.edu/biology_etds/3), accessed 27 May 2019.  
 Terrell, E.E. 1979. New Species and combinations in *Houstonia* (Rubiaceae). Brittonia 31:164-169.  
 Terrell, E.E. 1996. Revision of *Houstonia* (Rubiaceae-Hedyotideae). Syst. Bot. Monogr. 48.  
 Terrell, E.E. 1996. Taxonomic notes on Texan and Mexican species of *Hedyotis* and *Houstonia* (Rubiaceae). Phytologia 81(2):108-114.  
 Terrell, E.E. 2001. Taxonomic review of *Houstonia acerosa* and *H. palmeri*, with notes on *Hedyotis* and *Oldenlandia* (Rubiaceae). Sida 19(4):913-922.  
 Turner, B.L. 1995. Taxonomic overview of *Hedyotis nigricans* (Rubiaceae) and closely allied taxa. Phytologia 79(1):12-21.  
 Turner, B.L. 1995. Taxonomy of the *Hedyotis acerosa* (Rubiaceae) complex. Phytologia 79(2): 83-88.  
 Turner, B.L. 1997. Rebuttal to Terrell's taxonomic notes of Turner's treatment of Texan and Mexican *Hedyotis*. Phytologia 82(2): 82-85.

**acerosa** (Gray) Bentham & Hooker f. var. **acerosa** [FNM I]

*Hedyotis acerosa* Gray  
*Oldenlandia acerosa* (Gray) Gray

**acerosa** (Gray) Bentham & Hooker f. var. **polypremoides** (Gray) Terrell [M&H; Terrell 2001]

*Hedyotis acerosa* Gray var. *bigelovii* (Greenman) W.H. Lewis  
*Houstonia acerosa* (Gray) Gray ex Bentham & Hooker subsp. *polypremoides* (Gray) Terrell  
*Houstonia polypremoides* Gray

**acerosa** (Gray) Gray ex Bentham & Hooker subsp. **polypremoides** (Gray) Terrell = *Houstonia acerosa* (Gray) Gray ex Bentham & Hooker var. **polypremoides** (Gray) Terrell

*angustifolia* Michaux = *Houstonia nigricans* (Lamarck) Fernald var. *nigricans*  
*angustifolia* Michaux var. *rigidiuscula* Gray = *Houstonia nigricans* (Lamarck) Fernald var. *nigricans*

*fasciculata* Gray = *Arcytophyllum fasciculatum* (Gray) Terrell & H. Robinson  
*greenii* (A. Gray) Terrell = *Stenotis greenii* (A. Gray) Terrell & H. Robinson

**humifusa** (Gray) Gray [M&H; Terrell 1996]

*Hedyotis humifusa* Gray

**nigricans** (Lamarck) Fernald var. **nigricans** [M&H]

*Gentiana nigricans* Lamarck  
*Hedyotis nigricans* (Lamarck) Fosberg  
*Houstonia angustifolia* Michaux  
*Houstonia angustifolia* Michaux var. *rigidiuscula* Gray  
*Houstonia rigidiuscula* (Gray) Wootton & Standley  
*Stenaria nigricans* (Lamarck) Terrell

**nigricans** (Lamarck) Fernald var. **papillacea** (B.L. Turner) Allred [Turner 1995]

*Hedyotis nigricans* (Lamarck) Fosberg var. *papillacea* B.L. Turner  
*Houstonia rupicola* of NM reports

*Stenaria nigricans* (Lamarck) Terrell var. *papillacea* (B.L. Turner) Kartesz  
*polypremoides* Gray = *Houstonia acerosa* (Gray) Gray ex Benth & Hooker var.  
 polypremoides (Gray) Terrell  
*polypremoides* Gray var. *bigelovii* Grenman = *Houstonia acerosa* (Gray) Gray ex Benth  
 & Hooker var. polypremoides (Gray) Terrell  
*rigidiuscula* (Gray) Wootton & Standley = *Houstonia nigricans* (Lamarck) Fernald var.  
 nigricans

**rubra** Cavanilles [M&H; Terrell 1996]

*Hedyotis rubra* (Cavanilles) Gray

*Oldenlandia rubra* Gray

*rupicola* of NM reports = *Houstonia nigricans* (Lamarck) Fernald var. *papillacea* (B.L.  
 Turner) ined.

*Hedyotis angulata* Fosberg ex Shinners

**wrightii** Gray [M&H; Terrell 1996]

*Hedyotis pygmaea* Roemer & Schultes, non *Houstonia pygmaea* Muller &  
 Muller

*Hedyotis wrightii* (Gray) Fosberg

*Ixora ternifolia* Cavanilles = *Bouvardia ternifolia* (Cavanilles) Schlechtendal

**Kelloggia** kelloggia

Erhendorfer, F. & M.H.J. Barfuss. 2014. Paraphyly and polyphyly in the worldwide tribe Rubieae  
 (Rubiaceae): Challenges for generic delimitation. *Ann. Missouri Bot. Gard.* 100: 79-88.

Nie, Z.L., J. Wen, H. Sun & B. Bartholomew. 2005. Monophyly of *Kelloggia* Torrey ex Benth. (Rubiaceae)  
 and evolution of its intercontinental disjunction between western North America and eastern Asia.  
*Amer. J. Bot.* 92: 642-652.

Sivinski, R.C., T. Lowrey, & R. Peterson. 1994. Additions to the native and adventive flora of New Mexico.  
*Phytologia* 76(6):473-479. [*Kelloggia galioides*]

**galioides** Torrey [Sivinski et al. 1994]

*Oldenlandia acerosa* (Gray) Gray = *Houstonia acerosa* (Gray) Benth & Hooker f.

*greenei* Gray = *Stenotis greenei* (Gray) Terrell & H. Robinson

*rubra* Gray = *Houstonia rubra* Cavanilles

*Relbunium microphyllum* Hemsley = *Galium microphyllum* Gray

*Spermacoce diversifolia* Kunth = *Crusea diversifolia* (Kunth) W.A. Anderson

*Stenaria nigricans* (Lamarck) Terrell = *Houstonia nigricans* (Lamarck) Fernald

*nigricans* (Lamarck) Terrell var. *papillacea* (B.L. Turner) Kartesz = *Houstonia nigricans*  
 (Lamarck) Fernald var. *papillacea* (B.L. Turner) ined.

**Stenotis**

Church, S.A. 2003. Molecular phylogenetics of *Houstonia* (Rubiaceae): Descending aneuploidy and  
 breeding system evolution in the radiation of the lineage across North America. *Molec. Phylogen.  
 Evol.* 27: 223-238.

Groeninckx, I., S. Desein, H. Ochoterena, C. Persson, T.J. Motley, J.Karehed, B. Bremer, S. Huysmans, &  
 E. Smets. 2009. Phylogeny of the herbaceous tribe Spermacoceae (Rubiaceae) based on plastid  
 DNA data. 2009. *Ann. Missouri Bot. Gard.* 96: 109-132.

Shanks, Hunter L. 2015. Molecular Phylogeny of the Genus *Houstonia* and Allies in Rubiaceae. Master of  
 Science (MS) thesis, Biological Sciences, Old Dominion University, DOI: 10.25777/th0k-rv14  
[https://digitalcommons.odu.edu/biology\\_etds/3](https://digitalcommons.odu.edu/biology_etds/3), accessed 27 May 2019.

Terrell, E.E. 2001. *Stenotis* (Rubiaceae), a new segregate genus from Baja California, Mexico. *Sida* 19(4):  
 899-911.

Terrell, E.E. & H. Robinson. 2010. Taxonomic notes on the genera *Stenotis* and *Carterella* (Rubiaceae) and  
 transfer of *Hedyotis greenei* to *Stenotis*. *J. Bot. Res. Inst. Tex.* 4(2):619-623.

**greenei** (Gray) Terrell & H. Robinson [M&H; W&S]

*Hedyotis greenei* (A. Gray) W.H. Lewis

*Houstonia greenei* (A. Gray) Terrell

*Oldenlandia greenei* Gray

## Family RUTACEAE [3/3/3]

Groppo, M., J.R. Pirani, M.L.F. Salatino, S.R. Blanco, J.A. Kalunki. 2008. Phylogeny of Rutaceae based on  
 two noncoding regions from cpDNA. *Amer. J. Bot.* 95: 985-1005.

*Astrophyllum dumosum* Torrey = *Choisya dumosa* (Torrey) Gray

**Choisya** Mexican-orange

**dumosa** (Torrey) Gray [M&H; W&S]

*Astrophyllum dumosum* Torrey



**Ptelea** hoptree

Bailey, V.L. 1960. Historical review of *Ptelea trifoliata* in botanical and medical literature. Econ. Bot. 14(3): 180-188.

Bailey, V.L. 1962. Revision of the genus *Ptelea* (Rutaceae). Brittonia 14:1-45.

Brizicky, G.K. 1962. The genera of Rutaceae in the southeastern United States. J. Arnold Arbor. 43:1-22.

Skornia, E., M. Yang, & W.L. Applequist. 2015. Phenetic analyses and revised classification of the *Ptelea trifoliata* complex (Rutaceae). Western North American Naturalist 75(4): 406-428.

*angustifolia* Benth = *Ptelea trifoliata* Linnaeus subsp. *angustifolia* (Benth) V.L.

Bailey var. *angustifolia* (Benth) M.E. Jones

*angustifolia* Benth var. *cognata* (Greene) Kearney & Peebles = *Ptelea trifoliata* Linnaeus subsp. *angustifolia* (Benth) V.L. Bailey var. *cognata* (Greene) Kearney & Peebles

*cognata* Greene = *Ptelea trifoliata* Linnaeus subsp. *angustifolia* (Benth) V.L. Bailey var. *cognata* (Greene) Kearney & Peebles

*confinis* Greene = *Ptelea trifoliata* Linnaeus subsp. *pallida* (Greene) V.L. Bailey var. *confinis* (Greene) V.L. Bailey

*formosa* Greene = *Ptelea trifoliata* Linnaeus subsp. *polydenia* (Greene) V.L. Bailey

*jucunda* Greene = *Ptelea trifoliata* Linnaeus subsp. *angustifolia* (Benth) V.L. Bailey var. *angustifolia* (Benth) M.E. Jones

*neomexicana* Greene = *Ptelea trifoliata* Linnaeus subsp. *angustifolia* (Benth) V.L. Bailey var. *angustifolia* (Benth) M.E. Jones

*pallida* Greene = *Ptelea trifoliata* Linnaeus subsp. *pallida* (Greene) V.L. Bailey var. *pallida* (Greene) V.L. Bailey

*parvula* Greene = *Ptelea trifoliata* Linnaeus subsp. *polydenia* (Greene) V.L. Bailey

*subvestita* Greene = *Ptelea trifoliata* Linnaeus subsp. *polydenia* (Greene) V.L. Bailey

*tomentosa* Rafinesque = *Ptelea trifoliata* Linnaeus subsp. *trifoliolata* var. *mollis* Torrey & Gray

***trifoliata*** Linnaeus [M&H; W&S]

*Ptelea angustifolia* Benth

*Ptelea angustifolia* Benth var. *cognata* (Greene) Kearney & Peebles

*Ptelea cognata* Greene

*Ptelea confinis* Greene

*Ptelea formosa* Greene

*Ptelea jucunda* Greene

*Ptelea neomexicana* Greene

*Ptelea pallida* Greene

*Ptelea parvula* Greene

*Ptelea polydenia* Greene

*Ptelea subvestita* Greene

*Ptelea tomentosa* Rafinesque

*Ptelea trifoliata* Linnaeus subsp. *angustifolia* (Benth) V.L. Bailey

*Ptelea trifoliata* Linnaeus var. *angustifolia* (Benth) M.E. Jones

*Ptelea trifoliata* Linnaeus var. *cognata* (Greene) Kearney & Peebles

*Ptelea trifoliata* Linnaeus var. *confinis* (Greene) V.L. Bailey

*Ptelea trifoliata* Linnaeus var. *mollis* Torrey & Gray

*Ptelea trifoliata* Linnaeus subsp. *pallida* (Greene) V.L. Bailey

*Ptelea trifoliata* Linnaeus var. *pallida* (Greene) V.L. Bailey

*Ptelea trifoliata* Linnaeus subsp. *polydenia* (Greene) V.L. Bailey

*trifoliata* Linnaeus var. *angustifolia* (Benth) M.E. Jones = *Ptelea trifoliata* Linnaeus

*trifoliata* Linnaeus subsp. *angustifolia* (Benth) V.L. Bailey var. *angustifolia* (Benth)

M.E. Jones = *Ptelea trifoliata* Linnaeus

*trifoliata* Linnaeus subsp. *angustifolia* (Benth) V.L. Bailey var. *cognata* (Greene)

Kearney & Peebles = *Ptelea trifoliata* Linnaeus

*trifoliata* Linnaeus subsp. *pallida* (Greene) V.L. Bailey var. *confinis* (Greene) V.L. Bailey =

*Ptelea trifoliata* Linnaeus

*trifoliata* Linnaeus subsp. *pallida* (Greene) V.L. Bailey var. *pallida* (Greene) V.L. Bailey =

*Ptelea trifoliata* Linnaeus

*trifoliata* Linnaeus subsp. *polydenia* (Greene) V.L. Bailey = *Ptelea trifoliata* Linnaeus

*trifoliata* Linnaeus subsp. *trifoliolata* var. *mollis* Torrey & Gray = *Ptelea trifoliata* Linnaeus

*Rutosma purpurea* Wootton & Standley = *Thamnosma texana* (Gray) Torrey

*texana* Gray = *Thamnosma texana* (Gray) Torrey

**Thamnosma** desert rue

**texana** (Gray) Torrey [M&H; W&S]

*Rutosma purpurea* Wooton & Standley

*Rutosma texana* Gray

*Thamnosma texana* (Gray) Torrey forma *purpurea* (Wooton & Standley)

Lundell

*texana* (Gray) Torrey forma *purpurea* (Wooton & Standley) Lundell = *Thamnosma texana* (Gray) Torrey

**Family SALICACEAE** [2/31/35]

Argus, G.W., J.E. Eckenwalder, & R.W. Kiger. Salicaceae, pp. 3-164. IN: Flora of North America, vol. 7. Oxford University Press.

Judd, W.S., C.S. Campbell, E.A. Kellogg, P.F. Stevens, & M.J. Donoghue. 2016. Plant Systematics: A Phylogenetic Approach, 4<sup>th</sup> ed. Sinauer Associates, Inc., Sunderland, Massachusetts. 677 pp.

**Populus** cottonwood

Cronquist, A. & R. Dom. 2005. *Populus*, pp. 119-126. IN: Intermountain Flora, vol. 2B. New York Botanical Garden.

Dorn, R.D. 2019. *Populus acuminata* Rydb., hybrid or hybrid-derived species? Phytologia 101(4): 218-221.

Eckenwalder, J.E. 1977. North American *Populus* sect. *Abaso* and *Aigeiros*. J. Arnold Arbor. 58:193-208.

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Eckenwalder, J.W. 2010. *Populus*, p. 5-22. IN: Flora of North America, vol. 7. Oxford University Press.

Floate, K.D. & T.G. Whitham. 1995. Insects as traits in plant systematics: their use in discriminating between hybrid cottonwoods. Can. J. Bot. 73:1-13.

Great Plains Flora Association. 1977. Atlas of the Flora of the Great Plains. Iowa State Univ. Press. 600 pp. [*Populus deltoides deltoides*]

Kartesz, J.T. 1999. A Synonymized Checklist and Atlas with Biological Attributes for the Vascular Flora of the United States, Canada, and Greenland. First Edition. IN: Kartesz, J.T., and C.A. Meacham. Synthesis of the North American Flora, Version 1.0. North Carolina Botanical Garden, Chapel Hill, NC. [*Populus nigra*]

×**acuminata** Rydberg [M&H; W&S] Note: these plants represent hybrids between *Populus angustifolia* and various forms of *Populus deltoides*

*Populus* ×*hinckleyana* Correll

\***alba** Linnaeus [M&H]

white poplar

**angustifolia** James [Eckenwalder 2010; W&S]

narrow-leaf cottonwood

*aurea* Tidestrom = *Populus tremuloides* Michaux

**deltoides** W. Bartram ex Marshall var. **deltoides** [Great Plains Flora Association 1977]

**deltoides** W. Bartram ex Marshall var. **fremontii** (S. Watson) Cronquist

[Eckenwalder 2010; M&H]

*Populus fremontii* S. Watson

*Populus fremontii* S. Watson var. *thornberi* Sargent

*deltoides* W. Bartram ex Marshall subsp. *monilifera* (Aiton) Eckenwalder = *Populus*

*deltoides* W. Bartram ex Marshall var. *occidentalis* Rydberg

**deltoides** W. Bartram ex Marshall var. **occidentalis** Rydberg [Eckenwalder 2010]

*Populus deltoides* W. Bartram ex Marshall subsp. *monilifera* (Aiton)

Eckenwalder

*Populus monilifera* Aiton

*Populus sargentii* Dode

**deltoides** W. Bartram ex Marshall var. **wislizeni** (S. Watson) Dorn [Eckenwalder 1977; W&S]

Rio Grande cottonwood

*Populus deltoides* W. Bartram ex Marshall subsp. *wislizeni* (S. Watson)

Eckenwalder

*Populus fremontii* S. Watson var. *wislizeni* S. Watson

*Populus wislizeni* (S. Watson) Sargent

*deltoides* W. Bartram ex Marshall subsp. *wislizeni* (S. Watson) Eckenwalder = *Populus*

*deltoides* W. Bartram ex Marshall var. *wislizeni* (S. Watson) Dorn

*fremontii* S. Watson = *Populus deltoides* W. Bartram ex Marshall var. *fremontii* (S. Watson) Cronquist

- fremontii* S. Watson var. *thorneri* Sargent = *Populus deltooides* W. Bartram ex Marshall var. *fremontii* (S. Watson) Cronquist
- fremontii* S. Watson var. *wislizeni* S. Watson = *Populus deltooides* W. Bartram ex Marshall var. *wislizeni* (S. Watson) Dorn
- ×*hinckleyana* Correll = *Populus* ×*acuminata* Rydberg
- monilifera* Aiton = *Populus deltooides* W. Bartram ex Marshall var. *occidentalis* Rydberg
- \****nigra*** Linnaeus var. ***italica*** Münchhausen [FNM I]  
Lombardy popular
- sargentii* Dode = *Populus deltooides* W. Bartram ex Marshall var. *occidentalis* Rydberg
- tremuloides*** Michaux [Eckenwalder 2010; M&H; W&S]  
quaking aspen  
*Populus aurea* Tidestrom  
*Populus tremuloides* Michaux var. *aurea* (Tidestrom) Daniels  
*tremuloides* Michaux var. *aura* (Tidestrom) Daniels = *Populus tremuloides* Michaux  
*wislizeni* (S. Watson) Sargent = *Populus deltooides* W. Bartram ex Marshall var. *wislizeni* (S. Watson) Dorn

**Salix** willow

- Allred, K.W. 1999. New plant distribution records. The New Mexico Botanist 13:7. [*Salix boothii*]
- Argus, G.W. 1986. Studies of the *Salix lucida* and *Salix reticulata* complexes in North America. Can. J. Bot. 64:541-551.
- Argus, G.W. 1986. The genus *Salix* (Salicaceae) in the southeastern United States. Syst. Bot. Monogr. 9: 1-170.
- Argus, G.W. 1995. Salicaceae. J. Ariz.-Nev. Acad. Sci. 29(1):39-62.
- Argus, G.W. & S.G. Aiken. 1987. Noteworthy collections (New Mexico). Madroño 34:268-269. [*Salix geyeriana*]
- Argus, G.W. 2010. *Salix*, p. 23-162. IN: Flora of North America, vol. 7. Oxford University Press.
- Belyaeva, I. 2009. Nomenclature of *Salix fragilis* L. and a new species, *S. euxina* (Salicaceae). Taxon 58(4):1344-1348.
- Dorn, R.D. 1975. A systematic study of *Salix* section *Cordatae* in North America. Can. J. Bot. 53:1491-1522.
- Dorn, R.D. 1977. Willows of the Rocky Mountain states. Rhodora 79:390-429.
- Dorn, R.D. 1994. North American *Salix* (Salicaceae): Typifications and notes. Phytologia 77:89-95. [*Salix bonplandiana bonplandiana*]
- Dorn, R.D. 1995. A taxonomic study of *Salix* section *Cordatae* subsection *Luteae* (Salicaceae). Brittonia 47:160-174.
- Dorn, R.D. 1996. New plant distribution records. The New Mexico Botanist 2:5. [*Salix arizonica*]
- Dorn, R.D. 1998. A taxonomic study of *Salix* section *Longifoliae* (Salicaceae). Brittonia 50(2):193-210.
- Dorn, R.D. 2000. A taxonomic study of *Salix* sections *Mexicanae* and *Viminella* subsection *Sitchenses* (Salicaceae) in North America. Brittonia 52(1):1-19.
- Dorn, R.D. 2002. New plant distribution records. The New Mexico Botanists 22:7. [*Salix bonplandiana laevigata*, *Salix fragilis*]
- Dorn, R.D. 2002. Plant distribution reports. The New Mexico Botanist 24:7. [*Salix wolfii*]
- Dorn, R.D. 2008. Plant distribution reports. The New Mexico Botanist 43:7. [*Salix nigra*]
- Dorn, R. 2010. The Genus *Salix* in North America North of Mexico. lulu.com efile, downloaded Sept 2010.
- Felger, R. 2010. Plant distribution reports (*Salix bonplandiana bonplandiana*). The New Mexico Botanist 51:2.
- Great Plains Flora Association. 1977. Atlas of the Flora of the Great Plains. Iowa State Univ. Press. 600 pp. [*Salix nigra*]
- Lauron-Moreau, A., F.E. Pitre, G.W. Argus, M. Labrecque, & L. Brouillet. 2015. Phylogenetic relationships of American willows (*Salix* L., Salicaceae). PLoS ONE 10(4): e0121965. (online at <http://journals.plos.org/plosone/article?id=10.1371/journal.pone.0121965>)
- Nesom, G.L. 2002. New combination in *Salix* (Salicaceae). Sida 20(2):523-524.
- alba Linnaeus : Occasionally reported from NM, but specimens so far belong to *Salix* ×*fragilis* Linnaeus
- amygdaloides*** Andersson [M&H; W&S]  
*amygdaloides* Andersson var. *wrightii* (Andersson) Schneider = ×*Salix wrightii* Andersson  
*anglorum* Chamisso var. *antiplasta* Schneider = *Salix arctica* Pallas var. *petraea* (Andersson) Bebb
- arctica*** Pallas var. ***petraea*** (Andersson) Bebb [Dorn 1994; M&H; W&S]  
*Salix anglorum* Chamisso var. *antiplasta* Schneider  
*Salix arctica* Pallas var. *petrophila* (Rydberg) Kelso  
*Salix petraea* Andersson  
*Salix petrophila* Rydberg

- arctica* Pallas var. *petrophila* (Rydberg) Kelso = *Salix arctica* Pallas var. *petraea* (Andersson) Bebb
- argophylla* Nuttall = *Salix exigua* Nuttall subsp. *exigua*
- arizonica*** Dorn [Argus 2010; Dorn 1996]
- arguta* Andersson = *Salix lucida* Muhlenberg subsp. *caudata* (Nuttall) Argus
- \****babylonica*** Linnaeus Note: Not yet officially reported from the wild in NM, but commonly cultivated and persisting around old dwellings, and so included here.
- weeping willow
- Salix* × *pendulina* Wenderoth
- Salix* × *sepulchralis* Simonkai
- bebbiana*** Sargent [M&H; W&S]
- Salix bebbiana* Sargent var. *perrostrata* (Rydberg) Schneider
- Salix perrostrata* Rydberg
- Salix rostrata* Richards, not Thuiller
- bebbiana* Sargent var. *perrostrata* (Rydberg) Schneider = *Salix bebbiana* Sargent
- bonplandiana*** Kunth var. ***bonplandiana*** [Dorn 1994]
- bonplandiana*** Kunth var. ***laevigata*** (Bebb) Dorn [Dorn 2002]
- Salix laevigata* Bebb
- boothii*** Dorn [Allred 1999]
- Salix myrtilifolia* auctores non Andersson
- Salix pseudocordata* auctores non Andersson
- brachycarpa*** Nuttall var. ***brachycarpa*** [Argus 2010; Dorn 1996]
- caudata* (Nuttall) Heller var. *bryantiana* Ball & Bracelin = *Salix lucida* Muhlenberg subsp. *caudata* (Nuttall) Argus
- caudata* (Nuttall) Heller var. *caudata* = *Salix lucida* Muhlenberg subsp. *caudata* (Nuttall) Argus
- cordata* Muhlenberg var. *watsonii* Bebb [= *Salix eriocephala* Michaux var. *watsonii* (Bebb) Dorn] : Reported by W&S, but not known in NM (Dorn 1995).
- drummondiana*** Barratt ex Hooker [Dorn 1977; M&H; W&S]
- Salix subcaerulea* Piper
- eriocephala*** Michaux var. ***ligulifolia*** (Ball) Dorn [Dorn 1995; M&H]
- Salix ligulifolia* (Ball) Ball ex Schneider
- Salix lutea* of NM reports
- Salix lutea* Nuttall var. *ligulifolia* Ball
- exigua*** Nuttall subsp. ***exigua*** [Dorn 1998; M&H; W&S]
- coyote willow
- Salix argophylla* Nuttall
- Salix exigua* Nuttall var. *stenophylla* (Rydberg) Schneider
- Salix stenophylla* Rydberg
- exigua* Nuttall subsp. *interior* (Rowlee) Cronquist : Reported by M&H and W&S, but authentic specimens unknown.
- sandbar willow
- Salix exigua* Nuttall var. *sericans* (Nees) Nesom
- Salix fluviatilis* sensu W&S (*Salix fluviatilis* Nuttall is a rejected name)
- Salix interior* Rowlee
- Salix longifolia* of authors
- exigua* Nuttall var. *sericans* (Nees) Nesom = *Salix exigua* Nuttall subsp. *interior* (Rowlee) Cronquist
- exigua* Nuttall var. *stenophylla* (Rydberg) Schneider = *Salix exigua* Nuttall subsp. *exigua*
- exilifolia* Dorn = *Salix taxifolia* Kunth
- fendleriana* Andersson = *Salix lucida* Muhlenberg subsp. *caudata* (Nuttall) Argus
- fluviatilis* sensu W&S = *Salix exigua* Nuttall subsp. *interior* (Rowlee) Cronquist
- \*×***fragilis*** Linnaeus [Dorn 2002]
- crack willow
- geyeriana*** Andersson [Argus & Aiken 1987]
- glauca* Linnaeus var. *glabrescens* (Andersson) Schneider = *Salix glauca* Linnaeus var. *villosa* (D. Don ex Hooker) Andersson
- glauca* Linnaeus var. *stipulata* Floderus : The map in Argus (2010) shows NM, but the distribution and habitat clearly exclude NM.

- glauca** Linnaeus var. **villosa** (D. Don ex Hooker) Andersson [M&H; W&S]  
*Salix glauca* Linnaeus var. *glabrescens* (Andersson) Schneider  
*Salix glaucops* Andersson  
*Salix pseudolapponum* von Seemann  
*Salix villosa* D. Don ex Hooker  
*glaucops* Andersson = *Salix glauca* Linnaeus var. *villosa* Andersson
- gooddingii** Ball [Argus 2010; M&H]  
*Salix nigra* Marshall var. *vallicola* Dudley  
*interior* Rowlee s.s. = *Salix exigua* Nuttall subsp. *interior* (Rowlee) Cronquist  
*interior* Rowlee var. *angustissima* (Andersson) Dayton [=*Salix thurberi* Rowlee] : Not yet known from NM.
- irrorata** Andersson [M&H; W&S]  
*laevigata* Bebb = *Salix bonplandiana* Kunth var. *laevigata* (Bebb) Dorn  
*lasiandra* Bentham = *Salix lucida* Muhlenberg subsp. *lasiandra* (Bentham) Argus  
*lasiandra* Bentham var. *caudata* (Nuttall) Sudworth = *Salix lucida* Muhlenberg subsp. *caudata* (Nuttall) Murray
- lasiolepis** Bentham [M&H]  
*ligulifolia* (Ball) Ball ex Schneider = *Salix eriocephala* Michaux var. *ligulifolia* (Ball) Dorn  
*longifolia* of authors = *Salix exigua* Nuttall subsp. *interior* (Rowlee) Cronquist
- lucida** Muhlenberg subsp. **caudata** (Nuttall) Murray [Argus 1986; M&H; W&S]  
*Salix arguta* Andersson  
*Salix caudata* (Nuttall) Heller var. *bryantiana* Ball & Bracelin  
*Salix caudata* (Nuttall) Heller var. *caudata*  
*Salix fendleriana* Andersson  
*Salix lasiandra* Bentham var. *caudata* (Nuttall) Sudworth  
*Salix pentandra* Linnaeus var. *caudata* Nuttall
- lucida** Muhlenberg subsp. **lasiandra** (Bentham) Murray [Argus 1986; M&H; W&S]  
*Salix lasiandra* Bentham [1857]  
*lutea* Nuttall var. *ligulifolia* Ball = *Salix eriocephala* var. *ligulifolia* Ball  
*lutea* Nuttall s.s. [=*Salix eriocephala* Michaux var. *watsonii* (Bebb) Dorn] : Reports of *Salix lutea* Nuttall from NM refer to *Salix eriocephala* Michaux var. *ligulifolia* Ball
- monica** Bebb = *Salix planifolia* Pursh
- monticola** Bebb [Dorn 1995; M&H; W&S]  
*Salix cordata* Muhlenberg var. *monticola* (Bebb) Kelso  
*Salix monticola* Bebb var. *neomexicana* E.H. Kelso  
*Salix padophylla* Rydberg  
*Salix pseudomonticola* Ball var. *padophylla* (Rydberg) Ball  
*monticola* Bebb var. *neomexicana* E.H. Kelso = *Salix monticola* Bebb  
*myrtilifolia* auctores non Andersson = *Salix boothii* Dorn
- nigra** Marshall [Dorn 2008; Great Plains Flora Association 1977, atlas]  
black willow  
*nigra* Marshall var. *vallicola* Dudley = *Salix gooddingii* Ball
- nivalis** Hooker [Argus 1986; M&H; W&S]  
*Salix nivalis* Hooker var. *saximontana* (Rydberg) Schneid  
*Salix reticulata* Linnaeus subsp. *nivalis* (Hooker) Löve, Löve, & Kapoor  
*Salix saximontana* Rydberg  
*nivalis* Hooker var. *saximontana* (Rydberg) Schneid = *Salix nivalis* Hooker  
×*pendulina* Wenderoth = *Salix babylonica* Linnaeus  
*pentandra* Linnaeus var. *caudata* Nuttall = *Salix lucida* Muhlenberg subsp. *caudata* (Nuttall) Murray  
*perrostrata* Rydberg = *Salix bebbiana* Sargent  
*petraea* Andersson = *Salix arctica* Pallas var. *petraea* (Andersson) Bebb  
*petrophila* Rydberg = *Salix arctica* Pallas var. *petraea* (Andersson) Bebb  
*phylicifolia* Linnaeus : This is an Eurasian species not occurring in NM; NM populations are referred to *Salix planifolia* (Dorn pers. comm. 1995; Kartesz 1994).  
*phylicifolia* Linnaeus var. *monica* (Bebb) Jepson = *Salix planifolia* Pursh
- planifolia** Pursh [M&H; W&S]  
*Salix monica* Bebb

- Salix phylicifolia* Linnaeus var. *monica* (Bebb) Jepson  
*Salix planifolia* Pursh var. *monica* (Bebb) Schneider  
*planifolia* Pursh var. *monica* (Bebb) Schneider = *Salix planifolia* Pursh subsp. *planifolia*  
*podophylla* Rydberg = *Salix monticola* Bebb  
*pseudocordata* auctores non Andersson = *Salix boothii* Dorn  
*pseudolapponum* von Seem = *Salix glauca* Linnaeus var. *villosa* Andersson  
*pseudomonticola* Ball var. *padophylla* (Rydberg) Ball = *Salix monticola* Bebb  
*reticulata* Linnaeus subsp. *nivalis* (Hooker) Löve, Löve, & Kapoor = *Salix nivalis* Hooker  
*rostrata* Richards, not Thuiller = *Salix bebbiana* Sargent  
*saximontana* Rydberg = *Salix nivalis* Hooker  
***scouleriana*** Barratt ex Hooker [Dorn 1977; M&H; W&S]  
×*sepulcralis* Simonkai = *Salix babylonica* Linnaeus  
*stenophylla* Rydberg = *Salix exigua* Nuttall subsp. *exigua*  
*subcaerulea* Piper = *Salix drummondiana* Barratt ex Hooker  
***taxifolia*** Kunth [Dorn 1998; M&H; Sivinski 1996; W&S]  
*Salix exilifolia* Dorn  
*Salix taxifolia* Kunth var. *limitanea* I.M. Johnston  
*villosa* D. Don ex Hooker = *Salix glauca* Linnaeus var. *villosa* Andersson  
×*wrightii* Andersson = hybrid derived from *Salix amygdaloides* × *Salix gooddingii*  
*Salix amygdaloides* Andersson var. *wrightii* (Andersson) Schneider  
***wolfii*** Bebb var. ***wolfii*** [Dorn 2002]

Family SANTALACEAE sensu stricto : not in NM; see COMANDRACEAE for *Comandra*,  
and VISCACEAE for the mistletoes.

### Family SAPINDACEAE [3/6/6]

[Aceraceae, Hippocastanaceae]

- Buerki, S., P.P. Lowry II, N. Alvarez, S.G. Razafimandimbison, P. Küpfer, & M.W. Callmander. 2010.  
Phylogeny and circumscription of Sapindaceae revisited: molecular sequence data, morphology  
and biogeography support recognition of a new family, Xanthoceraeae. *Pl. Ecol. Evol.* 142(3):  
148-159.  
Judd, W.S., C.S. Campbell, E.A. Kellogg, P.F. Stevens, & M.J. Donoghue. 2016. *Plant Systematics: A  
Phylogenetic Approach*, 4<sup>th</sup> ed. Sinauer Associates, Inc., Sunderland, Massachusetts. 677 pp.

#### Acer

#### maple

- Keller, A.C. 1942. *Acer glabrum* and its varieties. *Amer. Midl. Nat.* 27:491-500.  
Murray, E. 1975. North American maples. *Kalmia* 7:1-20.  
Sargent, C.S. 1933. *Manual of the trees of North America*. Houghton Mifflin Co.  
Sibley, D.A. 2009. *The Sibley Guide to Trees*. Alfred A. Knopf, New York. 426 pp. [*Acer saccharum*]  
Worthington, R.D. 2000. New plant distribution records. *The New Mexico Botanist* 15:7. [*Acer  
grandidentatum sinuosum*]  
*brachypterum* Wooton & Standley = *Acer grandidentatum* Nuttall var. *sinuosum* (Rehder)  
Little

***glabrum*** Torrey [Keller 1942; M&H; W&S]

Rocky Mountain maple

*Acer glabrum* Torrey var. *neomexicanum* (Greene) Kearny & Peebles

*Acer neomexicanum* Greene

*glabrum* Torrey var. *neomexicanum* (Greene) Kearny & Peebles = *Acer glabrum* Torrey

*grandidentatum* Nuttall var. *brachypterum* (Wooton & Standley) Palmer = *Acer*

*grandidentatum* Nuttall var. *sinuosum* (Rehder) Little

***grandidentatum*** Nuttall [M&H; W&S; Worthington 2000]

bigtooth maple

*Acer brachypterum* Wooton & Standley

*Acer grandidentatum* Nuttall var. *brachypterum* (Wooton & Standley) Palmer

*Acer grandidentatum* Nuttall var. *sinuosum* (Rehder) Little

*Acer saccharum* Marshall subsp. *grandidentatum* (Nuttall) Desmarais

*Acer sinuosum* Rehder

*interius* Britton = *Acer negundo* Linnaeus

***negundo*** Linnaeus [M&H; Sargent 1933; W&S]

box-elder

*Acer interius* Britton

- Acer negundo* Linnaeus var. *arizonicum* Sargent  
*Acer negundo* Linnaeus var. *interius* (Britton) Sargent  
*Acer negundo* Linnaeus var. *texanum* Pax  
*Negundo interius* (Britton) Rydberg  
*negundo* Linnaeus var. *arizonicum* Sargent = *Acer negundo* Linnaeus  
*negundo* Linnaeus var. *interius* (Britton) Sargent = *Acer negundo* Linnaeus  
*negundo* Linnaeus var. *texanum* Pax = *Acer negundo* Linnaeus  
*neomexicanum* Greene = *Acer glabrum* Torrey  
\***saccharinum** Linnaeus [FNM I]  
silver-leaf maple  
\*saccharum Marshall : Reported for NM by Sibley (2009); requires verification.  
*saccharum* Marshall subsp. *grandidentatum* (Nuttall) Desmarais = *Acer grandidentatum*  
Nuttall var. *grandidentatum*  
*sinuosum* Rehder = *Acer grandidentatum* Nuttall var. *sinuosum* (Rehder) Little  
*Negundo interius* (Britton) Rydberg = *Acer negundo* Linnaeus  
**Sapindus** soapberry  
**drummondii** Hooker & Arnott [M&H; W&S]  
*Sapindus saponaria* Linnaeus subsp. *drummondii* (Hooker & Arnott) A.E. Murray  
*Sapindus saponaria* Linnaeus var. *drummondii* (Hooker & Arnott) L. Benson  
*saponaria* Linnaeus subsp. *drummondii* (Hooker & Arnott) A.E. Murray = *Sapindus drummondii* Hooker & Arnott  
*saponaria* Linnaeus var. *drummondii* (Hooker & Arnott) L. Benson = *Sapindus drummondii* Hooker & Arnott  
**Ungadia** Mexican-buckeye  
**speciosa** Endlicher [M&H; W&S]

**Family SAPOTACEAE** [1/1/1]

- Pennington, T.D. 1990. Sapotaceae. Flora Neotrop. Monogr. 52:95-172.  
Pennington, T.D. 1991. The genera of Sapotaceae. Royal Botanic Gardens, Kew, England.  
*Bumelia lanuginosa* (Michaux) Persoon var. *rigida* Gray = *Sideroxylon lanuginosum* Michaux subsp. *rigidum* (Gray) Pennington  
*rigida* (Gray) Small = *Sideroxylon lanuginosum* Michaux subsp. *rigidum* (Gray) Pennington  
**Sideroxylon** bumelia  
Clark, R.B. 1942. A revision of the genus *Bumelia* in the United States. Ann. Missouri Bot. Gard. 29:155-182.  
Elisens, W.J. & J.M. Jones. 2009. *Sideroxylon*, p. 236-244. IN: Flora of North America, vol. 8. Oxford University Press.  
**lanuginosum** Michaux subsp. **rigidum** (Gray) Pennington [Elisens & Jones 2009; M&H; Pennington 1990; W&S]  
*Bumelia lanuginosa* (Michaux) Persoon var. *rigida* Gray  
*Bumelia rigida* (Gray) Small

**Family SARCOBATAACEAE** [1/1/1]

- Behnke, H.D. 1997. Sarcobataceae – a new family of Caryophyllales. Taxon 46: 495-507.  
Holmgren, N.H. & Patricia Holmgren. 2012. Sarcobataceae, pp 572-574. IN: Intermountain Flora, vol.2, part A. New York Botanical Garden Press, New York.  
*Batis vermiculata* Hooker = *Sarcobatus vermiculatus* (Hooker) Torrey  
**Sarcobatus** greasewood  
**vermiculatus** (Hooker) Torrey [M&H; W&S]  
*Batis vermiculata* Hooker

**Family SAURURACEAE** [1/1/1]

- Buddell, G.F., II, & J.W. Thieret. 1997. Saururaceae, pp. 37-38. IN: Flora of North America, vol. 3. Oxford University Press.  
*Anemia californica* Nuttall = *Anemopsis californica* (Nuttall) Hooker & Arnott  
**Anemopsis** yerba-mansa  
**californica** (Nuttall) Hooker & Arnott [Buddell & Thieret 1997; M&H; W&S]  
*Anemia californica* Nuttalla

**Family SAXIFRAGACEAE** [7/25/25]

Spongberg, S.A. 1972. The genera of Saxifragaceae in the southeastern United States. *J. Arnold Arbor.* 53:409-498.

*Boykinia jamesii* (Torrey) Engler = *Telesonix jamesii* (Torrey) Rafinesque

*Ciliaria austromontana* (Wiegand) W.A. Weber = *Saxifraga bronchialis* Linnaeus subsp. *austromontana* (Wiegand) Piper

*Fendlera*...go to HYDRANGEACEAE

*Fendlerella*...go to HYDRANGEACEAE

**Heuchera** alumroot

Alexander, P.J. 2008. *Heuchera woodsiaephila* (Saxifragaceae), a new species from the Capitan Mountains of New Mexico. *J. Bot. Res. Inst. Texas* 2(1):447-453.

Folk, R. A. & P. J. Alexander. 2015. Two new species, *Heuchera soltisii* and *H. inconstans*, with further taxonomic notes for the western group of *Heuchera* section *Heuchera* (Saxifragaceae). *Systematic Botany* 40(2):489-500.

Folk, R.A. & J.V. Freudenstein. 2014. Phylogenetic relationships and character evolution in *Heuchera* (Saxifragaceae) on the basis of multiple nuclear loci. *Amer. J. Bot.* 101(9):1532-1550.

Hartman, R.L., B. Reif, B.E. Nelson, & B. Jacobs. 2006. New vascular plant records for New Mexico. *Sida* 22(2):1225-1233. [*Heuchera hallii*]

Rosendahl, C.O., F.K. Butters, & O. Lakela. 1936. A monograph on the genus *Heuchera*. *Minnesota Stud. Pl. Sci.* 2:1-180.

Todsén, T.K. 1982. Noteworthy collections (New Mexico). *Madroño* 29:60. [*Heuchera glomerulata*]

Wells, E.F. & B.G. Shipes. 2009. *Heuchera*, p. 84-104. IN: *Flora of North America*, vol. 8. Oxford University Press.

*flavescens* Rydberg = *Heuchera parvifolia* Nuttall

***glomerulata*** Rosendahl, Butters, & Lakela [Todsén 1982; Wells & Shipes 2009]

***hallii*** Gray [Hartman et al. 2006]

*leptomeria* Greene = *Heuchera rubescens* Torrey

*nana* (Gray) Rydberg = *Heuchera rubescens* Torrey

***novamexicana*** Wheelock [M&H; W&S; Wells & Shipes 2009]

***parvifolia*** Nuttall ex Torrey & Gray [M&H; W&S; Wells & Shipes 2009]

*Heuchera flavescens* Rydberg

*Heuchera parvifolia* Nuttall ex Torrey & Gray var. *flavescens* (Rydberg)

Rosendahl, Butters, & Lakela

*Heuchera parvifolia* Nuttall ex Torrey & Gray var. *microcarpa* Rosendahl,

Butters, & Lakela

*parvifolia* Nuttall ex Torrey & Gray var. *flavescens* (Rydberg) Rosendahl et al. = *Heuchera parvifolia* Nuttall

*parvifolia* Nuttall ex Torrey & Gray var. *microcarpa* Rosendahl, Butters, & Lakela = *Heuchera parvifolia* Nuttall

*pulchra* Rydberg = *Heuchera sanguinea* Engelm.

+***pulchella*** Wootton & Standley [M&H; W&S; Wells & Shipes 2009]

***rubescens*** Torrey [M&H; W&S; Wells & Shipes 2009]

*Heuchera leptomeria* Greene

*Heuchera nana* (Gray) Rydberg

*Heuchera rubescens* Torrey var. *nana* Gray

*Heuchera sitgreavesii* Rydberg

*Heuchera versicolor* Greene

*Heuchera versicolor* Greene var. *leptomeria* (Greene) Kearney & Peebles

*rubescens* Torrey var. *nana* Gray = *Heuchera rubescens* Torrey

***sanguinea*** Engelm. [M&H; Todsén 1973; Wells & Shipes 2009]

*Heuchera pulchra* Rydberg

*Heuchera sanguinea* Engelm. var. *pulchra* (Rydberg) Rosendahl, Butters, &

Lakela

*sanguinea* Engelm. var. *pulchra* (Rydberg) Rosendahl et al. = *Heuchera sanguinea* Engelm.

*versicolor* Greene s.s. = *Heuchera rubescens* Torrey

*versicolor* Greene var. *leptomeria* (Greene) Kearney & Peebles = *Heuchera rubescens* Torrey

*sitgreavesii* Rydberg = *Heuchera rubescens* Torrey

+***soltisii*** R.A. Folk & P.J. Alexander [Folk & Alexander 2015].

+***woodsiaephila*** P.J. Alexander [Alexander 2008]



- +**wootonii** Rydberg [M&H; W&S; Wells & Shipes 2009]  
*Hirculus platysepalus* (Trautvetter) W.A. Weber subsp. *crandallii* (Gandoger) W.A. Weber =  
*Saxifraga flagellaris* Willdenow subsp. *crandallii* (Gandoger) Hulten
- Jamesia...go* to HYDRANGEACEAE
- Leptasea austromontana* (Wiegand) Small = *Saxifraga bronchialis* Linnaeus subsp.  
austromontana (Wiegand) Piper  
*chrysantha* (Gray) Small = *Saxifraga chrysantha* Gray  
*flagellaris* (Willdenow) Small = *Saxifraga flagellaris* Willdenow
- Lithophragma** woodland-star  
Heil, K. & S. O'Kane. 2007. Plant distribution reports. The New Mexico Botanist 41:7. [*Lithophragma glabrum*]  
Taylor, R.L. 1965. The genus *Lithophragma* (Saxifragaceae). Univ. Calif. Publ. Bot. 37:1-122.  
Taylor, R.L. 2009. *Lithophragma*, p. 77-83. IN: Flora of North America, vol. 8. Oxford University Press.  
*australe* Rydberg = *Lithophragma tenella* Nuttall  
*bulbiferum* Rydberg = *Lithophragma glabrum* Nuttall  
**glabrum** Nuttall [Heil & O'Kane 2007]  
*Lithophragma bulbiferum* Rydberg  
parviflorum (Hooker) Nuttall : Sometimes reported for the state, but unequivocal specimens are unknown; our material referred to *Lithophragma tenellum* Nuttall; awaits verification.  
*Tellima parviflora* Hooker  
**tenellum** Nuttall [M&H; Taylor 2009; W&S]  
*Lithophragma australe* Rydberg
- Micranthes** saxifrage  
Brouillet, L. & P.E. Elvander. 2009. *Micranthes*, p. 49-70. IN: Flora of North America, vol. 8. Oxford University Press.  
Gornall, R.J. 1987. An outline of a revised classification of *Saxifraga* L. Bot. J. Linn. Soc. 95:273-292.  
Soltis, D.E., R.K. Kuzoff, M.E. Mort, M. Zanis, M. Fishbein, L. Hufford, J. Koontz, & M.K. Arroyo. 2001. Elucidating deep-level phylogenetic relationships in Saxifragaceae using sequences for six chloroplastic and nuclear DNA regions. Ann. Missouri Bot. Gard. 88:669-693.  
Tkach, N., Röser, M. & Hoffmann, M.H. 2015. Molecular phylogenetics, character evolution and systematics of the genus *Micranthes* (Saxifragaceae). Bot. J. Linn. Soc. 178: 47–66.  
*arguta* (D. Don) Small = *Micranthes odontoloma* Piper  
**eriphora** (S. Watson) Small [Brouillet & Elvander 2009; M&H; W&S]  
*Saxifraga eriphora* S. Watson  
**odontoloma** (Piper) A.A. Heller [Brouillet & Elvander 2009; M&H; W&S]  
*Micranthes arguta* auctores non (D. Don) Small  
*Saxifraga arguta* auctores non D. Don  
*Saxifraga odontoloma* Piper  
*Saxifraga punctata* Linnaeus subsp. *arguta* auctores non (D. Don) Hultén  
*Saxifraga punctata* Linnaeus var. *arguta* auctores non (D. Don) Engelman & Irmscher  
**rhomboidea** (Greene) Small [Brouillet & Elvander 2009; Elvander 1984; M&H; W&S]  
*Saxifraga rhomboidea* Greene
- Mitella pentandra* Hooker = *Pectiantia pentandra* (Hooker) Rydberg  
*stauropetala* Piper = *Ozomelis stauropetala* (Piper) Rydberg  
*stauropetala* Piper var. *stenopetala* (Piper) Rosendahl = *Ozomelis stauropetala* (Piper) Rydberg  
*stenopetala* Piper = *Ozomelis stauropetala* (Piper) Rydberg
- Ozomelis** bishop's-cap  
Folk, R.A. & J.V. Freudenstein. 2014. Phylogenetic relationships and character evolution in *Heuchera* (Saxifragaceae) on the basis of multiple nuclear loci. Amer. J. Bot. 101(9):1532-1550.  
Heil, K. & S. O'Kane. 2007. Plant distribution reports. The New Mexico Botanist 41:7. [*Mitella stauropetala stenopetala*]  
Soltis, D.E. & C.C. Freeman. 2009. *Mitella*, p. 108-114. IN: Flora of North America, vol. 8. Oxford University Press.  
**stauropetala** (Piper) Rydberg [Heil & O'Kane 2007]  
*Mitella stauropetala* Piper  
*Mitella stauropetala* Piper var. *stenopetala* (Piper) Rosendahl  
*Mitella stenopetala* Piper
- Parnassia...go* to PARNASSIACEAE

**Pectiantia** bishop's-cap

- Ferguson, T. 2005. Plant distribution reports. The New Mexico Botanist 34:7. [*Mitella pentandra*]  
 Folk, R.A. & J.V. Freudenstein. 2014. Phylogenetic relationships and character evolution in *Heuchera* (Saxifragaceae) on the basis of multiple nuclear loci. Amer. J. Bot. 101(9):1532-1550.  
 Heil, K. & S. O'Kane. 2007. Plant distribution reports. The New Mexico Botanist 41:7. [*Mitella pentandra*]  
 Soltis, D.E. & C.C. Freeman. 2009. *Mitella*, p. 108-114. IN: Flora of North America, vol. 8. Oxford University Press.

**pentandra** (Hooker) Rydberg [Heil & O'Kane 2007; Ferguson 2005]

*Mitella pentandra* Hooker

*Philadelphus*...go to HYDRANGEACEAE

*Ribes*...go to GROSSULARIACEAE

**Saxifraga** saxifrage

- Brouillet, L. & P.E. Elvander. 2009. *Saxifraga*, p. 132-146. IN: Flora of North America, vol. 8. Oxford University Press.  
 Calder, J.A. & D.B.O. Saville. 1960. Studies in Saxifragaceae III. *Saxifraga odontoloma* and *hyallii*, and North American subspecies of *S. punctata*. Canad. J. Bot. 38:409-435.  
 Elvander, P. 1984. The taxonomy of *Saxifraga* (Saxifragaceae) section *Boraphila* subsection *Integrifoliae* in western North America. Syst. Bot. Monogr. 3:1-44.  
 Gornall, R.J. 1987. An outline of a revised classification of *Saxifraga* L. Bot. J. Linn. Soc. 95:273-292.  
 Heil, K. & S. O'Kane. 2007. Plant distribution reports. The New Mexico Botanist 41:7. [*Saxifraga hyperborea*]  
 Jorgensen, M.H., R. Elven, A. Tribsch, T.M. Gabrielsen, B. Stedje, & C. Brochmann. 2006. Taxonomy and evolutionary relationships in the *Saxifraga rivularis* complex. Syst. Bot. 31(4):702-729.  
 Keller, C.F. 2006. Plant distribution reports (*Saxifraga hirculus*). The New Mexico Botanist 35:3.  
 Krause, D.L. & K.I. Beamish. 1972. Taxonomy of *Saxifraga occidentalis* and *S. marshallii*. Can. J. Bot. 50:2131-2141. [*Saxifraga occidentalis*]  
 Soltis, D.E., R.K. Kuzoff, M.E. Mort, M. Zanis, M. Fishbein, L. Hufford, J. Koontz, & M.K. Arroyo. 2001. Elucidating deep-level phylogenetic relationships in Saxifragaceae using sequences for six chloroplastic and nuclear DNA regions. Ann. Missouri Bot. Gard. 88:669-693.  
 Tkach, N., Röser, M. & Hoffmann, M.H. 2015. Molecular phylogenetics, character evolution and systematics of the genus *Micranthes* (Saxifragaceae). Bot. J. Linn. Soc. 178: 47-66.

*arguta* auctores non D. Don = *Micranthes odontoloma* (Piper) A.A. Heller  
*austromontana* Wiegand = *Saxifraga bronchialis* Linnaeus subsp. *austromontana* (Wiegand) Piper

**bronchialis** Linnaeus subsp. **austromontana** (Wiegand) Piper [Brouillet & Elvander 2009; M&H; W&S]

*Ciliaria austromontana* (Wiegand) W.A. Weber

*Leptasea austromontana* (Wiegand) Small

*Saxifraga austromontana* Wiegand

**cespitosa** Linnaeus [Brouillet & Elvander 2009; Holmgren & Holmgren 1997]

**cernua** Linnaeus [Brouillet & Elvander 2009; M&H; W&S]

**chrysantha** Gray [Brouillet & Elvander 2009; M&H; W&S]

*Leptasea chrysantha* (Gray) Small

*Saxifraga serpyllifolia* Pursh subsp. *chrysantha* (Gray) Weber

*Saxifraga serpyllifolia* Pursh var. *chrysantha* (Gray) Dorn

*crandallii* Gandoger = *Saxifraga flagellaris* Willdenow subsp. *crandallii* (Gandoger) Hulten

**debilis** Engelm. [Brouillet & Elvander 2009; Heil & O'Kane 2007]

*Saxifraga hyperborean* R. Brown subsp. *debilis* (Engelm.) A. Löve, D. Löve, & B.M. Kapoor

*Saxifraga rivularis* of NM reports

**flagellaris** Willdenow subsp. **crandallii** (Gandoger) Hulten [Brouillet & Elvander 2009; M&H; W&S]

*Hirculus platysepalus* (Trautvetter) W.A. Weber subsp. *crandallii* (Gandoger) W.A. Weber

*Leptasea flagellaris* (Willdenow) Small

*Saxifraga crandallii* Gandoger

*Saxifraga flagellaris* Willdenow var. *crandallii* (Gandoger) Dorn

**hirculus** Linnaeus [Brouillet & Elvander 2009; Keller 2006]

*hyperborea* R. Brown subsp. *debilis* (Engelm.) A. Löve, D. Löve, & B.M. Kapoor = *Saxifraga debilis* Engelm.

*jamesii* Torrey = *Telesonix jamesii* (Torrey) Rafinesque

- occidentalis* S. Watson [= *Micranthes occidentalis* (S. Watson) Small] : Reported “occasionally as far south as New Mexico” by Krause and Beamish (1972); other works do not list NM; awaits verification.
- punctata* Linnaeus subsp. *arguta* auctores non (D. Don) Hultén = *Micranthes odontoloma* (Piper) A.A. Heller
- punctata* Linnaeus var. *arguta* auctores non (D. Don) Engelm & Imscher = *Micranthes odontoloma* (Piper) A.A. Heller
- rhomboidea* Greene = *Micranthes rhomboidea* (Greene) Small
- rivularis* Linnaeus : Reported by M&H, but our plants are referred to *Saxifraga debilis* Engelm; *Saxifraga rivularis* occurs in northern Canada, Alaska, and Greenland.
- serpyllifolia* Pursh var. *chrysantha* (Gray) Dorn = *Saxifraga chrysantha* Gray
- serpyllifolia* Pursh subsp. *chrysantha* (Gray) Weber = *Saxifraga chrysantha* Gray

**Telesonix** telesonix

- Gornall, R.J. & B.A. Bohm. 1985. A monograph of *Boykinia*, *Peltoboykinia*, *Bolandra*, and *Siksdorfia* (Saxifragaceae). Bot. J. Linn. Soc. 90:1-71.
- Gornall, R.J. 2009. *Telesonix*, p. 116-117. IN: Flora of North America, vol. 8. Oxford University Press.
- Soltis, D.E., R.K. Kuzoff, M.E. Mort, M. Zanis, M. Fishbein, L. Hufford, J. Koontz, & M.K. Arroyo. 2001. Elucidating deep-level phylogenetic relationships in Saxifragaceae using sequences for six chloroplastic and nuclear DNA regions. Ann. Missouri Bot. Gard. 88:669-693.

**jamesii** (Torrey) Rafinesque [Gornal & Bohm 1985]

- Boykinia jamesii* (Torrey) Engler  
*Saxifraga jamesii* Torrey

*Tellima parviflora* Hooker = *Lithophragma parviflorum* (Hooker) Nuttall

**Family SCROPHULARIACEAE** [5/13/13]

[Buddlejeaceae]

- Olmstead, R.G., C.W. dePamphilis, A.D. Wolfe, N.D. Young, W.J. Elisens, & P.A. Reeves. 2001. Disintegration of the Scrophulariaceae. Amer. J. Bot. 88(2):348-361.
- Tank, D.C., P.M. Beardsley, S.A. Kelchner, & R.G. Olmstead. 2006. Review of the systematics of Scrophulariaceae s.l. and their current disposition. Australian Syst. Bot. 19: 289-307.

*Agalinis*...go to OROBANCHACEAE

*Andenostegia*...go to OROBANCHACEAE

*Antirrhinum*...go to PLANTAGINACEAE

*Bacopa*...go to PLANTAGINACEAE

*Besseyia*...go to PLANTAGINACEAE

*Brachystigma*...go to OROBANCHACEAE

*Buchnera*...go to OROBANCHACEAE

**Buddleja** butterfly-bush

- Allred, K.W. 1999. New plant distribution records. The New Mexico Botanist 13:7. [*Buddleja scordioides*]
- Embrey, T. 2018. *Buddleja alternifolia* (Scrophulariaceae) naturalized in New Mexico. Phytoneuron 2018-60: 1-3.

Norman, E. M. 2000. Buddlejaceae. In: Flora Neotropica 81; 1-225.

**\*alternifolia** Maximowicz [Embrey 2018]

**scordioides** Kunth [Allred 1999]

*Castilleja*...go to OROBANCHACEAE

*Chelone*...go to PLANTAGINACEAE

*Collinsia*...go to PLANTAGINACEAE

*Conobea*...go to PLANTAGINACEAE

*Cordylanthus*...go to OROBANCHACEAE

*Dasystoma*...go to OROBANCHACEAE

*Elephantella*...go to OROBANCHACEAE

*Epixiphium*...go to PLANTAGINACEAE

*Gerardia*...go to OROBANCHACEAE

*Gratiola*...go to PLANTAGINACEAE

*Illysanthes*...go to PLANTAGINACEAE

*Leiostemon*...go to PLANTAGINACEAE

**Leucophyllum** Texas sage

- Gandara, E., & V. Sosa. 2013. Testing the monophyly and position of the North American shrubby desert genus *Leucophyllum* (Scrophulariaceae: Leucophylleae). Bot. J. Linn. Soc. 171(3): 508-518.
- Henrickson, J. & L.D. Flyr. 1985. Systematics of *Leucophyllum* and *Eremogeton* (Scrophulariaceae). Sida 11(2):107-172.

**minus** Gray [Henrickson & Flyr 1985; M&H; W&S]

**Limosella** mudwort

Crawford, R., K. Noonan, & T. Ayers. 2018. Vascular plants of Arizona: Scrophulariaceae. *Canotia* 14: 42-53.

Sivinski, R.C. & K. Lightfoot, eds. 1995. Inventory of rare and endangered plants of New Mexico. New Mexico Forestry and Resources Conservation Division, Misc. Publ. No. 4. [*Limosella pubiflora*]

**acaulis** Sessé & Mociño [M&H; W&S]

**aquatica** Linnaeus [M&H; Sivinski & Lightfoot 1995]

*Limosella pubiflora* Pennell

*pubiflora* Pennell = *Limosella aquatica* Linnaeus

*Linaria*...go to PLANTAGINACEAE

*Lindernia*...go to PLANTAGINACEAE

*Maurandella*...go to PLANTAGINACEAE

*Maurandya*...go to PLANTAGINACEAE

*Mecardonia*...go to PLANTAGINACEAE

*Mimulus*...go to PHRYMACEAE

*Monniera*...go to OROBANCHACEAE

*Nuttallanthus*...go to PLANTAGINACEAE

*Orthocarpus*...go to OROBANCHACEAE

*Pagesia*...go to PLANTAGINACEAE

*Pedicularis*...go to OROBANCHACEAE

*Penstemon*...go to PLANTAGINACEAE

*Rhinanthus*...go to OROBANCHACEAE

*Schistophragma*...go to PLANTAGINACEAE

**Scrophularia** figwort

Shaw, R.J. 1962. The biosystematics of *Scrophularia* in western North America. *Aliso* 5:147-178.

Todsén, T.K. 1978. *Scrophularia laevis* (Scrophulariaceae) a legitimate species. *Madroño* 25:106-107.

*coccinea* Gray = *Scrophularia macrantha* Greene ex Stiefelhagen

+*laevis* Wootton & Standley [M&H; Shaw 1962; Todsén 1978; W&S]

*lanceolata* Pursh [M&H]

*Scrophularia occidentalis* Bicknell

+*macrantha* Greene ex Stiefelhagen [M&H; W&S]

*Scrophularia coccinea* Gray

*Scrophularia neomexicana* Shaw

+*montana* Wootton [M&H; W&S]

*neomexicana* Shaw = *Scrophularia macrantha* Greene ex Stiefelhagen [Shaw 1962:170, ed. note].

*occidentalis* Bicknell = *Scrophularia lanceolata* Pursh

*parviflora* Wootton & Standley [M&H; W&S]

*Synthyris*...go to PLANTAGINACEAE

**Verbascum** mullein

Allred, K.W. 1999. New plant distribution records. *The New Mexico Botanist* 13:7. [*Verbascum virgatum*]

Hershey, A.L. & P.J. Leyendecker, Jr. 1944. Notes on plants of New Mexico - III. *Leafl. West. Bot.* 4(2):21-25. [*Verbascum blattaria*]

\**blattaria* Linnaeus [Hershey & Leyendecker 1944; M&H]

moth mullein

\**thapsus* Linnaeus [M&H; W&S]

\**virgatum* Stokes [Allred 1999]

*Veronica*...go to PLANTAGINACEAE

Family SILENACEAE = CARYOPHYLLACEAE

Family SIMAROUBACEAE [1/1/1]

**Ailanthus** tree-of-heaven

\**altissima* (Miller) Swingle [M&H; W&S]

*Ailanthus glandulosa* Desfontaines

*Toxicodendron altissimum* Miller (Anacardiaceae)

*glandulosa* Desfontaines = *Ailanthus altissima* (Miller) Swingle

**Family SIMMONDSIACEAE** [1/1/1]

- Cuenoud P., V. Savolainen, L.W. Chatrou, M. Powell, R.J. Grayer, & M.W. Chase. 2002. Molecular phylogenetics of Caryophyllales based on nuclear 18S rDNA and plastid rbcL, atpB, and matK DNA sequences. *Amer. J. Bot.* 89: 132–144.
- Brockington, S.F., R. Alexandre, J. Ramdial, M.J. Moore, S. Crawley, A. Dhingra, K. Hilu, D.E. Soltis, & P.S. Soltis. 2009. Phylogeny of the Caryophyllales sensu lato: Revisiting hypotheses on pollination biology and perianth differentiation in the core Caryophyllales. *Intern. J. Plant Sci.* 170(5): 627–643.
- Gillespie, L.J. 2016. Simmondsiaceae, pp. 441–442. IN: *Flora of North America*, vol. 12. Oxford University Press.

**Simmondsia** jojoba

- Kleinman, R. 2010. Plant distribution reports (*Simmondsia chinensis*). *The New Mexico Botanist* 51:2.  
*californica* Nuttall = *Simmondsia chinensis* (Link) C. Schneider  
*chinensis* (Link) C. Schneider [Kleinman 2010]  
*Buxus chinensis* Link  
*Simmondsia californica* Nuttall

**Family SOLANACEAE** [9/47/47]

*Androcera novomexicana* (Bartlett) Wootton & Standley = *Solanum novomexicanum* (Bartlett) S. Stern

*rostrata* (Dunal) Rydberg = *Solanum rostratum* Dunal

**Calibrachoa** petunia

- Fregonezi, J.N., L. Brandao de Freitas, S.L. Bonatto, J. Semi, & J.R. Stehmann. 2012. Infrageneric classification of *Calibrachoa* (Solanaceae) based on morphological and molecular evidence. *Taxon* 61(1):120–130.
- Wijsman, H.J.W. 1990. On the inter-relationships of certain species of *Petunia* VI. New names for the species of *Calibrachoa* formerly included into *Petunia* (Solanaceae). *Acta Bot. Neerl.* 39:101–102.
- Wijsman, H.J.W. & J.H. deJong. 1985. On the inter-relationships of certain species of *Petunia* IV. Hybridization between *P. linearis* and *P. calycina* and nomenclatorial consequences in the *Petunia* group. *Acta Bot. Neerl.* 34:337–349.

\**parviflora* (Jussieu) D'Arcy [M&H; W&S]

*Petunia parviflora* Jussieu

*Capsicum baccatum* Linnaeus : Reported as expected by M&H; awaits verification.

**Chamaesaracha** five-eyes

- Averett, J.E. 1973. Biosystematic study of *Chamaesaracha* (Solanaceae). *Rhodora* 75:325–365.
- Averett, J.E. 2010. The status of *Chamaesaracha coniodes* and *C. coronopus* (Solanaceae). *Phytoneuron* 2010-57: 1–5.
- Henrickson, J. 2009. New names in *Chamaesaracha* (Solanaceae). *Phytologia* 91(1): 186–188.
- Turner, B.L. 2015. Taxonomy of *Chamaesaracha* (Solanaceae). *Phytologia* 97(3): 226–245.
- Worthington, R.D. 2001. New plant distribution records. *The New Mexico Botanist* 20:8. [*Chamaesaracha edwardsiana*]

*arida* Henrickson [Averett 1973; M&H; W&S]

*Chamaesaracha coronopus* of NM reports

**coniodes** (Moriciand ex Dunal) Britton [Averett 1973; M&H; W&S]

*Chamaesaracha texensis* Henrickson

*Solanum coniodes* Moriciand ex Dunal

*coronopus* of NM reports = *Chamaesaracha arida* Henrickson

*coronopus* (Dunal) Gray : Often reported for NM, but our plants belong to *Chamaesaracha arida* Henrickson; *coronopus* s.s. is restricted to central Texas.

*Solanum coronopus* Dunal

*edwardsiana* Averett [Worthington 2001]

*pallida* Averett [Averett 1973]

*sordida* (Dunal) Gray [Averett 1973]

*Withania sordida* Dunal

*texensis* Henrickson = *Chamaesaracha coniodes* (Moriciand ex Dunal) Britton

**Datura** thorn-apple

- Allred, K.W. 2004. *Datura* (Solanaceae) in New Mexico. *The New Mexico Botanist* 30:5.
- Avery, A.G., S.Satina, & J. Rietsema. 1959. The genus *Datura*. *Chronica Botanica* No. 20, The Ronald Press, New York. 289 pp.
- Barclay, A.S. 1959. New considerations in an old genus: *Datura*. *Bot. Mus. Leafl. Harvard* 18:245–272.
- Barkworth, M.E. & S.H. Rabei. 2020. (2728) Proposal to conserve the name *Datura innoxia* (Solanaceae) with that spelling. *Taxon* 68(6): 1370–1371.

- Bye, R. 2001. Vascular Plants of Arizona: Solanaceae. Part One. *Datura* L. J. Ariz.-Nev. Acad. Sci. 33(1):58-64. [*Datura ceratocaula*]
- Ewan, J. 1944. Taxonomic history of perennial southwestern *Datura meteloides*. *Rhodora* 46:317-323.  
*meteloides* DC. ex Dunal = *Datura inoxia* P. Miller  
*meteloides* of NM authors = *Datura wrightii* Regel  
**\*ceratocaula** Ortega [Allred 2004; Bye 2001]  
*ferox* auctores non L. = *Datura quercifolia* Kunth  
**\*inoxia** P. Miller [Allred 2004; M&H]  
*Datura meteloides* DC. ex Dunal  
*inoxia* P. Miller subsp. *quinquecupida* (Torrey) Barclay = *Datura wrightii* Regel  
*meteloides* auctores, misapplied = *Datura wrightii* Hort ex Regel  
**quercifolia** Kunth [Allred 2004; M&H; W&S]  
*Datura ferox* auctores non Linnaeus  
**\*stramonium** Linnaeus [Allred 2004; M&H; W&S]  
 jimsonweed  
*Datura stramonium* Linnaeus var. *tatula* (Linnaeus) Torrey  
*Datura tatula* Linnaeus  
*stramonium* Linnaeus var. *tatula* (Linnaeus) Torrey = *Datura stramonium* Linnaeus  
*tatula* Linnaeus = *Datura stramonium* Linnaeus  
**wrightii** Hort ex Regel [Allred 2004; M&H]  
*Datura inoxia* P. Miller subsp. *quinquecupida* (Torrey) Barclay  
*Datura meteloides* auctores, misapplied
- Hyoscyamus** henbane  
**\*niger** Linnaeus [M&H]
- Lycium** wolfberry  
 Feinbrun, N. & W.T. Stearn. 1963. Typification of *Lycium barbarum* L., *L. afrum* L., and *L. europaeum* L. *Israel J. Bot.* 12:114-123.  
 Hitchcock, C.L. 1932. A monographic study of the genus *Lycium* of the western hemisphere. *Ann. Missouri Bot. Gard.* 19:179-374.  
**andersonii** Gray [Hitchcock 1932; M&H]  
**\*barbarum** Linnaeus [Hitchcock 1932; M&H; W&S]  
 matrimony-vine  
*Lycium halimifolium* Miller  
*Lycium vulgare* (Aiton) Dunal  
**berlandieri** Dunal var. *berlandieri* [Hitchcock 1932; M&H]  
**berlandieri** Dunal var. **parviflorum** (Gray) Terracciono [Hitchcock 1932; M&H; W&S]  
*Lycium parviflorum* Gray  
*halimifolium* Miller = *Lycium barbarum* Linnaeus  
**pallidum** Miers [Hitchcock 1932; M&H; W&S]  
 parishii A. Gray : Reported by Hall & Flowers (1961), but known only from southern California, western Arizona, and Mexico; awaits verification.  
*parviflorum* Gray = *Lycium berlandieri* Dunal var. *parviflorum* (Gray) Terracciono  
**torreyi** Gray [Hitchcock 1932; M&H; W&S]  
*vulgare* (Aiton) Dunal = *Lycium barbarum* Linnaeus
- Margaranthus purpurascens* Rydberg = *Physalis solanacea* (Schlechtendal) Axelius  
*solanacea* Schlechtendal = *Physalis solanacea* (Schlechtendal) Axelius
- Nicotiana** tobacco  
 Goodspeed, T.H. 1954. The genus *Nicotiana*. *Chronica Botanica* 16:1-536.  
 Knapp, S., M.W. Chase, & J.J. Clarkson. 2004. Nomenclatural changes and a new sectional classification in *Nicotiana* (Solanaceae). *Taxon* 53(1):73-82.  
**attenuata** Torrey ex S. Watson [M&H; W&S]  
**\*glauca** Graham [M&H; W&S]  
**\*rustica** Linnaeus : Reported for NM by Fernald (1950), but not mentioned by any other southwestern works; perhaps refers to *Nicotiana trigonophylla*; needs verification.  
**obtusifolia** M. Martens & Galiotti [M&H; W&S]  
*Nicotiana trigonophylla* Dunal  
*trigonophylla* Dunal = *Nicotiana obtusifolia* M. Martens & Galiotti  
*Petunia parviflora* Jussieu = *Calibrachoa parviflora* (Jussieu) D'Arcy

**Physalis** ground-cherry

- Axelius, B. 1995. A new combination in *Physalis* (Solanaceae). *Phytologia* 79(1):10-11.
- Heil, K.D. & S.L. O'Kane, Jr. 2003. Catalog of the Four Corners flora: Vascular plants of the San Juan River drainage, Arizona, Colorado, New Mexico and Utah. *Harvard Papers in Botany* 7(2):321-379. [*Physalis crassifolia*]
- Kartesz, J.T. & K.N. Gandhi. 1994. Nomenclatural notes for the North American flora. XIII. *Phytologia* 76(6):441-457. [*Physalis ixocarpa*]
- Menzel, M.Y. 1951. The cytotaxonomy and genetics of *Physalis*. *Proc. Amer. Phil. Soc.* 95:134-185.
- Sullivan, J.R. 1985. Systematics of the *Physalis viscosa* complex (Solanaceae). *Syst. Bot.* 10(4):426-444.
- Turner, B.L. & M. Martinez. 2011. Systematic reassessment of the North American *Physalis viscosa* complex (Solanaceae). *Phytologia* 93(2):260-269.
- Waterfall, U.T. 1958. A taxonomic study of the genus *Physalis* in North America north of Mexico. *Rhodora* 60:107-114, 128-142, 152-173.

**acutifolia** (Miers) Sandwith [M&H; W&S]

*Saracha acutifolia* Miers

**angulata** Linnaeus [M&H; W&S]

*Physalis angulata* Linnaeus var. *lanceifolia* (Nees) Waterfall

*Physalis lanceifolia* Nees

*angulata* Linnaeus var. *lanceifolia* (Nees) Waterfall = *Physalis angulata* Linnaeus

**caudella** Standley [M&H]

**cinerascens** (Dunal) A.S. Hitchcock var. *cinerascens* [M&H; Sullivan 1985; W&S]

*Physalis mollis* Nuttall var. *cinerascens* (Dunal) Gray

*Physalis pennsylvanica* Linnaeus var. *cinerascens* Dunal

*Physalis viscosa* Linnaeus var. *cinerascens* (Dunal) Waterfall

*comata* Rydberg = *Physalis hederifolia* Gray var. *comata* (Rydberg) Waterfall

*crassifolia* Benthham : Reported by Heil & O'Kane (2003), but this mostly a

Mohave/Sonoran desert species; awaits verification.

*fendleri* A. Gray var. *cordifolia* Gray = *Physalis hederifolia* Gray var. *cordifolia* (Gray)

Waterfall

**foetens** Poiret var. *neomexicana* (Rydberg) Waterfall ex Kartesz & Ghandi

[M&H; W&S]

*Physalis neomexicana* Rydberg

**hederifolia** Gray var. *comata* (Rydberg) Waterfall [M&H; W&S]

*Physalis comata* Rydberg

**hederifolia** Gray var. *fendleri* (Gray) Cronquist [M&H; W&S]

*Physalis fendleri* Gray

*Physalis fendleri* Gray var. *cordifolia* Gray

*Physalis hederifolia* Gray var. *cordifolia* (Gray) Waterfall

*hederifolia* Gray var. *fendleri* (Gray) Cronquist = *Physalis hederifolia* Gray var. *fendleri*

(Gray) Cronquist

**hederifolia** Gray var. *hederifolia* [M&H; W&S]

*heterophylla* Nees : Reported as expected by M&H map; awaits verification.

*hirsuta* Martens & Galeotti var. *integrifolia* Dunal = *Physalis pubescens* Linnaeus var.

*integrifolia* (Dunal) Waterfall

**hispida** (Waterfall) Cronquist [M&H]

*Physalis lanceolata* sensu W&S

*Physalis virginiana* Miller var. *hispida* Waterfall

**\*ixocarpa** Brotero ex Hornemann [M&H; W&S]

*lanceifolia* Nees = *Physalis angulata* Linnaeus var. *lanceifolia* (Nees) Waterfall

*lanceolata* sensu W&S = *Physalis hispida* (Waterfall) Cronquist

*lobata* Torrey = *Quincula lobata* (Torrey) Rafinesque

**longifolia** Nuttall var. *longifolia* [M&H; W&S]

*Physalis polyphylla* Greene

*Physalis pumila* Nuttall var. *sonorae* Torrey

*Physalis virginiana* Miller var. *sonorae* (Torrey) Waterfall

**longifolia** Nuttall var. *subglabrata* (Mackenzie & Bush) Cronquist [M&H; W&S]

*Physalis macrophylla* Rydberg

*Physalis subglabrata* Mackenzie & Bush

*Physalis virginiana* Miller var. *subglabrata* (Mackenzie & Bush) Waterfall

- macrophysa* Rydberg = *Physalis longifolia* Nuttall var. *subglabrata* (Mackenzie & Bush) Cronquist  
*mollis* Nuttall var. *cinerascens* (Dunal) Gray = *Physalis cinerascens* (Dunal) A.S. Hitchcock var. *cinerascens*  
*neomexicana* Rydberg = *Physalis foetens* Poirlet var. *neomexicana* (Rydberg) Waterfall  
*pennsylvanica* Linnaeus var. *cinerascens* Dunal = *Physalis cinerascens* (Dunal) A.S. Hitchcock var. *cinerascens*  
**\*philadelphica** Lamarck [FNM I]  
*polyphylla* Greene = *Physalis longifolia* Nuttall var. *longifolia*  
**pubescens** Linnaeus var. **integrifolia** (Dunal) Waterfall [M&H; W&S]  
*Physalis hirsuta* Martens & Galeotti var. *integrifolia* Dunal  
*pumila* Nuttall var. *sonorae* Torrey = *Physalis longifolia* Nuttall var. *longifolia*  
**solanacea** (Schlechtendal) Axelius [M&H; W&S]  
*Margaranthus purpurascens* Rydberg  
*Margaranthus solanaceus* Schlechtendal  
*subglabrata* Mackenzie & Bush = *Physalis longifolia* Nuttall var. *subglabrata* (Mackenzie & Bush) Cronquist  
**+virginiana** Miller var. **campaniforma** Waterfall [M&H]  
*virginiana* Miller var. *hispidata* Waterfall = *Physalis hispida* (Waterfall) Cronquist  
*virginiana* Miller var. *polyphylla* (Greene) Waterfall = *Physalis longifolia* Nuttall var. *longifolia*  
*virginiana* Miller var. *sonorae* (Torrey) Waterfall = *Physalis longifolia* Nuttall var. *longifolia*  
*virginiana* Miller var. *subglabrata* (Mackenzie & Bush) Waterfall = *Physalis longifolia* Nuttall var. *subglabrata* (Mackenzie & Bush) Cronquist  
*viscosa* Linnaeus var. *cinerascens* (Dunal) Waterfall = *Physalis cinerascens* (Dunal) A.S. Hitchcock var. *cinerascens*  
*wrightii* Gray = *Physalis acutifolia* (Miers) Sandwith

**Quincula** Chinese lanterns

- lobata** (Torrey) Rafinesque [M&H; W&S]  
*Physalis lobata* Torrey

*Salpichroa origanifolia* (Lamarck) Baillon, lily-of-the-valley-vine, has been found growing on White Sands Missile Range (Doña Ana County), along a residential fence; it is not yet known as an escape in NM.

*Saracha acutifolia* Miers = *Physalis acutifolia* (Miers) Sandwith

**Solanum** nightshade

- Correll, D.S. 1962. The potato and its wild relatives : section *Tuberarium* of the genus *Solanum*. Texas Research Foundation, Renner, Texas. [*Solanum bulbocastanum*]  
 Heil, K.D., S.L. O'Kane, & A. Clifford. 2002. Additions to the flora of New Mexico from the San Juan Basin Flora project. The New Mexico Botanist 24:1-4. [*Solanum dulcamara*]  
 Schilling, E.E. 1981. Systematics of *Solanum* sect. *Solanum* (Solanaceae) in North America. Syst. Bot. 6(2):172-185.  
 Schilling, E.E. & C.B. Heiser. 1979. Crossing relationships among diploid species of the *Solanum nigrum* complex in North America. Amer. J. Bot. 66:709-716.  
 Spellenberg, R. 2001. New plant distribution records. The New Mexico Botanist 19:3. [*Solanum dimidiatum*]  
 Spellenberg, R. 2003. Prickly problems. The New Mexico Botanist 25:8. [*Solanum carolinense*]  
 Spooner, D.M., R.G. van den Berg, A. Rodriguez, J. Bamberg, R.J. Hijmans, & S.I. Lara Cabrera. 2004. Wild potatoes (*Solanum* section *Petota*; Solanaceae) of North and Central America. Systematic Botany Monographs 68:1-209.  
 Stebbins, G.L. & E.F. Paddock. 1949. The *Solanum nigrum* complex in Pacific North America. Madroño 10:70-81.  
 Whalen, M.D. 1976. New taxa of *Solanum*, section *Androceras* from Mexico and adjacent United States. Wrightia 5(7):228-239.  
 Whalen, M.D. 1979. Taxonomy of *Solanum* sect. *Androceras*. Gent. Herb. 11:359-426.

- americanum* of NM reports = *Solanum ptychanthum* Dunal  
*arizonicum* Parish = *Solanum douglasii* Dunal  
**bulbocastanum** Dunal [Correll 1952] Note: Correll (1952) calls attention to the questionable collection of this species from San Miguel County (G); perhaps the specimen represents a one-time escape that has not persisted?  
**\*carolinense** Linnaeus [Spellenberg 2003]



- citrullifolium* A. Braun : Reported by Great Plains Flora Association (1977, atlas), but the plants in question were corrected to *Solanum heterodoxum* Dunal var. *setigeroides* M.D. Whalen [Great Plains Flora Association 1986].
- coniodes* Moricand ex Dunal = *Chamaesaracha coniodes* (Moricand ex Dunal) Britton
- coronopus* Dunal = *Chamaesaracha coronopus* (Dunal) Gray
- \****dimidiatum*** Rafinesque [Spellenberg 2001]
- douglasii*** Dunal [M&H; W&S]  
*Solanum arizonicum* Parish
- \****dulcamara*** Linnaeus [Heil et al. 2002]
- elaegnifolium*** Cavanilles [M&H; W&S]  
silverleaf nightshade
- fendleri* Gray ex Torrey = *Solanum stoloniferum* Schlechtendal
- heterodoxum* Dunal var. *heterodoxum* of NM reports = *Solanum novomexicanum* (Bartlett) S. Stern
- heterodoxum* Dunal var. *novomexicanum* Bartlett = *Solanum novomexicanum* (Bartlett) S. Stern
- heterodoxum* Dunal var. *setigeroides* M.D. Whalen = *Solanum setigeroides* (M.D. Whalen) S. Stern
- interius* Rydberg = *Solanum ptychanthum* Dunal
- jamesii*** Torrey [M&H; Schilling 1981; W&S]
- nigrescens* Martens & Gallioti : Some recent works are submerging *Solanum douglasii* Dunal into this taxon; otherwise, this name is not associated with NM plants.
- nigrum* of NM reports = *Solanum ptychanthum* Dunal
- novomexicanum*** (Bartlett) S. Stern [M&H; W&S]  
*Androcera novomexicana* (Bartlett) Wooton & Standley  
*Solanum heterodoxum* Dunal var. *heterodoxum* of NM reports  
*Solanum heterodoxum* Dunal var. *novomexicanum* Bartlett
- \****physalifolium*** Rusby [M&H; W&S]  
*Solanum physalifolium* Rusby  
*Solanum sarrachoides* auctores  
*Solanum villosum* sensu W&S
- ptychanthum*** Dunal [M&H; W&S]  
*Solanum americanum* auctores  
*Solanum interius* Rydberg  
*Solanum nigrum* auctores
- rostratum*** Dunal [M&H; W&S]  
buffalo-bur  
*Androcera rostrata* (Dunal) Rydberg  
*sarrachoides* auctores = *Physalis physalifolium* Rusby
- setigeroides*** (M.D. Whalen) S. Stern [Whalen 1976, 1979]  
*Solanum heterodoxum* Dunal var. *setigeroides* M.D. Whalen
- stoloniferum*** Schlechtendal [M&H; W&S]  
*Solanum fendleri* Gray ex Torrey
- triflorum*** Nuttall [M&H; W&S]  
*villosum* sensu W&S = *Solanum sarrachoides* Sendtner
- Withania sordida* Dunal = *Chamaesaracha sordida* (Dunal) Gray

Family STERCULIACEAE = MALVACEAE

**Family TALINACEAE** [1/6/6]

- Hernández-Ledesma, P., W.G. Berendsohn, T. Borsch, S. Von Mering, H. Akhiani, S. Arias, I. Castañeda-Noa, U. Eggli, R. Eriksson, H. FloresOlvera, S. Fuentes-Bazán, G. Kadereit, C. Klak, N. Korotkova, R. Nyffeler, G. Ocampo, H. Ochoterena, B. Oxelman, R.K. Rabeler, A. Sanchez, B.O. Schlumberger, & P. Uotila. 2015. A taxonomic backbone for the global synthesis of species diversity in the angiosperm order Caryophyllales. *Willdenowia* 45(3): 281-383.
- Hershkovitz, M.A. 1991. Taxonomic notes on *Cistanthe*, *Calandrinia*, and *Talinum* (Portulacaceae). *Phytologia* 70(3): 209-225.

- Nyffeler, R. & U. Eggli. 2010. Disintegrating Portulacaceae: A new familial classification of the suborder Portulacineae (Caryophyllales) based on molecular and morphological data. *Taxon* 59(1):227-240.
- Ocampo, G. & J.T. Columbus. 2010. Molecular phylogenetics of suborder Cactineae (Caryophyllales), including insights into photosynthetic diversification and historical biogeography. *Amer. J. Bot.* 97(11): 1827-1847.

**Talinum** talinum

- Applequist, W. & R.S. Wallace. 2001. Phylogeny of the Portulacaceae cohort based on ndhF sequence data. *Syst. Bot.* 26(2): 406-419.
- Ferguson, D.J. 2001. *Phemeranthus* and *Talinum* (Portulacaceae) in New Mexico. *The New Mexico Botanist* 20:1-7.
- Poellnitz, K. von. 1934. Monographie der Gattung *Talinum*. *Adans. Repert. Sp. Nov.* 35:1-34.
- Price, T.M. & D.J. Ferguson. 2012. A new combination in *Phemeranthus* (Montiaceae) and notes on the circumscription of *Phemeranthus* and *Talinum* (Talinaceae) from the southwestern United States and northern Mexico. *Novon* 22: 67-69.
- angustissimum* (Engelmann) Wooton & Standley = *Talinum polygaloides* Gillies ex Arnott
- aurantiacum** Engelmann [M&H; W&S]  
*Phemeranthus aurantiacus* (Engelmann) Kiger  
*aurantiacum* Engelmann var. *angustissimum* Engelmann = *Talinum polygaloides* Gillies ex Arnott
- brachypodium* S. Watson = *Phemeranthus brevifolius* (Torrey) Hershkovitz
- brevicaule* S. Watson = *Phemeranthus brevicaulis* (S. Watson) Kiger
- brevifolius* Torrey = *Phemeranthus brevifolius* (Torrey) Hershkovitz
- calycinum* Engelmann = *Phemeranthus calycinus* (Engelmann) Kiger
- chrysanthum* Rose & Standley = *Talinum spathulatum* Engelmann
- ciliatum* Ruiz & Pavon = *Calandrinia ciliata* (Ruiz & Pavon) A.P. de Candolle
- confertiflorum* Greene = *Phemeranthus parviflorus* (Nuttall) Kiger
- eximium* A. Nelson = *Phemeranthus brevicaulis* (S. Watson) Kiger
- fallax* von Poellnitz = *Phemeranthus parviflorus* (Nuttall) Kiger
- \**fruticosum* (Linnaeus) Willdenow : Reported by Ferguson (2001) without locality or documentation; awaiting verification.
- Portulaca fruticosa* Linnaeus
- gooddingii* Wilson = *Phemeranthus parviflorus* (Nuttall) Kiger
- gracile* Rose & Standley, non Colla 1833 = *Phemeranthus parviflorus* (Nuttall) Kiger
- humile* Greene = *Phemeranthus humilis* (Greene) Kiger
- “*lineare aff.*” a provisional manuscript name proposed by Ferguson (2001) = *Talinum* sp. 2
- longipes* Wooton & Standley = *Phemeranthus longipes* (Wooton & Standley) Kiger
- marginatum* Greene = *Phemeranthus parvulus* (Rose & Standley) Ferguson & Price
- menziesii* Hooker = *Calandrinia menziesii* (Hooker) Torrey & Gray
- paniculatum* of NM reports = *Talinum “sonorae”* ined., a provisional manuscript name proposed by Ferguson (2001) for plants previously called *Talinum paniculatum* in NM.
- parvulum* Rose & Standley = *Phemeranthus parvulus* (Rose & Standley) Ferguson & Price
- parviflorum* Nuttall = *Phemeranthus parviflorus* (Nuttall) Kiger
- polygaloides** Gillies ex Arnott [Ferguson 2001; M&H; W&S]  
*Talinum angustissimum* (Engelmann) Wooton & Standley  
*Talinum aurantiacum* Engelmann var. *angustissimum* Engelmann
- pulchellum* Wooton & Standley = *Phemeranthus brevicaulis* (S. Watson) Kiger
- pygmaeum* Gray = *Lewisia pygmaea* (Gray) B.L. Robinson
- rosei* P. Wilson = *Phemeranthus parviflorus* (Nuttall) Kiger
- sp. 1** [Ferguson 2001]  
“*Talinum sonorae*” a provisional manuscript name proposed by Ferguson (2001)
- sp. 2** [Ferguson 2001]  
“*Talinum lineare aff.*” a provisional manuscript name proposed by Ferguson (2001)
- “*sonorae*”, a provisional manuscript name proposed by Ferguson (2001) = *Talinum* sp. 1
- spathulatum** Engelmann ex A. Gray [Ferguson 2001]  
*Talinum chrysanthum* Rose & Standley
- whitei** I.M. Johnston [Ferguson 2001]
- youngiae* C.H. Muller = *Phemeranthus brevicaulis* (S. Watson) Kiger

**Family TAMARICACEAE** [1/3/3]**Tamarix** saltcedar, tamarisk

- Allred, K.W. 2002. Identification and taxonomy of *Tamarix* (Tamaricaceae) in New Mexico. *Desert Plants* 18(2):26-32.
- Gaskin, J.F. 2015. Tamaricaceae, pp. 413-417. IN: *Flora of North America*, vol. 6. Oxford University Press.
- Gaskin, J.F. & B.A. Schaal. 2003. Molecular phylogenetic investigation of U.S. invasive *Tamarix*. *Syst. Bot.* 28(1):86-95.
- \**aphylla* (Linnaeus) Karsten (athel tamarisk) : Cultivated as a landscape ornamental in southern NM, but not yet known as an escape.  
*Thuja aphylla* Linnaeus
- \**chinensis* Loureiro [Allred 2002; M&H]  
*Tamarix pentandra* Pallas, nom. illeg.  
*Tamarix ramosissima* Ledebour
- \**gallica* Linnaeus [Allred 2002; M&H; W&S]
- \**parviflora* A.P. de Candolle [Allred 2002]  
*pentandra* Pallas = *Tamarix chinensis* Loureiro  
*ramosissima* Ledebour = *Tamarix chinensis* Loureiro

Family THEOPHRASTACEAE = PRIMULACEAE

**Family ULMACEAE** [1/1/1]

- Sherman-Broyles, S.L., W.T. Barker, & L.M. Schulz. 1997. Ulmaceae, pp. 368-380. IN: *Flora of North America*, vol. 3. Oxford University Press.
- Song, B.-H., X.-Q. Wang, F.-Z. Li, & D.-Y. Hong. 2001. Further evidence for paraphyly of the Celtidaceae from the chloroplast gene *matK*. *Pl. Syst. Evol.* 228: 107-115.
- Celtis*...go to Cannabaceae
- Ulmus** elm

- \**americana* Linnaeus : Reports for its occurrence in the wild require verification.  
American elm
- \**parvifolia* Jacquin : Reports for its occurrence in the wild require verification.  
Chinese elm
- \**pumila* Linnaeus [M&H; Sherman-Broyles et al. 1997]  
Siberian elm
- \**rubra* Muhlenberg : Reports for its occurrence in the wild require verification.

Family UMBELLIFERAE = APIACEAE

**Family URTICACEAE** [3/6/7]

- Boufford, D.E. 1992. Urticaceae. *J. Ariz.-Nev. Acad. Sci.* 26(1):42-49.
- Boufford, D.E. 1997. Urticaceae, pp. 400-413. IN: *Flora of North America*, vol. 3. Oxford University Press.
- Systma, K.J., J. Morawetz, J.C. Pires, M. Nepokroeff, E. Conti, M. Zjhra, J.C. Hall, & M.W. Chase. 2002. Urticalean rosids: circumscription, rosid ancestry, and phylogenetics based on rbcL, trnL-F, and ndhF sequences. *Amer. J. Bot.* 89(9): 1531-1546.
- Boehmeria** false-nettle
- Wilmot-Dear, C.M. & I. Friis. 1996. The New World species of *Boehmeria* and *Pouzolzia* (Urticaceae, tribus Boehmerieae), a taxonomic revision. *Opera Botanica* 129: 1-103.
- cylindrica* (Linnaeus) Swartz [Boufford 1997; M&H; W&S]  
*Boehmeria cylindrica* (Linnaeus) Swartz var. *drummondiana* Weddell  
*Boehmeria scabra* (Porter) Small  
*Urtica cylindrica* Linnaeus
- cylindrica* (Linnaeus) Swartz var. *drummondiana* Weddell = *Boehmeria cylindrica* (Linnaeus) Swartz
- scabra* (Porter) Small = *Boehmeria cylindrica* (Linnaeus) Swartz
- Parietaria** pellitory
- Hinton, B.D. 1969. *Parietaria hespera* (Urticaceae), a new species of southwestern United States. *Sida* 3: 293-297.
- floridana* auctores non Nuttall = *Parietaria pensylvanica* Muhlenberg ex Willdenow
- hespera* B.D. Hinton [Boufford 1997]
- obtusata* Rydberg = *Parietaria pensylvanica* Muhlenberg ex Willdenow
- pensylvanica* Muhlenberg ex Willdenow [Boufford 1997; M&H; W&S]

*Parietaria floridana* auctores non Nuttall

*Parietaria obtusa* Rydberg

**Urtica** stinging nettle

Boufford, D.E. 1997. Urticaceae, pp. 400-413. IN: Flora of North America, vol. 3. Oxford University Press.

[*Urtica urens*]

Carvalho, A.R., G. Costa, A. Figueirinha, J. Liberal, J.A.V. Prior, M.C. Lopes, M.T. Cruz, & M.T. Batista.

2017. *Urtica* spp.: Phenolic composition, safety, antioxidant and anti-inflammatory activities. Food Research International 99(1): 485-494.

Henning, T., D. Quandt, B. Grosse-Veldmann, A. Monro, & M. Weigend. 2014. Weeding the nettles II: A delimitation of "*Urtica dioica* L." (Urticaceae) based on morphological and molecular data, including a rehabilitation of *Urtica gracilis* Ait. Phytotaxa 162(2): 61-83.

Woodland, D.W. 1982. Biosystematics of the perennial North American taxa of *Urtica*. II. Taxonomy. Syst. Bot. 7(3):282-290.

*cylindrica* Linnaeus = *Boehmeria cylindrica* (Linnaeus) Swartz

*dioica* Linnaeus subsp. *gracilis* (Aiton) Selander = *Urtica gracilis* Aiton subsp. *gracilis*

*dioica* Linnaeus subsp. *holosericea* (Nuttall) Thorne = *Urtica gracilis* Aiton subsp.

*holosericea* (Nuttall) W.A. Weber

*dioica* Linnaeus var. *occidentalis* S. Watson = *Urtica gracilis* Aiton subsp. *holosericea* (Nuttall) W.A. Weber

*dioica* Linnaeus var. *procera* (Muhlenberg ex Willdenow) Weddell = *Urtica gracilis* Aiton subsp. *gracilis*

***gracilentata*** Greene [Boufford 1997; M&H; W&S]

***gracilis*** Aiton subsp. ***gracilis*** [Boufford 1997; M&H; W&S]

*Urtica dioica* Linnaeus subsp. *gracilis* (Aiton) Selander

*Urtica dioica* Linnaeus var. *procera* (Muhlenberg ex Willdenow) Weddell

*Urtica gracilis* Aiton

*Urtica procera* Muhlenberg ex Willdenow

***gracilis*** Aiton subsp. ***holosericea*** (Nuttall) W.A. Weber [Boufford 1997; M&H]

*Urtica dioica* Linnaeus subsp. *holosericea* (Nuttall) Thorne

*Urtica dioica* Linnaeus var. *holosericea* (Nuttall) C.L Hitchcock

*Urtica dioica* Linnaeus var. *occidentalis* S. Watson

*Urtica gracilis* Aiton var. *holosericea* (Nuttall) Jepson

*Urtica holosericea* Nuttall

*Urtica serra* sensu M&H

*gracilis* Aiton var. *holosericea* (Nuttall) Jepson = *Urtica gracilis* Aiton subsp. *holosericea* (Nuttall) Weigend

*holosericea* Nuttall = *Urtica gracilis* Aiton subsp. *holosericea* (Nuttall) W.A. Weber

*procera* Muhlenberg ex Willdenow = *Urtica gracilis* Aiton subsp. *gracilis*

*serra* sensu M&H = *Urtica gracilis* Aiton subsp. *holosericea* (Nuttall) W.A. Weber

**\**urens*** Linnaeus [Boufford 1997]

Family *VACCINIACEAE* = *ERICACEAE*

Family *VALERIANACEAE* = *CAPRIFOLIACEAE*

**Family VERBENACEAE** [6/12/27]

Marx, H.E., N. O'Leary, Y.-W. Yuan, P. Lu-Irving, D.C. Tank, M.E. Mulgura, & R.G. Olmstead. 2010. A molecular phylogeny and classification of Verbenaceae. Amer. J. Bot. 97: 1647-1663.

McDade, L. A., T. F. Daniel, and C. A. Kiel. 2008. Toward a comprehensive understanding of phylogenetic relationships among lineages of Acanthaceae s.l. (Lamiales). Amer. J. Bot. 95: 1136-1152.

Moldenke, H.N. 1980. A sixth summary of the Verbenaceae, Avicenniaceae, Stilbaceae, Chloanthaceae, Symphoremaceae, Nyctanthaceae, and Eriocaulaceae of the world as to valid taxa, geographic distribution and synonymy. Phytologia Memoirs II:54-55 (New Mexico).

**Aloysia** beebush

Armada, J. & A. Barria. 1992. On *Aloysia* Palau. Taxon 41:88-90.

Lu-Irving, P. & R.G. Olmstead. 2013. Investigating the evolution of Lantaneae (Verbenaceae). Bot. J. Linn. Soc. 171: 103-119.

Standley, P.C. 1910. The type localities of plants first described from New Mexico. Contr. U.S. Natl. Herbarium 13(6): 143-228.

*gratissima* (Gillies & Hooker) Troncoso : Reported by M&H and Moldenke (1980), based on specimens collected in conjunction with the US-Mexican Boundary

Survey and erroneously labeled as from NM; specimens so labeled likely came from Texas or Chihuahua (Standley 1910), where this species occurs; no authentic specimens are known from NM.

*Aloysia lycioides* Chamisso  
*Lippia lycioides* (Chamisso) Steudel  
*Verbena gratissima* Gillies & Hooker

*lycioides* Chamisso = *Aloysia gratissima* (Gillies & Hooker) Troncoso

**wrightii** (Gray) Heller ex Abrams [M&H; W&S]

*Lippia wrightii* Gray

**Bouchea**      *bouchea*

Grenzebach, M. 1926. A revision of the genus *Bouchea* (exclusive of *Chascanum*). Ann. Missouri Bot. Gard. 13: 71-90.

McIntosh, L. 1996. Seven additions to the flora of New Mexico. Phytologia 81(5):365-368. [*Bouchea prismatica*]

Moldenke, H. N. 1940. A monograph of the genus *Bouchea*. Repert. Spec. Nov. Regni Veg. 48: 16-29, 91-139.

Standley, P.C. 1910. The type localities of plants first described from New Mexico. Contr. U.S. Natl. Herbarium 13(6): 143-228.

*linifolia* A. Gray ex Torrey : Reported by Grenzebach (1926) and Moldenke (1980), based on specimens collected in conjunction with the US-Mexican Boundary Survey and erroneously labeled as from NM; specimens so labeled likely came from Texas or Chihuahua (Standley 1910), where this species occurs; no authentic specimens are known from NM.

**prismatica** (Linnaeus) Kuntze [McIntosh 1996]

*Bouchea prismatica* (Linnaeus) Kuntze var. *brevirostre* Grenzebach

*Verbena prismatica* Linnaeus

*prismatica* O. Kuntze var. *brevirostre* Grenzebach = *Bouchea prismatica* (Linnaeus) Kuntze

**Glandularia**      *vervain*

Allred, K.W. 1999. New plant distribution records. The New Mexico Botanist 13:7. [*Verbena tenuisecta*]

Henrickson, J. 2003. Studies in *Glandularia* (Verbenaceae): The *Glandularia quadrangulata* complex. Sida 20: 953-967.

Moldenke, H.N. 1964. *Verbena quadrangulata* Heller, pp. 40-46. IN: Materials toward a monograph of the genus *Verbena*. XXIII. Phytologia 11: 1-64.

Nesom, G.L. 2010. Taxonomy of the *Glandularia bipinnatifida* group (Verbenaceae) in the USA. Phytoneuron 2010-46:1-20.

Nesom, G.L. 2010. *Glandularia gooddingii* (Verbenaceae): Notes on distribution and variation. Phytoneuron 2010-54:1-9.

O'Leary, N. & V. Thode. 2016. The genus *Glandularia* (Verbenaceae) in Brazil. Ann. Missouri Bot. Gard. 101: 699-749.

Turner, B.L. 1998. Texas species of *Glandularia* (Verbenaceae). Lundellia 1:3-16.

Turner, B.L. & A.M. Powell. 2005. Chromosome numbers of *Glandularia* (Verbenaceae) from central and Trans-Pecos Texas. Sida 21(3):1657-1661.

Umber, R.E. 1979. The genus *Glandularia* (Verbenaceae) in North America. Syst. Bot. 4:72-102.

Yuan, Y.-W. & R.G. Olmstead. 2008. A species-level phylogenetic study of the *Verbena* complex (Verbenaceae) indicates two independent intergeneric chloroplast transfers. Molecular Phylogenetics & Evolution 48: 23-33.

**\*aristigera** (S. Moore) Troncoso [Allred 1999]

*Glandularia pulchella* of NM reports

*Glandularia tenuisecta* (Briquet) Small

*Verbena aristigera* S. Moore

*Verbena tenuisecta* Briquet

*bipinnatifida* of NM reports = see *latiloba*, *pubera*, *wrightii*

*Verbena bipinnatifida* Nuttall

*bipinnatifida* (Nuttall) Nuttall var. *brevispicata* Umber = *Glandularia pubera* (Greene) Nesom

*bipinnatifida* (Nuttall) Nuttall var. *ciliata* (Bentham) Turner = *Glandularia bipinnatifida* (Nuttall) Nuttall

**\*canadensis** (Linnaeus) Nuttall [Moldenke 1980]

*Buchnera canadensis* Linnaeus (Orobanchaceae)

*Verbena canadensis* (Linnaeus) Britton

**chiricahensis** Umber [Nesom 2010; Umber 1979]

*Verbena chiricahensis* (Umber) Moldenke

*ciliata* of NM reports = *Glandularia wrightii* (Gray) Umber

**gooddingii** (Briquet) Solbrig [Nesom 2010]

*Verbena arizonica* Briquet

*Verbena bipinnatifida* Nuttall var. *gooddingii* (Briquet) Jepson

*Verbena gooddingii* Briquet var. *nepetifolia* Tidestrom

**latilobata** (L.M. Perry) Nesom [Nesom 2010]

*Verbena bipinnatifida* Nuttall var. *latilobata* L.M. Perry

**pubera** (Greene) Nesom [Nesom 2010]

*Glandularia bipinnatifida* (Nuttall) Nuttall var. *brevispicata* Umber

*Verbena ciliata* Benthham var. *pubera* (Greene) Perry

*Verbena pubera* Greene

*pulchella* of NM reports = *Glandularia aristigera* (S. Moore) Troncoso

**pumila** (Rydberg) Umber [M&H]

*Verbena pumila* Rydberg

*quadrangulata* (Heller) Umber : Reported by Umber (1979), M&H, and Moldenke (1964), based on specimens incorrectly attributed to NM (Henrickson 2003); not known from NM

*temuisecta* (Briquet) Small = *Glandularia aristigera* (S. Moore) Troncoso

*tumidula* (Perry) Umber : Reported by M&H as expected in NM; awaits verification.

*Verbena tumidula* Perry

**wrightii** (Gray) Umber [Nesom 2010]

*Verbena ambrosiifolia* Rydberg

*Verbena ciliata* of NM reports

*Verbena wrightii* Gray

*Goniostachyum graveolens* (Kunth) Small = *Lippia graveolens* Kunth

**Lantana** lantana

Lu-Irving, P. & R.G. Olmstead. 2013. Investigating the evolution of Lantaneae (Verbenaceae). Bot. J. Linn. Soc. 171: 103-119.

Sanders, R.W. 1987. Identify of *Lantana depressa* and *L. ovatifolia* (Verbenaceae) of Florida and the Bahamas. Syst. Bot. 12(1): 44-60.

Sanders, R.W. 2006. Taxonomy of *Lantana* sect. *Lantana* (Verbenaceae): I. Correct application of *Lantana camara* and associated names. Sida 22: 381-421.

Sanders, R.W. 2012. Taxonomy of *Lantana* sect. *Lantana* (Verbenaceae): II. Taxonomic revision. J. Bot. Res. Inst. Texas 6(2): 403-441.

Standley, P.C. 1910. The type localities of plants first described from New Mexico. Contr. U.S. Natl. Herbarium 13(6): 143-228.

*achyranthifolia* Desfontaines : Reported by Moldenke (1980) and others, based on specimens collected in conjunction with the US-Mexican Boundary Survey and erroneously labeled as from NM; specimens so labeled likely came from Texas or Chihuahua (Standley 1910), where this species occurs; no authentic specimens are known from NM.

*Lantana macropoda* Torrey

\***camara** Linnaeus [FNM I]

\**strigocamara* R.W. Sanders : Reported by Moldenke (1980) and others, based on specimens collected in conjunction with the US-Mexican Boundary Survey and erroneously labeled as from NM; specimens so labeled likely came from Texas or Chihuahua (Standley 1910), where this species occurs; no authentic specimens are known from NM.

*Lantana camara* auctores, in part

*urticoides* Hayek : Reported by Moldenke (1980) and others, based on specimens collected in conjunction with the US-Mexican Boundary Survey and erroneously labeled as from NM; specimens so labeled likely came from Texas or Chihuahua (Standley 1910), where this species occurs; no authentic specimens are known from NM.

*Lantana camara* auctores, in part

*Lantana horrida* auctores

*velutina* Martens & Galleotti : Reported by Moldenke (1980) and others, based on specimens collected in conjunction with the US-Mexican Boundary Survey and erroneously labeled as from NM; specimens so labeled likely came from Texas or Chihuahua (Standley 1910), where this species occurs; no authentic specimens are known from NM.

*Lippia berlandieri* Schauer = *Lippia graveolens* Kunth

*cuneifolia* (Torrey) Steudel = *Phyla cuneifolia* (Torrey) Greene  
*fruticosa* (Miller) K. Kennedy ex R. W. Sanders = *Phyla fruticosa* (Miller) K. Kennedy ex Wunderlin & Hansen

*graveolens* Kunth : Reported by Moldenke (1980) and others, based on specimens collected in conjunction with the US-Mexican Boundary Survey and erroneously labeled as from NM; specimens so labeled likely came from Texas or Chihuahua (Standley 1910), where this species occurs; no authentic specimens are known from NM.

*Goniostachyum graveolens* (Kunth) Small

*Lippia berlandieri* Schauer

*incisa* (Small) Tidestrom = *Phyla nodiflora* (Linnaeus) Greene

*lanceolata* Michaux = *Phyla lanceolata* (Michaux) Greene

*lycioides* (Chamisso) Steudel = *Aloysia gratissima* (Gillies & Hooker) Troncoso

*nodiflora* (Linnaeus) Greene var. *reptans* (Kunth) Moldenke = *Phyla fruticosa* (Miller) K. Kennedy ex Wunderlin & Hansen

*nodiflora* (Linnaeus) Michaux var. *strigulosa* (M. Martens & Galeotti) J.F. Macbride = *Phyla fruticosa* (Miller) K. Kennedy ex Wunderlin & Hansen

*wrightii* Gray = *Aloysia wrightii* (Gray) Heller

### **Phyla** wedgeleaf

Gross, C.L., M. Fatemi, M. Julien, H. McPherson, & R. Van Klinken. 2017. The phylogeny and biogeography of *Phyla nodiflora* (Verbenaceae) reveals native and invasive lineages throughout the world. *Diversity* 9(2), 20. <https://doi.org/10.3390/d9020020>.

Kennedy, K.L. 1992. A systematic study of the genus *Phyla* Lour. (Verbenaceae: Verbenoideae, Lantanae). Ph.D. dissertation, Univ. of Texas, Austin.

Lu-Irving, P. & R.G. Olmstead. 2013. Investigating the evolution of Lantaneae (Verbenaceae). *Bot. J. Linn. Soc.* 171: 103-119.

Munir, A.A. 1993. A taxonomic revision of the genus *Phyla* Lour. (Verbenaceae) in Australia. *J. Adelaide Bot. Gard.* 15(2): 109-128.

O'Leary, N. & M.E. Mulgura. 2012. A taxonomic revision of the genus *Phyla* (Verbenaceae). *Ann. Missouri Bot. Gard.* 98: 578-596.

***cuneifolia*** (Torrey) Greene [M&H; W&S]

*Lippia cuneifolia* (Torrey) Steudel

*Zapania cuneifolia* Torrey

**\**fruticosa*** (Miller) K. Kennedy ex Wunderlin & Hansen [FNM I]

*Lippia fruticosa* (Miller) K. Kennedy ex R. W. Sanders

*Lippia nodiflora* (Linnaeus) Michaux var. *strigulosa* (M. Martens & Galeotti) J.F. Macbride

*Phyla nodiflora* (Linnaeus) Greene var. *reptans* (Kunth) Moldenke

*Verbena fruticosa* Miller

*incisa* Small = *Phyla nodiflora* (Linnaeus) Greene

***lanceolata*** (Michaux) Greene [M&H; W&S]

*Lippia lanceolata* Michaux

***nodiflora*** (Linnaeus) Greene [M&H; W&S]

*Lippia incisa* (Small) Tidestrom

*Lippia nodiflora* (Linnaeus) Michaux

*Phyla incisa* Small

*Phyla nodiflora* (Linnaeus) Greene var. *rosea* of NM reports

*Verbena nodiflora* Linnaeus

*nodiflora* (Linnaeus) Greene var. *rosea* of NM reports = *Phyla nodiflora* (Linnaeus) Greene

*Priva lappulacea* (Linnaeus) Persoon : Reported from Sierra County by Kartesz (2015); no specimens known; presumed a *lapsus calami*.

Kartesz, J.T., The Biota of North America Program (BONAP). 2015. *Taxonomic Data Center*. (<http://www.bonap.net/tdc>).

*Tetraclea*...go to LAMIACEAE

### **Verbena** vervain

Barber, S.C. 1982. Taxonomic studies in the *Verbena stricta* complex (Verbenaceae). *Syst. Bot.* 7(4):433-456.

McIntosh, L. 1996. Seven additions to the flora of New Mexico. *Phytologia* 81(5):365-368. [*Verbena gracilis*]

Nesom, G.L. 2010. A new species of *Verbena* (Verbenaceae) from northeastern Mexico and an overview of the *Verbena officinalis* group. *Phytoneuron* 2010-13:1-13.

- Nesom, G.L. 2010. Revision of *Verbena* Ser. *Tricesimae* (Verbenaceae). Phytoneuron 2010-35:1-38. [*Verbena livermorensis*]
- Nesom, G.L. 2010. A new species of *Verbena* (Verbenaceae) from northeastern Mexico and an overview of the *V. officinalis* group. Phytoneuron 13: 1-13.
- O'Leary, N., Y.-W. Yuan, A. Chemisquy, & R.G. Olmstead. 2009. Reassignment of species of paraphyletic *Junellia* s.l. to the new genus *Mulguraea* (Verbenaceae) and new circumscription of genus *Junellia*: Molecular and morphological congruence. Syst. Bot. 34: 777-786.
- Turner, B.L. 1998. Texas species of *Glandularia* (Verbenaceae). Lundellia 1:3-16.
- Umber, R.E. 1979. The genus *Glandularia* (Verbenaceae) in North America. Syst. Bot. 4:72-102.
- ambrosiifolia* Rydberg = *Glandularia wrightii* (Gray) Umber  
*aristigera* S. Moore = *Glandularia aristigera* (S. Moore) Troncoso  
*arizonica* Briquet = *Glandularia gooddingii* (Briquet) Solbrig  
*bipinnatifida* Nuttall = *Glandularia bipinnatifida* (Nuttall) Nuttall  
*bipinnatifida* Nuttall var. *gooddingii* (Briquet) Jepson = *Glandularia gooddingii* (Briquet) Solbrig  
*bipinnatifida* Nuttall var. *latilobata* L.M. Perry = *Glandularia latilobata* (L.M. Perry) Nesom
- bracteata*** Lagasca & Rodríguez [M&H; W&S]  
*Verbena bracteata* Lagasca var. *brevibracteata* Gray  
*Verbena bracteosa* Michaux  
*Verbena confinis* Greene  
*Verbena imbricata* Wooton & Standley
- bracteata* Lagasca var. *brevibracteata* Gray = *Verbena bracteata* Lagasca & Rodríguez  
*bracteosa* Michaux = *Verbena bracteata* Lagasca & Rodríguez  
*canadensis* (Linnaeus) Britton = *Glandularia canadensis* (Linnaeus) Nuttall
- canescens*** Kunth [FNM I]  
*canescens* Kunth var. *neomexicana* Gray = *Verbena neomexicana* (Gray) Small var. *neomexicana*  
*chiricahensis* (Umber) Moldenke = *Glandularia chiricahensis* Umber  
*ciliata* Benthham var. *ciliata* = *Glandularia bipinnatifida* (Nuttall) Nuttall  
*ciliata* Benthham var. longidentata Perry [= *Glandularia polyantha* Umber]: Not occurring in NM.  
*ciliata* Benthham var. *pubera* (Greene) Perry = *Glandularia pubera* (Greene) Nesom  
*confinis* Greene = *Verbena bracteata* Lagasca & Rodríguez  
*fruticosa* Miller = *Phyla fruticosa* (Miller) K. Kennedy ex Wunderlin & Hansen  
*gooddingii* Briquet = *Glandularia gooddingii* (Briquet) Solbrig  
*gooddingii* Briquet var. *nepitifolia* Tidestrom = *Glandularia gooddingii* (Briquet) Solbrig  
*goodmanii* Moldenke : Reported by Kartesz (2015), a typographical error for *Verbena gooddingii* Briquet.
- gracilis*** Desfontaines [McIntosh 1996; Nesom 2010]  
*gratissima* Gillies & Hooker = *Aloysia gratissima* (Gillies & Hooker) Troncoso  
*halei* Small : Reported without specimens by Moldenke (1980) or tentatively by Nesom (2010); awaiting verification.
- hastata*** Linnaeus [M&H; W&S]  
*Verbena hastata* Linnaeus var. *scabra* Moldenke  
*hastata* Linnaeus var. *scabra* Moldenke = *Verbena hastata* Linnaeus
- hirtella*** (Perry) Nesom [M&H; Nesom 2010]  
*Verbena neomexicana* (Gray) Small var. *hirtella* Perry  
*imbricata* Wooton & Standley = *Verbena bracteata* Lagasca & Rodríguez
- livermorensis*** Turner & Nesom [Nesom 2010]
- macdougalii*** Heller [M&H; W&S]
- mentifolia*** Benthham [Nesom 2010]  
*neomexicana* Small var. *hirtella* Perry = *Verbena hirtella* (Perry) Nesom
- neomexicana*** Small [M&H; W&S]  
*Verbena canescens* Kunth var. *neomexicana* Gray [nom. illeg. superfl., as “Neo-Mexicana”]  
*Verbena officinalis* Linnaeus var. *hirsuta* Torrey  
*neomexicana* Small var. *xylopoda* Perry = *Verbena xylopoda* (Perry) Nesom  
*nodiflora* Linnaeus = *Phyla nodiflora* (Linnaeus) Greene



\**officinalis* Linnaeus : Reported by Moldenke (1980), but specimens are unknown; awaits verification.

*officinalis* Linnaeus var. *hirsuta* Torrey = *Verbena neomexicana* Small

*perennis* Wooton [M&H; W&S]

*plicata* Greene [M&H]

*prismatica* Linnaeus = *Bouchea prismatica* (Linnaeus) Kuntze

*pubera* Greene = *Glandularia pubera* (Greene) Nesom

*pumila* Rydberg = *Glandularia pumila* (Rydberg) Umber

*scabra* Vahl [M&H]

*stricta* Ventenat [M&H]

*tenusecta* Briquet = *Glandularia aristigera* (S. Moore) Troncoso

*tumidula* Perry = *Glandularia tumidula* (Perry) Umber

*wrightii* Gray = *Glandularia wrightii* (Gray) Umber

*xylopoda* (Perry) Nesom [M&H; Nesom 2010]

*Verbena neomexicana* Small var. *xylopoda* Perry

*Vitex*...go to LAMIACEAE

*Zapania cuneifolia* Torrey = *Phyla cuneifolia* (Torrey) Greene

### Family VIBURNACEAE [3/4/6]

[Adoxaceae]

Eriksson, T. & M.J. Donoghue. 1997. Phylogenetic relationships of *Sambucus* and *Adoxa* (Adoxoideae, Adoxaceae) based on nuclear ribosomal ITS sequences and preliminary morphological data. *Syst. Bot.* 22(3): 555-573.

Jacobs, B., S. Huysmans, & E. Smets. 2010. Evolution and systematic value of fruit and seed characters in Adoxaceae (Dipsacales). *Taxon* 59(3): 850-866.

Judd, W.S., C.S. Campbell, E.A. Kellogg, P.F. Stevens, & M.J. Donoghue. 2016. *Plant Systematics: A Phylogenetic Approach*, 4<sup>th</sup> ed. Sinauer Associates, Inc., Sunderland, Massachusetts. 677 pp.

Tank, D.C. & M.J. Donoghue. 2010. Phylogeny and phylogenetic nomenclature of the Campanulidae based on an expanded sample of genes and taxa. *Syst. Bot.* 35(2): 425-441.

***Adoxa*** muskroot

*moschatellina* Linnaeus [M&H; W&S]

***Sambucus*** elderberry

Applequist, W.L. 2015. A brief review of recent controversies in the taxonomy and nomenclature of *Sambucus nigra* sensu lato. *Acta Hort.* 1061: 25-33.

Cronquist, A. & A.H. Holmgren. 1984. *Sambucus*, pp. 542-544. IN: *Intermountain Flora*, vol. 4. New York Botanical Garden.

Eriksson, T., & M.J. Donoghue. 1997. Phylogenetic relationships of *Sambucus* and *Adoxa* (Adoxoideae, Adoxaceae) based on nuclear ribosomal ITS sequences and preliminary morphological data. *Syst. Bot.* 22(3): 555-573.

Whittemore, A.T. 2018. What is *Sambucus mexicana* (Adoxaceae)? *J. Bot. Res. Inst. Texas* 12(1): 69-73.

*canadensis* Linnaeus var. *mexicana* (Presl ex A.P. de Candolle) Sargent = *Sambucus mexicana* C. Presl ex A.P. de Candolle var. *mexicana*

*cerulea* Rafinesque = *Sambucus mexicana* C. Presl ex A.P. de Candolle var. *cerulea* (Rafinesque) A.E. Murray

*cerulea* Rafinesque var. *mexicana* (C. Presl ex A.P. de Candolle) L. Benson = *Sambucus mexicana* C. Presl ex A.P. de Candolle var. *mexicana*

*cerulea* Rafinesque var. *neomexicana* (Wooton) Rehder = *Sambucus mexicana* C. Presl ex A.P. de Candolle var. *cerulea* (Rafinesque) A.E. Murray

*glauca* Nuttall var. *arizonica* Sargent = *Sambucus mexicana* C. Presl ex A.P. de Candolle var. *mexicana*

*glauca* Nuttall var. *neomexicana* A. Nelson = *Sambucus mexicana* C. Presl ex A.P. de Candolle var. *cerulea* (Rafinesque) A.E. Murray

*melanocarpa* Gray = *Sambucus racemosa* Linnaeus var. *melanocarpa* (Gray) McMinn

*mexicana* C. Presl ex A.P. de Candolle var. *cerulea* (Rafinesque) A.E. Murray

[M&H; W&S]

blue elderberry

*Sambucus cerulea* Rafinesque

*Sambucus cerulea* Rafinesque var. *neomexicana* (Wooton) Rehder

*Sambucus glauca* Nuttall var. *neomexicana* A. Nelson

*Sambucus neomexicana* Wooton

- Sambucus neomexicana* Wooton var. *vestita* (Wooton & Standley) Kearney & Peebles  
*Sambucus vestita* Wooton & Standley  
**mexicana** C. Presl ex A.P. de Candolle var. **mexicana** [M&H; W&S]  
 Mexican elderberry  
*Sambucus canadensis* Linnaeus var. *mexicana* (Presl ex A.P. de Candolle) Sargent  
*Sambucus cerulea* Rafinesque var. *mexicana* (C. Presl ex A.P. de Candolle) L. Benson  
*Sambucus glauca* Nuttall var. *arizonica* Sargent  
*microbotrys* Rydberg = *Sambucus racemosa* Linnaeus var. *microbotrys* (Rydberg) Kearney & Peebles  
*neomexicana* Wooton = *Sambucus cerulea* Rafinesque var. *neomexicana* (Wooton) Rehder  
*neomexicana* Wooton var. *vestita* (Wooton & Standley) Kearney & Peebles = *Sambucus mexicana* C. Presl ex A.P. de Candolle var. *cerulea* (Rafinesque) A.E. Murray  
*pubens* of NM authors = *Sambucus racemosa* Linnaeus var. *melanocarpa* (Gray) McMinn  
**racemosa** Linnaeus var. **melanocarpa** (Gray) McMinn [M&H; W&S]  
 red elderberry  
*Sambucus melanocarpa* Gray  
**racemosa** Linnaeus var. **microbotrys** (Rydberg) Kearney & Peebles [W&S]  
 red elderberry  
*Sambucus microbotrys* Rydberg  
*vestita* Wooton & Standley = *Sambucus mexicana* C. Presl ex A.P. de Candolle var. *cerulea* (Rafinesque) A.E. Murray
- Viburnum** snowball-bush, wayfaring-tree  
 Kartesz, J.T. 2018. Floristic Synthesis of North America. Build 1.0.6600.21894, 2/2/2018.  
 McAtee, W.L. 1956. A review of the nearctic *Viburnum*. Publ. by author, Chapel Hill, North Carolina.  
 \***lantana** Linnaeus [FNM I]  
 wayfaring-tree  
 \*macrocephalum Fortune : a single unverified report from San Juan County, but not known if cultivated or escaped to the wild  
 \*opulus Linnaeus : Reported by Kartesz 2018, based on McAtee 1956, but no specimens known.

**Family VIOLACEAE** [2/10/10]

*Calceolaria verticillata* (Ortega) Kuntze = *Pombalia verticillata* (Ortega) Paula-Souza

*Hybanthus verticillatus* (Ortega) Baillon = *Pombalia verticillata* (Ortega) Paula-Souza

**Pombalia**

Morton, C.V. 1957. The genus *Hybanthus* in continental United States. Contr. U.S. Natl. Herb. 29:74-77.

Paula-Souza, J. de & H.E. Ballard, Jr. 2014. Re-establishment of the name *Pombalia*, and new combinations from the polyphyletic *Hybanthus* (Violaceae). Phytotaxa 183(1): 1-15.

**verticillata** (Ortega) Paula-Souza [M&H; W&S]

*Calceolaria verticillata* (Ortega) Kuntze

*Hybanthus verticillatus* (Ortega) Baillon

*Viola verticillata* Ortega

**Viola**

violet

Allred, K.W. 1999. New plant distribution records. The New Mexico Botanist 13:7. [*Viola tricolor*]

Allred, K.W. 2012. Plant distribution reports [*Viola macloskeyi pallens*]. The New Mexico Botanist 56:3.

Baker, M.S. 1935. Studies in western violets - I. Madroño 3:51-56.

Baker, M.S. 1940. Studies in western violets - III. Madroño 5:218-231.

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Brizicky, G.K. 1961. The genera of Violaceae in the southeastern United States. J. Arnold Arbor. 42:321-333.

Heil, K.D., S.L. O'Kane, & A. Clifford. 2002. Additions to the flora of New Mexico from the San Juan Basin Flora project. The New Mexico Botanist 24:1-4. [*Viola rydbergii*]

Little, R.J. 2013. Violaceae, pp. 966-969. IN: Heil, K.D., S.L. O'Kane, L.M. Reeves, & A. Clifford. Flora of the Four Corners Region. Missouri Botanical Garden Press.

Little, R.J. & L.E. McKinney. 2015. *Viola*, pp. 111-164. IN: Flora of North America, vol. 6. Oxford University Press, New York.

- McCauley, R.A. & H.E. Ballard, Jr. 2013. *Viola calcicola* (Violaceae), a new endemic violet from the Guadalupe Mountains of New Mexico and Texas. *J. Bot. Res. Inst. Texas* 7(1):9-20.
- McKinney, L.E. 1992. A taxonomic revision of the acaulescent blue violets (*Viola*) of North America. *Sida, Bot. Misc.* 7:1-60.
- Spellenberg, R., R. Worthington, P. Knight, & R. Fletcher. 1986. Additions to the flora of New Mexico. *Sida* 11(4):455-470.
- Russell, N.H. 1965. Violets (*Viola*) of central and eastern United States: an introductory survey. *Sida* 2:1-113.

**adunca** J.E. Smith [M&H; W&S]*Viola adunca* J.E. Smith var. *bellidiflora* (Greene) Harrington*Viola montanensis* Rydberg*Viola puberula* (S. Watson) Howell*Viola retroscabra* Greene*adunca* J.E. Smith var. *bellidiflora* (Greene) Harrington = *Viola adunca* J.E. Smith*arizonica* Greene = *Viola nephrophylla* Greene*bicolor* Pursh : Reported by Little & McKinney (2015), but no authentic specimens known; awaits verification.

## field pansy

*Viola rafinesquii* Greene**calcicola** McCauley & Ballard [Little & McKinney 2015; McCauley & Ballard 2013]*Viola chasmatina* ined.**canadensis** Linnaeus [M&H; W&S]*Viola canadensis* Linnaeus var. *neomexicana* (Greene) House*Viola canadensis* Linnaeus var. *rugulosa* (Greene) C.L. Hitchcock*Viola canadensis* Linnaeus var. *scopulorum* Gray*Viola muriculata* Greene*Viola neomexicana* Greene*Viola rydbergii* Greene*Viola scopulorum* (Gray) Greene*canadensis* Linnaeus var. *neomexicana* (Greene) House = *Viola canadensis* Linnaeus*canadensis* Linnaeus var. *rugulosa* (Greene) C.L. Hitchcock *Viola canadensis* Linnaeus*canadensis* Linnaeus var. *scopulorum* Gray = *Viola canadensis* Linnaeus*chasmatina* ined. = *Viola calcicola* McCauley & Ballard*guadalupensis* A. Powell & B. Wauer : Reported by Kartesz (1999), but known as yet only from the Guadalupe Mountains of Texas.**macloskeyi** F.E. Lloyd [Allred 2012; W&S]*Viola macloskeyi* F.E. Lloyd var. *pallens* (Banks ex Gingins) C.L. Hitchcock*Viola pallens* (Banks ex Gingins) Brainerd*Viola rotundifolia* Hooker var. *pallens* Banks ex Gingins**missouriensis** Greene [M&H; W&S]*Viola sororia* Willdenow var. *missouriensis* (Greene) McKinney*Viola retusa* Greene*montanensis* Rydberg = *Viola adunca* J.E. Smith*muriculata* Greene = *Viola canadensis* Linnaeus*neomexicana* Greene = *Viola canadensis* Linnaeus**nephrophylla** Greene [M&H; W&S]*Viola arizonica* Greene*Viola nephrophylla* Greene var. *arizonica* (Greene) Kearney & Peebles*Viola pratincola* Greene*Viola sororia* Willdenow var. *affinis* as applied to western plans*nephrophylla* Greene var. *arizonica* (Greene) Kearney & Peebles = *Viola nephrophylla* Greene**nuttallii** Pursh [Great Plains Flora Association 1977; M&H]*pallens* (Banks ex Gingins) Brainerd = *Viola macloskeyi* F.E. Lloyd var. *pallens* (Banks ex Gingins) C.L. Hitchcock*palmata* Linnaeus : Reported by Spellenberg et al. (1986) and McKinney (1992), as *Viola viarum* Pollard, but the specimens in question have been subsequently named *Viola calcicola* McCauley & Ballard.*Viola triloba* Schweinitz*Viola viarum* Pollard*palmata* Linnaeus var. *sororia* (Willdenow) Pollard = *Viola sororia* Willdenow

- pedatifida*** G. Don [Little & McKinney 2015; M&H; W&S]  
 pinetorum Greene : Reported by W&S, but this species occurs in California.  
*pratincola* Greene = *Viola nephrophylla* Greene  
*puberula* (S. Watson) Howell = *Viola adunca* J.E. Smith  
*rafinesquii* Greene = *Viola bicolor* Pursh  
 reptans Robinson : Reported by W&S, but this species occurs in Mexico.  
*retroscabra* Greene = *Viola adunca* J.E. Smith  
*retusa* Greene = *Viola missouriensis* Greene  
*rotundifolia* Hooker var. *pallens* Banks ex Gingins = *Viola macloskeyi* F.E. Lloyd var.  
     *pallens* (Banks ex Gingins) C.L. Hitchcock  
*rydbergii* Greene = *Viola canadensis* Linnaeus  
*scopulorum* (Gray) Greene = *Viola canadensis* Linnaeus  
 selkirkii Pursh ex Goldie : Reported as expected by M&H; awaits verification.  
 sororia Willdenow : Reported by Little & McKinney (2015), but specimens are unknown  
     from the state; awaits verification.  
*Viola palmata* Linnaeus var. *sororia* (Willdenow) Pollard  
*sororia* Willdenow var. *affinis* as applied to western plants = *Viola nephrophylla* Greene  
**\*tricolor** Linnaeus [Allred 1999, mistakenly reported as *Viola bicolor*]  
 pansy  
*triloba* Schweinitz = *Viola palmata* Linnaeus  
*verticillata* Ortega = *Pombalia verticillata* (Ortega) Paula-Souza  
*viarum* Pollard = *Viola palmata* Linnaeus  
 ×*wilmattae* Pollard & Cockerell = name applied to hybrids or intermediates of *Viola*  
     *nephrophylla* Greene × *Viola pedatifida* G. Don [= *Viola palmata*  
     Linnaeus]

#### Family VISCACEAE [2/11/12]

- Judd, W.S., C.S. Campbell, E.A. Kellogg, P.F. Stevens, & M.J. Donoghue. 2016. *Plant Systematics: A Phylogenetic Approach*, 4<sup>th</sup> ed. Sinauer Associates, Inc., Sunderland, Massachusetts. 677 pp.  
 Hawksworth, F.G. & D. Wiens. 1993. Viscaceae. p. 1092-1097, IN J.C. Hickman (editor). *The Jepson Manual: Higher Plants of California*. Univ. California Press.  
 Mathiasen, R.L. & S.C. Kenaley. 2016. The classification of California Viscaceae: An alternative perspective. *Madroño* 63(1): 8-33.  
 Nickrent, D.L., V. Malécot, R. Vidal-Russell, & J.P. Der. 2010. A revised classification of Santalales. *Taxon* 59: 538-558.  
 Nickrent, D.L. 2016. Viscaceae, pp. 422-440. IN: *Flora of North America*, vol. 12. Oxford University Press, New York.  
 Peterson, R.S. 2005. Mistletoes (Viscaceae) of New Mexico. *The New Mexico Botanist* 33:3-4.
- Arceuthobium** dwarf-mistletoe  
 Hawksworth, F.G. & D. Wiens. 1972. *Biology and Classification of Dwarf Mistletoes (Arceuthobium)*. USDA Agric. Handbook No. 401.  
 Hawksworth, F.G. & D. Wiens. 1996. Dwarf mistletoes: biology, pathology, and systematics. *Agr. Handb.* 709, USDA-For. Serv.  
 Kenaley, S.C., R.L. Mathiasen, & C.M. Daugherty. 2016. Morphological evidence for continued species recognition among white pine dwarf mistletoes (Viscaceae): *Arceuthobium apacheicum*, *A. blumeri*, *A. californicum*, *A. cyanocarpum*, and *A. monticola*. *J. Bot. Res. Inst. Texas* 10(2): 361-383.  
 Nickrent, D.L. 2016. *Arceuthobium*, pp. 424-433. IN: *Flora of North America*, vol. 12. Oxford University Press, New York.  
 Nickrent, D.L., M.A. Garcia, M.P. Martin, & R.L. Mathiasen. 2004. A phylogeny of all species of *Arceuthobium* (Viscaceae) using nuclear and chloroplast DNA sequences. *Amer. J. Bot.* 91(1): 125-138.
- abietianum Engelmans ex Munz (= *Arceuthobium campylopodum* Engelmans subsp. subsp. abietinum (Engelmans) Nickrent) : Reported by Kartesz (1999) without documentation; awaits verification.  
*apacheicum* Hawksworth & Wiens = *Arceuthobium campylopodum* Engelmans subsp. *apacheicum* (Hawksworth & Wiens) Nickrent  
*Arceuthobium apacheicum* Hawksworth & Wiens  
***campylopodum*** Engelmans subsp. ***apacheicum*** (Hawksworth & Wiens) Nickrent  
 [Hawksworth & Wiens 1996; M&H]  
*Arceuthobium apacheicum* Hawksworth & Wiens  
***campylopodum*** Engelmans subsp. ***microcarpum*** (Engelmans) Nickrent  
 [Hawksworth & Wiens 1996; M&H; W&S]

- Arceuthobium campylopodum* Engelm in Gray forma *microcarpum* (Engelmann) Gill
- Arceuthobium douglasii* Engelm var. *microcarpum* Engelm
- Razoumofskya microcarpa* (Engelmann) Wooton & Standley
- campylopodum* Engelm in Gray forma *divaricatum* (Engelmann) Gill = *Arceuthobium divaricatum* Engelm
- campylopodum* Engelm in Gray forma *microcarpum* (Engelmann) Gill = *Arceuthobium campylopodum* Engelm subsp. *microcarpum* (Engelmann) Nickrent
- cryptopodum* Engelm = *Arceuthobium vaginatum* (Willdenow) Presl subsp. *cryptopodum* (Engelmann) Hawksworth & Wiens
- divaricatum*** Engelm [Hawksworth & Wiens 1996; M&H; W&S]
- Arceuthobium campylopodum* Engelm in Gray forma *divaricatum* (Engelmann) Gill
- Razoumofskya divaricata* (Engelmann) Coville
- douglasii*** Engelm [Hawksworth & Wiens 1996; M&H; W&S]
- Razoumofskya douglasii* (Engelmann) Kuntze
- douglasii* Engelm var. *microcarpum* Engelm = *Arceuthobium campylopodum* Engelm subsp. *microcarpum* (Engelmann) Nickrent
- gillii*** Hawksworth & Wiens [Hawksworth & Wiens 1996; M&H]
- microcarpum* (Engelmann) Hawksworth & Wiens = *Arceuthobium campylopodum* Engelm subsp. *microcarpum* (Engelmann) Nickrent
- vaginatum*** (Willdenow) Presl subsp. ***cryptopodum*** (Engelmann) Hawksworth & Wiens [Hawksworth & Wiens 1996; M&H; W&S]
- Arceuthobium cryptopodum* Engelm
- Razoumofskya cryptopoda* (Engelmann) Coville
- Phoradendron** mistletoe
- Hubbard, J.P. 1981. Extirpation of a population of desert mistletoe. Native Plant Society of New Mexico Newsletter 6(6):3.
- Huff, C. 1996. New plant distribution records (*Brassica rapa*, *Fraxinus anomala*, *Phoradendron californicum*). The New Mexico Botanist 3:6.
- Kuijt, J. 2003. Monograph of *Phoradendron* (Viscaceae). Syst. Bot. Monogr. 66:1-643.
- Nickrent, D.L. 2016. *Phoradendron*, pp. 434-439. IN: Flora of North America, vol. 12. Oxford University Press, New York.
- Peterson, R.S. 2000. Juniper mistletoes: 1, 2, and Phsp.? The New Mexico Botanist 16:7. [*Phoradendron hawksworthii*]
- Peterson, R.S. 2005. Mistletoes (Viscaceae) of New Mexico. The New Mexico Botanist 33:3-4.
- Wiens, D. 1964. Revision of the acataphyllous species of *Phoradendron*. Brittonia 16:11-54.
- Wiens, D. & F. Hawksworth. 2002 [2004]. New species of *Phoradendron* (Viscaceae) from Mexico and Guatemala and a synopsis of species in section *Pauciflorae*. Aliso 21(1):33-43. [*Phoradendron hawksworthii*]
- bolleanum* (Seemann) Eichler var. *capitellatum* (Torrey ex Trelease) Kearney & Peebles = *Phoradendron capitellatum* Torrey ex Trelease
- bolleanum* (Seemann) Eichler subsp. *hawksworthii* ined. = *Phoradendron bolleanum* (Seemann) Eichler
- bolleanum*** (Seemann) Eichler [Wiens & Hawksworth 2002]
- Phoradendron bolleanum* (Seemann) Eichler subsp. *hawksworthii* ined.
- Phoradendron hawksworthii* Wiens
- californicum*** Nuttall [Hubbard 1981; Huff 1996; M&H; Peterson 2005]
- capitellatum*** Torrey ex Trelease [Kuijt 2003; M&H; Wiens 1964]
- Phoradendron bolleanum* (Seemann) Eichler var. *capitellatum* (Torrey ex Trelease) Kearney & Peebles
- cockerellii* Trelease = *Phoradendron leucarpum* (Rafinesque) Reveal & M.C. Johnston
- coryae* Trelease = *Phoradendron villosum* (Nuttall) Nuttall ex Engelmann subsp. *coryae* (Trelease) Wiens
- flavescens* (Pursh) Nuttall ex A. Gray var. *macrophyllum* Engelm = *Phoradendron leucarpum* (Rafinesque) Reveal & M.C. Johnston
- flavescens* (Pursh) Nuttall ex A. Gray var. *orbiculatum* (Engelm ex Gray) Engelm : Reported by M&H, but not occurring in NM [Kuijt 2003; Wiens 1964].
- flavescens* (Pursh) Nuttall ex A. Gray var. *pubescens* Engelm = *Phoradendron villosum* (Nuttall) Nuttall ex Engelmann subsp. *coryae* (Trelease) Wiens

- flavescens* (Pursh) Nuttall ex A. Gray var. *villosum* of NM reports = *Phoradendron villosum* (Nuttall) Nuttall ex Engelm subsp. *coryae* (Trelease) Wiens  
*havardianum* Trellease = *Phoradendron villosum* (Nuttall) Nuttall ex Engelm subsp. *coryae* (Trellease) Wiens  
*hawksworthii* Wiens = *Phoradendron bolleanum* (Seemann) Eichler  
***juniperinum*** Engelm ex Gray subsp. ***juniperinum*** [Kuijt 2003; M&H; W&S]  
***leucarpum*** (Rafinesque) Reveal & M.C. Johnston [Kuijt 2003; M&H; W&S; Wiens 1964]  
*Phoradendron cockerellii* Trellease  
*Phoradendron flavescens* (Pursh) Nuttall ex A. Gray  
*Phoradendron flavescens* (Pursh) Nuttall ex A. Gray var. *macrophyllum* Engelm  
*Phoradendron serotinum* (Rafinesque) M.C. Johnston  
*Phoradendron serotinum* (Rafinesque) M.C. Johnston subsp. *macrophyllum* (Engelm) Kuijt  
*Phoradendron serotinum* (Rafinesque) M.C. Johnston subsp. *tomentosum* (de Candolle) Kuijt  
*Viscum leucarpum* Rafinesque  
*macrophyllum* (Engelm) Cockerell = *Phoradendron leucarpum* (Rafinesque) Reveal & M.C. Johnston  
*serotinum* (Rafinesque) M.C. Johnston = *Phoradendron leucarpum* (Rafinesque) Reveal & M.C. Johnston  
*serotinum* (Rafinesque) M.C. Johnston subsp. *macrophyllum* (Engelm) Kuijt = *Phoradendron leucarpum* (Rafinesque) Reveal & M.C. Johnston  
*serotinum* (Rafinesque) M.C. Johnston subsp. *tomentosum* (de Candolle) Kuijt = *Phoradendron leucarpum* (Rafinesque) Reveal & M.C. Johnston  
***villosum*** (Nuttall) Nuttall ex Engelm subsp. ***coryae*** (Trellease) Wiens [Kuijt 2003; M&H; Wiens 1964]  
*Phoradendron coryae* Trellease  
*Phoradendron flavescens* (Pursh) Nuttall ex A. Gray var. *pubescens* Engelm  
*Phoradendron flavescens* (Pursh) Nuttall ex A. Gray var. *villosum* of NM reports  
*Phoradendron havardianum* Trellease  
*villosum* Nuttall subsp. *coryae* (Trellease) Wiens = *Phoradendron villosum* (Nuttall) Nuttall ex Engelm subsp. *coryae* (Trellease) Wiens  
Razoumofskya cyanocarpa A. Nelson ex Rydberg [= *Arceuthobium campylopodum* Engelm subsp. *cyanocarpum* (A. Nelson ex Rydberg) Nickrent : Reported by W&S, but not occurring in NM [Hawksworth & Wiens 1996; Nickrent 2016].  
*divaricata* (Engelm) Coville = *Arceuthobium divaricatum* Engelm  
*douglasii* (Engelm) Kuntze = *Arceuthobium douglasii* Engelm  
*microcarpa* (Engelm) Wooton & Standley = *Arceuthobium campylopodum* Engelm subsp. *microcarpum* (Engelm) Nickrent  
*cryptopoda* (Engelm) Coville = *Arceuthobium vaginatum* (Willdenow) Presl subsp. *cryptopodum* (Engelm) Hawksworth & Wiens  
*Viscum leucarpum* Rafinesque = *Phoradendron leucarpum* (Rafinesque) Reveal & M.C. Johnston

### Family VITACEAE [3/6/6]

Brizicky, G.K. 1965. The genera of Vitaceae in the southeastern United States. *J. Arnold Arbor.* 46:48-67.  
 Moore, M.O. & J. Wen. 2016. Vitaceae, pp. 3-23. IN: *Flora of North America*, vol. 12. Oxford University Press, New York.

*Ampelopsis quinquefolia* (Linnaeus) Michaux var. *vitacea* Knerr = *Parthenocissus vitacea* (Knerr) Hitchcock

#### **Cissus**

treebine

*incisa* (Nuttall) Des Moulins = *Cissus trifoliata* (Linnaeus) Linnaeus

***trifoliata*** (Linnaeus) Linnaeus [M&H; W&S]

*Cissus incisa* Des Moulins

*Sicyos trifoliatus* Linnaeus

*Vitis incisa* Nuttall ex Torrey & Gray

*Nekemias arborea* (Linnaeus) J. Wen & Boggan : Reported for NM by FNA, but no specimens are known; nearest collections are in central Texas and Oklahoma and eastward; awaits verification.

***Parthenocissus*** creeper

Gleason, H.A. 1947. The preservation of well known binomials. *Phytologia* 2:201-212.

Pringle, J.S. 2010. Nomenclature of the thicket creeper, *Parthenocissus inserta* (Vitaceae). *The Michigan Botanist* 49(3):73-78.

*inserta* (Kerner) Fritsch = *Parthenocissus quinquefolia* (Linnaeus) Planchon

**\**quinquefolia*** (Linnaeus) Planchon [FNM I]

*Hedera quinquefolia* Linnaeus

*Parthenocissus inserta* (Kerner) Fritsch

*Vitis inserta* Kerner

***vitacea*** (Knerr) Hitchcock [M&H; W&S]

*Ampelopsis quinquefolia* (Linnaeus) Michaux var. *vitacea* Knerr

*Pseodera vitacea* (Knerr) Greene

*Pseodera vitacea* (Knerr) Greene = *Parthenocissus vitacea* (Knerr) Hitchcock

***Vitis*** grape

Great Plains Flora Association. 1977. Atlas of the Flora of the Great Plains. Iowa State Univ. Press. 600 pp. [*Vitis riparia*]

Moore, M.O. 1991. Classification and systematics of eastern North American *Vitis* L. (Vitaceae) north of Mexico. *Sida* 14(3):339-368.

***acerifolia*** Rafinesque [M&H; Moore 1991]

*Vitis longii* Prince

*Vitis nuevo-mexicana* Lemmon ex Munson

***arizonica*** Engelm. [M&H; W&S]

*Vitis arizonica* Engelm. var. *glabra* Munson

*Vitis treleasii* Munson

*arizonica* Engelm. var. *glabra* Munson = *Vitis arizonica* Engelm.

× *doaniana* Munson ex Viala : Reported by M&H, but probably does not occur in NM [Moore 1991].

*inserta* Kerner = *Parthenocissus quinquefolia* (Linnaeus) Planchon

*incisa* Nuttall = *Cissus trifoliata* (Linnaeus) Linnaeus

*longii* Prince = *Vitis acerifolia* Rafinesque

*monticola* Buckley : Reported by M&H, but this species is endemic to the Edwards Plateau of central Texas (Moore 1991); our plants are referred to *Vitis arizonica* Engelm.; awaits further verification.

*nuevo-mexicana* Lemmon ex Munson = *Vitis acerifolia* Rafinesque

***riparia*** Michaux [Great Plains Flora Association 1977]

*treleasii* Munson = *Vitis arizonica* Engelm.

*vulpina* Linnaeus : Reported as expected by M&H; awaits verification.

**Family ZYGOPHYLLACEAE** [4/7/7]

Porter, D.M. 2016. Zygophyllaceae, pp. 28-42. IN: Flora of North America, vol. 12. Oxford University Press, New York.

*Covillea glutinosa* (Engelm.) Rydberg = *Larrea tridentata* (Sessé & Mociño ex A.P. de Candolle) Coville

*tridentata* (Sessé & Mociño ex A.P. de Candolle) Vail = *Larrea tridentata* (Sessé & Mociño ex A.P. de Candolle) Coville

***Kallstroemia*** caltrop

Porter, D.M. 1969. The genus *Kallstroemia*. *Contr. Gray Herb. Harvard Univ.* 198:41-153.

Turner, B.L. 2016. Overview of *Kallstroemia* (Zygophyllaceae) in the USA and Mexico, and description of a new species: *Kallstroemia porteri*.

*brachystylis* Vail = *Kallstroemia californica* (S. Watson) Vail

***californica*** (S. Watson) Vail [M&H; Porter 1969; W&S]

*Kallstroemia brachystylis* Vail

*Kallstroemia californica* (S. Watson) Vail var. *brachystylis* (Vail) Kearney & Peebles

*Tribulus californicus* S. Watson

*californica* (Wats) Vail var. *brachystylis* (Vail) Kearney & Peebles = *Kallstroemia californica* (S. Watson) Vail

***grandiflora*** Torrey ex Gray [M&H; Porter 1969; W&S]

***hirsutissima*** Vail ex Small [M&H; Porter 1969; W&S]  
*intermedia* Rydberg = *Kallstroemia parviflora* Norton  
*laetevirens* Thornber = *Kallstroemia parviflora* Norton  
*maxima* sensu M&H = *Kallstroemia parviflora* Norton  
***parviflora*** Norton [Porter 1969; W&S]

*Kallstroemia intermedia* Rydberg  
*Kallstroemia laetevirens* Thornber  
*Kallstroemia maxima* sensu M&H

***Larrea*** creosote-bush

Laport, R.G., R.L. Minckley, & J. Ramsey. 2012. Phylogeny and cytogeography of the North America creosote bush (*Larrea tridentata*, Zygophyllaceae). Syst. Bot. 37(1): 153-164.  
Mabry, T.J., J.H. Hunziker, & D.R. DiFeo, Jr. (eds.). 1977. Creosote Bush: biology and chemistry of *Larrea* in New World deserts. Halsted Press, Stroudsburg, Pa.

*glauca* Ortega = *Hoffmannseggia glauca* (Ortega) Eijert (Fabaceae)  
*divaricata* Cavanilles var. *tridentata* (Sessé & Mociño ex A.P. de Candolle) Felger & C.H. Lowe = *Larrea tridentata* (Sessé & Mociño ex A.P. de Candolle) Coville  
*mexicana* Moricand = *Larrea tridentata* (Sessé & Mociño ex A.P. de Candolle) Coville var. *tridentata*

***tridentata*** (Sessé & Mociño ex A.P. de Candolle) Coville var. ***tridentata*** [M&H; W&S]

*Covillea glutinosa* (Engelmann) Rydberg  
*Covillea tridentata* (Sessé & Mociño ex A.P. de Candolle) Vail  
*Larrea divaricata* Cavanilles var. *tridentata* (Sessé & Mociño ex A.P. de Candolle) Felger & C.H. Lowe  
*Larrea mexicana* Moricand  
*Zygophyllum tridentatum* Sessé & Mociño ex A.P. de Candolle

*Peganum*...go to NITRARIACEAE

***Tribulus*** puncture-vine

*californicus* S. Watson = *Kallstroemia californica* (S. Watson) Vail  
**\**terrestris*** Linnaeus [M&H; W&S]

***Zygophyllum*** bean-caper

**\**fabago*** Linnaeus [M&H]  
*tridentatum* Sessé & Mociño ex A.P. de Candolle = *Larrea tridentata* (A.P. de Candolle) Coville var. *tridentata*



### PART III: INDEX TO FAMILIES AND GENERA

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