



Wildflower Hot Spots
of the Eastern Sierra





Welcome to the Eastern Sierra...

THE EASTERN SIERRA truly is a land of superlatives: the oldest living trees on the planet (bristlecone pines); the highest peak in the contiguous United States (Mt. Whitney); the youngest mountain range in North America (Mono Craters); one of the oldest lakes in North America (Mono Lake). All of these and more are within an easy day's drive of each other. The spectacular landscapes of this area draw a worldwide audience, and with good reason.

Geology field classes often visit the area for the relatively easy access to a wide variety of geologic formations and rock types. Volcanic craters, basalt flows, layers of ash and pumice, carbonate formations, and granite peaks, walls, and spires all can be seen here.

Elevations you will visit using this guide range from 3,300 feet (1,005 meters) at Fossil Falls to 10,200 feet (3,100 meters) at the Mosquito Flat trailhead in Rock Creek. Many of the peaks around you soar to more than 13,000 feet, and a side trip into Death Valley will plunge you down to below sea level at Badwater.

The elevation range combined with the diverse geologic environment results in a wide variety of vegetation communities. Three major biotic provinces—the Mojave Desert, Great Basin, and Sierra Nevada—all converge in this area. Dozens of plant communities and thousands of plant species occur here, many of them unique to the Eastern Sierra. This guide is an introduction to the botanical gems to be encountered here. Once you've visited the sites in this guide, perhaps you will be inspired to further explore this land of superlatives on your own.





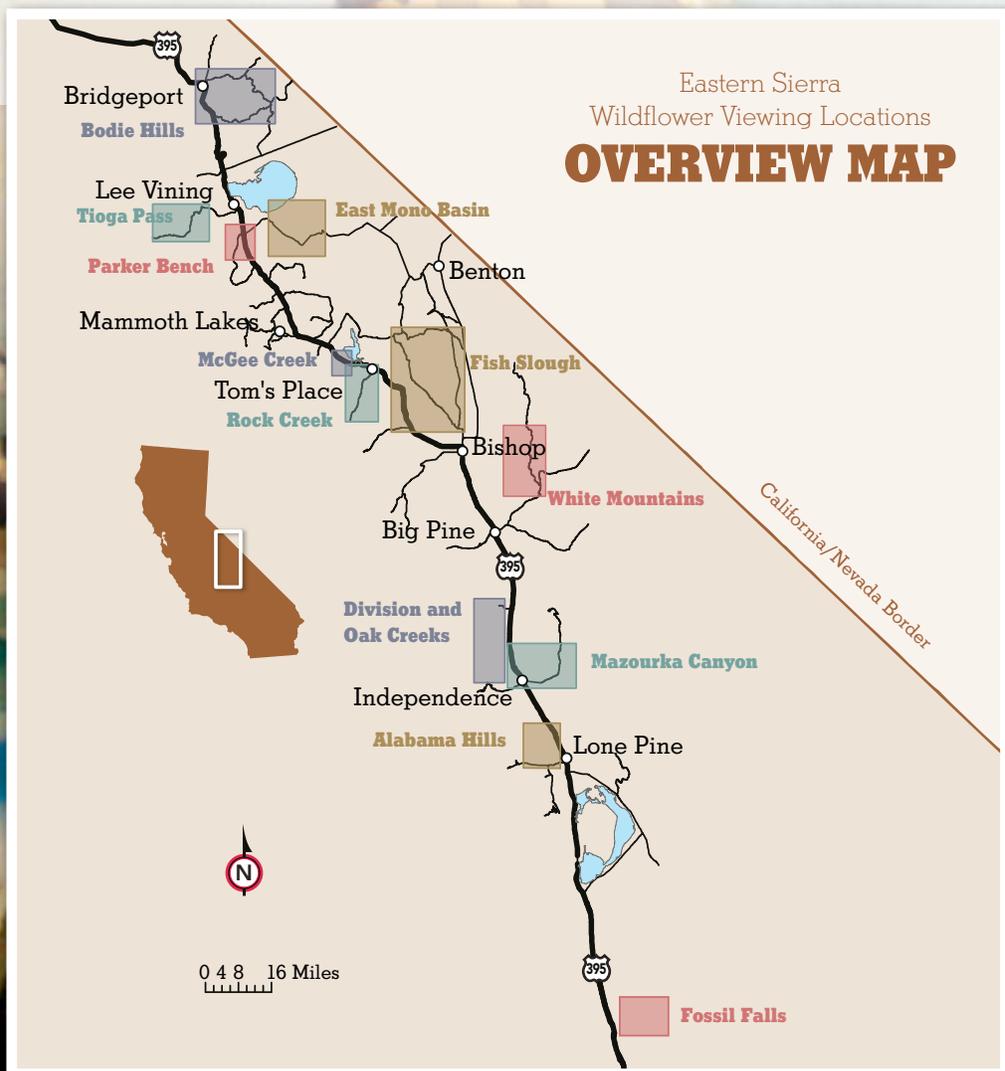
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About this Guide...

Wildflower Hot Spots of the Eastern Sierra highlights the unique ecology, geology, and unparalleled flora along 150 miles of the Eastern Sierra corridor. Twelve wildflower sites have been selected to represent the diversity of environments that are found throughout the Eastern Sierra. Each site features directions, a map, GPS coordinates, a description of the natural history of the area,

and photos. Topics you can learn about include plant rarity, disturbance processes, and the many ways people use plants. "Can You Find...?" proposes a fun challenge for you and your family. For a more in-depth look at the species found at each site, use the plant list featured in the back of this guide. Take the time to stop and smell the flowers in this extraordinary Eastern Sierra region!



Viewing Tips

Feast or Famine

It's all about the water. The amount as well as the pattern of precipitation and temperatures strongly affect the abundance and diversity of wildflowers, particularly at the drier and warmer low-elevation sites. In some years the area is carpeted with blooming wildflowers, while other years there are few to be found. If you visit in a dry year, you can entertain yourself with a closer look at the shrubs and trees. The variety of shapes, structures, and leaf types may surprise you with their own brand of beauty. If all else fails, enjoy the geology and views and pledge to return in a better flower year!

Choose Your Season

Wildflowers bloom in different sites at different times of the year, so your choice of viewing sites to visit will depend upon when your travels bring you to the area. There are blooms throughout the spring and summer, beginning as early as March at Fossil Falls and working your way north or higher in elevation up to Tioga Pass or Rock Creek, where flowers can be seen as late as September. Keep in mind that weather can influence how early or late things bloom in each area.

Use Field Guides

This guide can show you only a tiny fraction of the plant species that grow here. Using plant guides available for this area can help add to your discovery (see "Resources and Suggested Reading," p. 44). Guides are available in local bookstores and visitor centers.

Be Considerate

Take only photos, leave only footprints. Please refrain from



Monoptilon bellioides, desert star
Photo: Mary DeDecker

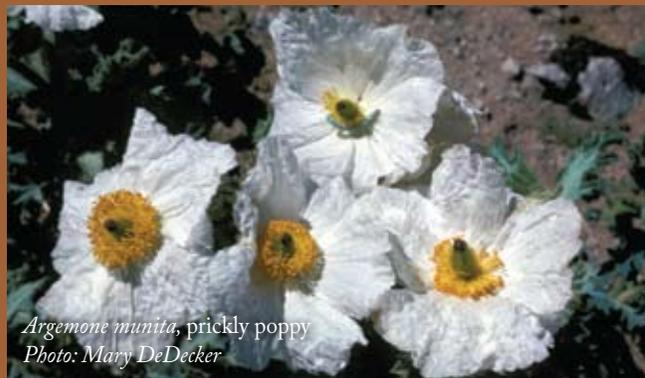
the urge to take flowers home or back to camp with you. Other visitors will want to enjoy them after you. Insects, birds, and other wildlife depend on vegetation, including flowers, for food and cover. Please take care not to disturb these creatures or their homes. Stay on roads and trails and pack out all your trash. Park in parking areas; where no designated parking area is available, choose parking sites carefully to minimize damage to vegetation.

Come Prepared

The weather can be unpredictable, even in summer. Bring multiple layers of clothing and be prepared for summer thundershowers. The sun is intense here, so be sure to use sunscreen, wear a hat, and drink plenty of water. You may find yourself a bit winded at the higher elevations; take it slow. Sturdy shoes are a good idea if you plan to do much exploring on foot. Handy tools of the trade to bring along may include a camera, binoculars, and a hand lens or other magnifier to investigate tiny flower features.



Xylorhiza tortifolia var. *tortifolia*, Mojave aster
Photo: Mary DeDecker



Argemone munita, prickly poppy
Photo: Mary DeDecker



Photo: © Larry Blakely



Photo: Mary DeDecker



Photo: © Larry Blakely

1. *Leptosyne bigelovii*, Bigelow coreopsis
2. *Larrea tridentata*, creosote bush
3. *Ambrosia dumosa*, burro-bush
4. *Amsinckia tessellata* var. *tessellata*, fiddleneck
5. *Langloisia setosissima*, bristly langloisia



Photo: Kathleen Nelson



Photo: © Steve Matson



Fossil Falls

Details

Directions: Follow Highway 395 south from Lone Pine for 45.4 miles, turn left at Cinder Road, and follow signs to Fossil Falls, approximately 1 mile off the highway.

Location: GPS coordinates (UTM NAD83) for turnoff to Cinder Road off of Highway 395:

Easting: 417054 **Northing:** 3981043

USGS Quad Map: Little Lake

Elevation: 3,310 feet (993 meters)

Habitat(s): Desert/Mojave scrub

Landscape: Rolling volcanic flows with prominent cinder cone and water-sculpted canyon

Facilities: Campground, parking area, bathroom, kiosk

Description

Fossil Falls is a place where fire and water have formed a rugged and unique landscape. Periods of volcanism dating as far back as 440,000 years ago laid down the initial basalt matrix, which was subsequently covered by numerous flows emanating from the Coso mountain range to the east. The red cinder cone visible to the north is the result of the violent eruption of trapped gases and molten material. Cooling quickly when exposed to the air, the molten material formed a porous rock known as scoria, which built up around the original vent to form a cone-shaped hill.

During the Pleistocene, the Owens River flowed south out of Owens Lake into the Indian Wells Valley. Volcanic eruptions from the Coso Range changed the river's course at least three times. Fossil Falls was formed when the Owens River was dammed by an eruption and ran over the basalt flows, sculpting and polishing the black rock into a spectacular geologic feature. Follow the 0.4-mile walking trail from the kiosk to access the falls and see a landscape resplendent with botanical treasures of color, form, and species diversity along the way.

Flower Facts

The vegetation at Fossil Falls typifies the Mojave Desert. Two key plant species that let us know we are in this floristic zone are burro-bush (*Ambrosia dumosa*) and creosote bush (*Larrea tridentata*). Both shrubs are regularly spaced across the landscape due to their ability to secrete compounds that inhibit the root growth of neighboring plants. Walk farther past the falls trailhead and the plant diversity expands. Tucked in the basalt boulders are vibrant displays of apricot mallow (*Sphaeralcea ambigua*) and purple Mojave aster (*Xylorhiza tortifolia* var. *tortifolia*). Look down and see a splendid array of exquisite "belly flowers," such as the desert star (*Monoptilon bellioides*). It helps to lie on your belly to get a good look at these!

Plants and People

Most of the archaeological materials found in the Fossil Falls vicinity reflect a cultural adaptation to the desert environment. The rock-ring features in this area supported conical brush or tule structures that served as shelter for only a few weeks or months of the year. The need for mobility as various plant foods ripened at different localities made permanent structures impractical.



Photo: Mary DeDecker



Photo: © John Dittli

Can You Find...?



Thistle sage (*Salvia carduacea*): Tall, erect stems and showy purple flowers protruding from spiny, white-woolly-coated bracts characterize this mint-family species. The Fossil Falls occurrences of thistle sage represent the most northern and western distribution of this species in California.

Holly dandelion (*Glyptopleura marginata*): This ground-hugging flower has white-rimmed and finely scalloped leaves and is topped with a single, showy yellow dandelion flower. When these are numerous, they look like little yellow saucers and glow atop the red cinder substrate that surrounds Fossil Falls.

The surrounding desert also contained the raw materials necessary for hunter-gatherers. The black scar seen on the dome-shaped hill to the east is a mile-long seam of volcanic glass, or obsidian. Obsidian was used almost exclusively in the manufacturing of stone tools such as projectile points, knives, and scrapers. The large scatters of obsidian flakes seen in the Fossil Falls vicinity are the by-products of this stone-tool manufacturing.



Photo: ©Stephen Ingram

Alabama Hills

Details

Directions: Take Highway 395 to Lone Pine. Turn west at the stoplight onto Whitney Portal Road. Drive 2.5 miles to Movie Road and turn right. Follow this well-maintained dirt road for 1.5 miles and park on your left to access the Arch Trail (a half-mile loop walk) or stay right to drive through the Alabama Hills (another eight miles north) to exit onto Highway 395.

Location: GPS coordinates (UTM NAD83) for turnoff to Movie Road: **Easting:** 400824 **Northing:** 4050607

USGS Quad Map: Lone Pine

Elevation: 4,610 feet (1,383 meters)

Habitat(s): Great Basin sagebrush steppe/Mojave scrub

Landscape: Dramatic rock outcrops interspersed by upland and riparian communities. Backdrop of Mt. Whitney and the Sierra range.

Facilities: Full facilities nearby in Lone Pine. Visitor Center south of Lone Pine with restrooms, exhibits, bookstore.

Description

The Alabama Hills is a landscape of breathtaking geologic contrasts. The glacially carved backdrop of the Sierra, which includes Mt. Whitney, is graced below by an expanse of rounded granitic outcrops replete with arches and caves. There are two main rock types exposed in the Alabama Hills: one is an orange, weathered, metamorphic volcanic that is 150–200 million years old, and the other is 90-million-year-old granite that has weathered into oddly shaped large boulders. Many of these boulders stand on end due to a type of spheroidal weathering that molds and cracks the numerous vertical rock joints.

The 30,000-acre Alabama Hills received its name from a Confederate warship. Prospectors sympathetic to the Confederate cause named their mining claims after the C.S.S. *Alabama*, and eventually the name stuck to these unique hills. The scenic rock formations have been the setting for many commercials and movies, including *Ironman* and *How the West Was Won*.

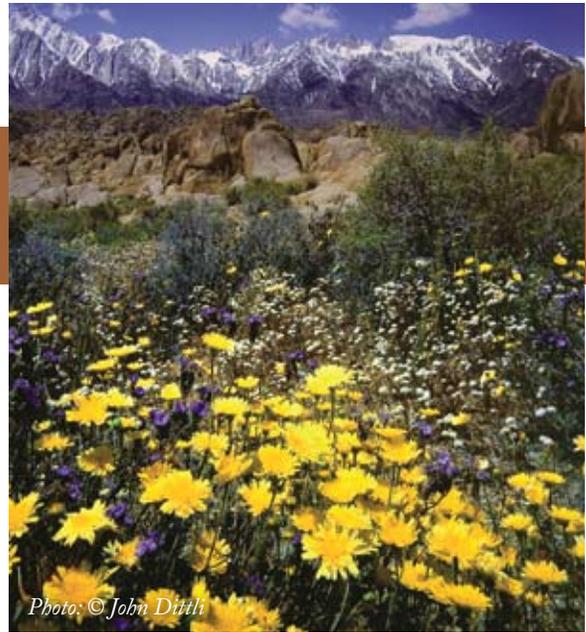


Photo: © John Dittli

The well-drained granitic soils surrounding the pantheon-like rock outcrops support a mix of Great Basin and Mojave species. Mojave asters (*Xylorhiza tortifolia* var. *tortifolia*) grace the southern entrance to the Alabama Hills, adding a lavender contrast to the subtle green of the common allscale (*Atriplex polycarpa*) and yellow mounds of bush sunflower (*Encelia actoni*). Tucked on ledges and on steeper slopes is the signature species for the Alabama Hills: the scarlet milk-vetch (*Astragalus coccineus*). A member of the pea family with a low-growing habit and large, bright-red flowers, it awakens the hills in early spring.

Flower Facts

Verdant passages of desert olive (*Forestiera pubescens*), yellow willow (*Salix lutea*), and common reed (*Phragmites australis*) are found throughout the Alabama Hills. Seeps and springs are also common and are home to rare plants such as the Inyo County star tulip (*Calochortus excavatus*) and Owens Valley checkerbloom (*Sidalcea covillei*). These oases are important for neotropical birds that pass through the Owens Valley, and they provide an important source of water, food, and shelter for a variety of desert denizens.

Plants and People

In some years, the Alabama Hills showcase powder-blue swaths of the wild hyacinth (*Dichelostemma capitatum* ssp. *capitatum*). This geophyte (a plant that has distinct bulbs or tubers) was one of the most coveted plant foods of Owens Valley Indians. Some of the starchy bulbs were steam-roasted, while others were dried for later use. There is also evidence of historic cultivation of this species. “Taboose” is the Paiute name for wild hyacinth.

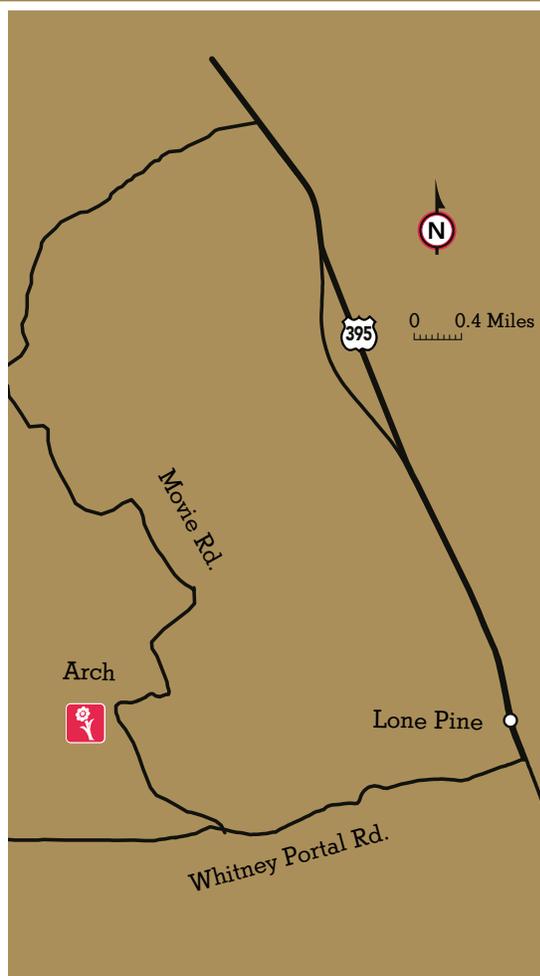


Photo: Gary Milano



Photo: Kay Izlar

1. *Malacothrix glabrata*, desert dandelion
2. *Sphaeralcea ambigua*, apricot mallow
3. *Astragalus coccineus*, scarlet milk-vetch
4. *Phacelia distans*, blue phacelia
5. *Stipa speciosa*, desert needlegrass
6. *Syntrichopappus fremontii*, Fremont gold



Photo: © Steve Matson

Can You Find...?

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Evening snow (*Linanthus dichotomus* ssp. *dichotomus*):

You'll have to rise early or stay until dusk to see this plant in the phlox family (*Polemoniaceae*). The five creamy white petals of evening snow unfurl only at dusk and smell like spicy vanilla. During midday, look for tightly whorled petals, almost invisible atop a thin stem.



Photo: Anne Halford



Photo: Anne Halford



Photo: Kay Izlar



Photo: Kay Izlar

Mazourka Canyon

Details

Directions: From the south end of Independence, go east on Mazourka Canyon Road and follow it for 7.2 miles to the mouth of the canyon.

Location: GPS coordinates (UTM NAD83) for entrance to Mazourka Canyon:

Easting: 400705 **Northing:** 4074238

USGS Quad Map: Bee Springs

Elevation: 4,409 feet (1,322 meters)

Habitat(s): Desert/Mojave scrub

Landscape: Canyons and desert washes

Facilities: Full facilities nearby in Independence



Photo: Kathleen Nelson



Photo: © John Dittli



Photo: Mary DeDecker



Photo: © Stephen Ingram

1. *Echinocactus polycephalus* var. *polycephalus*, cottontop
2. *Gilia cana*, showy gilia
3. *Opuntia polyacantha* var. *erinacea*, Mojave prickly pear
4. *Eriogonum inflatum*, desert trumpet
5. *Eriogonum rixfordii*, pagoda buckwheat
6. *Eriogonum nidularium*, bird's-nest buckwheat
7. *Lycium cooperi*, peach thorn



Photo: Sue Weis



Photo: © Steve Matson



Photo: © Steve Matson



Photo: Anne Halford

Description

The spectacular entrance to Mazourka Canyon reveals geologic processes dating back to the Mississippian and Devonian periods (323–417 million years ago), also known as the period of fish—look for fossils! The sculpted waves of metamorphic rock also indicate the immense seismic forces that shaped the Inyo mountain range. The Inyo Mountains, in contrast to the Sierra Nevada, are dominated by calcareous (high carbonate) soils, which enhance water-holding capacity and provide textural qualities that encourage the presence of such life forms as cryptobiotic soil crusts, a soil/vegetation matrix comprised of both lichen and algae species. Recent studies indicate that biotic soil crusts act as immense carbon sinks in otherwise carbon-poor desert ecosystems and play a critical role in keeping soils free from invasive non-native annual grasses.

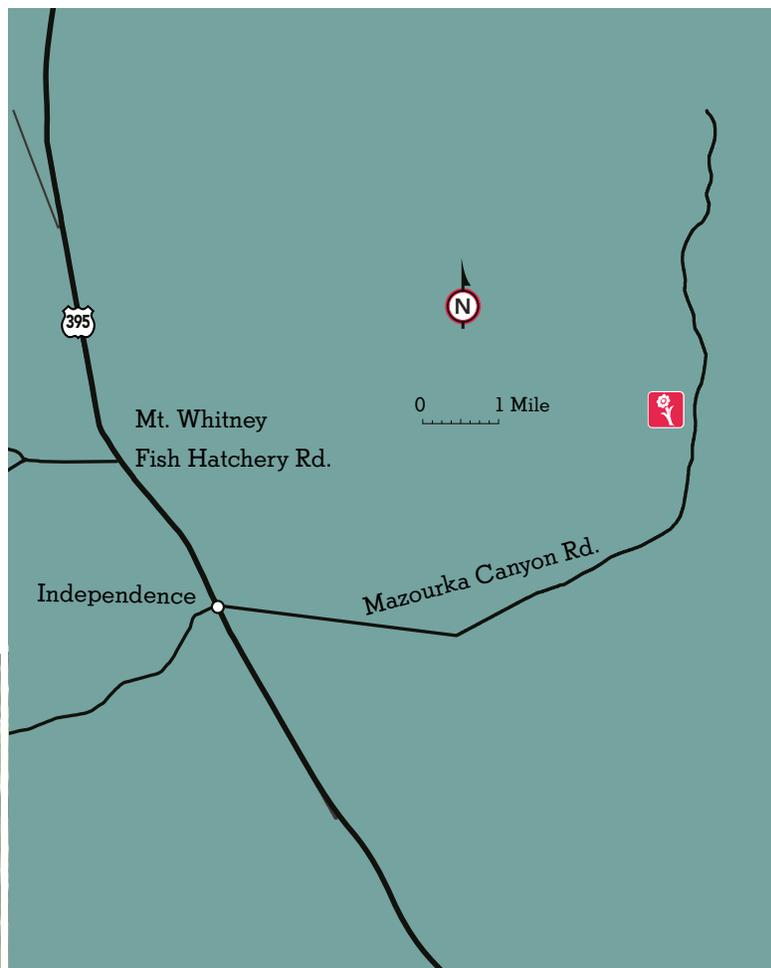
The alluvial fans that grace the canyon entrance support a mix of plants with varied form and niche. Mounds of bush sunflower (*Encelia actoni*) and yellow Shockley goldenhead (*Acamptopappus shockleyi*) contrast with an understory replete with cream-colored brown-eyed primrose (*Chylismia claviformis*) and purple bursts of showy gilia (*Gilia cana*). As you travel up the canyon, notice the diversity of cactus species that grow here: cottontop (*Echinocactus polycephalus* var. *polycephalus*), hedgehog cactus (*Echinocereus engelmannii*), Mojave mound cactus (*Echinocereus mojavensis*), beavertail cactus (*Opuntia basilaris* var. *basilaris*), and Mojave prickly pear (*Opuntia polyacantha* var. *erinacea*).

Flower Facts

The wide variety of habitats and soil types that occur in Mazourka Canyon enables many plant species to reach their distributional limits in the Eastern Sierra. Examples include broad-leaved gilia (*Aliciella latifolia* ssp. *latifolia*) and desert five-spot (*Eremalche rotundifolia*)—both more common in Death Valley. A variety of plants in the buckwheat family (*Polygonaceae*) are also found here and come in a variety of interesting forms such as the oddly shaped pagoda buckwheat (*Eriogonum rixfordii*) and bird's-nest buckwheat (*Eriogonum nidularium*). One of the most distinct buckweats is the desert trumpet (*Eriogonum inflatum*). The green stems account for 66–77 percent of the entire plant's photosynthetic surface area. Higher water-use efficiency in the stems of desert trumpet is attributed to both conservative water-use patterns and to their vertical orientation, allowing stems to remain photosynthetically active longer into the dry season.

Plants and People

One might not think that this dry desert canyon would offer much sustenance for hunter-gatherers, but tucked up on the rock ledges are vigorous stands of desert tomato (*Lycium andersonii*), which bear numerous edible red and juicy fruits. The diversity of cactus species also offered seeds and pulp for medicinal uses; even the inflated stems of the desert trumpet were used as pipes. Pinyon nuts collected from the one-leaved pinyon pine (*Pinus monophylla*) that grows on the higher benches and slopes of the Inyo Mountains offered one of the most nutritionally important food items.



Can You Find...?

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Mojave mound cactus (*Echinocereus mojavensis*): Perched high on the rock ledges, the red-orange blooms of this cactus will catch your eye. The mound-like form covered with finely textured spines can be large and often consists of more than 100 individual stems.

Bush peppergrass (*Lepidium fremontii*): The honey-sweet fragrance of this flowering woody plant often lets you know you're near it, and the bright-white, four-petaled blooms let you know it's in the mustard family.



Photo: © John Diteli

Division and Oak Creeks

Details

Directions:

Division Creek: From southbound Highway 395 approximately 13 miles south of Big Pine, turn right on Aberdeen Road toward Goodale Creek campground. Turn left on Tinemaha Road at Aberdeen, then right on Division Creek Road (signed), heading west. From northbound Highway 395, turn left on Sawmill Creek/Black Rock Road approximately 8.5 miles north of Independence, then right on Tinemaha Road, then left on Division Creek Road. The road turns to dirt at the Division Creek Powerhouse, where the bush lupines begin.

Oak Creek: From Highway 395 approximately two miles north of Independence, take Mt. Whitney Fish Hatchery Road to the west. Past the Fish Hatchery, the site begins as the road splits into North and South Fork Oak Creek roads.

Location: GPS coordinates (UTM NAD83) for Division Creek Road/Tinemaha Road intersection, and for Mt. Whitney Fish Hatchery Road where it splits to the North and South Forks of Oak Creek.

Division/Tinemaha Easting: 388066 **Northing:** 4088334

USGS Quad Map: Aberdeen

Oak Creek Easting: 388894 **Northing:** 4076698

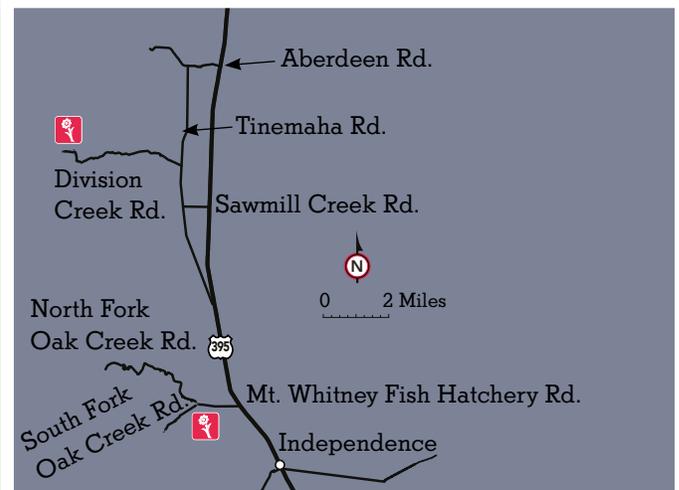
USGS Quad Map: Independence

Elevation: 4,000 to 6,000 feet (1,200 to 1,800 meters)

Habitat(s): Desert scrub, sagebrush-bitterbrush scrub, oak woodland, riparian

Landscape: Alluvial fans cut by riparian corridors flowing out of the Eastern Sierra escarpment. Recent fire and flood disturbances. Lava fields and cinder cones

Facilities: Sawmill Pass and Baxter Pass trailheads, restaurant and camping in Aberdeen



Description

Division Creek and Oak Creek are two of the many streams that flow from the high elevations of the Sierra Nevada down to the Owens River—a drop of up to 10,000 feet below the peaks. The sloping alluvial fans form at the mouths of canyons where the creeks have deposited tons of debris over thousands of years. At the foot of the escarpment is a fault zone where volcanic activity has formed cinder cones and lava flows. At Division Creek there is a large lava field on the north side of the road, and the Sawmill Pass trail traverses a cinder cone south of the road.

The streams here are unique in that they support species not typically found in the Eastern Sierra. The interior live oak (*Quercus wislizeni*) and California black oak (*Quercus kelloggii*), more commonly seen on the west side of the Sierra Nevada, and narrow-leaved cottonwood (*Populus angustifolia*), typically found



Photo: Sue Weis

1



Photo: Kay Izlar

2



Photo: © Stephen Ingram

3



Photo: Sue Weis

4

1. *Ceanothus vestitus*, desert ceanothus; *Lupinus excubitus* var. *excubitus*, Inyo bush lupine
2. *Erigeron breweri*, Brewer's fleabane
3. *Quercus kelloggii*, California black oak
4. *Lupinus magnificus*, Kerr lupine
5. *Purshia tridentata*, bitterbrush (post-fire resprout)



Photo: Kathleen Nelson

5

farther east in the Great Basin and Rocky Mountains, all occur here. Other trees growing along these streams include the canyon live oak (*Quercus chrysolepis*), willows (*Salix* spp.), and other cottonwoods (*Populus* spp.). Shrubs associated with the riparian corridors include California buckthorn, or coffeeberry (*Frangula californica*); wild rose (*Rosa woodsii*); and gooseberry (*Ribes* spp.).

Disturbance in the Desert

The Division Creek and Oak Creek areas are in different stages of recovery from fires. Division Creek burned in April 1999, the Goodale area just north of Division in 2006, and Oak Creek in July 2007. Oak Creek subsequently experienced a very heavy localized rain event in the summer of 2008. Soils laid bare by the recent fire became mobilized in the stream channels, causing Oak Creek and its tributary drainages to overflow, carrying masses of sediment down the slopes and across Highway 395.

Notice the difference in recovery between the flood and fire areas. Fires often leave behind living root-crowns to re-sprout the following spring, or seeds to germinate when conditions are favorable. Some species even require the heat of fire to aid in germination. In contrast, the flood debris buried many seeds and root crowns too deeply for them to survive. Without human intervention, recovery in this area will have to wait for seeds to move into the area via wind, water, or wildlife.

Flower Facts

The common large shrubby lupine at Division and Oak creeks is



Photo: © Steve Matson

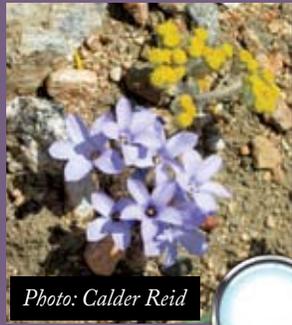


Photo: Calder Reid

Can You Find...?

Owens Valley penstemon (*Penstemon patens*): Look closely into the "throat" of the flowers on this plant; use a magnifier if you have one. Penstemons, also called beardtongues, have an infertile stamen, called a staminode, arising from within the throat of the corolla (the petals). The staminode of many penstemon species is covered with hairs, appearing as a hairy, or bearded, tongue—hence the common name for the genus.

Sand blossoms (*Linanthus parryae*): Seemingly perched on the surface of the ground, sand blossom flowers can completely obscure the short stem and tiny leaves of the plant. In a wet year they carpet the ground in places, providing amazing colorful displays against the desert soils. It's not unusual to find patches of sand blossoms with blue, lavender, and white flowers all mixed together.

the Inyo bush lupine, or grape-soda lupine (*Lupinus excubitus* var. *excubitus*). You'll understand the origin of this name as the fragrance of these beautiful plants fills the air during the May bloom.

Lupines can be recognized by their distinctive palmately compound leaves, shaped somewhat like a hand. The flowers, arranged along the tall stems, are often purple with a white or yellow patch that turns dark red or purple after the flowers have been pollinated. After fires on the alluvial fans, the grape-soda lupines are among the first shrubs to appear. They provide beautiful spring displays for many years as the sagebrush and bitterbrush are reestablishing.

White Mountains



Photo: © Stephen Ingram

Details

Directions: From the intersection of Highways 395 and 168, at the north end of Big Pine, travel east on Highway 168 for 13 miles. Turn left (north) onto White Mountain Road, where this site begins. It is 10 miles from this intersection to the Schulman Grove. This is a narrow, winding drive from the Owens Valley floor, so please be cautious and watch your speed. Don't overheat your brakes; use gears to help you descend.

Location: GPS coordinates (UTM NAD83) for intersection of Westgard Pass Road and White Mountain Road: **Easting:** 397946 **Northing:** 4126805

USGS Quad Map: Westgard Pass

Elevation: 7,300 feet (2,200 meters) at Westgard Pass to 10,100 feet (3,050 meters) at Schulman Grove.

Habitat(s): Pinyon-juniper woodland, sagebrush scrub communities, bristlecone pine forest, limber pine forest

Landscape: Wide vistas east toward the Great Basin and Mojave Desert and west toward the Sierra Nevada; large expanses with diverse geology and topography.

Facilities: Pinyon Picnic Area; Grandview Campground; Schulman Grove Visitor Center with restrooms, nature trails, exhibits, bookstore, and ranger-led programs. No water available.

Description

As with so many sites in the Eastern Sierra, you can travel through multiple life-zones within a short drive in the White Mountains. You will climb 3,000 feet in elevation just to reach the lower elevation of this viewing area! From Westgard Pass you will climb another 3,000 feet to reach Schulman Grove, the upper end of this site. Notice the vast stands of pinyon pine in the vicinity of Westgard Pass and elsewhere along the way. Their nutritious nuts have been an important food source for local Native American tribes for thousands of years.

At the Pinyon Picnic Area, take a stroll around the nature

trail. The light- and dark-gray-colored carbonate rocks provide a unique habitat for many species. Look for differences in the suite of plants you see on these rocks versus those growing on the darker brown soils. You will find more evidence of this affinity of certain plant species to specific substrates as you explore the Schulman Grove. Indeed, the bristlecone pine (*Pinus longaeva*) is found on dolomite, the light-colored calcium-magnesium carbonate rock, but is generally absent from the darker-brown sandstones, where sagebrush communities (*Artemisia* spp.) dominate. The Bristlecone Cabin Trail to the Mexican Mine offers some of the best wildflower viewing in the vicinity of Schulman Grove.

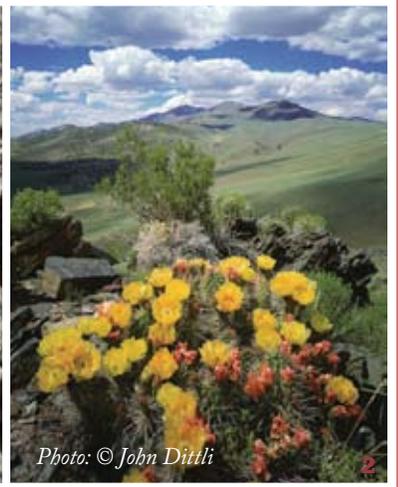
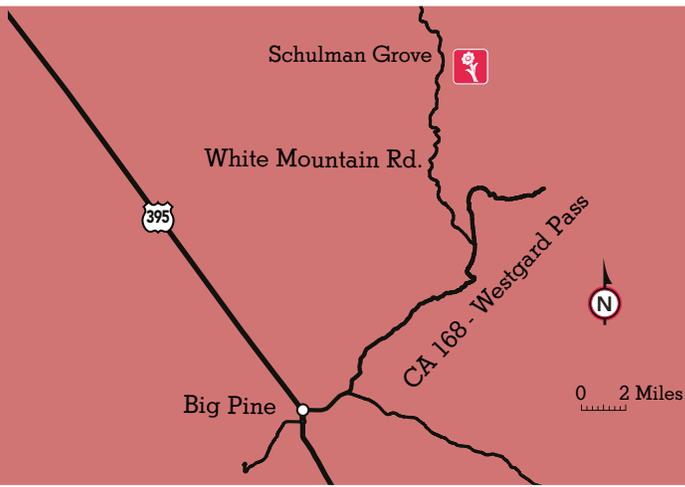
Records of Change

Due to their longevity and decay-resistant wood, bristlecone pines have long been used to study variations in climate over time, and much climate-related research is still ongoing here. Visit the exhibits at Schulman Grove for an interesting look at the history of research in the bristlecone pine forest and what the trees can tell us about past climatic conditions here.

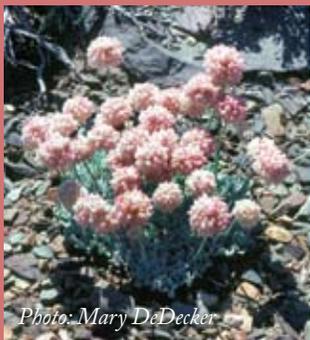
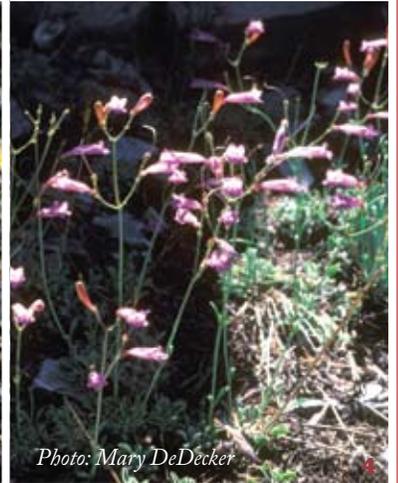
What will happen to the bristlecone pine with the current and projected changes in climate? Will warmer temperatures create a more hospitable environment for insects and disease in the bristlecone pine forest? Will the White Mountains experience drought or increased summer rains, and what effect will that have on these high-elevation forests? There are many unanswered questions as to the fate of the bristlecone pine over the coming years.

Flower Facts

As noted above, the carbonate soils found in many areas in the White Mountains provide a unique habitat for several species. These soils contain different minerals than other soils in the area, and the lighter color of the substrate can affect temperature and available moisture, determining which plant species will grow here. The Westgard penstemon (*Penstemon scapoides*), dolomite milk-vetch (*Astragalus kentrophyta* var. *tegetarius*), and Lemmon's rubberweed (*Hymenoxys lemmonii*) are a few of the carbonate species you can see at either the Pinyon Picnic Area or Schulman Grove, and elsewhere in the White Mountains.



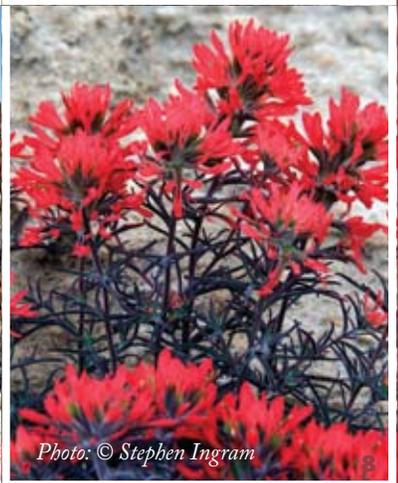
1. *Erigeron clokeyi* var. *pinzliae*, Clokey daisy
2. White Mountains with prickly pear
3. *Hymenoxys lemmonii*, Lemmon's rubberweed
4. *Penstemon scapooides*, Westgard penstemon
5. *Chaetopappa ericoides*, heath daisy
6. *Angelica lineariloba*, soda straw
7. Pinyon-juniper woodland
8. *Castilleja chromosa*, desert paintbrush



Can You Find...?

Cushion buckwheat (*Eriogonum ovalifolium*): As the name suggests, this plant looks like a small cushion set down on the ground surface. "Ovalifolium" also tells us something about this plant (hint: examine the leaf shape). Stems rising up to six inches above the cushion support clustered heads of whitish, pink, or soft-yellow flowers.

Pinyon streptanthus (*Streptanthus cordatus* var. *cordatus*): Also called jewelflower for its small, urn-shaped flowers, this plant can reach more than two feet tall but somehow still manages to blend in with its surroundings, particularly if it is not in bloom. When you spot the yellow to purple flowers, look below along the stem for the clasping heart-shaped leaves. Later in the season the flowers yield to conspicuous seedpods, held upright from the stem.



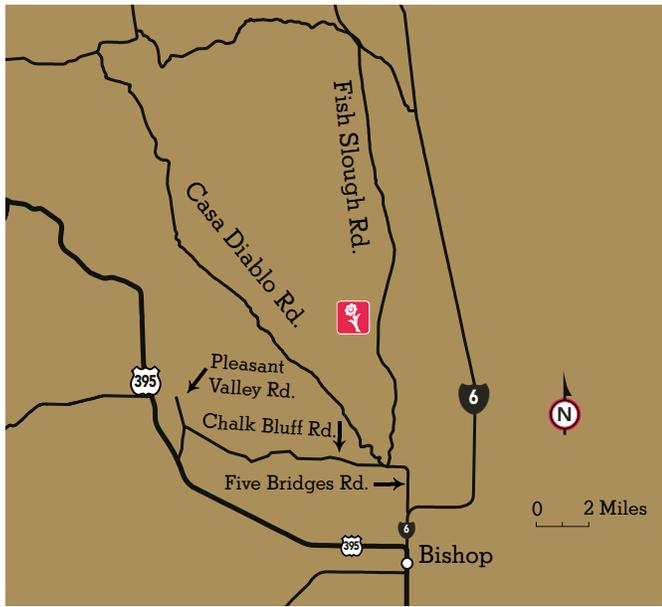


Photo: Martin Oliver

Fish Slough

Area of Critical Environmental Concern (ACEC) and the Volcanic Tableland

Details

Directions: From the intersection of Highway 395 and Highway 6 in Bishop, take Highway 6 until you reach Five Bridges Road. Follow Five Bridges Road until it turns to dirt and intersects with Fish Slough Road, Casa Diablo Road, and Chalk Bluff Road. At this intersection are informational signs welcoming you to the area. Access Fish Slough via Fish Slough Road; take Casa Diablo Road to explore the Volcanic Tableland. Chalk Bluff Road will take you along the base of the Tableland. You can stop anywhere you find an appropriate pullout.

Location: GPS coordinates (UTM NAD83) for intersection of Five Bridges and Casa Diablo roads:

Easting: 375283 **Northing:** 4142370

USGS Quad Map: Fish Slough

Elevation: 4,198 feet (1,280 meters)

Habitat(s): Desert scrub, alkali meadow, wetland

Landscape: Volcanic flow and valley between dramatic horst and graben formation

Facilities: Full facilities nearby in Bishop

Description

The Fish Slough ecosystem is located in the northern end of the Owens Valley along the eastern edge of the Sierra Nevada in the transition between the Mojave Desert and Great Basin floristic provinces. The wetland that comprises Fish Slough is bounded by the Volcanic Tableland, an area formed by the cataclysmic explosion of the Long Valley Caldera 750,000 years ago.

The Bishop Tuff—a porous white, pink, and tan rock that makes up the Volcanic Tableland—is derived from the pyroclastic flow of the caldera. This flow later was warped and cracked by faulting, which lifted some parts and dropped others. The small, round hills that dot some parts of the Tableland are the result of fumaroles of hot water and steam that vented from the cooling ash flow and hardened the tuff so that it resisted erosion. One of the most active faults in the Owens Valley runs along the east side of Fish Slough and the Volcanic Tableland.

Water percolates through the Tableland's porous rock to emerge from three perennial, free-flowing freshwater springs. Fish Slough, with 126 wetland plant species, has one of the richest wetland floras in the Great Basin and includes eight rare species, such as the Fish Slough milk-vetch, that occur nowhere else in the world.

Flower Facts

If the winter and early-spring rains have been plentiful, the Volcanic Tableland and slopes bounding Fish Slough can be carpeted by colorful swaths of Venus blazing star (*Mentzelia nitens*), yellow cups (*Chylismia brevipes*), and magenta-colored narrow-leaved nama (*Nama depressum*). Along the eastside road of Fish Slough, in the early-morning hours, the hillsides are covered with lavender-pink mounds of the rose four-o'clock (*Mirabilis alipes*). Driving along Chalk Bluff Road, the steep escarpment of the Volcanic Tableland can be covered with showy white and yellow primrose (*Chylismia* spp., *Camissonia* spp.), Nevada cryptantha (*Cryptantha nevadensis*), purple-flowered chia (*Salvia columbariae*), and the indigo blooms of the shrub indigo bush (*Psoralethamnus arborescens* var. *minutifolius*).

Plants and People

Fish Slough's botanical and faunal resources provided a real abundance for Native Americans. Food sources included wetland bulrush species (*Schoenoplectus* spp.) as well as desert scrub plant resources such as Indian ricegrass (*Stipa hymenoides*) and Great Basin wildrye (*Elymus cinereus*), which were harvested and transported in baskets woven from willow branches.



Photo: Mary DeDecker

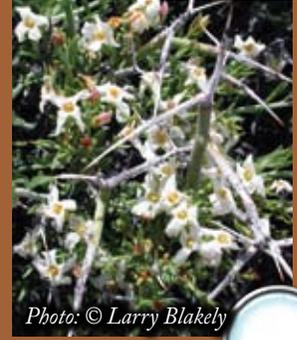


Photo: © Larry Blakely



Can You Find...?

Alkali shooting star (*Dodecatheon pulchellum*):

Look for this plant in the alkali meadows along the eastside road of Fish Slough. It features vibrant magenta flowers atop long, straight stems with smooth-margined leaves.

Spiny menodora (*Menodora spinescens*): Look for this plant in the rocky Bishop Tuff of the Volcanic Tableland. The low-growing, spiny, green-angled stems are often covered first with tiny, creamy white flowers and then followed with clusters of round, reddish-green fruits. Spiny menodora is a common Mojave scrub species in the olive family.



Photo: Anne Halford



Photo: Mary DeDecker



Photo: © Steve Matson

1. *Psoralethamnus arborescens* var. *minutifolius*, indigo bush
2. *Psathyrotes annua*, fan-leaf
3. *Mentzelia nitens*, Venus blazing star
4. *Nama aretioides*, sagebrush nama
5. *Spartina gracilis*, alkali cordgrass
6. *Chylismia claviformis*, brown-eyed primrose



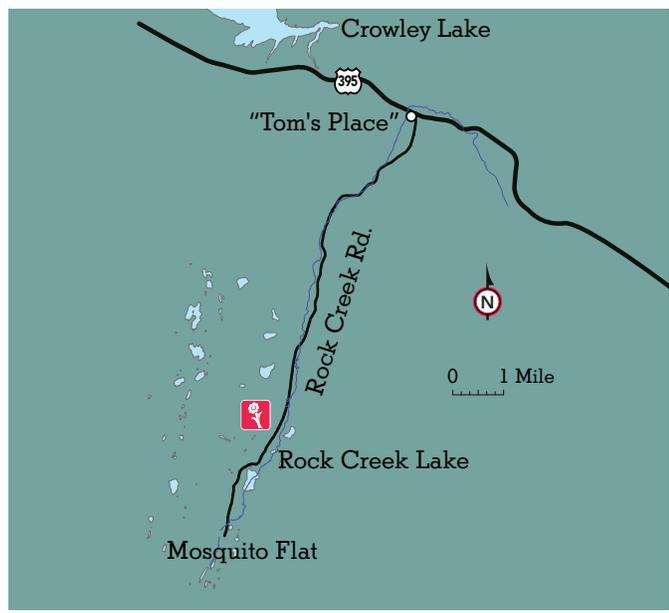
Photo: © Steve Matson



Photo: © Steve Matson



Photo: Mary DeDecker



Rock Creek

Details

Directions: From Highway 395 at Tom's Place, approximately 24 miles north of Bishop, drive up Rock Creek Road. Depending on the time of year, flowers may still be blooming just above Tom's Place, but you will want to continue to the end of the road at Mosquito Flat, with stops along the way. Be mindful of traffic if you're wildflower watching along the roadside.

Location: GPS coordinates (UTM NAD83) at junction of Highway 395 and upper Rock Creek Road:

Easting: 351866 **Northing:** 4158588

USGS Quad Map: Tom's Place

Elevation: Approximately 7,000 feet (2,150 meters) at Tom's Place, 10,200 feet (3,100 meters) at Mosquito Flat, and 11,000 feet (3,350 meters) in Little Lakes Valley, with higher peaks above

Habitat(s): Sagebrush-bitterbrush scrub, pinyon woodland, mountain mahogany scrub, Sierra juniper woodland, lodgepole pine forest, subalpine forest, aspen, streamside riparian communities, meadows

Landscape: Classic High Sierra canyon with glacially carved cirques beyond the trailhead. The road follows Rock Creek through the canyon, flanked by steep hillsides and rock walls

Facilities: Rock Creek Canyon has several campgrounds, two lodges, and a trailhead with restroom facilities at Mosquito Flat. Restaurant, lodge, and store at Tom's Place.

Description

Rock Creek Canyon exhibits some classic Sierra geology with granite cliffs and spires topping the slopes, particularly as you reach the upper end of the canyon. Rock Creek Road follows the river canyon for roughly nine miles, with several places to pull off along the way. With an elevation gain of more than 3,000 feet from Tom's Place to Mosquito Flat, you can experience a diverse array of plant communities in a very short time. There are also lovely displays of fireweed (*Chamerion angustifolium* ssp. *circumvagum*), Sierra rein-orchid (*Platanthera dilatata* var. *leucostachys*), Kelley's tiger lilies (*Lilium kelleyanum*), and other beauties where water runs along the road.

If you're prepared to walk a bit, the trail into Little Lakes Valley from Mosquito Flat at the end of the road is a relatively easy hike, rolling and sometimes level, especially compared to many of the other trails in the region. Little Lakes Valley is a large glacial cirque dotted with lakes and flower-filled meadows. It would be hard to imagine a more beautiful spot that takes so little effort to reach. Amble through the meadows and along the streams and enjoy the colorful collection of subalpine wildflowers.

To Each His Own...Habitat

As you turn off of Highway 395 onto Rock Creek Road, pinyon woodlands surround you, defined by the short, rounded, one-leaved pinyon (*Pinus monophylla*), one of the most common pine trees in the Eastern Sierra. Mountain mahogany scrub (*Cercocarpus ledifolius*) and open stands of magnificent Sierra juniper (*Juniperus grandis*) cover the slopes farther up the canyon. As you continue to climb, extensive Sierra lodgepole pine (*Pinus contorta* ssp. *murrayana*) communities dominate in the Pine Grove area.

If you choose to hike up into Little Lakes Valley beyond the road's end, you will enter the upper subalpine and alpine habitats, with whitebark pine (*Pinus albicaulis*), limber pine (*Pinus flexilis*), meadows, and vast talus slopes.

The wide range in elevation, different aspects, and resulting changes in temperature and precipitation affect which plant community occurs in any given area. Each of these communities supports a different combination of plants and animals adapted to the unique conditions found there. Some species, called generalists, live in many habitats, while others—specialists—are restricted to a narrower range of living conditions. Which group do you think humans belong to: generalist or specialist?

Flower Facts

It is not so much the flowers of the mountain mahogany (*Cercocarpus ledifolius*) that will catch your eye as it is the fruits. Called an achene (pronounced a-KEEN), the single-seeded fruit has a feathery plume attached at the top; indeed, "cercocarpus" means "tailed fruit." When the sun shines from behind these large shrubs, they almost appear to be glowing from the light filtering through the silky plumes. The effect can be quite stunning when viewed across an entire hillside. The plume curls as it dries on the plant, like a corkscrew, eventually aiding in planting the seed.



Photo: © Stephen Ingram

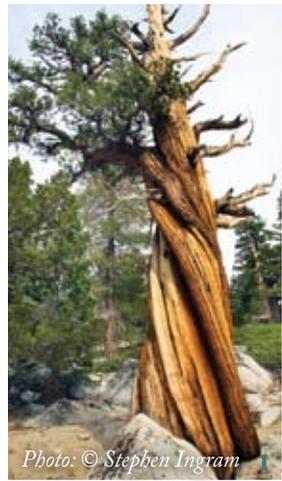


Photo: © Stephen Ingram



Photo: Mary DeDecker



Photo: © Stephen Ingram



Photo: Kathleen Nelson



Photo: © Stephen Ingram



Can You Find...?

1. *Juniperus grandis*,
Sierra juniper
2. *Lilium kelleyanum*,
Kelley's tiger lily
3. *Cercocarpus ledifolius*,
mountain mahogany fruit
4. *Aquilegia formosa*,
crimson columbine



Photo: © John Dittli

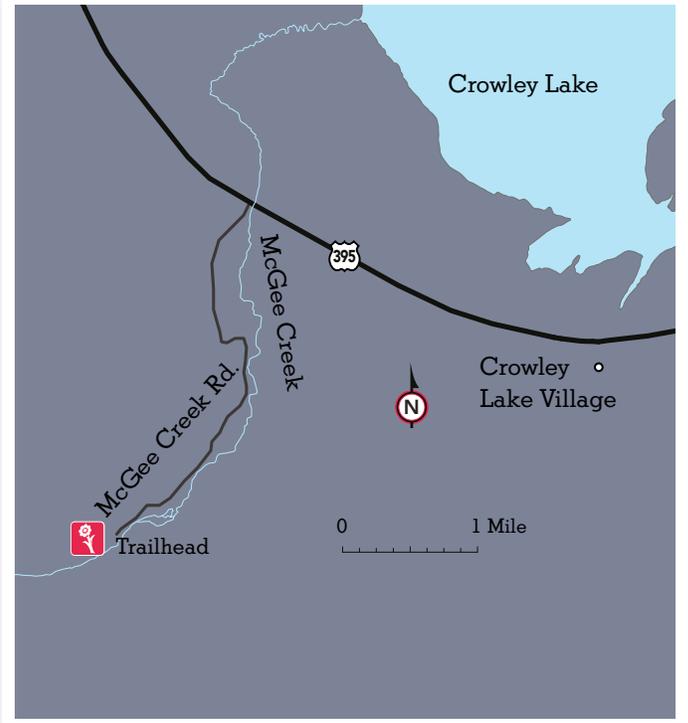
Fireweed (*Chamerion angustifolium* ssp. *circumvagum*):

This striking plant is topped by several long spikes of brilliant magenta flowers. The name "fireweed" comes from the ability of this plant to thrive following wildfires; imagine a large expanse of this beauty appearing on a recently blackened landscape!

Bull elephant's head (*Pedicularis groenlandica*): Once you find "bull elephant's head" and take a closer look at one of the many flowers arranged along the upright stem, you'll easily see how it got its name. Look for these delightful plants in meadows and other wet areas. You may also find the similar little elephant's head (*Pedicularis attolens*).



Photo: © John Dittli



McGee Creek

Details

Directions: Take the McGee Creek exit off of Highway 395, approximately six miles north of Tom's Place or eight miles south of the Highway 203 exit. Proceed to the parking lot at the end of the road. Use caution, as the road is narrow and winding.

Location: GPS coordinates (UTM NAD83) at McGee Creek trailhead: **Easting:** 340775 **Northing:** 4157531

USGS Quad Map: Convict Lake

Elevation: 7,800 feet (2,380 meters)

Habitat(s): Sagebrush-bitterbrush scrub, sagebrush scrub, riparian, aspen, talus

Landscape: Steep, glacially carved canyon with riparian corridor in the canyon bottom

Facilities: Paved parking lot, restrooms, and trailhead at road end, pack station and campground lower in the canyon

Description

As you approach the trailhead for McGee Pass, your eyes will be drawn to the rocky canyon slopes above. The steep slopes you see as you look up the canyon provide a stunning display of colorful rocks, with an artist's palette of reds and grays arrayed in stripes and swirls.

Geologists use the term “metasedimentary” to describe these rocks that dominate the landscapes of McGee and nearby Convict Creek canyons. The “sedimentary” part of the term refers to how these rocks were originally formed: sediments accumulated on the ocean floor over millions of years and were later compressed and cemented into solid rock. Later, as molten rock began to rise through the earth, some of the sedimentary rock was heated enough that the minerals and texture were changed, or metamorphosed, from their original form—hence the term “meta”sedimentary.

Of course, the wildflowers are also an important part of the artist's palette in the canyon. Amidst the slopes of gray-green sagebrush (*Artemisia tridentata*) and bitterbrush (*Purshia tridentata*) are splashes of yellow, red, purple, and white. At the peak of the blooming season, you can see paintbrush (*Castilleja* spp.), lupines (*Lupinus* spp.), milk-vetches (*Astragalus* spp.), hawksbeard (*Crepis* spp.), mule ears (*Wyethia mollis*), and more. While you're searching, don't miss the more subtle beauty of the native bunchgrasses. Though bright, showy colors are not their specialty, there is beauty in the form, texture, and muted greens of this ubiquitous group of plants.

A Different Shade of Green

In contrast with the overall gray-green cast of the sagebrush slopes are the stream- and spring-fed willow stands, black cottonwood riparian forest, and clusters of aspen scattered along the stream and the gentler canyon slopes. Watch for crimson columbine (*Aquilegia formosa*), great red paintbrush (*Castilleja miniata* ssp. *miniata*), and other moisture-loving plants in these areas.

The lush growth and cooler temperatures of these habitats attract many species of wildlife that use these areas for feeding, nesting, brood rearing, and rest. Feeding on the abundant insect life, birds will nest in cavities in the soft wood of the cottonwood and aspen trees. Maybe you can spot a deer bed, noticeable by the soft vegetation laid flat from recent use.

Flower Facts

Walking up the trail a short way, you will encounter a large green shrub with long, pointed green leaves. This is the blue elderberry (*Sambucus nigra* ssp. *caerulea*). In summer, small white flowers appear on the ends of short branchlets, called "rays." The rays support a large, flat-topped cluster of flowers. Later in the summer, these delicate flowers develop into blue-black berries. Though the berries themselves are edible, eating this plant is not recommended, as all other parts, including very small stems, can be poisonous under certain conditions.



Photo: © Larry Blakely



Photo: Kathleen Nelson



Photo: © Steve Matson

1. *Cordylanthus kingii* ssp. *helleri*, purple bird's-beak
2. *Castilleja miniata* ssp. *miniata*, great red paintbrush
3. *Phlox stansburyi*, Stansbury phlox
4. *Oenothera californica* ssp. *avita*, white desert primrose
5. *Ipomopsis aggregata*, scarlet gilia
6. *Sambucus nigra* ssp. *caerulea*, blue elderberry
7. *Prunus andersonii*, desert peach



Photo: Kathleen Nelson

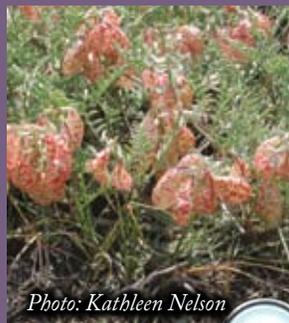


Photo: Kathleen Nelson

Can You Find...?

Woolly-pod locoweed (*Astragalus purshii*): This compact little mat has tiny leaflets covered with fine, cottony hairs, giving the entire plant a silvery gray look. True to its name, it develops fuzzy white seedpods resembling little cotton balls. You can also see lovely pink purple displays of this plant in May along Highway 395 near the Crowley Lake exit.

Whitney's locoweed (*Astragalus whitneyi*): In contrast to the woolly-pod locoweed, this species of locoweed is more sprawling and less hairy, with a greener appearance overall. The inflated pods, sometimes more than two inches long, are quite striking with their reddish-purple splotches.



Photo: Kathleen Nelson



Photo: Mary DeDecker



Photo: Mary DeDecker



Photo: © Steve Matson

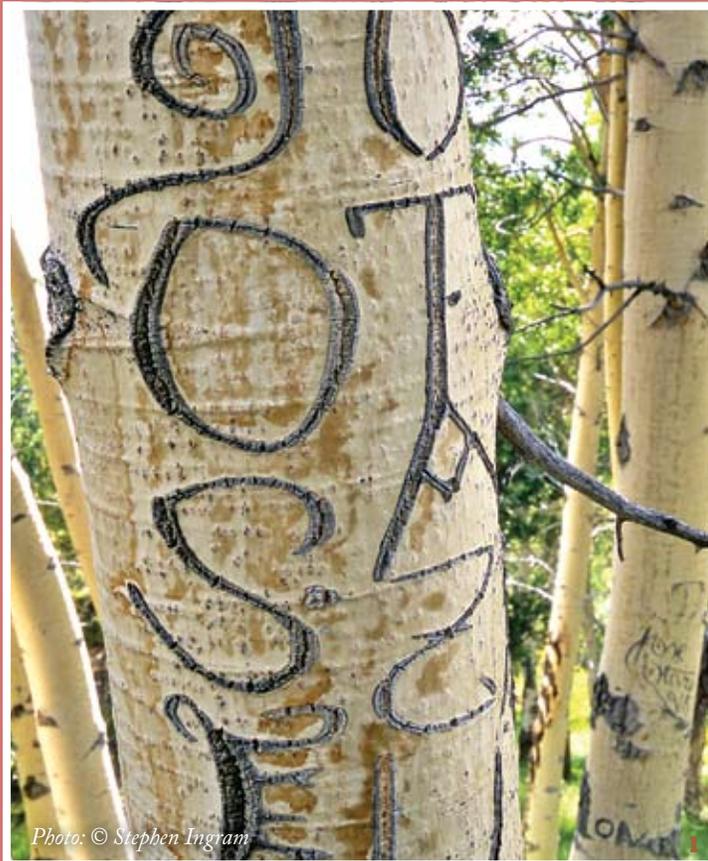


Photo: © Stephen Ingram

1. Aspen arborglyph
2. *Wyethia mollis*, mule ears
3. *Phacelia curvipes*, dwarf phacelia
4. *Phacelia bicolor* var. *bicolor*, sticky yellow-throats
5. *Crepis occidentalis*, western hawksbeard



Photo: Kathleen Nelson



Photo: © Larry Blakely



Photo: © Steve Matson



Photo: Kathleen Nelson



Parker Bench

Details

Directions: Approximately five miles south of Lee Vining, turn west from Highway 395 onto Highway 158, toward Grant Lake. Proceed for approximately 1.5 miles, then turn right onto the dirt road to Parker Lake. To reach the Parker Lake trailhead, follow the main dirt road for approximately three miles, not turning off onto intersecting roads along the way. If you want to stop sooner, just find a safe spot to park where the views suit you. Please keep your vehicle speed low to reduce dust and maintain control on the washboard surface.

Location: GPS coordinates (UTM NAD83) at junction of June Lake Loop (Highway 158) and Parker Lake Road:

Easting: 314501 **Northing:** 4194403

USGS Quad Map: June Lake

Elevation: 7,780 feet (2,370 meters) at Parker Lake trailhead

Habitat(s): Sagebrush-bitterbrush scrub, sagebrush scrub, riparian, aspen

Landscape: Towering peaks and glacial moraines on the western edge of the area, extending down to the volcanic craters and spacious views of the Mono Basin

Facilities: Dirt parking lot, trailhead at road end

Description

The Parker Bench area is situated between the beautiful June Lake Loop and the Mono Basin National Forest Scenic Area. One of the more stunning aspects of this area is the stark contrast between adjacent landscapes.

To the west is the Sierra Nevada, with its massive rocky peaks. The scattered aspen groves offer an ever-changing scene as they progress from summer green to autumn gold to silver-black against the winter snow. The creeks flowing out from the canyon mouths are lined with lodgepole and Jeffrey pine, aspen, and willows, tracing a line through the sagebrush slopes and valleys. They follow the base of the glacial moraines, piles of rubble left behind as the glaciers retreated thousands of years ago.

Turn to the east and you are faced with another land—some say more lunar in appearance. The light-colored Mono Craters stand tall above the sagebrush basin, lined up as if sinking into or rising out of the lake. Note the stark contrast of Paoha and Negit islands in Mono Lake: Paoha with its glaring-white alkali soils, Negit with its dark volcanic rock. Add the changing hues and gemlike quality of the lake itself, and it is a landscape unlike any other.

Living History

Take some time to wander through one of the many quaking aspen (*Populus tremuloides*) stands in the area. Feel the smooth white bark of the aspen trees. This smooth bark made an excellent carving surface for Basque sheepherders that herded in this area beginning in the late 1800s. The names, dates, poetry, and images of these “arborglyphs” help us understand the history of these people and their summer wanderings in the Eastern Sierra. This record is now disappearing, as aspen trees typically live only up to 100 years.

The Basque carvings were done carefully to prevent injury to the tree. Please resist the urge to carve; leave these beautiful trees as you find them and respect any Basque carvings you encounter.

Flower Facts

Two large flowering plants, similar in overall appearance, can be found here. In May and June, the large, yellow, daisy-like flowers of the mule ears (*Wyethia mollis*) and arrow-leaved balsamroot (*Balsamorhiza sagittata*) are impossible to miss. To distinguish



Photo: Kathleen Nelson



Photo: Kathleen Nelson

Can You Find...?

Wallflower (*Erysimum capitatum*): The showy clusters of yellow flowers will draw your eye to the wallflower. The genus name for this plant, *Erysimum*, stems from the Greek *eryomai*, meaning “to help or save,” for its reported medicinal properties. Native American tribes throughout the West used *Erysimum* as a poultice and for stomach cramps and headaches, among other ailments.

Sulphur-flower (*Eriogonum umbellatum*): This common low, rounded shrub is named for the bright-yellow- (or sulphur-colored) flowers. These flowers attract many pollinators, including bees, wasps, and flies. Once pollinated, flowers darken to a burnt orange, signaling to searching insects that the flower has already been visited. People made use of this plant as well: it was reportedly used as a treatment for colds and stomachaches by the Owens Valley Paiute.

between these two, compare the darker-green leaves of the arrow-leaved balsamroot—so-named for the sagittate, or arrowhead-shaped, leaf base—with the more gray leaves of the mule ears. The mule ears' leaves taper to a point at the base, with no sagittate lobes. Native Americans utilized the seeds of both of these plants for food, along with the thick taproot of the balsamroot.



Photo: Gary Milano



Photo: © John Dittli



Photo: Mary DeDecker



Photo: Mary DeDecker

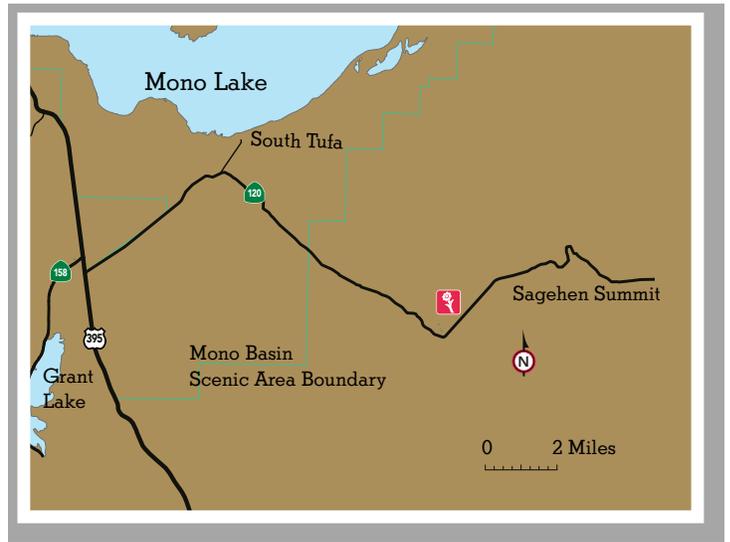
1. *Stipa* sp., native needlegrass
2. *Astragalus monoensis*, Mono milk-vetch
3. *Hulsea vestita* ssp. *vestita*, pumice hulsea
4. *Oenothera xylocarpa*, woody-fruited evening primrose
5. *Lupinus duranii* (Mono Lake lupine),
Mimulus nanus var. *mephiticus*, foul odor monkeyflower



Photo: Kathleen Nelson



Photo: © Stephen Ingram



East Mono Basin

Details

Directions: This site extends for approximately 11 miles along Highway 120 from the Mono Basin National Forest Scenic Area in the west to the Sagehen Summit area in the east. It can be reached by traveling east on Highway 120 from Highway 395 for approximately five miles to the turnoff to South Tufa, or by traveling west from Benton on Highway 120 for approximately 31 miles to Sagehen Summit. Use caution when traveling on secondary roads in this area, as vehicles can easily get stuck in the soft pumice soils.

Location: GPS coordinates (UTM NAD83) at the turnoff from Highway 120 to Mono Lake Tufa Reserve (South Tufa, Test Station Road): **Easting:** 322161 **Northing:** 4199590

USGS Quad Map: Lee Vining

Elevation: 6,600 feet (2,010 meters) at turnoff to South Tufa, 8,140 feet (2,480 meters) at Sagehen Summit.

Habitat(s): Pumice flats, Jeffrey pine forest, sagebrush-bitterbrush scrub

Landscape: Open pumice flats surrounded by sagebrush-bitterbrush hills and Jeffrey pine forest

Facilities: Restrooms nearby at South Tufa, interpretive kiosk at Mono Mills

Description

A thick layer of pumice underlies the vegetation of the eastern Mono Basin, a result of volcanic eruptions of the Inyo

and Mono craters from 700 to 10,000 years ago. The well-drained, light-colored soils present special challenges for the plant communities that grow here.

As you travel east on Highway 120, you will pass through part of the largest contiguous Jeffrey pine forest (*Pinus jeffreyi*) in the world. A fire burned through a portion of the area in 2002, blackening trees but resulting in a flush of native grass growth. The Indiana Summit Research Natural Area, just to the south of the highway, is set aside for the study and preservation of this Jeffrey pine ecosystem. Stop at the kiosk near Mono Mills for some interesting historical and ecological information about this particular area.

As you continue east toward Sagehen Summit, you will drop out of the Jeffrey pine forest and into the sagebrush-bitterbrush hills and stark pumice flats—one of the characteristic features of this area. Plant species specially adapted to this unique habitat color the light pumice soils with blues, pinks, and yellows.

Toward the eastern end of this viewing area, east of Sagehen Summit, are sweeping views of the Glass Mountains to the south and the Granite Mountain area to the northeast.

Special Place, Special Plants

There are two plant species that grow in the pumice flats of Mono County and nowhere else on Earth: the Mono milk-vetch and the Mono Lake lupine. What causes a species to occur in only one small area? These plants may be specially adapted to the unique environment of the pumice flats, or perhaps it's the lack of competition from other species that are unable to tolerate the harsh soils or intense sunlight.

Sometimes special management is needed to help ensure the species' persistence over the long term, but for many rare species, we know very little about their habitat requirements, life history, pollinators, or other basic information. Please help to protect these unique plants: keep vehicles on designated roads and walk gently when exploring these areas.



Photo: Kathleen Nelson

Can You Find...?

Pussypaws (*Calyptridium umbellatum*): Several green, spoon-shaped leaves radiate out from the central point of the plant, as do the flowering stems punctuated by the "pussypaws," clusters of tiny white-and-pink flowers. The flowering stems lie very flat when it's cold, but rise up well off the ground as the temperature rises—a sort of local thermometer.

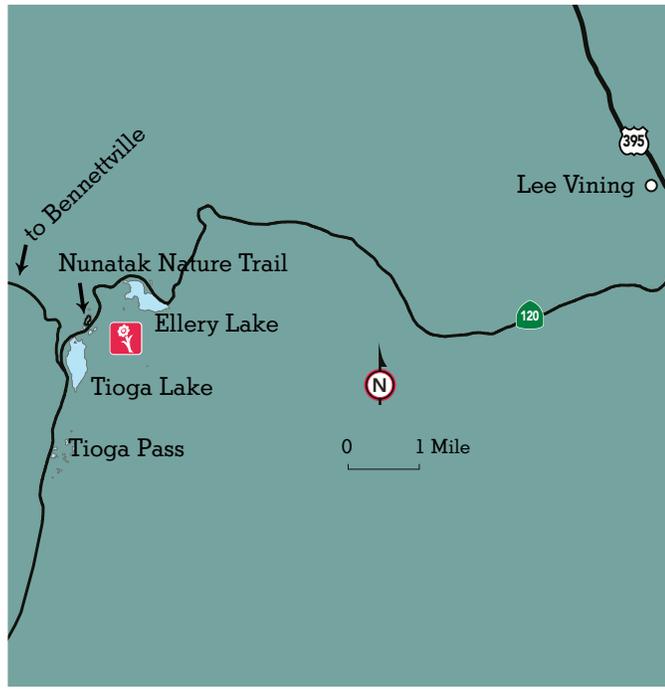
Flower Facts

The gray-green leaves of the Mono milk-vetch (*Astragalus monoensis*) are not easily seen against the backdrop of light-gray pumice. Even when this plant has its delicate pinkish-white blossoms, it may still be overlooked by the less observant. Look for the long branches, lined with tiny leaflets, that hug the ground surface as they grow out from the root crown of the plant.

Mono Lake lupine (*Lupinus duranii*) is slightly more abundant than the milk-vetch, found in more of the pumice habitats throughout the region. Though still mostly less than six inches tall, it is more easily spotted, having showy violet flowers arranged along an upright stem. If the conspicuous seedpods are developed, look for tiny holes bored into the fruit where ants or other insects have tunneled in for a snack.



Photo: © Stephen Ingram



Description

The Tioga Pass area is truly awe-inspiring, as every direction presents a spectacular view. There are several spots along the way to pull safely off the highway and take a stroll. The Nunatak Nature Trail, only a quarter-mile long, and the Bennettville Trail, approximately one mile to the old mining-town site, both offer opportunities to get out and stretch your legs, take in the views, and get a closer look at the subalpine flowers.

You can scramble among the rocks in search of the hardy plants that grow tucked into the shelter of crevices and cracks, using what little soil they can find. Rock cress (*Arabis* spp.), drabas or whitlow grass (*Draba* spp.), shieldleaf (*Streptanthus tortuosus*), and others often make their home in these seemingly inhospitable spots.

An entirely different suite of plants can be found in the meadows and along the lakeshores and streamsides. Notice the lush green vegetation here—a sign of the extra water available to plants in these sites. Willows (*Salix* spp.) and the grass-like sedges (*Carex* spp.) and rushes (*Juncus* spp.) dominate these wet areas.

Tioga Pass

Details

Directions: From Highway 395 just south of Lee Vining, head west on Highway 120 toward Tioga Pass. The site extends along Highway 120 from Ellery Lake to Tioga Pass and the surrounding area.

Location: GPS coordinates (UTM NAD83) at east end of Ellery Lake: **Easting:** 303777 **Northing:** 4201015

USGS Quad Map: Mount Dana, Tioga Pass

Elevation: 9,477 feet (2,888 meters) at Ellery Lake, 9,943 feet (3,030 meters) at Tioga Pass, neighboring peaks more than 12,000 feet (3,660 meters)

Habitat(s): Lodgepole pine forest, whitebark pine, aspen, riparian communities, subalpine meadows, alpine rocky habitats

Landscape: Expansive subalpine and alpine landscapes with lakes, tarns, and meadows flanked by towering peaks

Facilities: Along Tioga Pass Road (Highway 120) there are several campgrounds, the Nunatak Nature Trail, the Bennettville Trail, restroom facilities, and a lodge. A full range of facilities is available in Lee Vining

Life Near the Top

Learn the story of the nunataks, told on the signs along the Nunatak Nature Trail. The plant species you see here and elsewhere along upper Tioga Pass Road had to recolonize most of the area when the glaciers retreated and exposed the soil once again to sunlight. Wind, water, birds, and other wildlife helped to disperse seeds to distant locations, carrying them from nunataks or other non-glaciated refugia to newly exposed sites where the seeds could germinate and grow into adult plants.

Conditions are harsh here: shallow, nutrient-poor soils, a very short growing season, intense solar radiation, and strong, cold winds all contribute to the need for special adaptations to make it in this environment. Look for plants with a low growth form, evergreen leaves, or hairs or a waxy coating on the leaf surface. All of these characteristics help plants survive here.

Flower Facts

The heath family (*Ericaceae*) is well represented in high-elevation habitats. With help from fungi, plants in this family are able to utilize the scant nutrients in the acidic soils where they are typically found. Dwarf bilberry (*Vaccinium cespitosum*) carpets the ground, relying on its low growth form to survive here at almost 10,000 feet. Labrador tea (*Rhododendron columbianum*), a medium-size shrub often found adjacent to water, has a different strategy. Study the leaves to discover some of this plant's survival tricks.

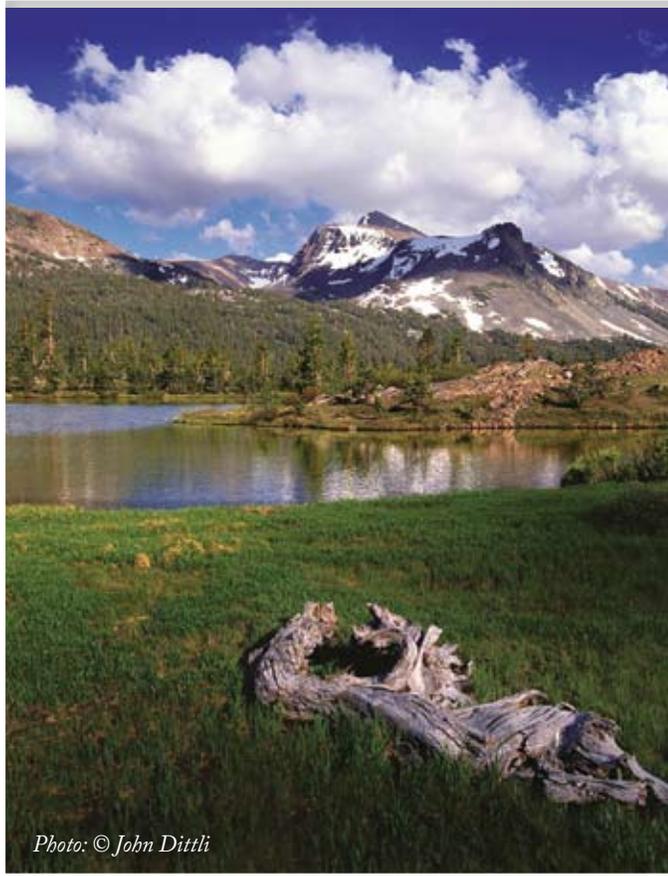


Photo: © John Dittli



Photo: Kathleen Nelson



Photo: Kathleen Nelson

Can You Find...?

Sierra gentian (*Gentianopsis holopetala*):

The Sierra gentian's purplish, four-petaled flowers brighten high-elevation meadows late into the summer, continuing to bloom as late as September. Other equally striking Eastern Sierra members of this family include hiker's gentian (*Gentianopsis simplex*), alpine gentian (*Gentiana newberryi*), felwort (*Gentiana amarella* ssp. *acuta*), Dane's dwarf gentian (*Comastoma tenellum*), and Inyo gentian (*Frasera puberulenta*).

Whorled penstemon (*Penstemon heterodoxus*):

The sticky hairs covering the blue-purple flowers, and the arrangement of the flowers in whorls, help to distinguish this penstemon from other similar penstemons that can be found in the area. Look for this species in the meadow area along the Nunatak Nature Trail.



Photo: Mary DeDecker

1



Photo: Kathleen Nelson

2

1. *Penstemon newberryi* var. *newberryi*, mountain pride
2. *Rhododendron columbianum*, Labrador tea
3. *Lupinus lepidus* var. *ramosus*, crowded lupine
4. *Phyllodoce breweri*, red heather
5. *Cassiope mertensiana*, white heather



Photo: © John Dittli

3

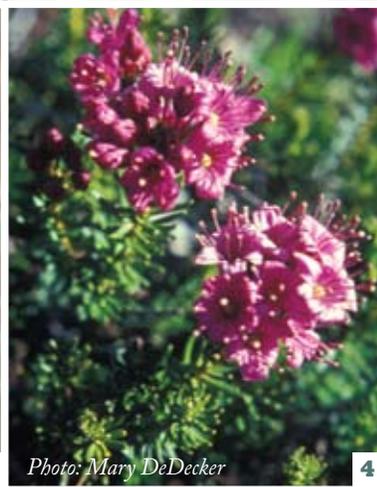


Photo: Mary DeDecker

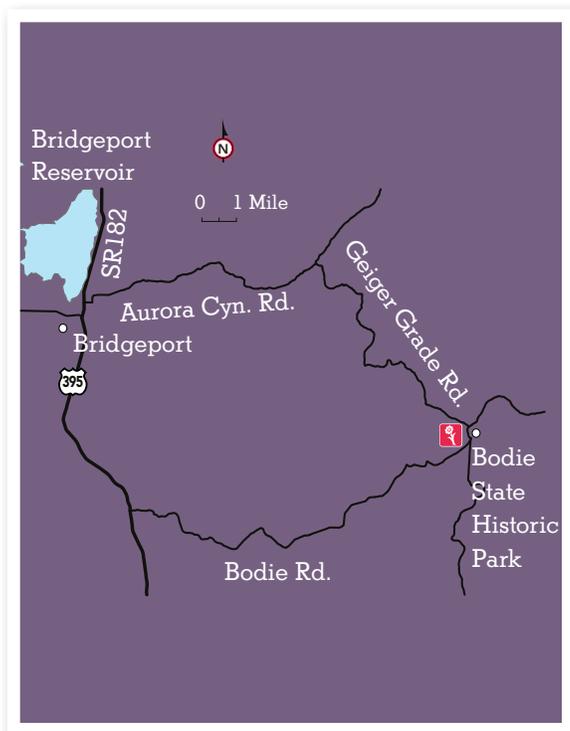
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Photo: © Stephen Ingram

5

Bodie Hills



Details

Directions: From Highway 395 18 miles north of Lee Vining or 7 miles south of Bridgeport, take the Bodie Road (Highway 270) east for 13 miles toward Bodie State Historic Park. After 10 miles, the road changes from pavement to maintained dirt. Stop to explore anywhere along this road where you find an appropriate turnout. For further exploration in the Bodie Hills, try Geiger Grade Road, which heads north out of Bodie State Historic Park. Geiger Grade Road can be rough and may be blocked by snow drifts well into the summer season, so high-clearance vehicles are recommended.

Location: GPS coordinates (UTM NAD83) for turnoff to Bodie State Historic Park from Highway 395:

Easting: 307743 **Northing:** 4227547

USGS Quad Map: Bridgeport

Elevation: 6,000 to 9,500 feet (1,800 to 2,850 meters)

Habitat(s): Great Basin sagebrush-steppe, pinyon-juniper woodland, aspen, riparian

Landscape: Rolling sagebrush- and pinyon-covered hills with two prominent peaks (Potato Peak and Bodie Mountain)

Facilities: Restroom, parking at Bodie State Historic Park, full facilities in Bridgeport

Description

The location of the Bodie Hills on the western edge of the Great Basin and eastern edge of the Sierra Nevada drives the occurrence and position on the landscape of the 14 different plant communities that make up this unique area. The Miocene and Pliocene epochs (from about 28 million to 2 million years ago) were when most of the Bodie Hills topography was formed. Ancient cinder cones such as Beauty Peak in the northeastern part of the Bodie Hills reflect this volcanic period. The suite of different soils—from rocky, dwarf sagebrush-dominated sites to loamy basins that support Great Basin wildrye (*Elymus cinereus*)—forms the matrix of plant diversity in the Bodie Hills. In spring and early summer, the mountain sagebrush and dwarf sagebrush plant communities erupt with white and blue stands of lupine (*Lupinus argenteus*), indigo-colored Anderson's larkspur (*Delphinium andersonii*), yellow hawksbeard (*Crepis* spp.), and carpets of Coville's phlox (*Phlox condensata*).

As one traverses the Bodie Hills, the landscape unfolds with subtle textural and color changes of gently rolling sagebrush-covered hills, meadows, aspen groves, and conifer stands (pinyon, juniper, limber, and lodgepole pine). These diverse plant communities in turn support a rich fauna, including a suite of sagebrush-dependent species such as the greater sage grouse, pronghorn antelope, pygmy rabbit, and sage sparrow. Rare



Photo: © Steve Matson



Photo: Kathleen Nelson



Can You Find...?

Pincushion penstemon (*Penstemon proceres* var. *formosus*): Look for clusters of short, flowering stems rising above a leafy mat. The blue-purple flowers with a white throat are whorled around the stems.

Coyote mint (*Monardella odoratissima*): A common resident of the Eastern Sierra, coyote mint is easily recognized by its strong odor and plentiful clusters of lavender flowers. Try rubbing some leaves between your fingers to smell the distinctive aroma.

plants are tucked away in these hills as well and range from the tiny yellow Mono phacelia (*Phacelia monoensis*) to the Masonic mountain jewelflower (*Streptanthus oliganthus*), which inhabits the granitic outcrops in the northwest portion of the Bodie Hills.

Flower Facts

In springtime, watch for the showy white to pink flowers of the bitterroot (*Lewisia rediviva*). These lovely blooms appear to rest on the ground surface, hiding the tiny leaves and short stem below. Collected during the Lewis and Clark expedition and later named for Meriwether Lewis, bitterroot was already well known to Native American people. The roots, able to store water and thus withstand periods of drought, were an important food source for many tribes throughout the West.

Plants and Climate

What's a peatland doing in the Bodie Hills? The Bodie Hills peatland, or fen, was discovered by Tim Messick in 1981 during fieldwork for his master's thesis on the flora of the Bodie Hills. The fen is located in Cinnabar Canyon, which is close to several hydrothermally active areas. What distinguishes this site from other "wet meadow" sites in the Bodie Hills are two unusual plants: *Sphagnum fimbriatum*, or peat moss, and *Kalmia polifolia*, or alpine laurel—a plant more common in the high-alpine meadows of the Sierra Nevada. Peatlands are unusual in North America and especially rare in California. During the repeated glaciations of the Pleistocene epoch (2.5 million to 12,000 years ago), alternating introductions and extinctions of plant species with various geographic affinities occurred. The existence of both the peat moss and alpine laurel, hanging on since the Pleistocene, represent such shifts in plant composition. Some plant species groups migrated along well-defined paths into or near the Bodie Hills, and it is likely that the Sierra Nevada served as the principal high-elevation migration route.



Photo: Anne Halford



Photo: Anne Halford



Photo: © Steve Matson



Photo: Anne Halford

1. *Townsendia condensata*, cushion Townsend daisy
2. *Stenotus acaulis*, limestone aster
3. *Phoenicautis cheiranthoides*, dagger pod
4. *Lewisia rediviva*, bitterroot
5. *Phlox condensata*, Coville's phlox



Photo: © Stephen Ingram

Plant List

Taxonomy and nomenclature in this species list are based on the *Jepson Manual Online* as of February 2011. Changes in taxonomy and nomenclature are ongoing. Some site lists are more complete than others; all of them should be considered a work in progress. Species not native to California are designated with an asterisk (*). Please visit the Inyo National Forest and Bureau of Land Management Bishop Resource Area websites for periodic updates.

Scientific Name	Common Name	Fossil Falls	Alabama Hills	Mazowka Canyon	Div. & Oak Creeks	White Mountains	Fish Slough	Rock Creek	McGee Creek	Parker Bench	East Mono Basin	Togo Pass	Bozette Hills
ADOXACEAE	Muskroot												
<i>Sambucus nigra</i> ssp. <i>caerulea</i>	blue elderberry			✓				✓					✓
AGAVACEAE	Century Plant												
<i>Leucostichum montanum</i>	sand lily												✓
ALISMATACEAE	Water-plantain												
<i>Sagittaria cuneata</i>	arrowleaf arrowhead												✓
ALLIACEAE	Onion												
<i>Allium amplexans</i>	paper onion												✓
<i>Allium anceps</i>	huckleaf onion												✓
<i>Allium atrorubens</i> var. <i>atrorubens</i>	lily onion												✓
<i>Allium atrorubens</i> var. <i>crispulum</i>	lily onion		✓		✓								
<i>Allium bisceptrum</i>	aspen onion									✓			✓
<i>Allium fimbriatum</i> var. <i>montanense</i>	fringed onion	✓											
<i>Allium parvum</i>	dwaf onion												✓
<i>Allium validum</i>	swamp onion						✓						✓
<i>Allium</i> spp.	wild onion							✓					
AMARANTHACEAE	Amaranth												
<i>Amaranthus biiboides</i>	prostrate pigweed												✓
<i>Nitrophala occidentalis</i>	alkali pink	✓	✓			✓							
ANACARDIACEAE	Sumac												
<i>Toxicodendron diversilobum</i>	Pacific poison-oak		✓										
APIACEAE	Carrot												
<i>Angelica breweri</i>	Brewer's angelica						✓						
<i>Angelica lineariloba</i>	soda straw			✓		✓	✓	✓		✓			✓
<i>Berula erecta</i>	berula	✓				✓							

Scientific Name	Common Name	Fossil Falls	Alabama Hills	Mazowka Canyon	Div. & Oak Creeks	White Mountains	Fish Slough	Rock Creek	McGee Creek	Parker Bench	East Mono Basin	Togo Pass	Bozette Hills
<i>Cicuta douglasii</i>	poison parsnip	✓					✓						✓
<i>Cymopterus cinerarius</i>	alpine cymopterus										✓		
<i>Cymopterus lerebinthus</i> var. <i>petraeus</i>	lerebinth pteryta							✓					✓
<i>Ligusticum grayi</i>	Gray's lovage												✓
<i>Lomatium dissectum</i> var. <i>multifidum</i>	fern-leaf lomatium							✓	✓	✓			✓
<i>Lomatium foeniculaceum</i> ssp. <i>fimbriatum</i>	desert biscuit root					✓							
<i>Lomatium mohavense</i>	Mojave parsley	✓					✓						
<i>Lomatium nevadense</i> var. <i>nevadense</i>	Nevada parsley												✓
<i>Lomatium rigidum</i>	prickly parsley	✓											
<i>Lomatium torreyi</i>	Sierra biscuitroot							✓					
<i>Osmorhiza occidentalis</i>	western sweet-cicely								✓				✓
<i>Perideridia bolanderi</i> ssp. <i>bolanderi</i>	Bolander's yampah										✓	✓	
<i>Perideridia lemmonii</i>	Lemmon's yampah												✓
<i>Perideridia parishii</i> ssp. <i>laetifolia</i>	Parish's yampah							✓					✓
<i>Podistera nevadensis</i>	Sierra podistera												✓
<i>Sphaenocladium capitellatum</i>	ranger's buttons							✓	✓		✓	✓	✓
APOCYNACEAE	Degbane												
<i>Apocynum androsaemifolium</i>	spreading dogbane							✓					✓
<i>Apocynum cannabinum</i>	hemp		✓				✓						
<i>Asclepias cryptoceras</i>	Humboldt milkweed												✓
<i>Asclepias erosa</i>	desert milkweed	✓											
<i>Asclepias fascicularis</i>	narrow-leaf milkweed	✓	✓				✓						
<i>Asclepias speciosa</i>	broad-leaf milkweed		✓				✓						
<i>Nerium oleander</i>	oleander		✓										
ARACEAE	Arum												
<i>Lemna minor</i>	common duckweed						✓						✓
<i>Lemna minuta</i>	minute duckweed		✓				✓						
<i>Lemna trisulca</i>	chain duckweed						✓						
<i>Lemna</i> spp.	duckweed		✓										
<i>Spondelia polytriza</i>	common duckmeat						✓						
ASPARAGACEAE	Asparagus												
* <i>Asparagus officinalis</i> ssp. <i>officinalis</i>	garden asparagus		✓										
ASTERACEAE	Sunflower												
<i>Acamptopappus shockleyi</i>	Shockley goldenhead					✓							
<i>Acamptopappus sphaerocephalus</i> var. <i>hartwegii</i>	goldenhead		✓										
<i>Achillea millefolium</i>	yarrow							✓				✓	✓
<i>Ageratina occidentalis</i>	western eupatorium							✓				✓	✓
<i>Agoseris aurantiaca</i>	orange agoseris										✓		
<i>Agoseris monticola</i>	pale agoseris							✓			✓	✓	✓
<i>Agoseris parviflora</i>	tulse agoseris												✓
<i>Agoseris retrorsa</i>	spearleaf agoseris								✓	✓			
<i>Agoseris X elata</i>	tall agoseris							✓					
<i>Ambrosia acanthocarpa</i>	sand-bur	✓		✓		✓					✓		
<i>Ambrosia dumosa</i>	burro-bush	✓	✓										

Scientific Name	Common Name	Fossil Falls	Alabama Hills	Mazourka Canyon	Dir. & Oak Creeks	White Mountains	Fish Slough	Rock Creek	McGee Creek	Parker Bench	East Mono Basin	Triga Pass	Bodie Hills
<i>Ambrosia salicifolia</i>	cheese-bush	✓	✓	✓									
<i>Ambrosia dumosa</i> X <i>Ambrosia salicifolia</i>	cheese-burro (gouty hybrid)		✓										
<i>Anisocoma acutis</i>	scafe bud	✓	✓	✓	✓		✓						
<i>Antennaria corymbosa</i>	flat-top pussytoes							✓					✓
<i>Antennaria dimorpha</i>	dwarf everlasting flower												✓
<i>Antennaria media</i>	Rocky Mountain pussytoes							✓					
<i>Antennaria rosea</i>	rosy everlasting				✓		✓				✓	✓	
<i>Arnica cernua</i>	broom aster	✓				✓							
<i>Arnica chamissonis</i> ssp. <i>fulva</i>	meadow arnica						✓		✓	✓	✓	✓	
<i>Arnica lanceolata</i> ssp. <i>prima</i>	streambank arnica						✓				✓		
<i>Arnica montana</i>	soft arnica						✓				✓		
<i>Arnica ovata</i>	sticky leaf arnica						✓						
<i>Arnica parryi</i>	Sonne's arnica						✓	✓					
<i>Arnica serotina</i>	twain arnica									✓	✓	✓	
<i>Artemisia arbuscula</i>	dwarf sagebrush				✓							✓	
<i>Artemisia cana</i> ssp. <i>bolanderi</i>	silver sagebrush						✓			✓	✓	✓	
<i>Artemisia douglasiana</i>	Douglas mugwort							✓				✓	
<i>Artemisia dracunculoides</i>	taragon	✓											
<i>Artemisia ludoviciana</i>	western mugwort						✓		✓		✓		
<i>Artemisia ludoviciana</i> ssp. <i>albida</i>	white mugwort	✓											
<i>Artemisia ludoviciana</i> ssp. <i>incompta</i>	western mugwort	✓											✓
<i>Artemisia ludoviciana</i> ssp. <i>ludoviciana</i>	western mugwort	✓											
<i>Artemisia norvegica</i> ssp. <i>saxatilis</i>	boreal sagebrush						✓						
<i>Artemisia nova</i>	broom sagebrush				✓								
<i>Artemisia rothrockii</i>	timberline sagebrush				✓								
<i>Artemisia spiciformis</i>	snowfield sagebrush											✓	
<i>Artemisia spinescens</i>	bud sage	✓	✓			✓					✓	✓	
<i>Artemisia tridentata</i>	big sagebrush	✓	✓	✓			✓	✓	✓	✓	✓	✓	
<i>Artemisia tridentata</i> ssp. <i>tridentata</i>	basin big sagebrush	✓			✓	✓						✓	
<i>Artemisia tridentata</i> ssp. <i>vaseyana</i>	mountain sagebrush				✓							✓	
<i>Artemisia tridentata</i> ssp. <i>wyomingensis</i>	Wyoming sagebrush											✓	
<i>Balsamorhiza hirsuta</i>	hairy balsam root											✓	
<i>Balsamorhiza sagittata</i>	arrow-leaved balsamroot							✓	✓			✓	
<i>Bidens frondosa</i>	devil's beggar-tick						✓						
<i>Briickellia atracyloides</i> var. <i>arguta</i>	pungent brickellbush	✓	✓										
<i>Briickellia longifolia</i> var. <i>multiflora</i>	inyo brickellbush	✓											
<i>Briickellia microphylla</i>	sweet brickellia	✓				✓						✓	
<i>Briickellia oblongifolia</i> var. <i>linifolia</i>	pinon brickellia									✓		✓	
<i>Calycosotis parryi</i>	yellow tack-stem	✓	✓	✓			✓						
<i>Calycosotis wrightii</i>	white tack-stem			✓									
<i>Chaenactis carphodina</i> var. <i>carphodina</i>	pebble pincushion			✓									
<i>Chaenactis douglasii</i>	Douglas dustymaiden						✓	✓					
<i>Chaenactis douglasii</i> var. <i>douglasii</i>	Douglas dustymaiden				✓							✓	
<i>Chaenactis fremontii</i>	Fremont pincushion	✓	✓	✓		✓							
<i>Chaenactis macrantha</i>	large-flowered pincushion	✓											
<i>Chaenactis nevadensis</i>	Nevada dustymaiden						✓					✓	

Scientific Name	Common Name	Fossil Falls	Alabama Hills	Mazourka Canyon	Dir. & Oak Creeks	White Mountains	Fish Slough	Rock Creek	McGee Creek	Parker Bench	East Mono Basin	Triga Pass	Bodie Hills
<i>Chaenactis stevioides</i>	gray-leaved pincushion						✓			✓			✓
<i>Chaenactis xantiana</i>	xantheus pincushion		✓										
<i>Chaetadelpba wheeleri</i>	dune broom						✓						
<i>Chaetopappa ericoides</i>	heath daisy					✓							
<i>Chrysothamnus viscidiflorus</i>	yellow rabbitbrush			✓	✓	✓	✓	✓	✓	✓	✓		
<i>Chrysothamnus viscidiflorus</i> ssp. <i>puberulus</i>	pinon rabbitbrush	✓											✓
<i>Chrysothamnus viscidiflorus</i> ssp. <i>viscidiflorus</i>	cutty-leaved rabbitbrush				✓								✓
* <i>Cichorium intybus</i>	choy	✓											
<i>Cirsium arizonicum</i> var. <i>arizonicum</i>	Arizona thistle				✓								
* <i>Cirsium arvense</i>	Canada thistle					✓							
<i>Cirsium cymosum</i> var. <i>canoviens</i>	graygreen thistle						✓						✓
<i>Cirsium mohavense</i>	desert thistle	✓	✓				✓						
<i>Cirsium occidentale</i> var. <i>venustum</i>	cobweb thistle					✓							
<i>Cirsium scariosum</i>	Drummond's thistle							✓				✓	✓
* <i>Cirsium vulgare</i>	bull thistle				✓	✓							
<i>Crepis acuminata</i>	spertip hawkbeard							✓					✓
<i>Crepis intermedia</i>	limestone hawkbeard					✓			✓	✓			
<i>Crepis modocensis</i>	Modoc hawkbeard												✓
<i>Crepis occidentalis</i>	western hawkbeard									✓			✓
<i>Crepis runcinata</i> ssp. <i>hullii</i>	meadow hawkbeard						✓						
<i>Crepis</i> spp.	hawkbeard				✓								
<i>Dieteria canescens</i>	sticky aster			✓	✓		✓	✓	✓				
<i>Dieteria canescens</i> var. <i>canescens</i>	sticky aster		✓										
<i>Dieteria canescens</i> var. <i>shastensis</i>	Shasta tansyaster												✓
<i>Encelia actoni</i>	bush sunflower	✓											
<i>Encelia virginensis</i>	Virgin river brittlebush		✓										
<i>Encimeria altida</i>	white-flowered rabbitbrush					✓							
<i>Encimeria bloomeri</i>	rabbitbrush									✓			
<i>Encimeria cooperi</i> var. <i>cooperi</i>	Cooper's goldenbush	✓	✓										
<i>Encimeria cuneata</i> var. <i>cuneata</i>	cliff goldenbush	✓											
<i>Encimeria discoidea</i>	whitestem goldenbush					✓		✓					✓
<i>Encimeria linearifolia</i>	showy goldenbush					✓							
<i>Encimeria nauseosa</i>	rubber rabbitbrush	✓	✓	✓	✓			✓	✓	✓			
<i>Encimeria nauseosa</i> var. <i>hololeuca</i>	whiteleaf rabbitbrush												✓
<i>Encimeria nauseosa</i> var. <i>mohavensis</i>	Mojave rabbitbrush						✓						
<i>Encimeria nauseosa</i> var. <i>oreophila</i>	Nevada rabbitbrush												✓
<i>Encimeria parryi</i>	Parry's rabbitbrush									✓			✓
<i>Encimeria parryi</i> var. <i>aspera</i>	Parry's rabbitbrush				✓					✓			
<i>Encimeria parryi</i> var. <i>vulcanica</i>	Parry's rabbitbrush									✓			
<i>Encimeria suffruticosa</i>	singlehead goldenbush				✓		✓						✓
<i>Encimeria teretifolia</i>	green rabbitbrush	✓	✓	✓	✓	✓							
<i>Engeron algidus</i>	stalked fleabane							✓				✓	
<i>Engeron aptanactis</i>	gold buttons												✓

Scientific Name	Common Name	Fossil Falls	Alabama Hills	Mazouzia Canyon	Div & Oak Creeks	White Mountains	Fish Slough	Rock Creek	Middle Creek	Parlier Beach	East Mono Basin	Tringa Pass	Bodie Hills
<i>Erigeron argentatus</i>	Nevada erigeron				✓								
<i>Erigeron Boomeri</i> var. <i>Boomeri</i>	scabland fleabane								✓				✓
<i>Erigeron breweri</i>	Brewer's fleabane			✓				✓					
<i>Erigeron breweri</i> var. <i>porphyreus</i>	boulder daisy	✓											✓
<i>Erigeron canadensis</i>	horseweed	✓		✓		✓							✓
<i>Erigeron dokeyi</i> var. <i>pinifolia</i>	Clokey daisy				✓								✓
<i>Erigeron compactus</i>	cushion daisy				✓								
<i>Erigeron compositus</i>	cut-leaf daisy							✓					✓
<i>Erigeron conicus</i> var. <i>conicus</i>	Nevada fleabane	✓											
<i>Erigeron coultteri</i>	Coulter's daisy							✓					✓
<i>Erigeron divergens</i>	paslet daisy								✓				
<i>Erigeron Eatonii</i>	Eaton's daisy												✓
<i>Erigeron glaucus</i>	wandering daisy												✓
<i>Erigeron glaucus</i> var. <i>glaucus</i>	wandering daisy												✓
<i>Erigeron leucophyllus</i>	wet meadow daisy					✓	✓						✓
<i>Erigeron lene</i>	slender fleabane							✓					✓
<i>Eriophyllum lanatum</i>	woolly sunflower									✓			
<i>Eriophyllum lanatum</i> var. <i>integrifolium</i>	woolly sunflower												✓
<i>Eriophyllum pingetii</i>	bad eriophyllum	✓	✓	✓									
<i>Eriophyllum wallacei</i>	Easter bonnets	✓	✓	✓	✓								
<i>Eucephalus breweri</i>	Brewer's aster												✓
<i>Euphosyne nevadensis</i>	Nevada poverty weed					✓							
<i>Eurybia integrifolia</i>	thickstem aster												✓
<i>Euthamia occidentalis</i>	western goldenrod		✓										
<i>Glyptolepis marginata</i>	holly dandelion	✓	✓			✓							
<i>Gnaphalium palustre</i>	cutweed						✓						✓
<i>Gutierrezia microcephala</i>	yellow-green matchweed	✓	✓										
<i>Helianthus annuus</i>	common sunflower	✓				✓							
<i>Helianthus nuttallii</i> ssp. <i>nuttallii</i>	Nuttall sunflower	✓				✓							
<i>Hieracium horridum</i>	shaggy hawkweed							✓					✓
<i>Hieracium triste</i>	slender hawkweed							✓					✓
<i>Hulsea algida</i>	alpine gold							✓					✓
<i>Hulsea vestita</i> ssp. <i>vestita</i>	pumice hulsea									✓			
<i>Hymenopappus nitidus</i> var. <i>nanus</i>	inyo cutleaf				✓								
<i>Hymenocys hoopesii</i>	owl's claws												✓
<i>Hymenocys lemmonii</i>	Lemmon's rubberweed				✓								
<i>Ionactis alpina</i>	lava aster												✓
<i>Iva axillaris</i>	poverty weed	✓				✓							✓
* <i>Lactuca scariola</i>	wild lettuce					✓	✓						
<i>Lactuca tatarica</i> ssp. <i>pulchella</i>	blue lettuce												✓
<i>Layia glandulosa</i>	white lily-tips	✓	✓	✓	✓	✓							✓
<i>Lepidosyne bigelovii</i>	Bigelow coreopsis	✓											
<i>Lesingia glandulifera</i> var. <i>glandulifera</i>	vinegar-weed	✓				✓							
<i>Logfia flagrinoides</i>	California filago					✓							
<i>Mada gracilis</i>	slender tarweed												✓
<i>Matacothrix californica</i>	California desert dandelion	✓					✓						
<i>Matacothrix coultteri</i>	snakes-head	✓	✓										
<i>Matacothrix glabrata</i>	desert dandelion	✓	✓	✓	✓	✓							
<i>Matacothrix sonchoides</i>	yellow saucers					✓							✓
<i>Monoptilon bellioides</i>	desert star	✓											

Scientific Name	Common Name	Fossil Falls	Alabama Hills	Mazouzia Canyon	Div & Oak Creeks	White Mountains	Fish Slough	Rock Creek	Middle Creek	Parlier Beach	East Mono Basin	Tringa Pass	Bodie Hills
<i>Nothocalais alpestris</i>	alpine lake false dandelion												✓
<i>Oreoclema alpinum</i> var. <i>andersonii</i>	alpine aster												✓
<i>Packera cana</i>	woolly butterweed							✓					✓
<i>Packera multiflora</i>	basin senecio				✓								✓
<i>Packera pauciflora</i>	streambank butterweed							✓					✓
<i>Packera pseudurea</i> var. <i>pseudurea</i>	falsegold groundsel							✓					
<i>Packera subnuda</i> var. <i>subnuda</i>	Rocky Mountain butterweed							✓					
<i>Pericome caudata</i>	tailed pericome				✓								
<i>Pentacanthus spinosus</i>	wool cache plant				✓		✓	✓	✓				✓
<i>Petalioles annua</i>	fan-leaf	✓	✓			✓							
<i>Pseudognaphalium</i> spp.	cutweed					✓							
<i>Pyrocoma apargioides</i>	golden aster							✓			✓	✓	✓
<i>Pyrocoma lanceolata</i> var. <i>lanceolata</i>	lanceleaf goldenweed										✓		
<i>Pyrocoma racemosa</i>	clustered goldenweed	✓	✓			✓							✓
<i>Rafinesquia neomexicana</i>	white chicory	✓	✓	✓									
<i>Raillardella scaposa</i>	green-leaf raillardella							✓					✓
<i>Senecio flaccidus</i> var. <i>monensis</i>	smooth threadleaf ragwort		✓								✓		
<i>Senecio hydrophilus</i>	water ragwort												✓
<i>Senecio integerrimus</i>	single-stemmed groundsel							✓					
<i>Senecio integerrimus</i> var. <i>exaltatus</i>	single-stemmed groundsel											✓	✓
<i>Senecio scorzonella</i>	Sierra ragwort							✓					✓
<i>Senecio setra</i> var. <i>setra</i>	tall ragwort												✓
<i>Senecio spartoides</i>	becom-like ragwort											✓	
<i>Senecio triangularis</i>	arrow-leaf senecio							✓	✓				✓
<i>Solidago multiradiata</i>	alpine goldenrod							✓					✓
<i>Solidago spectabilis</i>	basin goldenrod		✓				✓						✓
<i>Solidago velutina</i> ssp. <i>californica</i>	California goldenrod		✓										
* <i>Senecio asper</i> ssp. <i>asper</i>	prickly sow-thistle		✓				✓						
* <i>Senecio oleraceus</i>	prickly sow-thistle						✓						
<i>Sphaeromeria cana</i>	mountain tansy							✓					
<i>Stenolus acutus</i>	limestone aster					✓							✓
<i>Stephanomeria exigua</i> ssp. <i>coronaria</i>	whitetime woodfuffe												✓
<i>Stephanomeria exigua</i> ssp. <i>exigua</i>	annual milba												
<i>Stephanomeria parryi</i>	Parry rock-pink	✓		✓									
<i>Stephanomeria pauciflora</i>	desert milk-aster	✓	✓										
<i>Stephanomeria tenifolia</i>	narrow-leaved milk-aster						✓	✓				✓	
<i>Styrodine psilocarphoides</i>	bare-hug neststraw			✓									
<i>Symphoricarum ascendens</i>	long-leaved aster								✓	✓			✓
<i>Symphoricarum campestris</i>	western meadow aster												✓
<i>Symphoricarum eatonii</i>	Eaton aster							✓					✓
<i>Symphoricarum frondosum</i>	white-headed aster							✓					
<i>Symphoricarum lanceolatum</i> var. <i>hesperum</i>	white-petiole aster		✓					✓					
<i>Symphoricarum spatulatum</i>	western mountain aster												✓

Scientific Name	Common Name	Fossil Falls	Alabama Hills	Mazourka Canyon	Dix & Oak Creeks	White Mountains	Fish Slough	Rock Creek	McGee Creek	Parker Bench	East Mono Basin	Trage Pass	Booby Hills
<i>Symptlocappus fremontii</i>	Fremont gold	✓											
<i>Taraxacum officinale</i>	common dandelion							✓	✓			✓	✓
<i>Tetradymia axillaris</i>	cotton-thorn		✓			✓							
<i>Tetradymia axillaris</i> var. <i>axillaris</i>	cotton-thorn					✓							
<i>Tetradymia axillaris</i> var. <i>longispina</i>	cotton-thorn		✓										
<i>Tetradymia canescens</i>	gray horsebrush			✓	✓		✓	✓	✓	✓	✓	✓	✓
<i>Tetradymia glabrata</i>	desert horsebrush		✓			✓							
<i>Tetradymia stenolepis</i>	Mojave horsebrush		✓										
<i>Tonestus scimus</i>	Lake Tahoe serpentine							✓					
<i>Tonestus personata</i>	Person's serpentine							✓					
<i>Townsendia condensata</i>	cushion Townsend daisy												✓
<i>Townsendia scapigera</i>	ground daisy			✓									✓
<i>Wylethia mollis</i>	mule ears						✓	✓	✓	✓	✓	✓	✓
<i>Xanthium strumarium</i>	cocklebur		✓			✓							
<i>Xylophora tortifolia</i> var. <i>tortifolia</i>	Mojave aster	✓	✓	✓		✓							
AZOLLACEAE													
Mosquito Fern													
<i>Azolla filiculoides</i>	mosquito fern		✓										
<i>Azolla microphylla</i>	Mexican mosquito fern					✓							
BETULACEAE													
Birch													
<i>Betula occidentalis</i>	water birch		✓	✓			✓	✓					
BORAGINACEAE													
Borage													
<i>Amsinckia tessellata</i>	liddeneck					✓							
<i>Amsinckia tessellata</i> var. <i>tessellata</i>	liddeneck		✓	✓	✓								
<i>Cryptantha ambigua</i>	basin cryptantha												✓
<i>Cryptantha barbigerata</i>	fuzzy forget-me-not									✓			
<i>Cryptantha cinerea</i> var. <i>abortiva</i>	Jame's cryptantha												✓
<i>Cryptantha circumsessilis</i>	capped cryptantha	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
<i>Cryptantha confertiflora</i>	golden forget-me-not				✓	✓	✓		✓	✓			
<i>Cryptantha decipiens</i>	gravel cryptantha	✓											
<i>Cryptantha dumetorum</i>	flexuous cryptantha		✓										
<i>Cryptantha echinella</i>	prickly cryptantha												✓
<i>Cryptantha flavoculata</i>	sulphur-throated forget-me-not				✓								✓
<i>Cryptantha glomeriflora</i>	Truckee cryptantha							✓			✓		
<i>Cryptantha humilis</i>	low cryptantha												✓
<i>Cryptantha intermedia</i>	common cryptantha	✓											
<i>Cryptantha micrantha</i>	purple-rooted forget-me-not		✓			✓				✓			
<i>Cryptantha nevadensis</i>	Nevada cryptantha	✓	✓	✓		✓							
<i>Cryptantha rubigena</i>	Sierra forget-me-not							✓					
<i>Cryptantha oxygona</i>	sharp-nut cryptantha										✓		
<i>Cryptantha pterocarya</i>	wing-nut forget-me-not	✓	✓	✓		✓							
<i>Cryptantha recurvata</i>	curved cryptantha					✓							
<i>Cryptantha torreyana</i> var. <i>torreyana</i>	Torrey's cryptantha												✓
<i>Cryptantha utahensis</i>	fragrant forget-me-not		✓	✓									

Scientific Name	Common Name	Fossil Falls	Alabama Hills	Mazourka Canyon	Dix & Oak Creeks	White Mountains	Fish Slough	Rock Creek	McGee Creek	Parker Bench	East Mono Basin	Trage Pass	Booby Hills
<i>Cryptantha virginensis</i>	Virginia forget-me-not					✓							
<i>Cryptantha watsonii</i>	Watson forget-me-not										✓		✓
<i>Cryptantha</i> spp.	cryptantha			✓				✓					
<i>Emmenanthe penduliflora</i> var. <i>penduliflora</i>	whispering bells		✓						✓				
<i>Eucrypta chrysanthemifolia</i>	spotted eucrypta	✓											
<i>Eucrypta chrysanthemifolia</i> var. <i>bipinnatifida</i>	spotted eucrypta		✓	✓									
<i>Eucrypta micrantha</i>	dainty desert eucrypta						✓						
<i>Hackelia floribunda</i>	manyflower stickseed							✓					
<i>Hackelia micrantha</i>	Jessica's stickseed							✓			✓	✓	
<i>Heliotropium curassavicum</i>	alkali heliotrope	✓	✓			✓							
<i>Hesperochiron californicus</i>	California hesperochiron		✓										✓
<i>Lappula redwieskii</i> var. <i>redwieskii</i>	stickseed							✓					✓
<i>Mertensia obtusifolia</i> var. <i>nevadensis</i>	bugle kangaroo												✓
<i>Nana aretioides</i>	sagebrush nama	✓	✓	✓	✓	✓							✓
<i>Nana demissum</i> var. <i>demissum</i>	purple mat		✓		✓								
<i>Nana densum</i> var. <i>densum</i>	leafy fiddleneck				✓								✓
<i>Nana depressum</i>	narrow-leaved nama						✓						
<i>Nana rothrockii</i>	Rothrock's nama												✓
<i>Nemophila spatulata</i>	Sierra nemophila												✓
<i>Pectocarya heterocarpa</i>	wing-nutted combed		✓										
<i>Pectocarya penicillata</i>	slender combed					✓							
<i>Pectocarya platycarpa</i>	broad-margined comb-tar	✓											
<i>Pectocarya recurvata</i>	curved combed	✓											
<i>Pectocarya setosa</i>	round pectocarya		✓			✓							
<i>Phacelia bicolor</i> var. <i>bicolor</i>	sticky yellow-throats		✓	✓	✓			✓	✓	✓	✓	✓	✓
<i>Phacelia crumata</i>	notch-leaf phacelia			✓									
<i>Phacelia curvipes</i>	dwarf phacelia		✓	✓						✓			
<i>Phacelia distans</i>	blue phacelia	✓	✓	✓			✓						
<i>Phacelia fremontii</i>	yellow-throats	✓	✓	✓		✓	✓				✓		
<i>Phacelia hastata</i>	timberline phacelia							✓	✓				
<i>Phacelia hastata</i> ssp. <i>compacta</i>	timberline phacelia										✓	✓	✓
<i>Phacelia hastata</i> ssp. <i>hastata</i>	silverleaf phacelia										✓		
<i>Phacelia heterophylla</i> ssp. <i>virgata</i>	varied-leaf phacelia							✓					✓
<i>Phacelia humilis</i>	low phacelia								✓	✓			✓
<i>Phacelia humilis</i> var. <i>humilis</i>	low phacelia					✓							
<i>Phacelia inyoensis</i>	Inyo phacelia		✓			✓							
<i>Phacelia ivestiana</i>	lives' phacelia		✓										
<i>Phacelia monoensis</i>	Mono phacelia												✓
<i>Phacelia penstemonoides</i>	cliff phacelia			✓									
<i>Phacelia ramosissima</i>	branching phacelia										✓	✓	✓
<i>Phacelia rotundifolia</i>	round-leaved phacelia		✓										
<i>Phacelia saxicola</i>	stonecrop phacelia					✓							
<i>Phacelia vallis-mortuae</i>	Death Valley phacelia					✓							

Scientific Name	Common Name	Fossil Falls	Alabama Hills	Mesa Verde Canyon	Div. 4 Oak Creeks	White Mountains	Fish Slough	Rock Creek	McCone Creek	Parker Bench	East Mono Basin	Tringa Pass	Bodie Hills
<i>Phlox</i> <i>membranacea</i>	white flax- flower	✓											
<i>Plagiobothrys</i> <i>hispidulus</i>	harsh popcorn flower												✓
<i>Plagiobothrys</i> <i>kingii</i> var. <i>harknessii</i>	Harkness popcorn flower												
<i>Plagiobothrys</i> <i>kingii</i> var. <i>kingii</i>	King popcorn flower									✓			✓
<i>Plagiobothrys</i> <i>leptodactylus</i>	prostrate popcorn flower	✓											
<i>Tiquilia</i> <i>nuttallii</i>	Nuttall's tiquilia		✓				✓			✓			
<i>Ticaria</i> <i>warbtonii</i>	tree hearts	✓	✓										
BRASSICACEAE Mustard													
<i>Barbarea orthoceras</i>	winter cress											✓	✓
<i>Boechera bodiensis</i>	Bodie Hills rock cress												✓
<i>Boechera colbensis</i>	Masonic rock cress												✓
<i>Boechera dispar</i>	pinyon rock cress				✓								
<i>Boechera divaricata</i>	spreading rock cress							✓					
<i>Boechera (dixensis)</i>	pioneer rock cress												✓
<i>Boechera glaucovalvula</i>	blue-podded rock cress	✓											
<i>Boechera inyoensis</i>	Inyo rock cress				✓		✓						
<i>Boechera lemmonii</i>	Lemmon rock cress							✓					✓
<i>Boechera lincolniensis</i>	Lincoln's rock cress						✓						
<i>Boechera lyallii</i>	Lyall's rock cress							✓				✓	✓
<i>Boechera pauciflora</i>	hairy-stem rock cress							✓					✓
<i>Boechera pauperula</i>	small-leaved rock cress												✓
<i>Boechera pinetorum</i>	Holboell's arched rock cress							✓					
<i>Boechera platysperma</i>	pioneer rock cress							✓			✓	✓	
<i>Boechera puberula</i>	silver rock cress												✓
<i>Boechera pulchra</i>	prince's rock cress			✓	✓	✓	✓						✓
<i>Boechera retrofracta</i>	Holboell's reflexed rock cress				✓		✓			✓			
<i>Boechera sparsiflora</i>	elegant rock cress												✓
<i>Boechera stricta</i>	Drummond's rock cress							✓					✓
<i>Boechera taylorii</i>	Carson Range rock cress												✓
<i>Boechera tufarensis</i>	Tulare rock cress							✓					
<i>Boechera xylepoda</i>	bigfoot hybrid rock cress	✓											
<i>Boechera</i> spp.	rock cress				✓			✓					
<i>Caulanthus cooperi</i>	Cooper caulanthus	✓	✓		✓								
<i>Caulanthus pilosus</i>	chocolate drop	✓		✓		✓	✓	✓					
<i>Cusickiella douglasii</i>	alkali cusickiella												✓
<i>Cusickiella</i> <i>quadricostata</i>	Bodie Hills cusickiella												✓
<i>Descurainia californica</i>	California tansy mustard												✓
<i>Descurainia incisa</i> ssp. <i>incisa</i>	mountain tansy mustard												✓
<i>Descurainia longipedunculata</i>	western tansy mustard												✓
<i>Descurainia pinnata</i>	tansy mustard			✓		✓			✓	✓			
<i>Descurainia pinnata</i> ssp. <i>glabra</i>	tansy mustard	✓											
* <i>Descurainia sophia</i>	fibewood				✓								✓
<i>Descurainia</i> spp.	tansy mustard							✓	✓				
<i>Dithyrea californica</i>	spectacle-pod	✓											

Scientific Name	Common Name	Fossil Falls	Alabama Hills	Mesa Verde Canyon	Div. 4 Oak Creeks	White Mountains	Fish Slough	Rock Creek	McCone Creek	Parker Bench	East Mono Basin	Tringa Pass	Bodie Hills
<i>Draba albertina</i>	slender draba											✓	✓
<i>Draba breweri</i>	Brewer's whitlow grass												✓
<i>Draba densifolia</i>	denseleaf draba												✓
<i>Draba lemmonii</i>	Lemmon's draba												✓
<i>Draba oligosperma</i>	comb draba												✓
<i>Draba sierrae</i>	Sierra draba												✓
<i>Draba</i> spp.	draba		✓										
<i>Erysimum capitatum</i>	wallflower			✓	✓		✓	✓	✓	✓	✓	✓	
<i>Erysimum capitatum</i> ssp. <i>capitatum</i>	wallflower												✓
<i>Erysimum perenne</i>	Sierra wallflower												✓
<i>Halimolobos jaegeri</i>	rock mustard		✓										
<i>Hornungia procumbens</i>	meadow mustard	✓	✓										✓
* <i>Lepidium appelianum</i>	hairy whitetop												✓
<i>Lepidium flavum</i>	yellow peppergrass	✓	✓	✓			✓						
<i>Lepidium fremontii</i>	bush peppergrass	✓	✓	✓			✓	✓					
<i>Lepidium lasiocarpum</i> ssp. <i>lasiocarpum</i>	shaggyfruit pepperweed		✓										
<i>Lepidium virginicum</i>	Virginia pepperweed									✓			
<i>Nasturtium officinale</i>	water-cress		✓					✓					✓
<i>Phoeniculis</i> <i>cheiranthoides</i>	dagger pod		✓					✓					✓
<i>Physaria kingii</i>	bealpod												✓
<i>Physaria kingii</i> ssp. <i>kingii</i>	bealpod				✓								
<i>Polysterium fremontii</i>	desert combleaf												✓
<i>Rorippa curvipes</i>	bluntleaf yellowcress												✓
<i>Rorippa palustris</i>	bog yellowcress									✓			
<i>Rorippa sinuata</i>	spreading yellowcress	✓											
<i>Rorippa</i> spp.	yellowcress									✓			
<i>Sisymbrium altissimum</i>	tumble mustard												✓
<i>Stanleya elata</i>	prince's plume		✓	✓									
<i>Stanleya pinnata</i> var. <i>pinnata</i>	desert plume		✓	✓									✓
<i>Streptanthella</i> <i>longirostris</i>	streptanthella		✓				✓						
<i>Streptanthus cordatus</i> var. <i>cordatus</i>	pinyon streptanthus									✓			
<i>Streptanthus oliganthus</i>	Masonic mountain jewelflower												✓
<i>Streptanthus tortuosus</i>	shieldleaf												✓
<i>Thelypodium crispum</i>	crisped thelypod											✓	✓
<i>Thelypodium integrifolium</i>	whole-leaf mustard							✓					✓
<i>Thelypodium integrifolium</i> ssp. <i>complanatum</i>	entire-leaved thelypod							✓					
<i>Thelypodium laciniatum</i>	cutleaf thelypod							✓					
<i>Thysanocarpus curvipes</i>	fringe-pod		✓										
CACTACEAE Cactus													
<i>Cylindropuntia echinocarpa</i>	silver cholla		✓	✓									
<i>Echinocactus polycephalus</i> var. <i>polycephalus</i>	cholla-top		✓	✓									
<i>Echinocereus engelmannii</i>	hedgehog cactus		✓	✓		✓							
<i>Echinocereus mojavensis</i>	Mojave mound cactus					✓							
<i>Gussonia pulchella</i>	sand cholla												✓
<i>Opuntia basilaris</i> var. <i>basilaris</i>	beaver tail cactus		✓	✓									
<i>Opuntia polyacantha</i> var. <i>erinacea</i>	Mojave prickly pear				✓	✓		✓	✓				✓

Scientific Name	Common Name	Fossil Falls	Alabama Hills	Mesaona Canyon	Div. 4 Oak Creeks	White Mountains	Fish Slough	Rock Creek	McCase Creek	Parker Bench	East Mono Basin	Tripe Pass	Bodie Hills
CAMPANULACEAE													
Beltflower													
<i>Nemadactylus orientalis</i>	glandular thread-plant						✓						
<i>Nemadactylus rigidus</i>	stout thread-plant												✓
<i>Nemadactylus rubescens</i>	yellow-flowered thread-plant	✓											
CANNABACEAE													
Hemp													
<i>*Humulus lupulus</i>	European hop												✓
CAPRIFOLIACEAE													
Honeysuckle													
<i>Lonicera involucrata</i> var. <i>involucrata</i>	twiberry honeysuckle												✓
<i>Symphoricarpos longiflorus</i>	desert snowberry	✓	✓		✓								
<i>Symphoricarpos rotundifolius</i>	roundleaf snowberry			✓		✓	✓	✓	✓	✓	✓	✓	✓
<i>Symphoricarpos rotundifolius</i> var. <i>parishi</i>	Parish's snowberry												✓
CARYOPHYLLACEAE													
Pink													
<i>Eremogone aculeata</i>	King sandwort												✓
<i>Eremogone kingii</i> var. <i>glabrescens</i>	King sandwort				✓		✓					✓	
<i>Eremogone macradenia</i>	desert sandwort			✓			✓						
<i>Eremogone macradenia</i> var. <i>macradenia</i>	green sandwort		✓										
<i>Mimularia nuttallii</i> var. <i>fragilis</i>	brittle sandwort												✓
<i>Mimularia nuttallii</i> var. <i>gracilis</i>	Nuttall sandwort						✓						
<i>Mimularia stricta</i>	hog stichwort												✓
<i>Sagina saginoides</i>	arctic pearlwort						✓						✓
<i>Scopulophila rixfordii</i>	Rixford rockwort		✓										
<i>Silene bernardina</i>	Palmer's catchfly												✓
<i>Silene menziesii</i>	Menzies' catchfly						✓						✓
<i>Silene sargentii</i>	Sargent's catchfly						✓						
<i>Stellaria borealis</i> ssp. <i>sitchana</i>	Sitka starwort						✓						
<i>Stellaria calycantha</i>	northern starwort						✓						
<i>Stellaria longipes</i> ssp. <i>longipes</i>	long-stalked starwort						✓			✓	✓	✓	
<i>Stellaria umbellata</i>	umbrella chickweed						✓						✓
CHENOPODIACEAE													
Goosefoot													
<i>Atriplex occidentalis</i>	picklebush						✓						
<i>Atriplex canescens</i>	fourwing saltbush	✓	✓	✓			✓						
<i>Atriplex canescens</i> var. <i>canescens</i>	fourwing saltbush			✓			✓						
<i>Atriplex confertifolia</i>	shadscale		✓	✓			✓						
<i>Atriplex confertifolia</i>	arrowscale	✓	✓				✓						
<i>Atriplex hymenelytra</i>	desert bully		✓				✓						
<i>Atriplex parryi</i>	Parry saltbush		✓				✓						
<i>Atriplex patula</i>	spear orache						✓						✓
<i>Atriplex polycarpa</i>	allscale	✓	✓										
<i>Atriplex torreyi</i> var. <i>torreyi</i>	quailbush	✓	✓				✓						
<i>Atriplex truncata</i>	wedgescale saltbush						✓						
<i>*Bassia hyssopifolia</i>	bassia	✓	✓										✓
<i>*Chenopodium album</i>	lamb's quarters						✓						✓
<i>Chenopodium atrovirens</i>	prinyon goosefoot						✓						✓
<i>Chenopodium berlandieri</i>	pitseed goosefoot			✓									

Scientific Name	Common Name	Fossil Falls	Alabama Hills	Mesaona Canyon	Div. 4 Oak Creeks	White Mountains	Fish Slough	Rock Creek	McCase Creek	Parker Bench	East Mono Basin	Tripe Pass	Bodie Hills
<i>Chenopodium desiccatum</i>	prinyon goosefoot												✓
<i>Chenopodium fremontii</i>	Fremont goosefoot												✓
<i>Chenopodium leptophyllum</i>	narrow-leaved goosefoot												✓
<i>*Chenopodium macrospermum</i>	largeseed goosefoot												
<i>Chenopodium nutrum</i>	red goosefoot	✓											
<i>Chenopodium</i> spp.	goosefoot												✓
<i>Grayia spinescens</i>	hop-sage	✓	✓	✓	✓	✓	✓	✓		✓	✓	✓	✓
<i>Kochia americana</i>	gray molly	✓											✓
<i>*Kochia scoparia</i> ssp. <i>scoparia</i>	summer-cypress						✓						
<i>Krascheninnikovia lanata</i>	winter fat	✓	✓		✓	✓							✓
<i>Monolepis nuttalliana</i>	Nuttall monolepis						✓						✓
<i>Monolepis spatulata</i>	beaver powerweed												✓
<i>*Salsola australis</i>	Russian thistle												✓
<i>*Salsola pauciflora</i>	barbwire Russian thistle		✓										
<i>*Salsola tragus</i>	prickly Russian thistle		✓					✓	✓		✓		✓
<i>Suaeda nigra</i>	Mojave seablite		✓				✓						
<i>Suaeda occidentalis</i>	Nevada inkweed												✓
CLEOMACEAE													
Caper													
<i>Cleomea brevipes</i>	pygmy cleomea												✓
<i>Cleomea obtusifolia</i>	Mojave stinkweed	✓	✓				✓						
<i>Cleomea parviflora</i>	slender cleomea	✓	✓				✓						✓
<i>Cleomea plicasperma</i>	twisted cleomea												✓
<i>Wislizenia refracta</i>	spectacle fruit												✓
CONVOLVULACEAE													
Morning-glory													
<i>Calyptostegia longipes</i>	Plate morning-glory												✓
<i>*Convolvulus arvensis</i>	bindweed												✓
<i>Cuscuta campestris</i>	field dodder												✓
<i>Cuscuta californica</i> var. <i>californica</i>	California dodder												✓
<i>Cuscuta indecora</i> var. <i>indecora</i>	pretty dodder	✓	✓										
<i>Cuscuta jepsonii</i>	bigseed alfalfa dodder												✓
<i>Cuscuta occidentalis</i>	chaparral dodder												✓
<i>Cuscuta salina</i>	alkali dodder	✓											
<i>Cuscuta</i> spp.	dodder												✓
CORNACEAE													
Dogwood													
<i>Cornus sericea</i> ssp. <i>ovata</i>	American dogwood		✓										✓
CRASSULACEAE													
Stonecrop													
<i>Rhodiola integrifolia</i> ssp. <i>integrifolia</i>	rosy sedum												✓
<i>Sedum lanceolatum</i>	narrow-leaf stonecrop												✓
<i>Sedum obtusatum</i>	Sierra sedum												✓
CUPRESSACEAE													
Cypress													
<i>Calocedrus decurrens</i>	incense cedar		✓										
<i>Juniperus communis</i>	common juniper												✓
<i>Juniperus grandis</i>	Sierra juniper												✓
<i>Juniperus osteosperma</i>	Utah juniper						✓						✓
CYPERACEAE													
Sedge													
<i>Amphiscarpus nevadensis</i>	Nevada club-rush												✓

Scientific Name	Common Name	Fossil Falls	Alabama Hills	Mazourek's Canyon	Dix & Oak Creeks	White Mountains	Fish Slough	Rock Creek	McCree Creek	Parker Bench	East Mono Basin	Trogo Pass	Bozette Hills
<i>Bolboschoenus maritimus</i> ssp. <i>peludus</i>	cosmopolitan bulrush						✓						
<i>Carex abrupta</i>	abruptly beaked sedge							✓				✓	
<i>Carex albiongra</i>	black-and-white sedge							✓					
<i>Carex alma</i>	Alma sedge								✓				
<i>Carex aquatilis</i> var. <i>aquatilis</i>	water sedge									✓	✓		
<i>Carex atrostachya</i>	slenderbeak sedge							✓					✓
<i>Carex aurea</i>	golden sedge							✓		✓			
<i>Carex breweri</i>	Brewer's sedge							✓					
<i>Carex buttschii</i>	Buttsch's sedge							✓					
<i>Carex canescens</i> ssp. <i>canescens</i>	silvery sedge							✓					
<i>Carex capitata</i>	capitate sedge							✓					
<i>Carex concolor</i>	Congdon's sedge							✓					
<i>Carex douglasii</i>	Douglas sedge					✓	✓		✓	✓		✓	
<i>Carex filifolia</i>	threadleaf sedge							✓					
<i>Carex filifolia</i> var. <i>erositata</i>	shorthair sedge							✓					✓
<i>Carex fissuricola</i>	cleft sedge												✓
<i>Carex fracta</i>	fragile sheath sedge							✓					
<i>Carex hasselii</i>	salt sedge							✓					
<i>Carex helleri</i>	Heller's sedge							✓					✓
<i>Carex heteroneura</i>	different-nerve sedge							✓			✓	✓	
<i>Carex hoodii</i>	Hood's sedge							✓		✓	✓		
<i>Carex illota</i>	sheep sedge							✓					✓
<i>Carex jonesii</i>	Jones' sedge							✓					
<i>Carex luzulifolia</i>	littoral sedge							✓					
<i>Carex luxurina</i>	woodrush sedge							✓					✓
<i>Carex microptera</i>	smallwing sedge							✓					✓
<i>Carex multicaulis</i>	maritib sedge												✓
<i>Carex nebrascensis</i>	Nebraska sedge							✓					✓
<i>Carex pellita</i>	woolly sedge							✓	✓				✓
<i>Carex phaecephala</i>	dunhead sedge				✓								
<i>Carex praecipitum</i>	early sedge							✓					✓
<i>Carex praegracilis</i>	clustered field sedge					✓				✓			✓
<i>Carex preslii</i>	Presl's sedge							✓					✓
<i>Carex raynoldsii</i>	Raynolds' sedge							✓					✓
<i>Carex rossii</i>	Ross' sedge							✓		✓	✓	✓	
<i>Carex scopulorum</i> var. <i>bracteosa</i>	mountain sedge							✓					✓
<i>Carex simulata</i>	analogue sedge							✓					✓
<i>Carex spectabilis</i>	showy sedge							✓					✓
<i>Carex stramineiformis</i>	Shasta sedge									✓	✓		
<i>Carex subnigricans</i>	nearlyblack sedge							✓					✓
<i>Carex uticulata</i>	Northwest Territory sedge							✓					✓
<i>Carex vernacula</i>	native sedge							✓					
<i>Carex vesicaria</i>	blister sedge							✓					✓
<i>Carex whitneyi</i>	Whitney's sedge							✓					
<i>Carex</i> spp.	sedge	✓				✓		✓					
<i>Cyperus squarrosus</i>	bearded flatsedge									✓			
<i>Eleocharis bella</i>	beautiful spikerush							✓					
<i>Eleocharis macrostachya</i>	pale spikerush												✓
<i>Eleocharis palustris</i>	common spikerush							✓	✓				
<i>Eleocharis parishii</i>	Parish spikerush	✓	✓			✓	✓						
<i>Eleocharis quinqueflora</i>	fewflower spikerush							✓					✓
<i>Eleocharis rostellata</i>	walking spikerush	✓				✓							

Scientific Name	Common Name	Fossil Falls	Alabama Hills	Mazourek's Canyon	Dix & Oak Creeks	White Mountains	Fish Slough	Rock Creek	McCree Creek	Parker Bench	East Mono Basin	Trogo Pass	Bozette Hills
<i>Eriophorum crinitum</i>	tinged cottongrass												✓
<i>Fimbristylis thermalis</i>	fimbristylis												✓
<i>Schoenoplectus acutus</i> var. <i>occidentalis</i>	common tule	✓	✓				✓						
<i>Schoenoplectus americanus</i>	three-square	✓					✓						✓
<i>Schoenoplectus pungens</i> var. <i>longispicatus</i>	common three-square						✓						
<i>Scirpus microcarpus</i>	panicked bulrush												✓
<i>Trichophorum clementis</i>	Yosemite bulrush								✓				
DENNSTAETIACEAE													
Bracken													
<i>Pteridium aquilinum</i> var. <i>pubescens</i>	bracken		✓										
ELAEAGNACEAE													
Oleaster													
<i>*Elaeagnus angustifolia</i>	Russian olive		✓				✓						✓
<i>Shepherdia argentea</i>	buffalo berry												✓
ELATINACEAE													
Waterwort													
<i>Elatine rubella</i>	southern waterwort												✓
EPHEDRACEAE													
Ephedra													
<i>Ephedra nevadensis</i>	Nevada ephedra	✓	✓	✓	✓	✓	✓						✓
<i>Ephedra viridis</i>	green ephedra	✓		✓	✓								✓
EQUISETACEAE													
Horsetail													
<i>Equisetum arvense</i>	field horsetail									✓	✓		
<i>Equisetum laevigatum</i>	smooth scouring rush		✓				✓		✓				✓
ERICACEAE													
Heather													
<i>Cassiope mertensiana</i>	white heather									✓			✓
<i>Gaultheria humifusa</i>	alpine spicewort												✓
<i>Gaultheria ovalifolia</i>	western huckleberry												✓
<i>Kalmia polifolia</i>	alpine laurel									✓			✓
<i>Orthilia secunda</i>	one-sided wintergreen									✓			✓
<i>Phylodoce breweri</i>	red heather									✓			✓
<i>Pyrola minor</i>	snowline wintergreen												✓
<i>Rhododendron columbianum</i>	Labrador tea									✓			✓
<i>Vaccinium cespitosum</i>	dwarf bilberry									✓			✓
<i>Vaccinium uliginosum</i> ssp. <i>occidentale</i>	bog blueberry									✓			✓
EUPHORBIACEAE													
Spurge													
<i>Chamaesyce albomarginata</i>	rattlesnake weed	✓											
<i>Chamaesyce fendleri</i>	Fendler spurge												✓
<i>Chamaesyce micromita</i>	Sonoran sandmat		✓										
<i>Croton setigerus</i>	dove weed	✓											
<i>Stillingia paucidentata</i>	Mojave stillinga	✓											
FABACEAE													
Pea													
<i>Acisipon americanus</i> var. <i>americanus</i>	Spanish clover		✓										
<i>Acisipon brachycarpus</i>	short-podded lotus		✓										
<i>Acisipon strigosus</i>	stingose birds-foot trefoil										✓		
<i>Astragalus acutirostris</i>	keel beak	✓	✓							✓			

Scientific Name	Common Name	Fossil Falls	Alabama Hills	Mazourka Canyon	Dir. & Oak Creeks	White Mountains	Fish Slough	Rock Creek	McGee Creek	Parker Ranch	East Mono Basin	Triga Pass	Bodie Hills
<i>Astragalus argophyllus</i> var. <i>argophyllus</i>	silverleaf milk-velch						✓						
<i>Astragalus bolanderi</i>	Bolander's thread-plant												✓
<i>Astragalus calycosus</i> var. <i>calycosus</i>	little gray milk-velch					✓							✓
<i>Astragalus coccineus</i>	scarlet milk-velch	✓	✓										
<i>Astragalus curvicaupus</i> var. <i>curvicaupus</i>	coiled locoweed												✓
<i>Astragalus inyoensis</i>	Inyo milk-velch					✓							
<i>Astragalus johannes-bowditchii</i>	Long Valley milk-velch												✓
<i>Astragalus kentrophyta</i> var. <i>danauus</i>	spiny milk-velch					✓						✓	
<i>Astragalus kentrophyta</i> var. <i>elatus</i>	Inyo prickly milk-velch					✓							
<i>Astragalus kentrophyta</i> var. <i>logobatus</i>	dolomite milk-velch					✓							
<i>Astragalus lentiginosus</i>	paper locoweed						✓	✓					
<i>Astragalus lentiginosus</i> var. <i>altifolius</i>	northern freckled milk-velch	✓											
<i>Astragalus lentiginosus</i> var. <i>fremontii</i>	freckled milk-velch	✓	✓			✓							
<i>Astragalus lentiginosus</i> var. <i>inoplus</i>	freckled milk-velch												✓
<i>Astragalus lentiginosus</i> var. <i>piscinensis</i>	Fish Slough milk-velch						✓						
<i>Astragalus lentiginosus</i> var. <i>semotus</i>	little paper-pod					✓							
<i>Astragalus monoensis</i>	Mono milk-velch							✓		✓			
<i>Astragalus newberryi</i> var. <i>newberryi</i>	Newberry milk-velch					✓							
<i>Astragalus ophorosus</i>	big-podded milk-velch												✓
<i>Astragalus pseudodanthonis</i>	Tonopah milk-velch												✓
<i>Astragalus purshii</i>	woolly-pod locoweed							✓	✓		✓	✓	
<i>Astragalus septulipes</i>	Lone Pine milk-velch			✓									
<i>Astragalus whitneyi</i>	Whitney's locoweed							✓				✓	
<i>Astragalus whitneyi</i> var. <i>whitneyi</i>	Whitney's locoweed												✓
<i>Glycyrrhiza lepidota</i>	wild licorice	✓				✓							
<i>Hesackia crassifolia</i> var. <i>crassifolia</i>	buck lotus												✓
<i>Hesackia oblongifolia</i> var. <i>oblongifolia</i>	narrow-leaved lotus	✓											
* <i>Lotus comiculatus</i>	bird's-foot lotus	✓											
<i>Lupinus andersonii</i>	Anderson's lupine										✓		✓
<i>Lupinus arbustus</i>	longspur lupine							✓					✓
<i>Lupinus argenteus</i>	silver lupine			✓			✓						✓
<i>Lupinus argenteus</i> var. <i>argenteus</i> (L. <i>argenteus</i> ssp. <i>argenteus</i>)	silver lupine			✓									
<i>Lupinus argenteus</i> var. <i>heteranthus</i>	spurred lupine								✓				
<i>Lupinus argenteus</i> var. <i>mesoanthus</i>	Tahoe lupine			✓						✓			✓
<i>Lupinus argenteus</i> var. <i>montigenus</i>	Kellogg's spurred lupine							✓					
<i>Lupinus breweri</i> var. <i>breweri</i>	Brewer's lupine									✓			
<i>Lupinus breweri</i> var. <i>tryoides</i>	matted lupine			✓									✓
<i>Lupinus breweri</i> var. <i>grandiflorus</i>	matted lupine							✓	✓				
<i>Lupinus concinnus</i>	tajada lupine	✓											
<i>Lupinus duranii</i>	Mono Lake lupine									✓			
<i>Lupinus excubitus</i> var. <i>excubitus</i>	Inyo bush lupine	✓	✓	✓									
<i>Lupinus flavoculatus</i>	yellow-eyes	✓	✓										

Scientific Name	Common Name	Fossil Falls	Alabama Hills	Mazourka Canyon	Dir. & Oak Creeks	White Mountains	Fish Slough	Rock Creek	McGee Creek	Parker Ranch	East Mono Basin	Triga Pass	Bodie Hills
<i>Lupinus gracilentus</i>	green slender lupine							✓					
<i>Lupinus lepidus</i> var. <i>confertus</i>	crowded lupine							✓			✓		
<i>Lupinus lepidus</i> var. <i>lobbi</i>	Donner Lake lupine											✓	
<i>Lupinus lepidus</i> var. <i>ramosus</i>	crowded lupine									✓	✓		
<i>Lupinus lepidus</i> var. <i>solitarius</i>	Donner Lake lupine												✓
<i>Lupinus magnificus</i>	Kerr lupine			✓									
<i>Lupinus microcarpus</i> var. <i>horizontalis</i>	sunset lupine	✓											
<i>Lupinus nevadensis</i>	Nevada lupine												✓
<i>Lupinus odoratus</i>	royal desert lupine	✓	✓				✓						
<i>Lupinus polyphyllus</i> var. <i>burkei</i>	large-leaf lupine		✓									✓	
<i>Lupinus pratensis</i>	Inyo meadow lupine							✓			✓		
<i>Lupinus shockleyi</i>	sand lupine		✓										
<i>Lupinus</i> spp.	lupine					✓							
* <i>Medicago lupulina</i>	black medick												✓
* <i>Melilotus albus</i>	white sweetclover	✓		✓		✓							
* <i>Melilotus indicus</i>	yellow sweetclover	✓											
<i>Psoraleum arborescens</i> var. <i>minutifolius</i>	indigo bush	✓	✓	✓	✓		✓						
<i>Psoraleum polydenus</i>	Nevada dalea							✓					
* <i>Robinia pseudacacia</i>	black locust		✓					✓					
<i>Trifolium andersonii</i>	breast clover												✓
<i>Trifolium andersonii</i> ssp. <i>beallean</i>	Mono clover					✓							
<i>Trifolium cymiferum</i>	cup clover												✓
* <i>Trifolium dubium</i>	shamrock						✓						
* <i>Trifolium fragiferum</i>	strawberry clover	✓											
<i>Trifolium longipes</i>	long-stalked clover									✓			✓
<i>Trifolium monanthum</i>	carpet clover							✓	✓				✓
<i>Trifolium monanthum</i> ssp. <i>monanthum</i>	carpet clover											✓	
<i>Trifolium wormskioldi</i>	cow clover		✓				✓						
<i>Vicia americana</i> ssp. <i>americana</i>	American vetch							✓	✓				✓
FAGACEAE Oak													
<i>Chrysolepis sempervirens</i>	bush chinquapin							✓	✓		✓		
<i>Quercus chrysolepis</i>	canyon live oak					✓							
<i>Quercus kelloggii</i>	California black oak					✓							
<i>Quercus wislizeni</i>	interior live oak					✓							
GENTIANACEAE Gentian													
<i>Comastoma tenellum</i>	Dane's dwarf gentian									✓			
<i>Fraseria puberulenta</i>	Inyo gentian					✓							
<i>Gentiana newberryi</i>	alpine gentian									✓			✓
<i>Gentianella amarella</i> ssp. <i>acuta</i>	heort							✓					✓
<i>Gentianopsis holopetala</i>	Sierra gentian							✓					✓
<i>Gentianopsis simplex</i>	hiker's gentian							✓			✓		
<i>Zeltnera exaltata</i>	four-petal century	✓					✓						
GERANIACEAE Geranium													
* <i>Erodium cicutarium</i>	red-stemmed filaree	✓					✓						✓

Scientific Name	Common Name	Fossil Falls	Alabama Hills	Mazoucka Canyon	Dix. & Oak Creeks	White Mountains	Fish Slough	Rock Creek	McCaig Creek	Parlier Bench	East Mono Basin	Trippa Pass	Bodie Hills
<i>Geranium richardsonii</i>	Richardson's geranium						✓						
GROSSULARIACEAE													
Gooseberry													
<i>Ribes aureum</i> var. <i>aureum</i>	golden currant	✓											✓
<i>Ribes cereum</i>	wax currant				✓		✓	✓	✓	✓	✓	✓	✓
<i>Ribes inermis</i> var. <i>inermis</i>	whitestem gooseberry						✓	✓					✓
<i>Ribes montigenum</i>	mountain gooseberry						✓				✓		
<i>Ribes nevadense</i>	Sierra currant			✓									
<i>Ribes velutinum</i>	plains gooseberry	✓											✓
HYDROCHARITACEAE													
Waterweed													
<i>Elodea canadensis</i>	Canadian waterweed					✓							
HYDRANGEACEAE													
Hydrangea													
<i>Jamnesia americana</i> var. <i>rosea</i>	cliffbush						✓						
HYPERICACEAE													
St. John's Wort													
<i>Hypericum anagalloides</i>	triker's penny						✓						✓
IRIDACEAE													
Iris													
<i>Iris missouriensis</i>	wild iris				✓	✓		✓		✓	✓	✓	✓
<i>Seyrinchium halophyllum</i>	Nevada blue-eyed grass				✓								✓
<i>Seyrinchium idahoense</i>	blue-eyed grass						✓						
ISOETACEAE													
Oatwort													
<i>Isoetes bolanderi</i>	Bolander's quillwort						✓						
<i>Isoetes occidentalis</i>	western quillwort						✓						
JUNCEAE													
Rush													
<i>Juncus balticus</i> ssp. <i>aler</i>	wire grass	✓	✓			✓	✓		✓		✓	✓	✓
<i>Juncus bufonius</i>	toad rush					✓							✓
<i>Juncus drummondii</i>	Drummond's rush						✓						✓
<i>Juncus emulfolius</i>	swordleaf rush												✓
<i>Juncus longistylis</i>	longstyle rush				✓					✓			
<i>Juncus macrandrus</i>	longanther rush						✓						
<i>Juncus mertensianus</i>	Mertens' rush						✓				✓	✓	
<i>Juncus medicanus</i>	Medcan rush	✓	✓				✓		✓	✓			
<i>Juncus nevadensis</i> var. <i>nevadensis</i>	Sierra rush						✓	✓			✓	✓	
<i>Juncus orthophyllus</i>	straightleaf rush											✓	✓
<i>Juncus oxymeris</i>	pointed rush									✓			
<i>Juncus parryi</i>	Parry's rush											✓	✓
<i>Juncus torreyi</i>	Torrey rush					✓							
<i>Luzula comosa</i>	Pacific woodrush						✓						✓
<i>Luzula divaricata</i>	forked woodrush						✓						✓
<i>Luzula oregonia</i>	Sierra woodrush						✓						✓
<i>Luzula parviflora</i>	small flowered woodrush						✓						✓
<i>Luzula spicata</i>	spiked woodrush												✓
<i>Luzula subcongesta</i>	Donner woodrush						✓						✓
JUNCAGNIACEAE													
Arrow-grass													
<i>Triglochin concinna</i> var. <i>debilis</i>	alkali arrow-grass					✓							✓
<i>Triglochin palustris</i>	marsh arrow-grass						✓						✓

Scientific Name	Common Name	Fossil Falls	Alabama Hills	Mazoucka Canyon	Dix. & Oak Creeks	White Mountains	Fish Slough	Rock Creek	McCaig Creek	Parlier Bench	East Mono Basin	Trippa Pass	Bodie Hills
LAMIACEAE													
Mint													
<i>Lycopus asper</i>	rough bugleweed						✓						
* <i>Marrubium vulgare</i>	horhound												✓
* <i>Melissa officinalis</i>	common balm	✓											
* <i>Mentha arvensis</i>	spearmint	✓					✓						✓
<i>Monardella odoratissima</i>	coyote mint			✓				✓	✓	✓			✓
<i>Monardella odoratissima</i> ssp. <i>pallida</i>	coyote mint								✓				✓
<i>Salvia arduacea</i>	tristle-sage	✓											
<i>Salvia columbariae</i>	chia	✓	✓		✓		✓						
<i>Salvia domii</i>	purple sage				✓								
<i>Salvia domii</i> var. <i>domii</i>	purple sage						✓						
<i>Salvia domii</i> var. <i>pilosa</i>	purple sage	✓											
<i>Scutellaria mexicana</i>	hadder sage	✓											
<i>Stachys albens</i>	white hedge nettle	✓											
<i>Tricholema austromontanum</i> ssp. <i>austromontanum</i>	San Jacinto bluecurls												✓
LENTIBULARIACEAE													
Bladderwort													
<i>Utricularia macrotricha</i>	common bladderwort						✓						
LILIACEAE													
Lily													
<i>Calochortus bruneus</i>	sego lily					✓		✓	✓				✓
<i>Calochortus excavatus</i>	Inyo County star tulip	✓					✓						
<i>Calochortus leichtlinii</i>	Leichtlin's mariposa lily									✓		✓	✓
<i>Fritillaria atropurpurea</i>	wood bromus												✓
<i>Fritillaria</i> spp.	lily												✓
<i>Lilium kelleyanum</i>	Kelley's tiger lily								✓				
<i>Lilium parvum</i>	tiger lily								✓				✓
LINACEAE													
Flax													
<i>Linum lewisii</i>	blue flax						✓						✓
LOASACEAE													
Leasa													
<i>Eucnide urens</i>	rock nettle			✓									
<i>Mentzelia albicaulis</i>	little blazing star	✓	✓	✓		✓				✓	✓	✓	✓
<i>Mentzelia congesta</i>	flower baskets									✓	✓	✓	✓
<i>Mentzelia jonesii</i>	Jones blazing star							✓					
<i>Mentzelia laevicaulis</i>	giant blazing star									✓			✓
<i>Mentzelia montana</i>	mountain mentzelia										✓		
<i>Mentzelia nitens</i>	Venus blazing star	✓					✓						
<i>Mentzelia torreyi</i>	Torrey's blazing star									✓			✓
<i>Mentzelia tridentata</i>	cream tabs mentzelia	✓											
<i>Mentzelia veitchiana</i>	copper blazing star	✓					✓						
<i>Mentzelia</i> spp.	blazing star						✓						
<i>Petaloxys nitida</i>	shiny-leaved sandpaper plant	✓	✓										
LYTHRACEAE													
Loosestrife													
<i>Lythrum californicum</i>	California loosestrife	✓	✓				✓						
MALVACEAE													
Mallow													
<i>Eremalche edulis</i>	white mallow	✓											
<i>Eremalche rotundifolia</i>	desert five-spot	✓											
* <i>Malva neglecta</i>	woody mallow	✓											

Scientific Name	Common Name	Fossil Falls	Alabama Hills	Mazourka Canyon	Dirk & Oak Creeks	White Mountains	Fish Slough	Rock Creek	McGee Creek	Parker Bench	East Mono Basin	Tringa Pass	Badley Hills
<i>Sidalcea contelei</i>	Owens Valley checkerbloom	✓											
<i>Sidalcea oregana</i> ssp. <i>spicata</i>	Oregon checkerbloom												✓
<i>Sphaeralcea ambigua</i>	apricot mallow	✓	✓	✓	✓	✓							
<i>Sphaeralcea ambigua</i> var. <i>ambigua</i>	apricot mallow		✓	✓	✓	✓							✓
MELANTHACEAE													
False Hellebore													
<i>Toxicoscordium venenosum</i> var. <i>venenosum</i>	death camas	✓											
<i>Toxicoscordium paniculatum</i>	sand cream												✓
<i>Veratrum californicum</i> var. <i>californicum</i>	corn lily						✓					✓	✓
MENYANTHACEAE													
Buckbean													
<i>Menyanthes trifoliata</i>	buckbean						✓						
MONTIACEAE													
Montia													
<i>Calyptidium monandrum</i>	sand cress	✓		✓		✓							
<i>Calyptidium monospermum</i>	one-seed pussypaws									✓	✓		
<i>Calyptidium pygmaeum</i>	pygmy pussypaws							✓					
<i>Calyptidium roseum</i>	rosy pussypaws						✓			✓	✓		
<i>Calyptidium umbellatum</i>	pussypaws						✓			✓	✓		
<i>Calyptidium</i> spp.	pussypaws							✓					
<i>Claytonia parviflora</i> ssp. <i>parviflora</i>	miner's lettuce	✓											
<i>Lewisia glandulosa</i>	Sierra lewisia						✓						
<i>Lewisia nevadensis</i>	Nevada lewisia						✓						
<i>Lewisia pygmaea</i>	dwarf lewisia			✓									✓
<i>Lewisia rediviva</i>	bitterroot			✓									✓
<i>Montia chamissoi</i>	toad lily						✓				✓	✓	
NYCTAGINACEAE													
Four O'Clock													
<i>Abronia nana</i> var. <i>contelei</i>	Inyo mountain abronia			✓									
<i>Abronia poganantha</i>	Mojave sand verbena	✓											
<i>Abronia turbinata</i>	transmontane sand verbena				✓			✓	✓				
<i>Abronia villosa</i> var. <i>villosa</i>	desert sand verbena			✓									
<i>Mirabilis alipes</i>	rose four o'clock				✓								
<i>Mirabilis laevis</i> var. <i>retroflava</i>	wishbone bush	✓	✓										
<i>Mirabilis laevis</i> var. <i>villosa</i>	wishbone bush	✓	✓		✓								
<i>Mirabilis multiflora</i>	desert four o'clock				✓								
OLEACEAE													
Olive													
<i>Forestiera pubescens</i>	desert olive	✓											
<i>Fraxinus velutina</i>	desert ash	✓											
<i>Menodora spinescens</i>	spiny menodora		✓			✓							
<i>Menodora spinescens</i> var. <i>spinescens</i>	spiny menodora			✓									
ONAGRACEAE													
Evening Primrose													
<i>Camissonia campestris</i>	Inyo suncup	✓											
<i>Camissonia conferta</i>	colorful evening primrose												✓
<i>Camissonia parvula</i>	Lewis River suncup											✓	
<i>Camissonia pubens</i>	robust warty primrose							✓	✓				

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<i>Camissonia pusilla</i>	little warty primrose						✓						
<i>Camissonia</i> spp.	evening primrose			✓									
<i>Chamissonia angustifolia</i> ssp. <i>circumvagans</i>	fireweed							✓	✓		✓	✓	
<i>Chylisma brevipes</i>	yellow cups						✓						
<i>Chylisma daviformis</i>	brown-eyed primrose		✓										
<i>Chylisma daviformis</i> ssp. <i>daviformis</i>	brown-eyed primrose	✓											
<i>Chylisma daviformis</i> ssp. <i>lanceolata</i>	Inyo-Mono yellow primrose						✓				✓		
<i>Chylisma heterochroma</i>	purple primrose						✓						
<i>Chylismiella pterosperma</i>	pygmy primrose						✓						
<i>Epilobium brachycarpum</i>	tall annual yellowflower	✓											✓
<i>Epilobium canum</i> ssp. <i>latifolium</i>	California fuchsia	✓											
<i>Epilobium ciliatum</i>	tinged yellowflower							✓					
<i>Epilobium ciliatum</i> ssp. <i>ciliatum</i>	valley epilobium	✓					✓						✓
<i>Epilobium ciliatum</i> ssp. <i>glandulosum</i>	tinged yellowflower												✓
<i>Epilobium glaberrimum</i>	smoothstem yellowflower							✓					
<i>Epilobium glaberrimum</i> ssp. <i>fastigiatum</i>	smoothstem yellowflower												✓
<i>Epilobium halleanum</i>	granular yellowflower												✓
<i>Epilobium hornemannii</i> ssp. <i>hornemannii</i>	Hornemann's yellowflower												✓
<i>Epilobium lactiflorum</i>	milkflower yellowflower							✓					
<i>Epilobium minutum</i>	threadstem fireweed						✓						
<i>Epilobium orbiculatum</i>	rock fringe							✓					
<i>Epilobium oregonense</i>	Oregon yellowflower							✓				✓	✓
<i>Eremothera boothii</i>	Inyo evening primrose		✓										
<i>Eremothera boothii</i> ssp. <i>boothii</i>	Booth's evening primrose												✓
<i>Eremothera boothii</i> ssp. <i>desertorum</i>	woody bottle-washer	✓					✓						
<i>Eremothera boothii</i> ssp. <i>intermedia</i>	hairy primrose				✓								
<i>Eremothera chamaeroides</i>	modest primrose	✓											
<i>Eremothera reticulata</i>	narrow-leaved primrose		✓										
<i>Eulobus californicus</i>	mustard evening primrose						✓						
<i>Gayophytum decipiens</i>	deceptive groundsmoke												✓
<i>Gayophytum diffusum</i> ssp. <i>parviflorum</i>	summer snowflakes				✓		✓	✓	✓	✓	✓	✓	✓
<i>Gayophytum racemosum</i>	blackfoot groundsmoke							✓					
<i>Gayophytum ramosissimum</i>	pinon gayophytum							✓				✓	
<i>Oenothera californica</i> ssp. <i>avita</i>	white desert primrose							✓					
<i>Oenothera cosiphiosa</i> ssp. <i>margnata</i>	large white evening primrose	✓	✓		✓								
<i>Oenothera cosiphiosa</i> ssp. <i>ornata</i>	limestone primrose				✓								
<i>Oenothera elata</i> ssp. <i>hirsutissima</i>	tall evening primrose	✓					✓						✓
<i>Oenothera primveris</i>	large yellow evening primrose	✓											
<i>Oenothera zycocarpa</i>	woody-fruited evening primrose												✓
<i>Taraxia subcaulis</i>	northern suncup												✓

Scientific Name	Common Name	Fossil Falls	Alabama Hills	Mazourka Canyon	Div. & Oak Creeks	White Mountains	Fish Slough	Rock Creek	McGene Creek	Parker Ranch	East Mono Basin	Trage Pass	Bodie Hills
<i>Taraxia lanacetifolia</i>	lansleaf suncup												✓
<i>Tetraptreon palmieri</i>	Palm or primrose	✓											
OPHIQGLOSSACEAE Adder's-tongue													
<i>Bolrychium crenulatum</i>	scalloped moonwort												✓
<i>Bolrychium simplex</i>	little grapefern							✓					✓
ORCHIDACEAE Orchid													
<i>Epipactis gigantea</i>	giant orchid	✓				✓							
<i>Platanthera dilatata</i> var. <i>leucostachys</i>	Sierra rein-orchid							✓	✓				✓
<i>Spiranthes portifolia</i>	yellow ladies' tresses					✓	✓						
OROBANCHACEAE Broem-rape													
<i>Castilleja applegatei</i>	wavy-leaved paintbrush							✓	✓				
<i>Castilleja applegatei</i> ssp. <i>marlini</i>	Coleey Indian paintbrush				✓								
<i>Castilleja applegatei</i> ssp. <i>palida</i>	wavy-leaved paintbrush												✓
<i>Castilleja applegatei</i> ssp. <i>piniflorum</i>	wavy-leaved paintbrush				✓								
<i>Castilleja chromosa</i>	desert paintbrush	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
<i>Castilleja exserta</i>	purple owl's clover	✓											
<i>Castilleja lemmonii</i>	Lemmon's paintbrush							✓					✓
<i>Castilleja linariaefolia</i>	long-leaved paintbrush	✓			✓	✓	✓	✓	✓	✓			✓
<i>Castilleja miniata</i> ssp. <i>minuta</i>	great red paintbrush							✓	✓				✓
<i>Castilleja minor</i> ssp. <i>minor</i>	alkali Indian paintbrush	✓			✓								✓
<i>Castilleja nana</i>	alpine paintbrush			✓		✓							✓
<i>Castilleja personii</i>	mountain Indian paintbrush							✓					✓
<i>Castilleja pilosa</i>	parrothead Indian paintbrush							✓			✓		✓
<i>Castilleja tenuis</i>	hairy Indian paintbrush												✓
<i>Chloropyron maritimum</i> ssp. <i>carescens</i>	alkali bird's-beak	✓				✓							
<i>Cordylanthus kingii</i> ssp. <i>holeri</i>	purple bird's-beak				✓		✓	✓					✓
<i>Cordylanthus ramosus</i>	bushy bird's-beak	✓			✓								✓
<i>Orobanche corymbosa</i>	sagebrush strangler				✓					✓			✓
<i>Orobanche fasciculata</i>	mountain strangler				✓		✓						✓
<i>Orthocarpus cuspidatus</i>	Copeland's owl's-clover												✓
<i>Pedicularis altollens</i>	little elephant's head							✓					✓
<i>Pedicularis groenlandica</i>	bull elephant's head							✓					✓
<i>Pedicularis semibarbata</i>	dwarf housewort							✓					✓
PAPAVERACEAE Poppy													
<i>Argemone murata</i>	prickly poppy	✓	✓		✓								✓
<i>Argemone</i> spp.	prickly poppy			✓									
<i>Cantya candida</i>	pygmy poppy	✓											
<i>Eschscholzia minutiflora</i>	little gold-poppy	✓	✓	✓		✓							
PARNASSIACEAE Grass-of-Parnassus													
<i>Parnassia palustris</i>	smooth grass-of-Parnassus							✓					✓

Scientific Name	Common Name	Fossil Falls	Alabama Hills	Mazourka Canyon	Div. & Oak Creeks	White Mountains	Fish Slough	Rock Creek	McGene Creek	Parker Ranch	East Mono Basin	Trage Pass	Bodie Hills
PHRYMACEAE Lopseed													
<i>Mimulus bigelovii</i>	Bigelow's monkeyflower			✓		✓	✓						
<i>Mimulus bigelovii</i> var. <i>bigelovii</i>	Bigelow's monkeyflower	✓					✓						
<i>Mimulus bigelovii</i> var. <i>cuspidatus</i>	desert mimulus		✓										
<i>Mimulus breweri</i>	Brewer mimulus								✓				
<i>Mimulus cardinalis</i>	scarlet mimulus		✓		✓								
<i>Mimulus fremontii</i>	Fremont mimulus	✓											
<i>Mimulus guttatus</i>	common monkeyflower		✓	✓			✓					✓	✓
<i>Mimulus leptaleus</i>	Sierra monkeyflower							✓					
<i>Mimulus nanus</i> var. <i>nephibicus</i>	bad odor monkeyflower				✓	✓				✓	✓		✓
<i>Mimulus nanus</i> var. <i>nanus</i>	dwarf monkeyflower									✓			
<i>Mimulus parryi</i>	annual redspot monkeyflower						✓						
<i>Mimulus pilosus</i>	climpy mimulus		✓										✓
<i>Mimulus primuloides</i> var. <i>primuloides</i>	primrose monkeyflower							✓					✓
<i>Mimulus susdorfi</i>	Susdorf miniature mimulus							✓					✓
<i>Mimulus tilingii</i>	large monkeyflower							✓					✓
PINACEAE Pine													
<i>Abies concolor</i>	white fir												✓
<i>Pinus albicaulis</i>	whitebark pine							✓					✓
<i>Pinus contorta</i> ssp. <i>murayana</i>	Sierra lodgepole pine							✓	✓	✓	✓	✓	✓
<i>Pinus coulteri</i>	Coulter pine		✓										
<i>Pinus flexilis</i>	limber pine						✓	✓	✓				✓
<i>Pinus jeffreyi</i>	Jeffrey pine							✓	✓	✓	✓		✓
<i>Pinus longava</i>	bristlecone pine						✓						
<i>Pinus monophylla</i>	one-leaved pinon		✓	✓		✓		✓	✓	✓	✓		✓
<i>Pinus monticola</i>	western white pine												✓
<i>Tsuga mertensiana</i>	mountain hemlock												✓
PLANTAGINACEAE Plantain													
<i>Anthriscum kingii</i>	least snopdagon	✓	✓				✓						
<i>Callitriche heterophylla</i> var. <i>bolanderi</i>	Bolander's water-starwort												✓
<i>Callitriche palustris</i>	vernal water-starwort							✓					
<i>Collinsia parviflora</i>	maiden blue-eyed Mary							✓	✓				✓
<i>Collinsia toreyi</i>	Torey's blue-eyed Mary							✓					
<i>Hippuris vulgaris</i>	common mare's-tail												✓
<i>Kockiella rottrockii</i> var. <i>rottrockii</i>	beckskin keckiella						✓						
<i>Penstemon davidsonii</i> var. <i>davidsonii</i>	Davidson's penstemon							✓					✓
<i>Penstemon floidus</i> var. <i>auslinii</i>	Austin penstemon			✓									
<i>Penstemon floidus</i> var. <i>floidus</i>	rosy penstemon				✓	✓			✓				
<i>Penstemon fruticiformis</i>	Death Valley beardtongue			✓									
<i>Penstemon heterodoxus</i>	whorled penstemon						✓	✓					✓
<i>Penstemon humilis</i> var. <i>humilis</i>	low beardtongue												✓
<i>Penstemon incurtus</i>	western desert penstemon		✓										
<i>Penstemon monoensis</i>	Mono penstemon							✓					

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<i>Penstemon newberryi</i> var. <i>newberryi</i>	mountain pride							✓					✓
<i>Penstemon papillatus</i>	Inyo beardtongue							✓	✓				
<i>Penstemon patens</i>	Owens Valley penstemon			✓	✓			✓					
<i>Penstemon procerus</i> var. <i>fomiosus</i>	pincushion penstemon									✓			
<i>Penstemon roezlii</i>	Roez's penstemon									✓			
<i>Penstemon rostriflorus</i>	bridge penstemon							✓	✓			✓	✓
<i>Penstemon rydbergii</i> var. <i>oreochlois</i>	meadow penstemon							✓		✓		✓	✓
<i>Penstemon scapooides</i>	Westgard penstemon				✓								
<i>Penstemon speciosus</i>	showy penstemon							✓	✓		✓	✓	✓
* <i>Plantago lanceolata</i>	English plantain											✓	
* <i>Plantago major</i>	common plantain	✓				✓							
<i>Veronica americana</i>	American brooklime	✓						✓					✓
<i>Veronica peregrina</i> ssp. <i>zalapensis</i>	hairy purstane speedwell												✓
<i>Veronica serpyllifolia</i> ssp. <i>humifusa</i>	brightblue speedwell											✓	✓
<i>Veronica wormsköldii</i>	alpine veronica							✓				✓	
POACEAE	Grass												
* <i>Agropyron cristatum</i> ssp. <i>pectinatum</i>	desert wheatgrass												✓
<i>Agrostis exarata</i>	spike bentgrass						✓			✓		✓	
<i>Agrostis humilis</i>	alpine bentgrass												✓
<i>Agrostis idahoensis</i>	Idaho bentgrass							✓					✓
<i>Agrostis pallens</i>	swashore bentgrass							✓					
<i>Agrostis scabra</i>	rough bentgrass	✓						✓		✓	✓	✓	
* <i>Agrostis stolonifera</i>	redtop bentgrass						✓						✓
<i>Agrostis variabilis</i>	mountain bentgrass							✓					
<i>Alopecurus aequalis</i> var. <i>aequalis</i>	shortawn foxtail									✓	✓	✓	
<i>Aristida purpurea</i> var. <i>fendleriana</i>	Fender three-awn						✓						
<i>Aristida</i> spp.	three-awn	✓											
<i>Bromus berterianus</i>	Chilean chess						✓						
<i>Bromus cernuus</i>	mountain brome						✓		✓	✓		✓	
<i>Bromus ciliatus</i>	tinged brome							✓					
* <i>Bromus diandrus</i>	ripgut grass					✓							
* <i>Bromus madritensis</i> ssp. <i>rubens</i>	red brome	✓		✓	✓	✓							
<i>Bromus porteri</i>	nodding brome												✓
<i>Bromus suksdorfii</i>	Suksdorf's brome							✓					✓
* <i>Bromus tectorum</i>	cheat grass	✓		✓	✓	✓	✓	✓	✓	✓	✓	✓	
<i>Calamagrostis breweri</i>	shortbar reedgrass							✓					✓
<i>Calamagrostis canadensis</i>	bluejoint							✓		✓	✓	✓	
<i>Calamagrostis purpurascens</i>	purple reedgrass							✓					
<i>Calamagrostis stricta</i>	slimstem reedgrass												✓
* <i>Cynodon dactylon</i>	Bermuda grass						✓						
<i>Danthonia intermedia</i> ssp. <i>intermedia</i>	timber oatgrass							✓					✓
<i>Deschampsia cespitosa</i>	tufted hairgrass							✓					✓
<i>Deschampsia danthonioides</i>	annual hairgrass												✓
<i>Deschampsia elongata</i>	slender hairgrass												✓
<i>Dichelis spicata</i>	saltgrass	✓					✓		✓				✓
* <i>Echinochloa crus-galli</i>	barnyard grass						✓						
<i>Elymus cinereus</i>	Great Basin wildrye	✓				✓	✓	✓	✓	✓			✓

Scientific Name	Common Name	Fossil Falls	Alabama Hills	Mazourka Canyon	Dry & Oak Creeks	White Mountains	Fish Slough	Rock Creek	Melona Creek	Parker Bench	East Mono Basin	Toga Pass	Bodie Hills
<i>Elymus elymoides</i>	squaretail				✓	✓	✓	✓	✓	✓	✓	✓	✓
<i>Elymus glaucus</i> ssp. <i>glaucus</i>	blue wildrye							✓	✓				
<i>Elymus lanceolatus</i> ssp. <i>lanceolatus</i>	tickspeke wheatgrass												✓
<i>Elymus salina</i>	Salina pass wildrye						✓						
<i>Elymus spicatus</i>	bluebunch wheatgrass									✓			
<i>Elymus stebbinsii</i>	Parish wheatgrass												✓
<i>Elymus trachycaulis</i> ssp. <i>trachycaulis</i>	slender wheatgrass							✓			✓	✓	✓
<i>Elymus triticoides</i> ssp. <i>triticoides</i>	creeping wildrye				✓	✓					✓		✓
<i>Festuca brachyphylla</i> ssp. <i>breviculmis</i>	Colorado fescue							✓					
<i>Festuca kingii</i>	spike fescue												✓
<i>Festuca microstachys</i>	small fescue									✓			
<i>Festuca minutiflora</i>	smallflower fescue												✓
<i>Festuca octiflora</i>	six-weeks fescue	✓					✓						
* <i>Festuca perennis</i>	English ryegrass	✓											
* <i>Festuca pratensis</i>	meadow fescue									✓			
<i>Festuca saximontana</i>	Rocky Mountain fescue											✓	✓
<i>Festuca</i> spp.	fescue				✓								
<i>Hilaria jamesii</i>	James galleta						✓	✓					
<i>Hordeum brachyantherum</i>	meadow barley							✓					✓
<i>Hordeum jubatum</i> ssp. <i>jubatum</i>	foxtail barley							✓	✓				
* <i>Hordeum murinum</i> ssp. <i>leporinum</i>	hare barley								✓				
* <i>Hordeum vulgare</i>	common barley								✓				
<i>Koeleria macrantha</i>	prairie junegrass								✓				✓
<i>Melica bulbosa</i>	oniongrass								✓				✓
<i>Melica stricta</i>	rock melic								✓	✓	✓		✓
<i>Muhlenbergia asperifolia</i>	scratchgrass	✓					✓						✓
<i>Muhlenbergia filiformis</i>	pull-up muhly							✓					✓
<i>Muhlenbergia minutissima</i>	annual muhly									✓			
<i>Muhlenbergia richardsonii</i>	mat muhly							✓				✓	✓
<i>Panicum capillare</i>	witchgrass								✓				
<i>Paspalum distichum</i>	knolgrass								✓				
* <i>Phalaris aquatica</i>	bulbous canarygrass								✓				
<i>Phleum alpinum</i>	alpine timothy								✓				✓
* <i>Phleum pratense</i>	common timothy												✓
<i>Phragmites australis</i>	common reed												✓
<i>Poa bolanderi</i>	Bolander's bluegrass												✓
<i>Poa cusickii</i>	mutton grass												✓
<i>Poa cusickii</i> ssp. <i>epilis</i>	mutton grass								✓				
<i>Poa fendleriana</i> ssp. <i>longiligata</i>	mutton grass												✓
<i>Poa keckii</i>	Keck's bluegrass												✓
<i>Poa leptocoma</i> ssp. <i>leptocoma</i>	marsh bluegrass												✓
* <i>Poa palustris</i>	lowland bluegrass									✓			✓
* <i>Poa pratensis</i> ssp. <i>pratensis</i>	Kentucky bluegrass								✓				✓
<i>Poa secunda</i>	varied bluegrass	✓		✓	✓			✓					✓
<i>Poa secunda</i> ssp. <i>juncea</i>	varied bluegrass							✓					✓
<i>Poa wheeleri</i>	Wheeler's bluegrass								✓				✓
<i>Poa</i> spp.	bluegrass								✓				✓

Scientific Name	Common Name	Fossil Falls	Alabama Hills	Mazourek's Canyon	Dix & Oak Creeks	White Mountains	Fish Slough	Rock Creek	Mudcreeper Creek	Parker Bench	East Mono Basin	Trogo Pass	Bodie Hills
*Polypogon monspeliensis	rabbitfoot grass						✓						✓
*Polypogon vavilovii	water bentgrass						✓						
*Puccinellia distans	weeping alkali grass												✓
Puccinellia lemmonii	Lemmon's alkali grass						✓						✓
*Schismus arabicus	Arabian schismus						✓						
Spartina gracilis	alkali cordgrass						✓						
Sphenopholis obtusata	prairie wedgescale												✓
Sporobolus airoides	alkali sacaton	✓					✓						
Stipa comata	needle-and-thread grass				✓			✓	✓	✓			
Stipa hymenoides	Indian ricegrass	✓		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Stipa kingii	Sierra false needlegrass						✓						✓
Stipa nelsonii var. dorei	Dore's needlegrass						✓						✓
Stipa nevadensis	Nevada needlegrass								✓				✓
Stipa occidentalis	western needlegrass				✓		✓	✓	✓	✓	✓	✓	✓
Stipa occidentalis var. californica	California needlegrass									✓			
Stipa occidentalis var. occidentalis	western needlegrass												✓
Stipa occidentalis var. pubescens	pubescent western needlegrass									✓			
Stipa pectinorum	pine needlegrass				✓								✓
Stipa speciosa	desert needlegrass	✓		✓	✓	✓							
Stipa thurberiana	Thurber's needlegrass							✓		✓			✓
Stipa webberi	Webber needlegrass												✓
Taraxacochloa pallida var. pauciflora	pale false mannagrass						✓						
Trisetum spicatum	spike trisetum						✓					✓	✓
Trisetum vavilovii	Wolf's trisetum						✓						✓
POLEMONIACEAE Phlox													
Aliciaea latifolia ssp. latifolia	broad-leaved gilia	✓	✓										
Aliciaea leptomeria	sand gilia					✓			✓	✓			
Aliciaea micromeria	dainty gilia					✓							✓
Allophyllum glaberrimum ssp. violaceum	dense-flowered allophyllum	✓							✓				
Colomia linearis	lily trumpet						✓						✓
Colomia tinctoria	staining colomia					✓							
Eriastrum densifolium ssp. mohavense	heavenly blue	✓											
Eriastrum wilcoxi	Wilcox woolly star					✓	✓	✓	✓	✓	✓	✓	✓
Eriastrum spp.	woolly star				✓	✓							
Gilia breccianum	Great Basin gilia				✓								
Gilia breccianum ssp. neglecta	Great Basin gilia	✓							✓				
Gilia cana	showy gilia				✓								
Gilia cana ssp. trireps	showy gilia	✓	✓										
Gilia latifolia ssp. elongata	fragrant gilia	✓											
Gilia modocensis	Modoc gilia	✓											
Gilia ochroleuca	volcanic pale gilia	✓											
Gilia sinuata	cinder gilia	✓	✓	✓		✓							✓
Gilia stellata	star gilia	✓	✓										
Gilia spp.	gilia				✓								
Gymnoscleria parvula	smallflower gymnoscleria												✓
Ipomopsis aggregata	scarlet gilia							✓	✓	✓	✓	✓	✓
Ipomopsis congesta ssp. montana	white globe-gilia				✓								✓

Scientific Name	Common Name	Fossil Falls	Alabama Hills	Mazourek's Canyon	Dix & Oak Creeks	White Mountains	Fish Slough	Rock Creek	Mudcreeper Creek	Parker Bench	East Mono Basin	Trogo Pass	Bodie Hills
Ipomopsis polydora	spreading gilia			✓									
Langloisia setosissima	bristly langloisia	✓				✓							
Langloisia setosissima ssp. punctata	llac sunbonnet		✓	✓									
Leptosiphon aureus	golden linanthus	✓											
Leptosiphon aureus ssp. aureus	golden linanthus		✓										
Leptosiphon calvus	whisker-brush linanthus									✓			
Leptosiphon nuttallii ssp. pubescens	bushy linanthus					✓		✓	✓		✓		
Leptosiphon pachyphyllus	Sierra linanthus					✓		✓					✓
Leptosiphon septentrionalis	northern linanthus												✓
Linanthus arnicola	gypsum linanthus						✓						
Linanthus demissus	desert snow									✓			
Linanthus dichotomus ssp. dichotomus	evening snow		✓		✓	✓							
Linanthus inyoensis	Inyo gilia						✓						
Linanthus parryae	sand blossoms	✓		✓									
Linanthus pungens	prickly phlox	✓	✓		✓	✓	✓	✓	✓	✓	✓	✓	✓
Loeselastrium mathewsonii	desert calico	✓	✓			✓							
Loeselastrium schottii	Schott's calico					✓							
Microseris gracilis	slender phlox												✓
Navaretia breweri	yellow navaretia												✓
Phlox caespitosa	carpet phlox							✓					
Phlox condensata	Coville's phlox					✓						✓	✓
Phlox diffusa	spreading phlox									✓			✓
Phlox hoodii ssp. canescens	Hood's phlox												✓
Phlox stansburyi	Stansbury phlox					✓		✓	✓	✓			
Phlox stansburyi ssp. superba	cold-desert phlox			✓									
Polemonium occidentale ssp. occidentale	great polemonium							✓					
POLYGONACEAE Buckwheat													
Bistorta bistortoides	dirty socks												✓
Centrostegia thurberi	red triangles		✓	✓			✓						
Chorizanthe brevicornu	brittle spinnelower	✓	✓			✓	✓						
Chorizanthe brevicornu var. spatulata	mountain brittle chorizanthe												✓
Chorizanthe rigida	rosy-thorn		✓	✓			✓			✓			
Chorizanthe watsonei	Watson chorizanthe						✓		✓				
Eriogonum ampullaceum	Mono buckwheat									✓			
Eriogonum angulosum	angle-stemmed buckwheat		✓										
Eriogonum baileyi var. baileyi	Bailey buckwheat									✓	✓	✓	✓
Eriogonum brachyanthum	yellow buckwheat		✓										
Eriogonum brachypodium	glandular skeleton weed		✓	✓									
Eriogonum caespitosum	matted buckwheat					✓						✓	✓
Eriogonum davidsonii	Davidson's buckwheat										✓		
Eriogonum deflexum	skeleton weed					✓							
Eriogonum deflexum var. deflexum	skeleton weed			✓									
Eriogonum deflexum var. nevadense	Nevada buckwheat						✓						
Eriogonum elatum	tall eriogonum							✓	✓	✓			✓
Eriogonum esmeraldense var. esmeraldense	Esmeralda buckwheat					✓					✓		✓

Scientific Name	Common Name	Fossil Falls	Alabama Hills	Massawicka Canyon	Div & Oak Creeks	White Mountains	Fish Slough	Rock Creek	McGee Creek	Parker Bench	East Mono Basin	Tringa Pass	Bozette Hills
<i>Eriogonum fasciculatum</i> var. <i>polifolium</i>	California buckwheat	✓	✓	✓									✓
<i>Eriogonum gracitipes</i>	raspberry buckwheat				✓								
<i>Eriogonum heermannii</i>	Heerman buckwheat		✓										
<i>Eriogonum heermannii</i> var. <i>humilis</i>	common Heermann buckwheat			✓									
<i>Eriogonum incanum</i>	frosty eriogonum							✓					✓
<i>Eriogonum inflatum</i>	desert trumpet	✓	✓	✓	✓	✓							
<i>Eriogonum kennedyi</i> var. <i>purpureum</i>	Kennedy buckwheat				✓								
<i>Eriogonum lobbi</i>	Lobb's buckwheat							✓					
<i>Eriogonum maculatum</i>	spotted buckwheat	✓	✓		✓	✓							
<i>Eriogonum manifolium</i> var. <i>manifolium</i>	marum-leaved eriogonum							✓					
<i>Eriogonum microthecum</i>	slender buckwheat							✓	✓		✓		
<i>Eriogonum microthecum</i> var. <i>ambiguum</i>	slender buckwheat												✓
<i>Eriogonum microthecum</i> var. <i>taxifolium</i>	slender buckwheat												✓
<i>Eriogonum mohavense</i>	Mojave buckwheat		✓										
<i>Eriogonum nidiflorum</i>	bird's-nest buckwheat	✓	✓	✓	✓	✓							
<i>Eriogonum nudum</i>	nude buckwheat										✓	✓	
<i>Eriogonum nudum</i> var. <i>deductum</i>	nude buckwheat							✓			✓	✓	
<i>Eriogonum nudum</i> var. <i>scapigerum</i>	nude buckwheat							✓					
<i>Eriogonum nudum</i> var. <i>westonii</i>	nude buckwheat		✓										
<i>Eriogonum nummularie</i>	Kearney buckwheat		✓		✓	✓							
<i>Eriogonum nutans</i>	dagway buckwheat												✓
<i>Eriogonum ovalifolium</i>	cushion buckwheat												✓
<i>Eriogonum ovalifolium</i> var. <i>nivale</i>	cushion buckwheat				✓								✓
<i>Eriogonum ovalifolium</i> var. <i>ovalifolium</i>	cushion buckwheat							✓					✓
<i>Eriogonum ovalifolium</i> var. <i>purpureum</i>	cushion buckwheat							✓					
<i>Eriogonum pusillum</i>	yellow turbars	✓	✓		✓								
<i>Eriogonum rufordii</i>	pagoda buckwheat		✓										
<i>Eriogonum roseum</i> var. <i>roseum</i>	rosy buckwheat				✓		✓						✓
<i>Eriogonum spergulinum</i>	spurry eriogonum						✓		✓				
<i>Eriogonum spergulinum</i> var. <i>reddingianum</i>	Redding buckwheat									✓			✓
<i>Eriogonum strictum</i> var. <i>proliforum</i>	proliferous wild buckwheat												✓
<i>Eriogonum titchopes</i>	little trumpet	✓	✓										
<i>Eriogonum umbellatum</i>	sulfur-flower			✓	✓	✓	✓	✓	✓		✓	✓	
<i>Eriogonum umbellatum</i> var. <i>dichrocephalum</i>	sulfur-flower			✓									
<i>Eriogonum umbellatum</i> var. <i>nevadense</i>	sulfur-flower									✓			
<i>Eriogonum wrightii</i> var. <i>subscaposum</i>	common Wright buckwheat		✓										✓
<i>Eriogonum</i> spp.	buckwheat			✓									
<i>Goodmania tuberosa</i>	yellow spinecane				✓								
<i>Oxyria digyna</i>	mountain sorrel						✓						✓
<i>Oxytheca dendroica</i> ssp. <i>dendroica</i>	fine oxytheca									✓			✓
<i>Oxytheca perfoliata</i>	saucer plant	✓	✓		✓								

Scientific Name	Common Name	Fossil Falls	Alabama Hills	Massawicka Canyon	Div & Oak Creeks	White Mountains	Fish Slough	Rock Creek	McGee Creek	Parker Bench	East Mono Basin	Tringa Pass	Bozette Hills
<i>Pericaria amphibia</i>	water smartweed												✓
<i>Pericaria lapathifolia</i>	curlytop knotweed						✓						
<i>Pericaria maculosa</i>	lady's thumb		✓				✓						
<i>Pericaria punctata</i>	dotted smartweed						✓						
<i>Polygonum aviculare</i> ssp. <i>depressum</i>	oval-leaf knotweed												✓
<i>Polygonum douglasii</i>	Douglas' knotweed							✓				✓	
<i>Polygonum minimum</i>	broadleaf knotweed											✓	
<i>Polygonum polygaloides</i>	milkwort knotweed							✓					
<i>Polygonum polygaloides</i> ssp. <i>kollogii</i>	Kollogg's knotweed												✓
<i>Polygonum saratchense</i> ssp. <i>saratchense</i>	Johnston's knotweed												✓
<i>Pterostegia drymanoides</i>	valentine plant	✓	✓										
<i>Rumex californicus</i>	toothed willow dock									✓			✓
<i>Rumex crispus</i>	curly dock		✓				✓						
<i>Rumex hesperis</i>	golden dock						✓						
<i>Rumex pauciflorus</i>	alpine sheep sorrel							✓				✓	✓
<i>Rumex salicifolius</i>	willow dock							✓					
<i>Rumex triangulivalvis</i>	Sierra dock												✓
POTAMOGETONACEAE													
<i>Potamogeton foliosus</i>	hoary pondweed						✓						
<i>Potamogeton gramineus</i>	variableleaf pondweed												✓
<i>Potamogeton ilinoensis</i>	Illinois pondweed						✓						
<i>Stuckenia pectinata</i>	sago pondweed	✓						✓					
<i>Stuckenia stibila</i>	Nevada pondweed							✓					
PRIMULACEAE													
<i>Docscalthoon alpinum</i>	alpine shooting star							✓					✓
<i>Docscalthoon pulchellum</i>	alkali shooting star						✓						
PTERIDACEAE													
<i>Adiantum aleuticum</i>	Aleutian maidenhair							✓					
<i>Chelanthus covillei</i>	Coville lip fern		✓										
<i>Chelanthus parryi</i>	Parry's lipfern		✓										
<i>Cryptogramma acrostichoides</i>	American rockbrake							✓					✓
<i>Cryptogramma cascadenis</i>	Cascade rockbrake												✓
<i>Pellaea breweri</i>	Brewer's cliffbrake							✓					✓
<i>Pellaea beigelii</i>	Bridges' cliffbrake							✓					✓
<i>Pellaea mucronata</i> var. <i>californica</i>	bird's-foot fern		✓										
<i>Pentagramma triangularis</i> ssp. <i>triangularis</i>	goldback fern		✓										
RANUNCULACEAE													
<i>Aconitum columbianum</i> ssp. <i>columbianum</i>	monkshood							✓	✓	✓		✓	✓
<i>Actaea rubra</i>	westernbaneberry							✓					
<i>Aquilegia formosa</i>	crimson columbine		✓				✓	✓	✓			✓	✓
<i>Aquilegia pubescens</i>	alpine columbine							✓					✓

Scientific Name	Common Name	Fossil Falls	Alabama Hills	Mazourka Canyon	Dir. & Oak Creeks	White Mountains	Fish Slough	Rock Creek	McGee Creek	Parker Bench	East Mono Basin	Troge Pass	Bodie Hills
<i>Aquilegia shockleyi</i>	Mojave columbine		✓										
<i>Clematis ligusticifolia</i>	virgin's bower	✓											
<i>Delphinium andersonii</i>	Anderson's larkspur								✓				✓
<i>Delphinium glaucum</i>	glaucus larkspur												✓
<i>Delphinium gracilentum</i>	pine forest larkspur							✓					
<i>Delphinium parishii</i> ssp. <i>parishii</i>	desert larkspur	✓	✓	✓	✓	✓	✓						
<i>Delphinium polydacton</i>	mountain marsh larkspur							✓					
<i>Myosurus minimus</i>	tiny mouse-tail												✓
<i>Ranunculus alsinifolius</i> var. <i>alsinifolius</i>	water-plantain buttercup											✓	
<i>Ranunculus aquatilis</i>	water buttercup							✓					
<i>Ranunculus aquatilis</i> var. <i>diffusus</i>	aquatic buttercup	✓				✓							✓
<i>Ranunculus cymbalaria</i>	desert buttercup	✓	✓			✓							✓
<i>Ranunculus eschscholtzii</i>	alpine buttercup							✓					✓
<i>Thalictrum alpinum</i>	alpine meadow-rue							✓					
<i>Thalictrum fendleri</i>	Fendler's meadow-rue								✓	✓			✓
<i>Thalictrum sparsiflorum</i>	few-flowered meadow-rue							✓					
RHAMNACEAE		Buckthorn											
<i>Ceanothus cordatus</i>	snow bush												✓
<i>Ceanothus velutinus</i>	tobacco brush								✓		✓		✓
<i>Ceanothus vestitus</i>	desert ceanothus			✓									
<i>Frangula californica</i>	California buckthorn			✓									
<i>Frangula californica</i> ssp. <i>cuspidata</i>	California buckthorn	✓											
ROSACEAE		Rose											
<i>Amandancher alnifolia</i> var. <i>pumila</i>	Saskatoon serviceberry							✓					
<i>Amandancher utahensis</i>	Utah serviceberry							✓			✓		✓
<i>Cercocarpus ledifolius</i>	mountain mahogany			✓			✓	✓	✓		✓		✓
<i>Cercocarpus ledifolius</i> var. <i>intermontanus</i>	mountain mahogany		✓										
<i>Cercocarpus ledifolius</i> var. <i>intriticatus</i>	little-leaf mahogany					✓							
<i>Chamaebatiaria millefolium</i>	desert-sweet	✓			✓		✓	✓					✓
<i>Coleogyne ramosissima</i>	blackbrush	✓		✓									
<i>Dasiphora fruticosa</i>	bush cinquefoil							✓				✓	✓
<i>Dryocalis glandulosa</i>	sticky cinquefoil							✓					✓
<i>Dryocalis glandulosa</i> var. <i>reflexa</i>	sticky cinquefoil											✓	
<i>Dryocalis lactea</i> var. <i>lactea</i>	Nevada cinquefoil												✓
<i>Fragaria virginiana</i>	mountain strawberry							✓					✓
<i>Geum macrophyllum</i>	large-leaf avens							✓		✓	✓		✓
<i>Holodiscus discolor</i>	creambush							✓					✓
<i>Holodiscus discolor</i> var. <i>microphyllum</i>	creambush								✓				✓
<i>Horkelia fusca</i> var. <i>parviflora</i>	smallflower horkelia												✓
<i>Horkeliella congdonii</i>	Congdon's false horkelia							✓		✓	✓		✓
<i>Ivesia gordonii</i>	Gordon's ivesia							✓					
<i>Ivesia kingii</i> var. <i>kingii</i>	alkali ivesia					✓							
<i>Ivesia hypopodioides</i> var. <i>megalo-petala</i>	club-moss ivesia							✓					
<i>Ivesia hypopodioides</i> var. <i>scandularis</i>	club-moss ivesia							✓					

Scientific Name	Common Name	Fossil Falls	Alabama Hills	Mazourka Canyon	Dir. & Oak Creeks	White Mountains	Fish Slough	Rock Creek	McGee Creek	Parker Bench	East Mono Basin	Troge Pass	Bodie Hills
<i>Ivesia shockleyi</i> var. <i>shockleyi</i>	sky mouse-tail					✓							
<i>Peraphyllum ramosissimum</i>	wild crab apple					✓							
<i>Polyphyllum caespitosum</i> ssp. <i>caespitosum</i>	rock spirea					✓							
<i>Potentilla anserina</i> ssp. <i>anserina</i>	silverweed cinquefoil											✓	✓
<i>Potentilla biennis</i>	biennial cinquefoil	✓								✓			✓
<i>Potentilla breweri</i>	alpine Drummond's cinquefoil												✓
<i>Potentilla drummondii</i>	Drummond's cinquefoil							✓				✓	
<i>Potentilla flabellifolia</i>	fanleaf cinquefoil							✓					✓
<i>Potentilla glaucophylla</i> var. <i>glaucophylla</i>	varleaf cinquefoil							✓					✓
<i>Potentilla gracilis</i>	five-finger cinquefoil												✓
<i>Potentilla gracilis</i> var. <i>elmeri</i>	combleaf cinquefoil	✓					✓	✓					
<i>Potentilla gracilis</i> var. <i>fastigiata</i>	slender cinquefoil							✓					✓
<i>Potentilla millefolia</i>	cutleaf cinquefoil												✓
<i>Potentilla pennsylvanica</i>	Pennsylvania cinquefoil							✓					
<i>Prunus andersonii</i>	desert peach	✓	✓	✓	✓	✓	✓	✓	✓				✓
<i>Prunus emarginata</i>	bitter cherry								✓		✓		✓
<i>Prunus fasciculata</i>	desert almond			✓									
<i>Prunus virginiana</i> var. <i>demissa</i>	western chokecherry												✓
<i>Purshia stansburyana</i>	cliff rose					✓							
<i>Purshia tridentata</i>	bitterbrush							✓	✓	✓	✓		✓
<i>Purshia tridentata</i> var. <i>glandulosa</i>	desert bitterbrush	✓		✓	✓	✓							
<i>Purshia tridentata</i> var. <i>tridentata</i>	antelope bitterbrush					✓							
<i>Rosa woodii</i>	wild rose	✓	✓	✓	✓	✓	✓	✓	✓				✓
<i>Rosa woodii</i> ssp. <i>gracissima</i>	wild rose	✓											
<i>Sibbaldia procumbens</i>	sibbaldia							✓					✓
<i>Sorbus californica</i>	California mountain ash							✓					
<i>Spiraea splendens</i>	mountain spiraea							✓					✓
RUBIACEAE		Madder											
<i>Galium biflorum</i>	two-leaved bedstraw												✓
<i>Galium hypoleichium</i>	alpine bedstraw							✓					
<i>Galium hypoleichium</i> ssp. <i>hypoleichium</i>	alpine bedstraw								✓				✓
<i>Galium matthewsii</i>	bushy bedstraw	✓											
<i>Galium multiflorum</i>	shrubby bedstraw							✓	✓			✓	
<i>Galium trifidum</i>	three-petal bedstraw												✓
<i>Galium trifidum</i> ssp. <i>columbianum</i>	three-petal bedstraw												✓
<i>Galium trifidum</i> ssp. <i>subflorum</i>	three-petal bedstraw							✓					
<i>Galium</i> spp.	bedstraw					✓				✓	✓		
<i>Kolloggia galicoides</i>	milk kolloggia							✓					
RUPPIACEAE		Ditch-grass											
<i>Ruppia cinctosa</i>	ditch-grass	✓						✓					
RUSCACEAE		Lily of the Valley											
<i>Maianthemum racemosum</i>	branched Solomon's seal									✓			
<i>Maianthemum stellatum</i>	star-flower	✓				✓	✓	✓	✓				

Resources and Suggested Reading

Plants

The Bristlecone Book: A Natural History of the World's Oldest Trees
Ronald M. Lanner
Mountain Press Publishing Company, 2007

Cacti, Agaves, and Yuccas of California and Nevada
Stephen Ingram
Cachuma Press, 2008

Mojave Desert Wildflowers: A Field Guide to Wildflowers, Trees, and Shrubs of the Mojave Desert, Including the Mojave National Preserve, Death Valley National Park, and Joshua Tree National Park
Pam MacKay
Falcon Press Publishing, 2003

Sagebrush Country: A Wildflower Sanctuary
Ronald J. Taylor
Mountain Press Publishing Company, 1992

Shrubs of the Great Basin: A Natural History
Hugh N. Mozingo
University of Nevada Press, 1987

Trees of the Great Basin: A Natural History
Ronald M. Lanner
University of Nevada Press, 1984

Wildflowers of the Eastern Sierra and Adjoining Mojave Desert and Great Basin
Laird R. Blackwell
Lone Pine Publishing, 2002

Natural History: General

California's Eastern Sierra: A Visitor's Guide
Sue Irwin
Cachuma Press, 1992

Deepest Valley: Guide to Owens Valley, Its Roadsides and Mountain Trails
2nd edition
Edited by Jeff Putman and Genny Smith
Spellbinder Books, 1995

Laws Field Guide to the Sierra Nevada
John Muir Laws
Heyday Books, 2007

Credits

The following agencies and organizations have contributed to the development, production, and/or distribution of this guide:



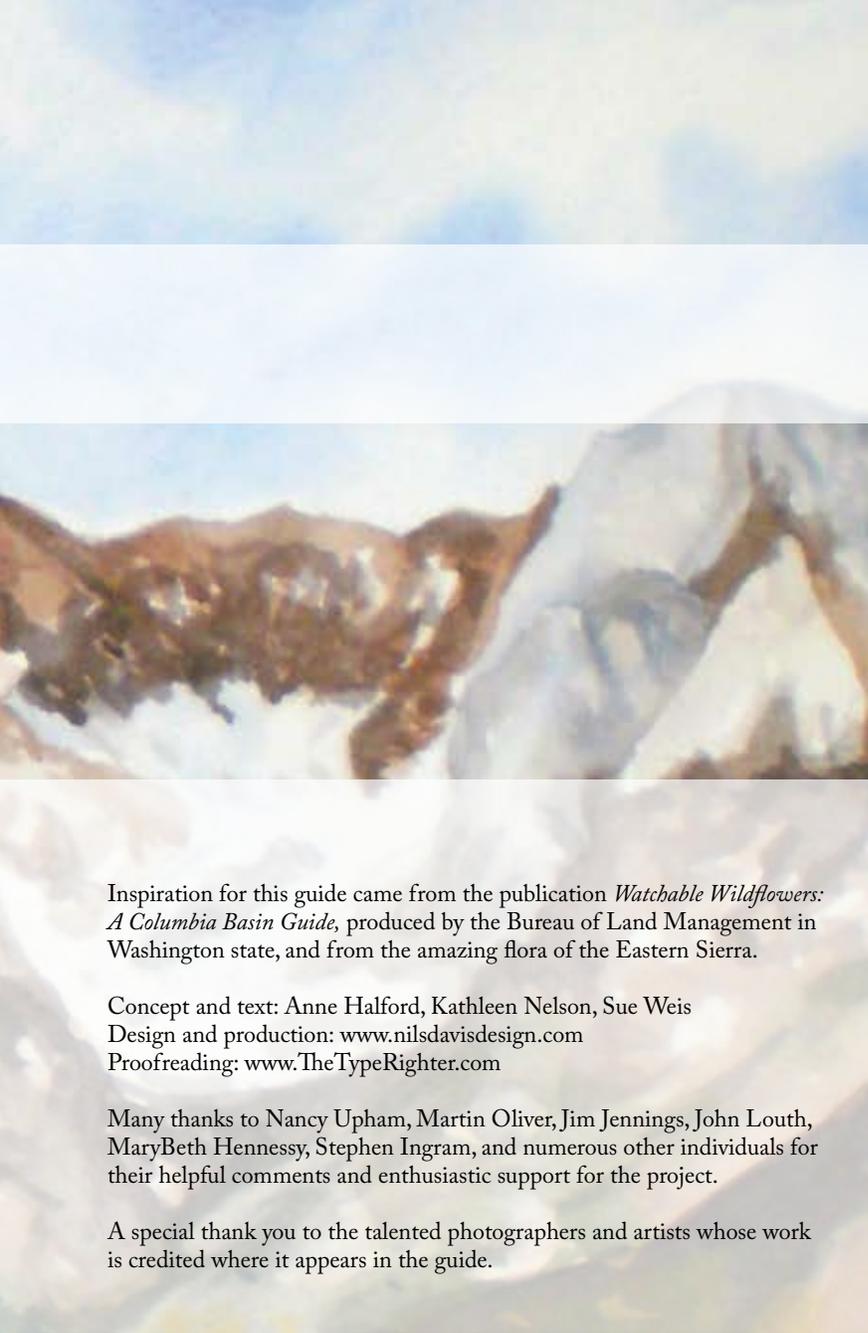
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BRISTLECONE CHAPTER



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Natural History: General (cont.)

Mammoth Lakes Sierra: A Handbook for Roadside and Trail

7th ed., revised
Edited by Genny Smith
Genny Smith Books, 2006

Natural History of the White-Inyo Range, Eastern California

Edited by Clarence A. Hall, Jr.
University of California Press, 1991

Sierra East: Edge of the Great Basin

Edited by Genny Smith
University of California Press, 2003

Geology

Geology Underfoot in Death Valley and Owens Valley

Robert P. Sharp and Allen F. Glazner
Mountain Press Publishing Company, 1997

Guidebook to the Geology of a Portion of the Eastern Sierra Nevada, Owens Valley, and White-Inyo Range

Clemens Arvid Nelson
UCLA Dept. of Earth and Space Sciences, 1980

Roadside Geology of the Eastern Sierra Region: Bodie, Mono Lake, Yosemite, June Lake, Devil's Postpile, Convict Lake, White Mountains

Geological Society of the Oregon Country, 1982

Native American

Myths of the Owens Valley Paiute

Julian H. Steward
Kessinger Publishing, 2007

Weaving a Legacy: Indian Baskets and the People of Owens Valley, California

Sharon E. Dean et al.
The University of Utah Press, 2004

Survival Arts of the Primitive Paiutes

Margaret M. Wheat
University of Nevada Press, 1967

Find guides and references in Visitor Centers and bookstores throughout the Eastern Sierra.



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