

Vascular Plants of the San Francisco Peaks Area

A Field Guide



Deaver Herbarium Staff
Northern Arizona University

Third Edition
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Locations included in the area:

Bismarck Lake
Buffalo Park
Dry Lake Hills
Fern Mountain
Fort Valley
Gus Pearson Research Natural Area
Hart Prairie
Hochderffer Hills
Inner Basin
Kendrick Park
Lockett Meadow
Mount Elden
Observatory Mesa
SFP Research Natural Area
Snow Bowl
Walker Lake
White Horse Hills

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Key and Descriptions of Life Zones (LZ)

- 1 High elevations ($\geq 11,500$ ft or 3,500 m) without trees > 3 ft (or 1 m) tall LZ 8, Alpine tundra
- 1 Lower elevations, or trees > 3 ft (1 m) tall are present... 2

- 2 Trees $<$ about 20 feet (6 m) tall... 3
- 2 Trees $>$ 20 feet (6 m) tall...4

- 3 Major trees are bristlecone and limber pines LZ 7, Hudsonian woodland
- 3 Major trees are pinyon pine or junipers..... LZ 5, U. Sonoran woodland

- 4 Tree *regeneration* includes Engelman spruce or
corkbark fir^a LZ 7, Spruce-Fir forest
- 4 No *regeneration* by above trees^b ... 5

- 5 Tree *regeneration* includes white fir, southwestern white pine, or Douglas-fir^a (D-fir) LZ 6, Mixed conifer forest
- 5 Tree *regeneration* is mostly ponderosa pine (some pinyon, southwestern white pine,
or Douglas-fir may be present LZ 5, Ponderosa pine forest

^aThe indicated trees must be present as seedlings or saplings

^bThe indicated trees are absent or minor compared to other tree regeneration

8 Alpine tundra is the most restricted environment in Arizona, and all of it occurs in the high Peaks (elevations above 11,500 ft). The tundra consists mostly of boulder fields, loose, gravelly talus, and rock outcrops whose fragmental soils support few plants. Well-developed soils are uncommon, but they feature a more diverse flora. The rarest of all tundra environments are snowfield **wetlands**. Tundra vegetation lacks taller statured trees but includes "trees" of shrubby or wind-deformed appearance (krummholz).

7 Spruce-Fir (S-F) forests are recognized by dominance or good regeneration from either or both of Engelman spruce (*Picea engelmannii*) and corkbark fir (*Abies arizonica*). At low elevations S-F forests can be confused when conifers of other life zones are also present as regeneration or overstory trees. However Engelman spruce and corkbark fir are still common as seedling or sapling trees. S-F forests can be either closed-canopied or open forests. Mostly at higher elevations, open forests have scattered trees or small copses within a more continuous herbaceous ground flora. These open forests are often described as "park-like".

Included within the S-F life zone are other important plant communities. **Aspen** deciduous forests are common at lower elevations. Aspen (*Populus tremuloides*) usually forms a closed-canopied forest, punctuated by overstory or regenerating conifers. Stands develop after hot forest fires kill most pre-existing conifers. Stems (known as ramets) spread by suckering from underground structures, and thus stands begin as clones (genetically identical stems) in patchy arrangement with other clones in the burned sites. Eventually conifers reseed themselves. As they grow and overtop the clones, the ramets die, but their underground structures remain alive within the now-coniferous forest, awaiting the next hot fire.

Parks are herbaceous openings lacking trees for the most part. The Inner Basin has extensive parks. Other examples include Aubineau Park on the north slope of Humphrey Peak and fescue meadows (dominated by *Festuca arizonica*) along upper reaches of the Weatherford trail.

High-elevation **woodlands** in the S-F life zone consist of trees less than 20 ft (8 m) tall at maturity. The principal trees are bristlecone and limber pines (*Pinus aristata* and *P. flexilis*). Woodland sites are typically windy and dry relative to sites of adjacent taller forests.

High-elevation **wetlands** contain plants depending on more site moisture than supplied by onsite precipitation alone. Typical sites receive growing season meltwater from snowfields above or water from adjoining springs or seeps. We use the term **drylands** for lands receiving soil water in the form of onsite precipitation only.

- 6 Mixed conifer (MC)** forests are identified by dominance or good regeneration from white fir (*Abies concolor*), Douglas-fir (*Pseudotsuga menziesii*), or southwestern white pine (*Pinus strobiformis*). Seedlings or saplings of Englemann spruce and/or corkbark fir are absent or minor (*i.e.* restricted to favorable microsites but otherwise absent or rare). At lower elevations or warmer sites MC forests can be confused with ponderosa pine (*Pinus ponderosa*) forests when this pine is common in the overstory. However, ponderosa pine is not regenerating well or is merely accidental in special sites, whereas white fir, Douglas-fir, or southwestern white pine remain common as understory seedlings or saplings. MC forests are usually close-canopied, but are also found as park-like forests.

Aspen deciduous forests occur throughout the MC lifezone. Their ecology is the same as described for the S-F life zone. **Parks** and **wetlands** are also found, but **woodlands** are rare because of lack of requisite exposed, dry sites at these mid-elevations. Wetlands contain many plants that would not otherwise occur in the San Francisco Peaks area. Important (for their plant diversity) wetlands and parks in the MC life zone include the upper reaches of Hart Prairie, Lockett Meadow, Bismarck and Walker Lakes, and the stock tanks at Schultz Pass.

- 5 Ponderosa pine** forests are either close-canopied or open and park-like. This forest is identified by absence or very minor occurrence of white fir and Douglas-fir either as regeneration or overstory trees. Ponderosa pine has numerous seedlings and saplings and/or pole-sized trees ("blackjacks") in closed canopy with or without larger and older yellow-barked trees ("yellow bellies" or "yellow pine") in park-like structure or mixed with blackjacks in dense stands. At higher elevations or cool, wet microsites Southwestern white pine may also occur with ponderosa pine. Such sites might also feature **aspen** deciduous forest, which is otherwise uncommon in this life zone.

At hot, droughty sites under 7,500 ft elevation at Dry Lake Hills and Mt Elden are **woodlands** of pinyon pine (*Pinus edulis*) and junipers (mainly *Juniperus deppeana*, *J. monosperma*). Common associated shrubs are mountain mahogany (*Cercocarpus montanus*), gambel oak (*Quercus gambelii*), and sumac (*Rhus trilobata*). **Parks**, both small and large in size, also occur in this life zone, and within these parks are **wetland** microsites such as stocktanks and small springs.

Special environments at Dry Lake Hills and Mt Elden are the dacite rock outcrops, cracks, and ledges that support a diverse fern flora and other plants found only at these microsites. There are also sites with cindery and calcareous soils supporting a distinctive flora.

revised February 4, 2005

Table 1. San Francisco Peaks Area - Major Environments

Life Zones (LZ) ^a : Merriam:	8 Alpine tundra Arctic	7 Spruce-Fir Hudsonian	6 Mixed conifer Canadian	5 Ponderosa Pine Transition
Deciduous forest,		aspen (warm sites)	aspen (common)	aspen (wet sites)
Parks, dry meadows, prairies, forest openings woodlands, Shrub thickets,		Inner Basin Fescue meadows Bristlecone pine ^b Willow thickets	UpperHart Prairie Fescue meadows Oldham Park Turkey Park Lockett Meadow Sunset Park	LowerHart Prairie Fescue meadows Kendrick Park Pinyon-Juniper ^b Juniper/mahogany ^b Shrubby cinquefoil
Wetlands,	melting snowfields	streamsides wet meadows springs & seeps melting snowfields	tanks ^c streamsides wet meadows springs & seeps Crater Lake Bismarck Lake	tanks ^c streamsides wet meadows springs & seeps upper Rio de Flag Walker Lake
Disturbed areas,		linear ^d patchy ^e avalanche tracks	linear patchy fire ^f	linear patchy fire
Special environments^a,	talus gravelly soils	talus gravelly soils rock cracks and ledges ^g	
				gravelly soils

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a- for descriptions see Terrestrial Ecosystems Survey of the Coconino National Forest (1995), 404 p, maps, A 13.43/2: C64/2

b- woodlands feature trees less than 20 ft (≈8 m) tall at maturity and are inclusions in the indicated LZs.

c- see Ricketson (1990).

d- road and trail sides, utility easements, pipelines, ski lifts.

e- prairie dogs, pocket gophers, and other-caused locally disturbed soils.

f- Hochderffer (1996), Radio (Mt Elden 1977), and smaller fires elsewhere.

g- primarily dacitic rock outcrops and boulders at Mount Elden and Dry Lake Hills.

Vascular Plant Families and Genera of the San Francisco Peaks Area

Symbol ¹	Family	Common		Symbol	Family	Common	
		Name	Genera			Name	Genera
ACE	Aceraceae	Maple	1	GER	Geraniaceae	Geranium	2
AGA	Agavaceae	Agave	1	GRS	Grossulariaceae	Gooseberry	1
ALI	Alismataceae	Water-plantain	1	HAL	Haloragaceae	Water-Milfoil	1
AMA	Amaranthaceae	Amaranth	1	HDC	Hydrocharitaceae	Frogbit	1
ANA	Anacardiaceae	Sumac	2	HDR	Hydrangeaceae	Hydrangea	1
API	Apiaceae	Carrot	7	HYD	Hydrophyllaceae	Waterleaf	2
APO	Apocynaceae	Dogbane	1	HYP	Hypericaceae	St. Johnswort	1
ASC	Asclepiadaceae	Milkweed	1	IRI	Iridaceae	Iris	2
AST	Asteraceae	Aster	62	JUG	Juglandaceae	Walnut	1
BER	Berberidaceae	Barberry	1	JUN	Junceaceae	Rush	2
BOR	Boraginaceae	Borage	8	LAM	Lamiaceae	Mint	11
BRA	Brassicaceae	Mustard	16	LIL	Liliaceae	Lily	6
CAC	Cactaceae	Cactus	3	LIN	Linaceae	Flax	1
CAM	Campanulaceae	Bellflower	2	LMN	Lemnaceae	Duckweed	1
CAN	Cannabaceae	Hops	2	LNT	Lentibulariaceae	Bladderwort	1
CPR	Caprifoliaceae	Honeysuckle	3	LOA	Loasaceae	Loasa	1
CAR	Caryophyllaceae	Pink	9	MLV	Malvaceae	Cotton/Mallow	3
CHN	Chenopodiaceae	Goosefoot	6	MNT	Monotropaceae	Pinesap	2
CLL	Callitrichaceae	Water-Starwort	1	NYC	Nyctaginaceae	Four O'Clock	1
CMM	Commelinaceae	Spiderwort	2	OLE	Oleaceae	Olive	1
CON	Convolvulaceae	Morning-Glory	2	ONA	Onagraceae	Evening Primrose	5
COR	Cornaceae	Dogwood	1	ORC	Orchidaceae	Orchid	4
CPP	Capparaceae	Caper	1	ORO	Orobanchaceae	Broom-Rape	1
CRS	Crassulaceae	Stonecrop	1	OXA	Oxalidaceae	Sorrel	1
CUC	Cucurbitaceae	Cucumber	1	PAP	Papaveraceae	Poppy	2
CUP	Cupressaceae	Cypress	1	PIN	Pinaceae	Pine	4
CYP	Cyperaceae	Sedge	4	PLG	Polygonaceae	Buckwheat	4
DPS	Dipsacaceae	Teasel	1	PLM	Polemoniaceae	Phlox	6
ELT	Elatinaceae	Waterwort	1	POA	Poaceae	Grass	38
ERI	Ericaceae	Heath	1	POR	Portulacaceae	Purslane	1
EUP	Euphorbiaceae	Spurge	2	POT	Potamogetonaceae	Pondweed	1
FAB	Fabaceae	Legume/Pea	17	PRI	Primulaceae	Primrose	2
FAG	Fagaceae	Oak	1	PTG	Plantaginaceae	Plantain	1
F-ASD	Aspidiaceae	Shield-fern	2	PYR	Pyrolaceae	Wintergreen	4
F-ASL	Aspleniaceae	Spleenwort	1	RAN	Ranunculaceae	Buttercup	9
F-ATY	Athyriaceae	Lady Fern	1	RHM	Rhamnaceae	Buckthorn	1
F-EQU	Equisetaceae	Horsetail	1	ROS	Rosaceae	Rose	16
F-HPL	Hypolepidaceae	Bracken Fern	1	RUB	Rubiaceae	Madder	3
F-MSL	Marsileaceae	Pepperwort	1	SAL	Salicaceae	Willow	2
F-OPH	Ophioglossaceae	Adder's Tongue	1	SAX	Saxifragaceae	Saxifrage	3
F-PLP	Polypodiaceae	Polypody Fern	1	SCR	Scrophulariaceae	Figwort	10
F-PTR	Pteridaceae	Goldback Fern	1	SOL	Solanaceae	Nightshade	4
F-SEL	Selaginellaceae	Little Club-Moss	1	TYP	Typhaceae	Cattail	1
F-SIN	Sinopteridaceae	Lip Fern	2	ULM	Ulmaceae	Elm	1
F-WDS	Woodsiaceae	Woodsia Fern	1	VAL	Valerianaceae	Valerian	1
FUM	Fumariaceae	Fumitory	1	VIO	Violaceae	Violet	1
GAR	Garryaceae	Silktassel	1	VIS	Viscaceae	Mistletoe	1
GEN	Gentianaceae	Gentian	3	VIT	Vitaceae	Grape	1
				VRB	Verbenaceae	Vervain	2
				TOTAL		97	355

¹F- refers to ferns and fern allies

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Vascular Plants of the San Francisco Peaks Area			Life Zone						
Family	Taxa	Synonymy	8	7	6	5	ME ¹	Wet	Adv ¹
ACE	<i>Acer glabrum</i> Torr.				√		√		
ACE	<i>Acer negundo</i> L.	<i>Acer negundo</i> var. <i>arizonicum</i> Sarg.				√	√		
AGA	<i>Agave parryi</i> Engelm.					√	√		
AGA	<i>Yucca baccata</i> Torrey	<i>Yucca vespertina</i> (McKelvy) Welsh				√	√		
ALI	<i>Alisma triviale</i> Pursh	<i>Alisma plantago-aquatica</i> L. var. <i>americanum</i> J.A. Schultes				√	√	√	
AMA	<i>Amaranthus albus</i> L.					√	√		w c
AMA	<i>Amaranthus powellii</i> S. Wats.	<i>A. retroflexus</i> L. var. <i>powellii</i> (S.Wats) Boivin		√	√	√	√		
ANA	<i>Rhus glabra</i> L.					√	√		
ANA	<i>Rhus aromatica</i> Ait. var. <i>simplicifolia</i> (Greene) Cronq.	<i>R. trilobata</i> Nutt. var. <i>simplicifolia</i> (Greene) Barkley				√	√		
ANA	<i>Rhus aromatica</i> Ait. var. <i>trilobata</i> (Nutt.) Gray	<i>R. trilobata</i> Nutt. ex T. & G., <i>R. trilobata</i> var. <i>anisophylla</i> Jepson				√	√		
ANA	<i>Toxicodendron rydbergii</i> (Small ex Rydberg) Greene	<i>Toxicodendron radicans</i> (L.) Kuntze				√	√		
API	<i>Conium maculatum</i> L.					√	√	√	w c
API	<i>Cymopterus fendleri</i> Gray					√			
API	<i>Lomatium nevadense</i> (Watson) C & R					√			
API	<i>Osmorhiza depauperata</i> Phil.	<i>Osmorhiza obtusa</i> (Coul. & Rose) Fernald		√	√				
API	<i>Pastinaca sativa</i> L.					√			w c
API	<i>Perideridia gairdneri</i> (Hook. & Arn.) Mathias					√			
API	<i>Perideridia parshii</i> (C & R) N & M					√	√	√	
API	<i>Pseudocymopterus montanus</i> (Gray) C & R		√	√	√	√	√		
APO	<i>Apocynum androsaemifolium</i> L.			√	√	√	√		
APO	<i>Apocynum x floribundum</i> Greene	<i>A. medium</i> Greene				√			
ASC	<i>Asclepias subverticillata</i> (Gray) Vail					√	√		
ASC	<i>Asclepias asperula</i> (Decne.) Woodson					√	√		
ASC	<i>Asclepias speciosa</i> Torrey					√	√		
ASC	<i>Asclepias tuberosa</i> L.					√	√		
AST	<i>Achillea millefolium</i> L. ssp. <i>lanulosa</i> (Nutt.) Piper	<i>Achillea lanulosa</i> Nutt. var. <i>alpicola</i> (Rydb.) Keck			√				
AST	<i>Achillea millefolium</i> L. ssp. <i>millefolium</i>					√	√		
AST	<i>Ageratina herbacea</i> (Gray) King & Robins.	<i>Eupatorium herbaceum</i> (Gray) Greene				√	√	√	
AST	<i>Agoseris aurantiaca</i> (Hooker) Greene	<i>A. aurantiaca</i> var. <i>purpurea</i> (Gray) Cronquist		√	√	√			
AST	<i>Agoseris glauca</i> (Pursh) Raf.	var. <i>dasycephala</i> (T&G) Jepson, var. <i>laciniata</i> (Eaton) Smiley, <i>A. arizonica</i> Gr		√	√	√			
AST	<i>Ambrosia acanthicarpa</i> Hooker	<i>Franseria acanthicarpa</i> (Hooker) Coville				√	√		
AST	<i>Ambrosia psilostachya</i> DC					√	√		
AST	<i>Ambrosia tomentosa</i> Nutt.	<i>Franseria discolor</i> Nuttall				√	√	√	
AST	<i>Antennaria marginata</i> Greene			√	√	√	√		
AST	<i>Antennaria media</i> Greene	<i>A. alpina</i> misnomer	√						
AST	<i>Antennaria microphylla</i> Rydberg		√		√	√			
AST	<i>Antennaria parvifolia</i> Nutt		√	√	√	√			
AST	<i>Antennaria rosea</i> Greene	<i>Antennaria microphylla</i> Rydb. (in Welsh et al)			√	√	√		
AST	<i>Antennaria rosulata</i> Rydberg		√	√	√	√			
AST	<i>Antennaria umbrinella</i> Rydb.		√	√					
AST	<i>Arnica cordifolia</i> Hooker			√					
AST	<i>Artemisia biennis</i> Willdenow					√	√		w c
AST	<i>Artemisia campestris</i> L. ssp. <i>borealis</i> (Pallas) Hall & Clements var	<i>Artemisia pacifica</i> Nutt.				√	√	√	
AST	<i>Artemisia carruthii</i> Wood ex Carruth.			√	√	√	√		
AST	<i>Artemisia dracuncululus</i> L.	<i>A. dracunculoides</i> Pursh		√	√	√	√		
AST	<i>Artemisia ludoviciana</i> Nutt. ssp. <i>albula</i> (Woot.) Keck					√	√	√	
AST	<i>Baccharis pteronioides</i> DC					√			
AST	<i>Bahia dissecta</i> (Gray) Britton			√	√	√	√		
AST	<i>Berlandiera lyrata</i> Benth.					√	√	√	√
AST	<i>Bidens cernua</i> L.					√		√	w
AST	<i>Bidens heterosperma</i> Gray					√	√		
AST	<i>Bidens tenuisecta</i> Gray					√			
AST	<i>Brickellia californica</i> (Torr. & Gray) Gray					√	√		
AST	<i>Brickellia chlorolepis</i> (W & S) Shinnars	<i>B. eupatorioides</i> var. <i>chlorolepis</i> (W&S) B.L. Turner, <i>Kuhnia rosmarinifolia</i> Vent.				√	√	√	
AST	<i>Brickellia grandiflora</i> (Hooker) Nutt.					√	√	√	
AST	<i>Centaurea diffusa</i> Lam.					√	√	√	n w c
AST	<i>Chaetopappa ericoides</i> (Torrey) Nesom	<i>Leucelene ericoides</i> (Torr.) Greene		√		√			
AST	<i>Chrysanthemum leucanthemum</i> L. v. <i>pinnatifidum</i> Lecoq. & Lam.	<i>Leucanthemum vulgare</i> Lamarck				√			w c
AST	<i>Chrysothamnus depressus</i> Nuttall					√	√		
AST	<i>Chrysothamnus nauseosus</i> (Pallas ex Pursh.) v. <i>consimilis</i> (Greene) Hall & Clements					√	√		
AST	<i>Chrysothamnus nauseosus</i> (Pallas ex Pursh.) v. <i>graveolens</i>					√	√		
AST	<i>Cirsium arizonicum</i> (Gray) Petrak			√	√	√			
AST	<i>Cirsium parryi</i> (Gray) Petrak			√	√				
AST	<i>Cirsium pulchellum</i> (Greene) W&S	<i>C. calcareum</i> var. <i>pulchellum</i> (Greene) Welsh				√			
AST	<i>Cirsium ochrocentrum</i> Gray					√			
AST	<i>Cirsium scariosum</i> Nutt.	<i>C. foliosum</i> (Hook.) DC, <i>C. drummondii</i> T&G, <i>C. coloradense</i> (Rydb.) Cock.				√	√		
AST	<i>Cirsium undulatum</i> (Nutt.) Spreng.			√	√	√			
AST	<i>Cirsium vulgare</i> (Savi) Airy-Shaw					√			n w c
AST	<i>Cirsium wheeleri</i> (Gray) Petrak			√	√	√	√		
AST	<i>Conyza canadensis</i> (L.) Cronquist					√	√		w
AST	<i>Coreopsis tinctoria</i> Nutt.	<i>Coreopsis atkinsoniana</i> Dougl. Ex Lindl.				√	√	√	
AST	<i>Cosmos bipinnatus</i> Cav.					√	√		w c
AST	<i>Cosmos parviflorus</i> (Jacq.) HBK					√	√		
AST	<i>Crepis occidentalis</i> Nutt.					√			
AST	<i>Dugaldia hoopsii</i> Gray	<i>Helenium hoopsii</i>	√	√	√	√	√	√	
AST	<i>Erigeron caespitosus</i> Nuttall			√	√				
AST	<i>Erigeron canus</i> Gray					√			
AST	<i>Erigeron colomexicanus</i> A. Nels.					√	√		
AST	<i>Erigeron compositus</i> Pursh		√	√					
AST	<i>Erigeron divergens</i> T&G			√	√	√	√		
AST	<i>Erigeron eximius</i> Greene	<i>E. superbus</i> Greene	√	√	√	√	√		
AST	<i>Erigeron flagellaris</i> Gray		√	√	√	√	√		
AST	<i>Erigeron formosissimus</i> Greene			√	√	√	√		

Family	Taxa	Synonymy	8	7	6	5	ME ¹	Wet	Adv ¹
AST	<i>Erigeron modestus</i> Gray					√	√		
AST	<i>Erigeron neomexicanus</i> Gray				√	√	√		
AST	<i>Erigeron oreophilus</i> Greenm.					√	√		
AST	<i>Erigeron saxatilis</i> Nesom				√		√		
AST	<i>Erigeron simplex</i> Greene		√	√					
AST	<i>Erigeron speciosus</i> (Lindl.) DC var <i>macranthus</i> (Nutt.) Cronq.	<i>Erigeron macranthus</i> Nutt.		√	√	√	√		
AST	<i>Erigeron ursinus</i> Eaton			√					
AST	<i>Erigeron vreelandii</i> Rydberg	<i>E. platyphyllus</i> Greene			√	√	√		
AST	<i>Gaillardia pinnatifida</i> Torrey					√	√		
AST	<i>Gaillardia pulchella</i> Foug.					√	√		
AST	<i>Gnaphalium exilifolium</i> A. Nels.	<i>Gnaphalium grayii</i> A. Nels. & Mac			√	√	√	√	
AST	<i>Grindelia aphanactis</i> Rydberg					√	√		
AST	<i>Grindelia squarrosa</i> (Pursh) Dunal var. <i>quasiperennis</i> Lunell	<i>G. perennis</i> A. Nels.				√			
AST	<i>Gutierrezia microcephala</i> (DC) Gray					√			
AST	<i>Gutierrezia sarothrae</i> (Pursh) Britton & Rusby				√	√	√		
AST	<i>Helianthella quinquenervis</i> (Hooker) Gray			√	√	√	√		
AST	<i>Helianthus annuus</i> L.					√	√		
AST	<i>Helianthus petiolaris</i> Nutt.					√			
AST	<i>Heliomeris multiflora</i> Nutt. var <i>multiflora</i>	<i>Viguiera multiflora</i> (Nutt.) Blake var <i>multiflora</i>				√			
AST	<i>Heliomeris multiflora</i> Nutt. var <i>nevadensis</i> (Nels.) W. Yates	<i>Viguiera multiflora</i> (Nutt.) Blake var <i>nevadensis</i> (A.Nels.) Blake			√	√	√		
AST	<i>Heterosperma pinnatum</i> Cav.					√	√		
AST	<i>Heterotheca fulcrata</i> (Greene) Shinnars var <i>amplifolia</i> (Rydb.) Semple					√			
AST	<i>Heterotheca villosa</i> (Pursh) Shinnars var <i>foliosa</i> (Nutt.) Harms	<i>Chrysopsis villosa</i> (Pursh) Nutt.				√	√	√	
AST	<i>Hieracium fendleri</i> Schultz-Bib.			√	√	√	√		
AST	<i>Hymenopappus filifolius</i> Hooker var <i>lugens</i> (Greene) Jepson					√	√		
AST	<i>Hymenopappus mexicanus</i> Gray				√	√			
AST	<i>Hymenoxys loomisii</i> Blake					√			
AST	<i>Hymenoxys acaulis</i> (Pursh) K.F.Parker	<i>Tetraneris acaulis</i> (Pursh) Greene				√	√		
AST	<i>Hymenoxys bigelovii</i> (Gray) K.F.Parker					√	√		
AST	<i>Hymenoxys helenioides</i> (Rydberg) Cockerell	<i>Hymenoxys x helenioides</i> (Rydb.) Cockerell, <i>Picradenia helenioides</i> Rydb.				√	√		
AST	<i>Hymenoxys richardsonii</i> (Hook.) Cockerell	incl var <i>floribunda</i> (Gray) K.F. Parker, <i>Picradenia richardsonii</i> Hook.			√	√			
AST	<i>Lactuca serriola</i> L.					√			w c
AST	<i>Lactuca tatarica</i> (L.) C.A.Meyer	<i>Lactuca puchella</i> (Pursh) DC			√	√	√		
AST	<i>Laennecia coulteri</i> (Gray) Nesom	<i>Conyza coulteri</i> Gray		√					
AST	<i>Laennecia schiedeana</i> (Less.) Nesom	<i>Conyza schiedeana</i> (Less.) Cronq.		√	√	√	√		w
AST	<i>Laennecia sophiifolia</i> (Kunth.) Nesom	<i>Conyza sophiifolia</i> Kunth				√	√		
AST	<i>Machaeranthera canescens</i> (Pursh) Gray	includes many confusing subspecies and varieties			√	√	√		
AST	<i>Machaeranthera gracilis</i> (Nutt.) Shinnars	<i>Haplopappus gracilis</i> (Nutt.) Gray			√	√	√		
AST	<i>Machaeranthera tanacetifolia</i> (Kunth.) Nees	<i>Aster tanacetifolius</i> H.B.K.				√			
AST	<i>Machaeranthers grindelioides</i> (Nutt.) Shinnars	<i>Haplopappus nuttallii</i> T&G			√	√	√		
AST	<i>Onopordum acanthium</i> L.					√			n w c
AST	<i>Oreochrysum parryi</i> (Gray) Rydberg	<i>Solidago parryi</i> (Gray) Greene		√	√	√	√		
AST	<i>Packera multilobata</i> (T&G) Weber & Löve	<i>Senecio multilobatus</i> Torr. & Gray ex Gray			√	√	√		
AST	<i>Packera neomexicana</i> (Gray) Weber & Löve var. <i>mutabilis</i> (Greene) Cronq.	<i>Senecio neomexicana</i> (Gray) var. <i>griffithsii</i> Greenm.		√	√	√	√		
AST	<i>Packera wernerifolia</i> (Gray) Weber & A.Löve	<i>Senecio wernerifolius</i> (Gray) Gray, <i>S. werneriaefolius</i> Gray		√					
AST	<i>Pericome caudata</i> Gray			√	√				
AST	<i>Perityle ciliata</i> (Dewey) Rydb.					√	√		
AST	<i>Pseudognaphalium canescens</i> (DC) W.A. Weber	<i>Gnaphalium wrightii</i> Gray, <i>G. canescens</i> DC			√	√			w
AST	<i>Pseudognaphalium macounii</i> (Greene) Kartesz comb.nov.ined.	<i>Pseudognaphalium stramineum</i> (HBK) Weber, <i>Gnaphalium macounii</i> Greene		√	√	√			w
AST	<i>Pyrrcoma crocea</i> (Gray) Greene	<i>Pyrrcoma caudata</i> (Gray) Greene			√	√	√		
AST	<i>Ratibida columnaris</i> (Nutt.) W&S					√	√		
AST	<i>Ratibida tagetes</i> (Jones) Barnh.					√			
AST	<i>Rudbeckia lacinata</i> L.			√	√			√	
AST	<i>Sanvitalia abertii</i> Gray					√			
AST	<i>Schkuhria multiflora</i> Hook. & Arn					√			
AST	<i>Senecio actinella</i> Greene	<i>Packera actinella</i> (Greene) Weber & Löve				√			
AST	<i>Senecio bigelovii</i> Gray	<i>Ligularia bigelovii</i> (Gray) W.A. Weber		√	√			√	
AST	<i>Senecio eremophilus</i> Richards var. <i>macedougallii</i> (Heller) Cronq.	<i>Senecio macedougallii</i> Heller		√	√	√	√		
AST	<i>Senecio flaccidus</i> Less.	<i>S. douglasii</i> DC var. <i>longilobus</i> (Benth.) Benson				√	√		
AST	<i>Senecio franciscanus</i> Greene	<i>Packera franciscana</i> (Greene) Weber & Löve	√	√					
AST	<i>Senecio spartioides</i> T&G var <i>multicapitatus</i> (Greenm.) Welsh	<i>Senecio multicapitatus</i> Greenm. ex. Rydb.				√	√		
AST	<i>Senecio spartioides</i> T&G var <i>spartioides</i>	<i>Senecio spartioides</i> T&G		√	√	√	√		
AST	<i>Senecio wootonii</i> Greene			√	√	√	√		
AST	<i>Solidago canadensis</i> L. var. <i>scabra</i> T & G	<i>Solidago altissima</i> L.				√			
AST	<i>Solidago missouriensis</i> Nutt.					√			
AST	<i>Solidago multiradiata</i> Ait.	<i>Solidago ciliosa</i> Greene	√	√					
AST	<i>Solidago nana</i> Nutt.				√	√			
AST	<i>Solidago simplex</i> Kunth ssp. <i>simplex</i> var. <i>simplex</i>	<i>S. spathulata</i> DC var. <i>neomexicana</i> (Gray) Cronq.		√	√	√	√		
AST	<i>Solidago velutina</i> DC	<i>Solidago sparsiflora</i> Gray			√	√	√		
AST	<i>Solidago wrightii</i> Gray				√	√	√		
AST	<i>Stephanomeria exigua</i> Nutt.					√	√		
AST	<i>Stephanomeria minor</i> (Hook.) Nuttall. var <i>minor</i>	<i>Stephanomeria tenuifolia</i> (Raf.) Hall				√			
AST	<i>Stephanomeria thurberi</i> Gray					√	√		
AST	<i>Symphotrichum ascendens</i> (Lindley) Nesom	<i>Aster ascendens</i> Lindley				√			
AST	<i>Symphotrichum falcatum</i> (Lindley) Nesom var. <i>commutatum</i> (T&G) Cronq.	<i>Aster commutatus</i> (T&G) Gray			√	√	√		
AST	<i>Symphotrichum foliaceum</i> (Lindley ex DC) Nesom	<i>Aster foliaceus</i> Lindl. ex DC			√	√			
AST	<i>Symphotrichum lanceolatum</i> (Willd.) Nesom	<i>Aster hesperius</i> Gray			√	√	√	√	
AST	<i>Tagetes micrantha</i> Lag.					√			
AST	<i>Tanacetum vulgare</i> L.					√			w c
AST	<i>Taraxacum lyratum</i> (Ledeb.) DC		√						
AST	<i>Taraxacum officinale</i> Weber	<i>Taraxacum laevigatum</i> (Willd.) DC	√	√	√	√	√		w c
AST	<i>Tetradymia canescens</i> DC					√	√		
AST	<i>Townsendia exscapa</i> (Rich.) Porter					√			
AST	<i>Tragopogon dubius</i> Scop.			√	√	√	√		w c
AST	<i>Tragopogon dubius</i> Scop. x <i>porrifolius</i> L.					√			

Family	Taxa	Synonymy	8	7	6	5	ME ¹	Wet	Adv ¹
AST	<i>Tragopogon mirus</i> Ownbey					√			
AST	<i>Tragopogon porrifolius</i> L.					√			w c
AST	<i>Tragopogon pratensis</i> L.				√	√			w c
AST	<i>Uropappus lindleyi</i> (DC) Nuttall	<i>Microseris lindleyi</i> (DC) Gray				√	√		
AST	<i>Verbesina encelioides</i> (Cav.) Benth. ssp. <i>exauriculata</i> (Robins & Greenm.) Coleman					√			
AST	<i>Wyethia arizonica</i> Gray					√			
AST	<i>Xanthium strumarium</i> L.					√		√	w
BER	<i>Mahonia fremontii</i> (Torr) Fedde	<i>Berberis fremontii</i> Torrey				√	√		
BER	<i>Mahonia haematocarpa</i> (Wooton) Fedde	<i>Berberis haematocarpa</i> Wooton				√	√		
BER	<i>Mahonia repens</i> (Lindl.) G. Don	<i>Berberis repens</i> Lindl.		√	√	√	√		
BOR	<i>Cryptantha capitata</i> (Eastw.) I.M. Johnston					√			
BOR	<i>Cryptantha cinerea</i> (Greene) Cronq. var. <i>cinerea</i>	<i>Cryptantha jamesii</i> (Torr.) Payson var. <i>multicaulis</i> (Torr.) Payson				√	√	√	
BOR	<i>Cryptantha fendleri</i> (Gray) Greene					√	√		
BOR	<i>Cryptantha flava</i> (A.Nels.) Payson					√			
BOR	<i>Cryptantha setosissima</i> (Gray) Payson			√	√	√	√		
BOR	<i>Cynoglossum officinale</i> L.					√			w c
BOR	<i>Hackelia floribunda</i> (Lehm.) I.M. Johnston.					√	√		
BOR	<i>Lappula occidentalis</i> Greene	<i>Lappula redowskii</i> (Hornem.) Greene			√	√	√		
BOR	<i>Lappula squarrosa</i> (Retz.) Dumort					√			
BOR	<i>Lithospermum cobrense</i> Greene					√			
BOR	<i>Lithospermum incisum</i> Lehm.					√	√		
BOR	<i>Lithospermum multiflorum</i> Torr. ex Gray			√	√	√	√		
BOR	<i>Macromeria viridiflora</i> DC					√	√	√	
BOR	<i>Mertensia franciscana</i> Heller		√	√	√				√
BOR	<i>Plagiobothrys scouleri</i> (Hook.&Arn.) I.M. Johnston					√	√		√
BRA	<i>Arabis glabra</i> (L.) Bernh.	<i>Turritis glabra</i> L.					√		
BRA	<i>Barbarea orthoceras</i> Ledebour			√	√	√	√	√	w c
BRA	<i>Boechera fendleri</i> (S.Wats.) W.A. Weber	<i>Arabis fendleri</i> (Wats.) Greene var. <i>fendleri</i>				√	√	√	
BRA	<i>Boechera perennans</i> (S.Wats.) W.A. Weber	<i>Arabis perennans</i> Wats.				√	√		
BRA	<i>Camelina microcarpa</i> DC					√			w c
BRA	<i>Capsella bursa-pastoris</i> (L.) Medicus					√			w c
BRA	<i>Cardamine cordifolia</i> Gray			√	√				√
BRA	<i>Chorispora tenella</i> (Palas) DeCandolle					√			w c
BRA	<i>Descurainia obtusa</i> (Greene) O.E. Schulz					√	√		
BRA	<i>Descurainia pinnata</i> (Walt.) Britton ssp. <i>paysonii</i> Detling					√	√		
BRA	<i>Descurainia sophia</i> (L.) Webb					√			c
BRA	<i>Draba asprella</i> Greene					√			
BRA	<i>Draba aurea</i> Vahl		√	√					
BRA	<i>Draba crassifolia</i> Graham		√	√					
BRA	<i>Draba helleriana</i> Greene			√					
BRA	<i>Draba rectifruca</i> Hitchc.					√			
BRA	<i>Erysimum capitatum</i> (Dougl.) Greene var. <i>argillosum</i>					√	√		
BRA	<i>Erysimum repandum</i> L.					√	√		w c
BRA	<i>Lepidium densiflorum</i> Schrad					√	√		w
BRA	<i>Lepidium virginicum</i> L.	<i>Lepidium medium</i> Greene				√			w
BRA	<i>Lesquerella intermedia</i> (S. Wats.) Heller					√			
BRA	<i>Lesquerella rectipes</i> W&S					√			
BRA	<i>Pennellia longifolia</i> (Benth.) Rollins	<i>Thelypodium longifolium</i> (Benth.) S. Wats.			√	√	√	√	
BRA	<i>Rorippa sphaerocarpa</i> (Gray) Britt.	<i>R. obtusa</i> var. <i>sphaerocarpa</i> (Gray) Cory, <i>Nasturtium sphaerocarpa</i> Gray				√	√		√
BRA	<i>Rorippa microtitis</i> (B.L. Robins.) Rollins	<i>Rorippa obtusa</i> (Nutt.) Britt.				√	√		√
BRA	<i>Schoenocrambe linearifolia</i> (Gray) Rollins			√	√	√	√		
BRA	<i>Sisymbrium altissimum</i> L.					√	√		w c
BRA	<i>Thelypodium wrightii</i> Gray					√	√	√	
BRA	<i>Thlaspi montanum</i> L. var. <i>fendleri</i>	<i>Thlaspi fendleri</i> Gray	√	√	√	√	√		
BRA	<i>Thysanocarpus curvipes</i> Hooker var. <i>eradiatus</i> Jepson					√	√		
CAC	<i>Echinocereus coccinea</i> Engelm.					√	√	√	
CAC	<i>Escobaria vivipara</i> (Nutt.) Buxbalm var. <i>arizonica</i> (Engelm) D.R. Hunt					√			
CAC	<i>Opuntia engelmannii</i> Salm-Dyck var. <i>engelmannii</i>					√	√		
CAC	<i>Opuntia fragilis</i> (Nutt.) Haw.					√	√		
CAC	<i>Opuntia macrorhiza</i> Engelm.					√	√		
CAM	<i>Campanula parryi</i> Gray			√	√				
CAM	<i>Campanula rotundifolia</i> L.				√				
CAM	<i>Porterella carnosula</i> (Hook. & Arn.) Torrey					√			√
CAN	<i>Cannabis sativa</i> L.					√			w c
CAN	<i>Humulus lupulus</i> L.	<i>Humulus americanus</i> Nutt.				√	√		√
CAR	<i>Arenaria fendleri</i> Gray	<i>Eremogone fendleri</i> (Gray) Ikonn.	√	√	√	√	√		
CAR	<i>Arenaria fendleri</i> Gray var. <i>tweedyi</i> (Rydberg) Maguire		√	√					
CAR	<i>Arenaria lanuginosa</i> (Michx.) Rohrb. var. <i>lanuginosa</i>					√			
CAR	<i>Arenaria lanuginosa</i> (Michx.) Rohrb. var. <i>saxosa</i> (Gray) Mag.	<i>Spergulastrum lanuginosum</i> Michaux ssp. <i>saxosum</i> (Gray) Weber	√	√	√	√	√		
CAR	<i>Cerastium arvense</i> L. ssp. <i>strictum</i> (L.) Ugbor.	<i>Cerastium strictum</i> L.				√	√		
CAR	<i>Cerastium beerianum</i> Cham. & Schl.		√	√					
CAR	<i>Cerastium brachypodium</i> (Engl. ex Gray) Robins.		√						
CAR	<i>Cerastium fontanum</i> Baumg. ssp. <i>vulgare</i> (Hartman) Greuter & Burdet	<i>Cerastium vulgatum</i> L.				√			
CAR	<i>Drymaria effusa</i> var. <i>depressa</i> (Greene) J.Duke	<i>Drymeria depressa</i> Greene				√	√		w c
CAR	<i>Drymaria leptophylla</i> (Cham. & Schlecht.) Fenzl.					√			
CAR	<i>Drymaria molluginea</i> (Lag.) Didr.	<i>Drymaria sperguloides</i> Gray				√			
CAR	<i>Lychnis drummondii</i> (Hook.) S.Wats	<i>Silene drummondii</i> Hook. var. <i>drummondii</i>		√					
CAR	<i>Melandrium album</i> (P. Miller) Gareke	<i>Lychnis alba</i> Miller, <i>Silene latifolia</i> Poir. ssp. <i>alba</i> (P. Mill.) Greuter & Burdet				√			w
CAR	<i>Minuartia macrantha</i> (Rydberg) House	<i>Alsinanthe macrantha</i> (Rydb.) W.A. Weber	√						
CAR	<i>Minuartia obtusiloba</i> (Rydb.) House.	<i>Lidia obtusiloba</i> (Rydb.) Löve & Löve	√	√					
CAR	<i>Minuartia rubella</i> (Wahl.) Hiern.	<i>Tryphane rubella</i> (Wahl.) Reich.	√	√					
CAR	<i>Sagina saginoides</i> (L.) Karstens		√	√	√				√
CAR	<i>Silene acaulis</i> L. ssp. <i>subcaulescens</i> (Williams) Hitchc. & Maguire		√	√					
CAR	<i>Silene scouleri</i> Hooker			√	√	√			
CAR	<i>Stellaria longifolia</i> Muhl. ex Willdenow			√	√	√			

Family	Taxa	Synonymy	8	7	6	5	ME ¹	Wet	Adv ¹
CAR	<i>Stellaria longipes</i> Goldie					√			
CAR	<i>Stellaria umbellata</i> Turcz.		√	√	√				
CHN	<i>Atriplex canescens</i> (Pursh) Nuttall					√			
CHN	<i>Atriplex rosea</i> L.					√			√
CHN	<i>Chenopodium album</i> L.					√			w c
CHN	<i>Chenopodium berlandieri</i> Moq.			√	√	√			
CHN	<i>Chenopodium capitatum</i> (L.) Asch	<i>C. chenopodioides</i> (L.) Aellen, <i>C. foliosum</i> (Moench) Asch., <i>C. overi</i> Aellen		√	√	√	√		w c
CHN	<i>Chenopodium fremontii</i> S. Watson				√	√	√		
CHN	<i>Chenopodium incanum</i> (Wats.) Heller	<i>C. fremontii</i> (S.Wats.) var. <i>incanum</i> S.Wats.			√	√	√		
CHN	<i>Chenopodium neomexicanum</i> W&S					√			
CHN	<i>Chenopodium pratericola</i> Rydb.	<i>Chenopodium desiccatum</i> A. Nels. var. <i>leptophylloides</i> (Murr) Wahl.			√	√	√		
CHN	<i>Kochia scoparia</i> (L.) Schrader			√	√	√	√		c
CHN	<i>Krascheninnikovia lanata</i> (Pursh) Meeu. & Smit	<i>Ceratoides lanata</i> (Pursh) Howell, <i>Eurotia lanata</i> (Pursh) Moq.				√	√		
CHN	<i>Salsola tragus</i> L.	<i>S. iberica</i> (Sen. & Bau) Botsch., <i>S. kali</i> L.			√	√	√		w c
CHN	<i>Teloxys graveolens</i> (Willd.) W.A.Weber	<i>Desphania graveolens</i> (Willd.) Mosy. & Clemants				√	√		w c
CLL	<i>Callitriche heterophylla</i> Pursh					√		√	
CLL	<i>Callitriche palustris</i> L.	<i>Callitriche verna</i> L.			√			√	
CMM	<i>Commelina dianthifolia</i> Delile				√	√	√		
CMM	<i>Tradescantia pinetorum</i> Greene					√	√		
CON	<i>Convolvulus arvensis</i> L.				√	√			w c
CON	<i>Ipomoea costillata</i> Torr.					√			
CON	<i>Ipomoea plummerae</i> Gray					√			
COR	<i>Cornus sericea</i> L. ssp. <i>sericea</i>	<i>Cornus stolonifera</i> Michx., <i>Suida sericea</i> (L.) Holub			√	√		√	
CPP	<i>Cleome serrulata</i> Pursh					√	√		
CPR	<i>Lonicera arizonica</i> Rehder			√	√	√	√		
CPR	<i>Lonicera involucrata</i> (Rich.) Banks		√	√					
CPR	<i>Sambucus nigra</i> L. ssp. <i>cerulea</i> (Raf.) R. Bolli	<i>S. neomexicanus</i> , <i>S. glauca</i> Nutt., <i>S. cerulea</i> Raf.		√	√	√	√		
CPR	<i>Sambucus racemosa</i> L. var. <i>racemosa</i>	<i>Sambucus microbotryis</i> Rydb.		√	√				
CPR	<i>Symphoricarpos oreophilus</i> Gray			√	√		√		
CPR	<i>Symphoricarpos oreophilus</i> Gray var. <i>utahensis</i> (Rydb.) A. Nels.	<i>Symphoricarpis utahensis</i> Rydb.				√			
CPR	<i>Symphoricarpos palmeri</i> G.N.Jones					√	√		
CPR	<i>Symphoricarpos rotundifolius</i> Gray var. <i>parishii</i> (Rydb.) Cronq.	<i>Symphoricarpis parishii</i> Rydb.			√		√		
CRS	<i>Rhodiola rhodantha</i> (Gray) Jacobsen	<i>Sedum rhodanthum</i> Gray	√	√				√	
CUC	<i>Cucurbita foetidissima</i> Humboldt					√	√		w
CUP	<i>Juniperus communis</i> L. var. <i>depressa</i> Pursh.	<i>Juniperus communis</i> L. var. <i>saxitilis</i> Pall.	√	√	√	√			
CUP	<i>Juniperus deppeana</i> Steudel					√	√		
CUP	<i>Juniperus monosperma</i> (Engelm.) Sargent					√	√		
CUP	<i>Juniperus osteosperma</i> (Torr.) Little	<i>Juniperus utahensis</i> (Engelm.) Lemmon				√	√		
CUP	<i>Juniperus scopulorum</i> (Engelm.) Sargent				√	√	√		
CYP	<i>Carex albonigra</i> Mack.		√	√					
CYP	<i>Carex atherodes</i> Sprengel				√				
CYP	<i>Carex athrostachya</i> Olney			√	√			√	
CYP	<i>Carex bebbii</i> Olney					√			
CYP	<i>Carex bella</i> Bailey		√	√					
CYP	<i>Carex cf. deweyana</i> Schwein				√				
CYP	<i>Carex duriscula</i> Mey	<i>C. stenophylla</i> Wahl ssp. <i>eleocharis</i> (Bailey) Hulten				√			
CYP	<i>Carex ebenea</i> Rydb.		√	√					
CYP	<i>Carex elynoides</i> Holm		√						
CYP	<i>Carex geophila</i> Mack.				√	√	√		
CYP	<i>Carex haydeniana</i> Olney		√	√					
CYP	<i>Carex heteroneura</i> Boott var. <i>chalciolepis</i> (Holm.) F.J. Herm.	<i>C. chalciolepis</i> Holm; <i>C. atrata</i> L. v. <i>chalciolepis</i> (Holm.) Kukenth.	√	√					
CYP	<i>Carex lanuginosa</i> Michx.				√	√	√	√	
CYP	<i>Carex microptera</i> Mackenzie				√				
CYP	<i>Carex nebrascensis</i> Dewey				√	√	√	√	
CYP	<i>Carex occidentalis</i> Bailey			√	√	√	√		
CYP	<i>Carex oreocharis</i> Holm				√				
CYP	<i>Carex petasata</i> Dewey		√	√	√		√		
CYP	<i>Carex praegracilis</i> Boott			√	√			√	
CYP	<i>Carex rossii</i> Boott			√	√		√		
CYP	<i>Carex siccata</i> Dewey	<i>Carex foenea</i> Willdenow		√	√	√	√		
CYP	<i>Carex simulata</i> Mack.				√				
CYP	<i>Carex subfusca</i> Boott				√	√	√	√	
CYP	<i>Carex utriculata</i> Boott.	<i>Carex rostrata</i> Stokes var. <i>utriculata</i> (Boott) Bailey				√			
CYP	<i>Carex vallicola</i> Dewey			√		√		√	
CYP	<i>Carex wootonii</i> Mack.			√	√				
CYP	<i>Carex xerantica</i> Bailey			√					
CYP	<i>Cyperus fendlerianus</i> Boeckl.					√	√		
CYP	<i>Cyperus squarrosus</i> L.	<i>Cyperus aristatus</i> Rottboell				√		√	
CYP	<i>Eleocharis acicularis</i> (L.) Roem. & Schult.				√	√		√	
CYP	<i>Eleocharis bella</i> (Piper) Sven.	<i>E. acicularis</i> (L.) Roem. & Schult. var. <i>bella</i> Piper				√		√	
CYP	<i>Eleocharis palustris</i> (L.) Roem. & Schult.	<i>E. macrostachya</i> Britton ex. Small			√	√		√	
CYP	<i>Eleocharis quinqueflora</i> (F.X.Hartmann) Schwarz	<i>Eleocharis pauciflora</i> (Lightf.) Link			√			√	
CYP	<i>Eleocharis rostellata</i> (Torr.) Torr.					√		√	
CYP	<i>Schoenoplectus acutus</i> (Muhl.) A&D Löve	<i>Scirpus acutus</i> Muhl., <i>Scirpus validus</i> Vahl				√	√	√	
CYP	<i>Schoenoplectus maritimus</i> (L.) Lye	<i>Scirpus maritimus</i> L. var. <i>padulosus</i> (A.Nels) Kuk.				√	√	√	
DPS	<i>Dipsacus fullonum</i> L.					√			w c
ELT	<i>Elatine brachysperma</i> Gray					√		√	
ELT	<i>Elatine californica</i> Gray					√		√	
ERI	<i>Vaccinium myrtilloides</i> (L.) var. <i>oreophilum</i> (Rydb.) Dorn	<i>V. oreophyllum</i> Rydberg		√					
EUP	<i>Chamaesyce albomarginata</i> (T&G) Small	<i>Euphorbia albomarginata</i> Torr. & Gray				√	√		
EUP	<i>Chamaesyce fendleri</i> (T&G) Small	<i>Euphorbia fendleri</i> Torr. & Gray				√			
EUP	<i>Chamaesyce serpyllifolia</i> (Person) Small					√			
EUP	<i>Euphorbia brachycera</i> Engelm.	<i>Tithymalus brachyceras</i> (Engelm.) Small, <i>Euphorbia lurida</i> Engelm.		√	√	√	√		
EUP	<i>Euphorbia palmeri</i> Engelm.					√	√	√	
FAB	<i>Astragalus castaneiformis</i> S.Wats.	<i>A. castaniiformis</i>				√	√	√	

Family	Taxa	Synonymy	8	7	6	5	ME ¹	Wet	Adv ¹
FAB	<i>Astragalus hallii</i> Gray var <i>fallax</i> (M.E. Jones) Barneby	<i>A. famelicus</i> Sheldon				√			
FAB	<i>Astragalus humistratus</i> Gray var <i>humivagans</i> (Rydb.) Barneby					√	√		
FAB	<i>Astragalus humistratus</i> Gray var <i>tenerrimus</i> M.E. Jones					√	√		
FAB	<i>Astragalus humistratus</i> Gray var. <i>hosackiae</i> (Greene) M.E. Jones					√	√		
FAB	<i>Astragalus recurvus</i> Greene					√			
FAB	<i>Astragalus rusbyi</i> Greene				√	√	√		
FAB	<i>Astragalus tephrodes</i> Gray					√	√		
FAB	<i>Astragalus troglodytes</i> Wats.					√			
FAB	<i>Calliandra humulis</i> Benth.					√	√		
FAB	<i>Cologania angustifolia</i> Kunth.	<i>Cologania longifolia</i> Gray				√	√		
FAB	<i>Dalea candida</i> Michx. Ex Willd. var <i>oligophylla</i> (Torr.) Shinners	<i>Petalostemon candidus</i> Michx., <i>P. candidum</i> (Willd.) Michx.				√	√		
FAB	<i>Dalea filiformis</i> Gray					√			
FAB	<i>Hedysarum boreale</i> Nutt.			√					
FAB	<i>Lathyrus graminifolius</i> (S. Wats.) White					√	√		
FAB	<i>Lathyrus leucanthus</i> Rydberg	<i>Lathyrus lanszwertii</i> Kellogg var. <i>arizonicus</i> (Britt.) Welsh		√	√	√			
FAB	<i>Lotus corniculatus</i> L.			√					W C
FAB	<i>Lotus wrightii</i> (Gray) Greene				√	√	√		
FAB	<i>Lupinus argenteus</i> Pursh. sensu lato	includes vars. <i>hillii</i> and <i>palmeri</i> . <i>Lupinus sitgreavesii</i> S. Watson		√	√	√	√		
FAB	<i>Lupinus kingii</i> S.Wats.				√	√	√		
FAB	<i>Medicago lupulina</i> L.			√	√	√			W C
FAB	<i>Medicago sativa</i> L.				√	√	√		W C
FAB	<i>Melilotus albus</i> Medicus					√	√		W
FAB	<i>Melilotus officinalis</i> (L.) Lam.			√	√	√	√		W C
FAB	<i>Oxytropis lambertii</i> Pursh			√	√	√	√		
FAB	<i>Phaseolus angustissimus</i> Gray					√	√		
FAB	<i>Phaseolus grayanus</i> W&S			√	√	√	√		
FAB	<i>Psoralidium lanceolatum</i> (Pursh) Rydb.					√			
FAB	<i>Psoralidium tenuiflora</i> Rydb.					√			
FAB	<i>Robinia neomexicana</i> Gray					√			
FAB	<i>Thermopsis rhombifolia</i> (Nutt.) Nutt. var <i>montana</i> (Nutt.) Isley	<i>T. divaricata</i> A. Nels., <i>T. montana</i> Nutt.				√	√	√	
FAB	<i>Trifolium fragiferum</i> L.					√			W C
FAB	<i>Trifolium gymnocarpon</i> Nutt.					√	√		
FAB	<i>Trifolium hybridum</i> L.			√	√	√			W C
FAB	<i>Trifolium longipes</i> Nutt. ssp. <i>pygmaeum</i> Gray	<i>Trifolium rusbyi</i> Greene, <i>T. longipes</i> Nutt. var. <i>pygmaeum</i> (Greene) Harringt.				√	√		√
FAB	<i>Trifolium mucronatum</i> Willd. ssp. <i>lacerum</i> (Greene) J.Gillette	<i>T. lacerum</i> Greene, <i>T. wormskjoldii</i> v <i>arizonicum</i> , <i>T. arizonicum</i> Greene				√			
FAB	<i>Trifolium pinetorum</i> Greene	<i>T. wormskjoldii</i> Lehm. var <i>longicaule</i> (W&S) Benson				√	√		√
FAB	<i>Trifolium pratense</i> L.					√	√		W C
FAB	<i>Trifolium repens</i> L.					√	√		W C
FAB	<i>Trifolium wormskjoldii</i> Lehm.	<i>Trifolium fendleri</i> Greene				√			
FAB	<i>Vicia americana</i> Muhl. ex Willd.			√	√	√	√		
FAB	<i>Vicia ludoviciana</i> Nutt. ssp. <i>ludoviciana</i>	<i>Vicia exigua</i> Nutt.				√			
FAB	<i>Vicia pulchella</i> HBK					√	√	√	
FAB	<i>Vicia villosa</i> Roth.			√	√	√	√		W C
FAG	<i>Quercus gambelii</i> Nutt.					√	√	√	
FAG	<i>Quercus undulata</i> Torrey	<i>Quercus x paucilobata</i> Rydb.				√	√		
F-ASD	<i>Dryopteris filix-mas</i> (L.) Schott.					√	√	√	
F-ASD	<i>Polystichum scopulinum</i> (Eaton) Maxon					√	√	√	
F-ASL	<i>Asplenium adiantum-nigrum</i> L.					√	√		
F-ASL	<i>Asplenium platyneuron</i> (L.) B.S.P.					√	√		
F-ASL	<i>Asplenium resiliens</i> Kunze					√	√		
F-ASL	<i>Asplenium septentrionale</i> (L.) Hoffman					√	√	√	
F-ATY	<i>Cystopteris fragilis</i> L. Bernh.			√	√				
F-ATY	<i>Cystopteris reevesiana</i> Lellinger	<i>Cystopteris fragilis</i> (L.) Bernh.		√	√	√		√	
F-ATY	<i>Cystopteris utahensis</i> Windham & Haufler					√	√		
F-EQU	<i>Equisetum arvense</i> L.					√			
F-EQU	<i>Equisetum laevigatum</i> A. Braun	<i>Hippochaete laevigata</i> (A.Braun) Farwell				√	√		
F-HPS	<i>Pteridium aquilinum</i> (L.) Kuhn.			√	√	√	√		
F-MSL	<i>Marsilea mollis</i> Robins.& Fernald					√			√
F-OPH	<i>Botrychium crenulatum</i> W.H. Wagner			√					
F-OPH	<i>Botrychium echo</i> W.H. Wagner			√					
F-OPH	<i>Botrychium hesperium</i> (Maxon & Clausen) Wagner & Lillinger			√					
F-OPH	<i>Botrychium lanceolatum</i> (Gmelin) Angstrom			√	√				
F-OPH	<i>Botrychium lunaria</i> (L.) Swartz	<i>Botrychium onondagense</i> Underwood		√	√				
F-OPH	<i>Botrychium miganense</i> Victorin	<i>Botrychium lunaria</i> var <i>miganense</i> (Victorin) Dole		√					
F-OPH	<i>Botrychium pinnatum</i> St John	<i>Botrychium boreale</i> (Fries.) Milde		√	√				
F-PLP	<i>Polypodium hesperium</i> Maxon					√	√	√	
F-PTR	<i>Pentagramma triangularis</i> (Kavf.) Yatsk., Windham & Wollenu					√	√	√	
F-SEL	<i>Selaginella underwoodii</i> Hieronymus					√	√	√	
F-SIN	<i>Cheilanthes eatonii</i> Baker					√	√	√	
F-SIN	<i>Cheilanthes feei</i> Moore					√	√	√	
F-SIN	<i>Cheilanthes fendleri</i> Hooker					√	√	√	
F-SIN	<i>Cheilanthes wootoni</i> Maxon					√	√	√	
F-SIN	<i>Pellaea atropurpurea</i> (L.) Link					√	√	√	
F-SIN	<i>Pellaea ternifolia</i> (Cavanilles) Link					√	√	√	
F-SIN	<i>Pellaea wrightiana</i> Hooker	<i>P. ternifolia</i> var <i>wrightii</i>				√	√	√	
FUM	<i>Corydalis aurea</i> Willd.			√	√	√	√		
F-WDS	<i>Woodsia neomexicana</i> Windham					√	√	√	
F-WDS	<i>Woodsia oregana</i> D.C. Eat. ssp. <i>cathartiana</i> (B.L. Robins) Windh	<i>W. neomexicana</i> Windham x <i>oregana</i> D.C. Eaton ssp. <i>cathartiana</i> (B.L. Robins) Windham				√	√	√	
F-WDS	<i>Woodsia oregana</i> D.C. Eaton					√	√	√	
F-WDS	<i>Woodsia schaackii</i> Windham	<i>W. neomexicana</i> Windham x <i>oregana</i> D.C. Eaton				√	√	√	
GAR	<i>Garrya wrightii</i> Torrey					√	√	√	
GEN	<i>Frasera speciosa</i> Dougl. ex Griseb.	<i>Swertia radiata</i> (Kellogg) Kuntze		√	√	√	√		
GEN	<i>Gentiana affinis</i> Griseb.	<i>Gentiana rusbyi</i> Greene				√	√	√	
GEN	<i>Gentiana fremontii</i> Torrey	<i>Chondrophylla aquatica</i> (L.) W.A. Weber		√					
GEN	<i>Gentiana prostrata</i> Heenke ex Jacquin	<i>Chondrophylla prostrata</i> (Heenke) J.P. Anderson		√	√				

Family	Taxa	Synonymy	8	7	6	5	ME ¹	Wet	Adv ¹
GEN	<i>Gentianella amarella</i> (L.) Börner	<i>Gentiana strictiflora</i> (Rydb.) Nels., <i>Gentianella amarilla</i> (L.) Börner ssp <i>acuta</i>	✓	✓	✓				
GEN	<i>Gentianella heterosepala</i> (Engelm.) Holub.	<i>Gentianella amarella</i> (L.) Börner ssp <i>heterosepala</i>		✓	✓	✓			
GEN	<i>Gentianella tenella</i> (Rottb.) Börner	<i>Comastoma tenellum</i> (Rott.) Toyokuni, <i>Gentiana tenella</i> Rottboel	✓	✓					
GEN	<i>Gentianopsis barbellata</i> (Engelm.) Iltis	<i>Gentianella barbellata</i> (Engelm.) M. Gillett, <i>Gentiana barbellata</i> Engel	✓	✓					
GER	<i>Erodium cicutarium</i> (L.) L'Her					✓	✓		w c
GER	<i>Geranium caespitosum</i> James	<i>G.atropurpureum</i> Heller, <i>G.fremontii</i> Torr., <i>G. eremophilum</i> W&S		✓	✓	✓	✓		
GER	<i>Geranium richardsonii</i> Fisch.& Trautt.			✓	✓		✓		
GRS	<i>Ribes cereum</i> Douglas					✓	✓		
GRS	<i>Ribes inerme</i> Rydberg					✓	✓		
GRS	<i>Ribes montigenum</i> McClatchie	<i>Ribes lacustre</i> (Pers.) Poir. var <i>molle</i> Gray	✓	✓	✓				
GRS	<i>Ribes pinetorum</i> Greene			✓	✓				
HAL	<i>Myriophyllum sibiricum</i> Komarov	<i>M. exalbescens</i> Fernald, <i>M. spicatum</i> L.				✓		✓	
HDC	<i>Elodea bifoliata</i> St John	<i>Elodea longivaginata</i> St John				✓		✓	
HDR	<i>Philadelphus microphyllus</i> Gray				✓				
HYD	<i>Nama dichotomum</i> (Ruiz.& Pavon) Choisy					✓			
HYD	<i>Phacelia egena</i> (Greene) Greene	<i>P. magellanica</i> (Lam.) Coville		✓	✓	✓		✓	
HYD	<i>Phacelia heterophylla</i> Pursh				✓	✓			
HYP	<i>Hypericum scouleri</i> Hook. ssp. <i>scouleri</i>	<i>Hypericum formosum</i> HBK				✓	✓		
IRI	<i>Iris missouriensis</i> Nutt.			✓	✓	✓	✓	✓	
IRI	<i>Sisyrinchium demissum</i> Greene			✓	✓	✓		✓	
IRI	<i>Sisyrinchium longipes</i> (Bicknell) K&P				✓	✓		✓	
JUG	<i>Juglans major</i> (Torr.) Heller					✓	✓		
JUN	<i>Juncus arcticus</i> Willd. var. <i>balticus</i> (Willd.) Trautv.	<i>J. balticus</i> Willd.				✓	✓	✓	
JUN	<i>Juncus bufonius</i> L.					✓	✓	✓	
JUN	<i>Juncus confusus</i> Coville					✓	✓	✓	
JUN	<i>Juncus drummondii</i> Meyer		✓					✓	
JUN	<i>Juncus ensifolius</i> Wikstr. var. <i>brunnescens</i> (Rydb.) Cronq.	<i>Juncus saximontanus</i> A. Nels.		✓	✓	✓	✓	✓	
JUN	<i>Juncus ensifolius</i> Wikstr. var. <i>montanus</i> (Engelm.) Hitchc.	<i>J. saximontanus</i> A. Nels., <i>J. xiphoides</i> E.Meyer var. <i>montanus</i>				✓	✓	✓	
JUN	<i>Juncus longistylis</i> Torrey					✓	✓	✓	
JUN	<i>Juncus marginatus</i> Rostk.	<i>Juncus biflorus</i> Ell.				✓	✓	✓	
JUN	<i>Juncus nevadensis</i> S. Wats.					✓	✓	✓	
JUN	<i>Juncus tenuis</i> Willd.	<i>J. dudleyi</i> Wieg., <i>J. interior</i> Wieg., <i>J. dudleyi</i> Wieg., <i>J. arizonica</i> Wieg.				✓	✓	✓	
JUN	<i>Luzula parviflora</i> Desv.			✓	✓				
JUN	<i>Luzula spicata</i> (L.) DC		✓	✓					
LAM	<i>Agastache pallidiflora</i> (Heller) Rydb.			✓	✓				
LAM	<i>Dracocephalum parviflorum</i> Nutt.	<i>Moldavica parviflora</i> (Nutt.) Britton				✓	✓	✓	
LAM	<i>Hedeoma hyssopifolium</i> Gray					✓	✓	✓	
LAM	<i>Hedeoma oblongifolium</i> (Gray) Heller					✓	✓		
LAM	<i>Leonurus cardiaca</i> L.					✓	✓		w c
LAM	<i>Marrubium vulgare</i> L.					✓	✓	✓	w c
LAM	<i>Mentha arvensis</i> L.					✓			w
LAM	<i>Monarda fistulosa</i> L. var. <i>menthifolia</i> (Graham) Fernald	<i>Monarda menthifolia</i> Graham, <i>M. fistulosa</i> L.				✓	✓	✓	
LAM	<i>Monarda pectinata</i> Nutt.					✓	✓	✓	
LAM	<i>Monardella odoratissima</i> Benth.			✓	✓	✓	✓		
LAM	<i>Prunella vulgaris</i> L.					✓	✓	✓	w' c
LAM	<i>Salvia subincisa</i> Benth.					✓	✓	✓	
LAM	<i>Stachys rothrockii</i> Gray					✓	✓		
LIL	<i>Allium bisceptrum</i> S. Wats. var. <i>palmeri</i> (S.Wats.) Cronq.	<i>Allium palmeri</i> S. Wats				✓			
LIL	<i>Allium geyeri</i> S. Watson					✓	✓		
LIL	<i>Calochortus ambiguus</i> (Jones.) M. Ownbey			✓	✓	✓	✓		
LIL	<i>Calochortus flexuosus</i> S. Watson					✓			
LIL	<i>Calochortus gunnisonii</i> S. Watson					✓			
LIL	<i>Echeandia flavescens</i> (Schult.& Schult.) Cruden	<i>Anthericum torreyi</i> G. Baker				✓	✓		
LIL	<i>Maianthemum racemosum</i> (L.) Link	<i>Smilacina amplexicaule</i> Nutt.; <i>S. racemosa</i> (L.) Desf. v. <i>amplexicaulis</i> (Nutt.) Watson				✓		✓	
LIL	<i>Maianthemum stellatum</i> (L.) Link	<i>Smilacina stellata</i> (L.) Desfontaines				✓	✓	✓	
LIL	<i>Prosartes trachycarpa</i> Watson	<i>Disporum trachycarpum</i> (Watson) B&H				✓	✓	✓	
LIL	<i>Zygadenus elegans</i> Pursh	<i>Anticlea elegans</i> (Pursh) Rydb.				✓	✓	✓	
LIN	<i>Linum aristatum</i> Engelm.					✓			
LIN	<i>Linum australe</i> Heller	<i>Linum aristatum</i> Engelm.				✓	✓	✓	
LIN	<i>Linum lewisii</i> Pursh	<i>Adenolinum lewisii</i> (Pursh) Löve & Löve; <i>Linum perenne</i> L.		✓	✓	✓	✓		
LIN	<i>Linum neomexicanum</i> Greene					✓	✓		
LMN	<i>Lemna minor</i> L.					✓		✓	
LNT	<i>Utricularia vulgaris</i> L.					✓		✓	
LOA	<i>Mentzelia albicaulis</i> (Dougl.) Dougl. ex T&G					✓	✓		
LOA	<i>Mentzelia montana</i> (A.David.) A. David.					✓	✓		
LOA	<i>Mentzelia rusbyi</i> Wooton	<i>Mentzelia nuda</i> (Pursh) Greene				✓	✓	✓	
MLV	<i>Malva neglecta</i> Wallr.					✓	✓		w c
MLV	<i>Sidalcea neomexicana</i> Gray			✓	✓	✓		✓	
MLV	<i>Sphaeralcea fendleri</i> Gray ssp. <i>fendleri</i>					✓	✓	✓	
MNT	<i>Monotropa hypopitys</i> L.	<i>Monotropa latisquama</i> (Rydb.) Hulten		✓	✓	✓	✓		
MNT	<i>Pterospora andromedea</i> Nutt.			✓	✓	✓	✓		
NYC	<i>Mirabilis multiflora</i> (Torr.) Gray					✓	✓		
NYC	<i>Mirabilis albida</i> (Walter) Heimerl	<i>Oxybaphus comatus</i> (Small) Weatherby, <i>M. comata</i> (Small) Standl., <i>M. pumi</i>		✓					
NYC	<i>Mirabilis linearis</i> (Pursh) Heimerl	includes vars. <i>linearis</i> (Pursh) Heimerl and <i>decipiens</i> (Standl.) Welsh		✓	✓	✓	✓		
NYC	<i>Mirabilis oxybaphoides</i> (Gray) Gray					✓	✓		
OLE	<i>Fraxinus anomala</i> Torrey					✓	✓		
OLE	<i>Fraxinus velutina</i> Torrey	<i>Fraxinus pennsylvanica</i> Marsh ssp. <i>velutina</i> (Torr.) G.N.Mill				✓			
ONA	<i>Chamerion angustifolium</i> (L.) Holub	<i>Epilobium angustifolium</i> L.	✓	✓	✓		✓		
ONA	<i>Epilobium brachycarpum</i> K.Presl.	<i>Epilobium paniculatum</i> Nutt. ex T&G; <i>E. adenocaulon</i> (Haussk.) Rydb.				✓			
ONA	<i>Epilobium canum</i> (Greene) Raven	<i>Zauschneria californica</i> Presl.				✓	✓		
ONA	<i>Epilobium ciliatum</i> Raf. ssp. <i>ciliatum</i>	<i>Epilobium adenocaulon</i> Haussk., <i>E. paniculatum</i>		✓	✓	✓	✓		
ONA	<i>Epilobium hornemanni</i> Haussk.			✓	✓			✓	
ONA	<i>Epilobium saximontanum</i> Haussk.		✓	✓	✓			✓	
ONA	<i>Gaura coccinea</i> Nutt. ex Pursh					✓	✓		
ONA	<i>Gaura hexandra</i> Ortega ssp. <i>gracilis</i> (W&S) Raven & Gregory					✓	✓		

Family	Taxa	Synonymy	8	7	6	5	ME ¹	Wet	Adv ¹
ONA	<i>Gayophytum diffusum</i> T&G ssp <i>parviflorum</i> Lewis & Szw.	<i>Gayophytum decipiens</i> Lewis & Szwey., <i>G. lasiospermum</i> Greene			√	√	√		
ONA	<i>Oenothera caespitosa</i> Nutt.			√	√	√			
ONA	<i>Oenothera coronopifolia</i> Torr. & Gray					√	√		
ONA	<i>Oenothera elata</i> Kunth	<i>Oenothera hookeri</i> T & G				√	√		
ONA	<i>Oenothera flava</i> (A. Nels.) Garrett				√	√			
ONA	<i>Oenothera flava</i> (A. Nels.) Garrett ssp <i>taraxacoides</i> (W&S) W.L.Wagner					√			
ONA	<i>Oenothera laciniata</i> Hill				√	√			
ONA	<i>Oenothera neomexicana</i> (Small) Munz				√				
ONA	<i>Oenothera pubescens</i> Willd. Ex Spreng.	<i>O. amplexicaulis</i> (W&S) Tidestrom				√	√		
ORC	<i>Calypso bulbosa</i> (L.) Oakes			√	√				
ORC	<i>Corallorhiza maculata</i> Raf.			√	√	√	√		
ORC	<i>Corallorhiza wisteriana</i> Conrad			√	√	√	√		
ORC	<i>Goodyera oblongifolia</i> Raf.			√	√		√		
ORC	<i>Spiranthes romanzoffiana</i> Cham.				√			√	
ORO	<i>Orobanche uniflora</i> L. var <i>occidentalis</i> (Greene) Taylor & MacBride					√	√		
OXA	<i>Oxalis decaphylla</i> Kunth	<i>Oxalis grayii</i>			√	√	√		
PAP	<i>Argemone pleiacantha</i> Greene					√			
PAP	<i>Eschscholzia californica</i> Cham. var <i>californica</i>					√			w
PIN	<i>Abies arizonica</i> Merriam	<i>A. lasiocarpa</i> (Hooker) Nutt. var <i>arizonica</i> (Merriam) Lemmon	√	√	√				
PIN	<i>Abies concolor</i> (Gord. & Glend.) Lindl. ex Hooker			√	√		√		
PIN	<i>Picea engelmannii</i> Parry		√	√	√				
PIN	<i>Picea pungens</i> Engelm.				√				
PIN	<i>Pinus aristida</i> Engelm.		√	√					
PIN	<i>Pinus edulis</i> Engelm.					√	√		
PIN	<i>Pinus flexilis</i> James			√					
PIN	<i>Pinus ponderosa</i> P.&C. Lawson				√	√	√		
PIN	<i>Pinus strobiformis</i> Engelm.			√	√	√	√		
PIN	<i>Pseudotsuga menziesii</i> Franco			√	√	√	√		
PLG	<i>Eriogonum alatum</i> Torrey					√	√		
PLG	<i>Eriogonum cernuum</i> Nutt.					√			
PLG	<i>Eriogonum fasciculatum</i> Benth					√	√		
PLG	<i>Eriogonum jamesii</i> var. <i>flavescens</i> S. Wats.					√	√		
PLG	<i>Eriogonum pharnaceoides</i> Torrey					√	√		
PLG	<i>Eriogonum polycladon</i> Benth.					√	√		
PLG	<i>Eriogonum racemosum</i> Nutt.				√	√	√		
PLG	<i>Eriogonum umbellatum</i> Torr. var. <i>cognatum</i> (Greene) Reveal					√	√		
PLG	<i>Eriogonum wrightii</i> Torrey					√	√		
PLG	<i>Oxyria digyna</i> (L.) Hill		√	√					
PLG	<i>Polygonum amphibium</i> L.	<i>Persicaria amphibia</i> (L.) S. Gray, <i>Polygonum coccineum</i> Muhl. ex Willd.			√	√	√	√	
PLG	<i>Polygonum arenastrum</i> Jord. ex Bordeau	<i>P. aviculare</i> L. var <i>arenastrum</i>		√	√	√	√		w c
PLG	<i>Polygonum bistortoides</i> Pursh	<i>Bistorta bistortoides</i> (Pursh) Small			√	√		√	
PLG	<i>Polygonum coccineum</i> Muhl.	<i>Persicaria coccinea</i> (Mühlenberg) Greene			√	√	√	√	
PLG	<i>Polygonum convolvulus</i> L.	<i>Fallopia convolvulus</i> (L.) Löve			√	√	√		w c
PLG	<i>Polygonum douglasii</i> Greene	<i>Polygonum sawatchense</i>			√	√	√	√	
PLG	<i>Polygonum lapathifolium</i> L.	<i>Persicaria lapathifolia</i> (L.) S.F. Gray, <i>Polygonum pensylvanicum</i> L.				√		√	w c
PLG	<i>Polygonum polygaloides</i> Wallich ssp. <i>kelloggii</i> (Greene) Hickman	<i>Polygonum kelloggii</i> Greene				√		√	
PLG	<i>Polygonum ramosissimum</i> Michx.				√	√			w c
PLG	<i>Rumex acetosella</i> L.	<i>Acetosella vulgaris</i> (Koch) Fourreau		√	√	√	√		c
PLG	<i>Rumex crispus</i> L.				√	√		√	w c
PLG	<i>Rumex orthoneurus</i> Reich.f.				√	√			
PLG	<i>Rumex salicifolius</i> Weinm. var. <i>mexicanus</i> (Meisn.) C.L. Hitchc.	<i>Rumex mexicanus</i> Meisner			√	√		√	
PLM	<i>Collomia grandiflora</i> Dougl. ex Lindl.					√			
PLM	<i>Collomia linearis</i> Nuttall				√	√			
PLM	<i>Gilia inconspicua</i> (Sm.) Sweet	<i>G. inconspicua</i> var <i>sinuata</i> (Dougl.) Gray				√	√		
PLM	<i>Ipomopsis aggregata</i> (Pursh.) V. Grant			√	√	√	√		
PLM	<i>Ipomopsis arizonica</i> (Greene) Wherry	<i>Ipomopsis aggregata</i> ssp <i>arizonica</i> (Greene) V.&A. Grant			√	√	√		
PLM	<i>Ipomopsis multiflora</i> (Nutt.) V. Grant				√	√	√		
PLM	<i>Ipomopsis polyantha</i> Rydb.) V. Grant				√				
PLM	<i>Ipomopsis tenuituba</i> (Rydb.) V. Grant ssp. <i>latiloba</i> V. Grant & Wilken				√	√			
PLM	<i>Navarretia intertextata</i> (Benth.) Hook. ssp. <i>propinqua</i> (Susks.) Day	<i>N. intertextata</i> var. <i>propinqua</i> (Susks.) Brand, <i>N. saximontana</i> S.C. Spencer, in		√	√	√		√	
PLM	<i>Phlox austromontana</i> Coville				√	√	√		
PLM	<i>Phlox gracilis</i> (Hook.) Greene	<i>Microsteris gracilis</i>				√	√		
PLM	<i>Phlox speciosa</i> Pursh ssp. <i>woodhousei</i> (Torrey) Wherry	<i>Phlox woodhousei</i> (Gray) E. Nels.				√			
PLM	<i>Polemonium foliosissimum</i> (Gray) var <i>alpinum</i> Brand				√			√	
PLM	<i>Polemonium pulcherrimum</i> Hook. ssp. <i>delicatum</i> (Rydb.) Brand	<i>Polemonium delicatum</i> Rydb.	√	√					
PLM	<i>Polemonium viscosum</i> Nutt.		√	√					
POA	<i>Achnatherum hymenoides</i> (Roemer & Schultes) Barkworth	<i>Oryzopsis hymenoides</i>				√			
POA	<i>Achnatherum robustum</i> (Vasey) Barkworth	<i>Stipa robusta</i> (Vasey) Scribn.				√			
POA	<i>Aegilops cylindrica</i> Host					√			w c
POA	<i>Agropyron desertorum</i> (Fisch ex Link) Schultes	<i>A. cristatum</i> (L.) Gaertn.			√	√			w c
POA	<i>Agrostis exarata</i> Trin.			√	√	√		√	w
POA	<i>Agrostis idahoensis</i> Nash		√	√					
POA	<i>Agrostis scabra</i> Willd.	<i>Agrostis hymenalis</i> (Walt.) BSP		√	√	√	√	√	
POA	<i>Agrostis stolonifera</i> L.	<i>Agrostis alba</i> L., <i>A. palustris</i> Huds.			√	√	√	√	w c
POA	<i>Alopecurus aequalis</i> Sobol				√	√	√	√	
POA	<i>Alopecurus carolinianus</i> Walt.				√			√	w
POA	<i>Alopecurus geniculatus</i> L.				√	√		√	w c
POA	<i>Aristida arizonica</i> Vasey					√	√		
POA	<i>Aristida divaricata</i> Humb. & Bonpl. ex Willd.					√			
POA	<i>Aristida purpurea</i> var <i>longiseta</i> (Steud.) Vasey					√	√		
POA	<i>Blepharoneuron tricholepis</i> (Torrey) Nash			√	√	√	√		
POA	<i>Bouteloua curtipendula</i> (Michx.) Torrey					√	√		
POA	<i>Bouteloua gracilis</i> (Willd. ex Kunth.) Lag. ex Griffiths					√	√		
POA	<i>Bouteloua simplex</i> Lag.					√			
POA	<i>Bromus carinatus</i> Hooker & Arnott	<i>Ceratocloa carinata</i> (Hook. & Arn.) Tutin, <i>B. marginatus</i> Nees; <i>B. polyanthus</i> Scribn			√	√	√		w

Family	Taxa	Synonymy	8	7	6	5	ME ¹	Wet	Adv ¹
POA	<i>Bromus catharticus</i> Hooker & Arnott	<i>Ceratochloa cathartica</i> (Vahl.) Herter					✓		c
POA	<i>Bromus ciliatus</i> L.	<i>Bromopsis canadensis</i> (Michx.) Holub ssp <i>richardsonii</i> (Link) Tsvelev;	✓	✓	✓	✓	✓		
POA	<i>Bromus commutatus</i> Schrader	Welsh treats as <i>Bromus japonicus</i> Thunberg			✓				w
POA	<i>Bromus inermis</i> Leys.			✓	✓	✓	✓		w c
POA	<i>Bromus japonicus</i> Thunb. ex Murr.				✓	✓			w c
POA	<i>Bromus lanatipes</i> (Shear) Rydb.	<i>Bromus porteri</i> var <i>lanatipes</i>				✓	✓		
POA	<i>Bromus porteri</i> (Cout.) Nash	<i>Bromus anomalous</i> Rupr., <i>Bromopsis anomala</i> (Rupr.) Holub.	✓	✓	✓	✓	✓		
POA	<i>Bromus tectorum</i> L.	<i>Anisantha tectorum</i> (L.) Nevski.				✓	✓	✓	w c
POA	<i>Calamagrostis canadensis</i> (Michx.) Beauv.			✓					✓
POA	<i>Dactylis glomerata</i> L.			✓	✓	✓	✓		w c
POA	<i>Danthonia intermedia</i> Vasey			✓					
POA	<i>Deschampsia caespitosa</i> (L.) Beauv.				✓				✓
POA	<i>Dichanthelium oligosanthes</i> (Schult.) Gould var <i>scribnerianum</i> (Nash)	<i>Panicum scribnerianum</i> Nash					✓	✓	
POA	<i>Elymus alakanus</i> (Scrib. & Merr.) A.Löve ssp <i>latiglumis</i> (Scrib. & Merr.) A.Löve	<i>Agropyrum trachycaulum</i> var. <i>latiglume</i>	✓	✓					
POA	<i>Elymus elymoides</i> (Raf.) Swezey ssp <i>brevifolius</i> (J.G. Sm.) Barkw	<i>Elymus longifolius</i> (J.G. Sm.) Gould			✓	✓	✓	✓	
POA	<i>Elymus elymoides</i> (Raf.) Swezey ssp <i>elymoides</i>	<i>Sitanion hystrix</i>		✓	✓	✓	✓		
POA	<i>Elymus lanceolatus</i> (Scrib. & Smith) ssp <i>lanceolatus</i>	<i>Agropyron dasystachyum</i> Hook. Scrib. & Smith					✓	✓	
POA	<i>Elymus repens</i> (L.) Gould	<i>Agropyron repens</i> (L.) Beauv.		✓	✓	✓			
POA	<i>Elymus scribneri</i> (Vasey) M.E. Jones	<i>Agropyron scribneri</i> Vasey	✓	✓					
POA	<i>Elymus trachycaulus</i> (Link) Gould ex Shinnars	<i>Agropyron trachycaulum</i> (Link) Malte		✓	✓	✓	✓		
POA	<i>Elymus trachycaulus</i> (Link) Gould ex Shinnars var <i>subsecundus</i>	<i>A. subsecundum</i> (Link) Hitchc.; E. t. (Link) Gould ssp <i>glauca</i> (Pease & Moor)		✓					
POA	<i>Elymus x pseudorepens</i> (Scrib. & Smith) Barkworth & Dewey	<i>Agropyron pseudorepens</i> Scrib. & Smith		✓	✓				
POA	<i>Elymus x saundersii</i> Vasey [<i>elymoides</i> x <i>trachycaulus</i>]	<i>Agrostitanion saundersii</i> (Vasey) Bowden					✓		
POA	<i>Eragrostis curvula</i> (Schrader) Neesom						✓	✓	w c
POA	<i>Eragrostis cilianensis</i> (Allioni) Vign. ex. Jachen	<i>Eragrostis megastachya</i> (Koel.) Link.					✓	✓	w c
POA	<i>Eragrostis mexicana</i> (Hornem.) Link						✓	✓	
POA	<i>Eragrostis pectinacea</i> Neesom ex. Steud	<i>E. diffusa</i> Buckley							
POA	<i>Festuca arizonica</i> Vasey			✓	✓	✓	✓		
POA	<i>Festuca brachyphylla</i> (J.A. Schultes) ssp <i>coloradensis</i> Frederikse	<i>Festuca ovina</i> L. var <i>brevifolia</i> auct. p.p.	✓	✓					
POA	<i>Festuca calligera</i> Piper			✓					
POA	<i>Festuca earlei</i> Rydberg	<i>F. ovina</i> L. var <i>brachyphylla</i> (Schult.) Piper	✓	✓					
POA	<i>Festuca minutiflora</i> Rydberg		✓	✓					
POA	<i>Festuca ovina</i> L.			✓	✓	✓	✓		w
POA	<i>Festuca pratensis</i> Huds.	<i>Lolium pratense</i> (Huds.) Darbyshire		✓	✓				w c
POA	<i>Festuca rubra</i> L.	<i>F. ovina</i> L. complex		✓	✓		✓		a w ²
POA	<i>Festuca saximontana</i> Rydberg	<i>F. brachyphylla</i> ssp <i>saximontana</i> (Rydb.) Hultén		✓					
POA	<i>Festuca sororia</i> Piper			✓					
POA	<i>Festuca trachyphylla</i> (Hackel) Krajina			✓	✓				a c
POA	<i>Festuca valesiaca</i> Schleich. ex Gaudin			✓					a c
POA	<i>Glyceria borealis</i> (Nash) Batchelder				✓	✓			✓
POA	<i>Glyceria striata</i> (Lam.) Hitchc.				✓				✓
POA	<i>Heterostipa comata</i> (Trin. & Rupr.) Barkworth	<i>Stipa comata</i>				✓	✓		
POA	<i>Hordeum brachyantherum</i> Nevskii. ssp <i>brachyantherum</i>	<i>Hordeum jubatum</i> L.; <i>Critesion jubatum</i>			✓	✓			✓
POA	<i>Hordeum jubatum</i> L.	<i>Critesion jubatum</i> (L.) Nevski		✓		✓	✓		
POA	<i>Koeleria macrantha</i> (Ledeb.) J.A. Schultes			✓	✓	✓	✓		
POA	<i>Lolium perenne</i> L.	<i>L. multiflorum</i> Lam.		✓	✓	✓	✓		w c
POA	<i>Lycurus setosus</i> (Nuttall) C. Reeder	<i>L. phleoides</i>				✓	✓		
POA	<i>Muhlenbergia longiligula</i> A.S. Hitchc.					✓	✓		
POA	<i>Muhlenbergia minutissima</i> (Steud) Swallen				✓	✓	✓		
POA	<i>Muhlenbergia montana</i> (Nutt.) Hitchc.			✓	✓	✓	✓		
POA	<i>Muhlenbergia monticola</i> Buckley					✓	✓		
POA	<i>Muhlenbergia pauciflora</i> Buckley					✓	✓	✓	
POA	<i>Muhlenbergia ramulosa</i> (Kunth.) Swallen	<i>Muhlenbergia wolfii</i> (Vasey) Rydb.			✓	✓			
POA	<i>Muhlenbergia richardsonii</i> (Trin.) Rydberg					✓			
POA	<i>Muhlenbergia rigens</i> (Benth.) Hitchc.				✓	✓			
POA	<i>Muhlenbergia virescens</i> (HBK) Kunth.				✓	✓	✓		
POA	<i>Muhlenbergia wrightii</i> Vasey			✓	✓	✓	✓		
POA	<i>Munroa squarrosa</i> (Nutt.) Torrey	<i>Monroa squarrosa</i> (Nutt.) Torrey				✓	✓		
POA	<i>Panicum bulbosum</i> HBK					✓	✓		
POA	<i>Pascopyrum smithii</i> (Rydberg) A. Löve	<i>Agropyron smithii</i> Rydb.				✓	✓	✓	
POA	<i>Phalaris arundinacea</i> L.							✓	
POA	<i>Phleum alpinum</i> L.	<i>Phleum commutatum</i> Gaudin	✓	✓	✓				
POA	<i>Phleum pratense</i> L.B769			✓	✓	✓			w c
POA	<i>Piptatherum micranthum</i> (Trin. & Rupr.) Barkworth	<i>Oryzopsis micrantha</i> (Trin. & Rupr.) Thurb.				✓	✓		
POA	<i>Piptochaetium pringlei</i> (Beal) Parody	<i>Stipa pringlei</i> (Beal) Scribn.				✓	✓		
POA	<i>Poa arctica</i> R. Br.		✓	✓					
POA	<i>Poa compressa</i> L.				✓	✓			c
POA	<i>Poa fendleriana</i> (Steud.) Vasey	<i>Poa longiligula</i> Scrib. & Williams, <i>P. fendleriana</i> ssp <i>longiligula</i>	✓	✓	✓	✓	✓		
POA	<i>Poa glauca</i> Vahl ssp <i>rupicola</i> (Nash ex Rydb.) W.A. Weber	<i>Poa rupicola</i> Nash, <i>Poa interior</i> Rydberg, <i>P. nemoralis</i> L. ssp <i>interior</i>	✓	✓					
POA	<i>Poa juncifolia</i> Scribner var. <i>ampla</i> (Merr.) Dorn	<i>Poa nevadensis</i> Vasey, <i>Poa secunda</i> Presl., <i>Poa ampla</i> Merrill				✓			✓
POA	<i>Poa nervosa</i> (Hooker) Vasey				✓	✓			
POA	<i>Poa palustris</i> L.				✓				
POA	<i>Poa pratensis</i> L.		✓	✓	✓	✓	✓		w c
POA	<i>Poa reflexa</i> Vasey & Schrib.		✓	✓	✓				✓
POA	<i>Pseudelymus saxicola</i> (Scrib. & J.G. Smith) Barkworth & Dewey [E	<i>Agrostitanion saxicola</i> (Scrib. & J.G. Sm.) Bowden, E x <i>saxicolus</i> Scrib. & Sm		✓					
POA	<i>Schizachyrium scoparium</i> (Michx.) Nash					✓	✓		
POA	<i>Setaria viridis</i> (L.) Beauv.					✓			c
POA	<i>Sporobolus cryptandrus</i> (Torrey) Gray					✓	✓		
POA	<i>Sporobolus interruptus</i> Vasey					✓			
POA	<i>Thinopyrum intermedium</i> (Host) Barkworth & D.R. Dewey	<i>Agropyron intermedium</i> (Host) Beauv. var <i>trichophorum</i> (Link) Halacsy		✓	✓	✓	✓		w c
POA	<i>Thinopyrum ponticum</i> (Podp.) Z.W. Liu & R.C. Wang	<i>Agropyron elongatum</i> (Host) Beauv., <i>Elymus elongatus</i> (Host) Runem.			✓	✓	✓		w c
POA	<i>Trisetum spicatum</i> (L.) Richt.	<i>Trisetum montanum</i> Vasey	✓	✓	✓				
POR	<i>Montia chamissoi</i> (Ledebour) Greene	<i>Cruncallis chamissoi</i> (Ledebour) Rydb.		✓	✓	✓			✓
POT	<i>Potamogeton gramineus</i> L.				✓				✓
POT	<i>Potamogeton natans</i> L.				✓				✓

Family	Taxa	Synonymy	8	7	6	5	ME ¹	Wet	Adv ¹
POT	<i>Potamogeton pectinatus</i> L.					✓		✓	
POT	<i>Potamogeton pusillus</i> L.			✓	✓			✓	
PRI	<i>Androsace septentrionalis</i> L.		✓	✓	✓	✓	✓		
PRI	<i>Primula parryi</i> Gray		✓	✓				✓	
PTG	<i>Plantago argyrea</i> Morris	<i>P. purshii</i> (Roem. & Schult.) v. <i>argyrea</i> (Morris) Poe, <i>P. patagonia</i> Jacq.				✓	✓		
PTG	<i>Plantago major</i> L.				✓	✓			w c
PYR	<i>Chimaphila umbellata</i> (L.) W.Bart. ssp. <i>acuta</i> (Rydb.) Hulten				✓				
PYR	<i>Moneses uniflora</i> (L.) Gray	<i>Pyrola uniflora</i> Gray		✓					
PYR	<i>Orthilia secunda</i> (L.) House	<i>Ramischia secunda</i> , <i>Pyrola secunda</i>		✓	✓				
PYR	<i>Pyrola chlorantha</i> Sw.	<i>Pyrola virens</i> Schreb.		✓	✓		✓		
PYR	<i>Pyrola minor</i> L.			✓					
PYR	<i>Pyrola picta</i> J.E. Smith			✓	✓		✓		
RAN	<i>Aconitum columbianum</i> Nutt. ssp. <i>columbianum</i>	<i>Aconitum infectum</i> Greene		✓	✓			✓	
RAN	<i>Actaea rubra</i> (Ait.) Willd. ssp. <i>arguta</i> (Nutt.) Hulten	<i>Actaea arguta</i> Nuttall		✓	✓				
RAN	<i>Anemone cylindrica</i> Gray	<i>Anemone multifida</i> var. <i>stylosa</i> (A. Nels.) Dutton & Keene, var. <i>tetonensis</i> (T.C. Porter) Hitchc		✓	✓		✓		
RAN	<i>Anemone multifida</i> Poir. var. <i>hudsoniana</i> DC	<i>Anemone globosa</i> (T & G) Nuttall, <i>Anemone stylosa</i> A. Nelson	✓	✓	✓				
RAN	<i>Aquilegia caerulea</i> James var. <i>pinetorum</i> (Tidestrom) Payson	<i>A. coerulea</i> James v. <i>pinetorum</i>		✓	✓				
RAN	<i>Aquilegia chrysantha</i> Gray		✓	✓	✓				
RAN	<i>Aquilegia desertorum</i> (Jones) Cockerell				✓	✓	✓		
RAN	<i>Clematis hirsutissima</i> Pursh				✓	✓			
RAN	<i>Delphinium geraniifolium</i> Rydberg				✓	✓		✓	
RAN	<i>Delphinium scaposum</i> Greene				✓	✓			
RAN	<i>Myosurus apetalus</i> (C. Gay) var. <i>montanus</i> (Campbell) Whitemore	<i>Myosurus aristatus</i> Benth. ex Hooker ssp. <i>montanus</i> (Campbell) Stone			✓			✓	
RAN	<i>Ranunculus cardiophyllum</i> Hooker				✓	✓		✓	
RAN	<i>Ranunculus cymbalaria</i> Pursh				✓	✓		✓	
RAN	<i>Ranunculus eschscholtzii</i> Schlect.			✓				✓	
RAN	<i>Ranunculus hyrdocharoides</i> Gray				✓	✓		✓	
RAN	<i>Ranunculus inamoenus</i> Greene var. <i>inamoenus</i>			✓	✓	✓	✓	✓	
RAN	<i>Ranunculus inamoenus</i> Greene var. <i>subaffinis</i> (Gray) L. Benson		✓	✓					
RAN	<i>Ranunculus macounii</i> Britton				✓	✓		✓	
RAN	<i>Ranunculus oregonus</i> Greene				✓	✓		✓	
RAN	<i>Ranunculus pedatifidus</i> Sm. var. <i>affinis</i> (R.Br.) Benson		✓	✓				✓	
RAN	<i>Ranunculus pensylvanicus</i> L.f.				✓	✓		✓	
RAN	<i>Ranunculus trichophyllus</i> Chaix var. <i>trichophyllus</i>	<i>R. aquatilis</i> L. var. <i>capillaceus</i> (Thuill.) DC; <i>Batrachium trichophyllum</i> van den Bosch			✓	✓		✓	
RAN	<i>Thalictrum fendleri</i> Engelm. ex Gray			✓	✓	✓	✓	✓	
RHM	<i>Ceanothus fendleri</i> Gray			✓	✓	✓	✓	✓	
ROS	<i>Acomastylis rossii</i> (R. Brown) Greene ssp. <i>turbinata</i> (Rydb.) Weber	<i>Geum rossii</i> (R.Br.) Ser. var. <i>turbinatum</i> (Rydb.) Hitchc.	✓	✓					
ROS	<i>Amelanchier utahensis</i> Koehne			✓	✓	✓	✓		
ROS	<i>Cercocarpus breviflorus</i> Gray var. <i>mogollonensis</i> R.A. Denham	<i>Cercocarpus montanus</i> Raf.				✓	✓		
ROS	<i>Chamaebatiaria millefolium</i> (Torr.) Maxim				✓	✓	✓		
ROS	<i>Dasiphora fruticosa</i> (L.) Rydberg	<i>Pentaphylloides floribunda</i> (Pursh) A. Löve			✓			✓	
ROS	<i>Fallugia paradoxa</i> (D. Don) Enlicher				✓	✓	✓		
ROS	<i>Fragaria vesca</i> L.	<i>Fragaria bracteata</i> Heller, F.v. var. <i>americana</i> Porter		✓					
ROS	<i>Fragaria virginiana</i> Duche. ssp. <i>glauca</i> (S.Wats) Staudt.	<i>Fragaria ovals</i> (Lehm.) Rydberg	✓	✓	✓	✓			
ROS	<i>Geum triflorum</i> Pursh.	<i>Erythrocoma triflora</i> (Pursh) Greene		✓	✓				
ROS	<i>Holodiscus dumosus</i> (Nutt.) Heller			✓	✓	✓	✓		
ROS	<i>Potentilla anserina</i> L.	<i>Argentina anserina</i> (L.) Rydberg			✓	✓	✓	✓	
ROS	<i>Potentilla concinna</i> Richards		✓	✓	✓		✓		
ROS	<i>Potentilla crinita</i> Gray				✓				
ROS	<i>Potentilla diversifolia</i> Lehm.		✓	✓					
ROS	<i>Potentilla hippiana</i> Lehm.		✓	✓	✓	✓	✓		
ROS	<i>Potentilla nivea</i> L.		✓						
ROS	<i>Potentilla norvegica</i> L.			✓	✓	✓		✓	w
ROS	<i>Potentilla pensylvanica</i> L.		✓	✓					
ROS	<i>Potentilla recta</i> L.	<i>P. recta</i> L. var. <i>sulphurea</i> (Lam.) Lam. & DeCandolle				✓			w
ROS	<i>Potentilla subviscosa</i> Greene		✓	✓	✓	✓			
ROS	<i>Potentilla thurberi</i> Gray				✓	✓	✓	✓	
ROS	<i>Prunus emarginata</i> (Dougl.) Walp.				✓		✓		
ROS	<i>Purshia mexicana</i> (D. Don) Henrickson				✓	✓	✓		
ROS	<i>Rosa woodsii</i> Lindl. var. <i>ultramontana</i> (S. Wats.) Jepson	<i>Rosa arizonica</i> Rydberg			✓	✓			
ROS	<i>Rubus idaeus</i> L.	<i>Rubus strigosus</i> L. ssp. <i>idaeus</i> (Michx.) Focke		✓	✓		✓		
ROS	<i>Rubus neomexicanus</i> Gray	<i>Orobatus deliciosus</i> (James) Rydb. ssp. <i>neomexicanus</i> (Gray) W.A. Weber		✓					
ROS	<i>Sanguisorba minor</i> Scop.				✓		✓		
ROS	<i>Sibbaldia procumbens</i> L.	<i>Potentilla sibbaldii</i> Haller f.	✓	✓					
ROS	<i>Sorbus scopulina</i> Greene	<i>Sorbus dumosa</i> Greene		✓	✓		✓		
RUB	<i>Galium aparine</i> L.					✓	✓		w c
RUB	<i>Hedyotis pygmaea</i> Roemer & Schultes	<i>Houstonia wrightii</i> Gray			✓	✓			
RUB	<i>Kelloggia galioides</i> Torr.				✓	✓		✓	
RUB	<i>Galium wrightii</i> Gray				✓	✓	✓		
SAL	<i>Populus tremuloides</i> Michx.			✓	✓		✓		
SAL	<i>Salix bebbiana</i> Sargent			✓	✓			✓	
SAL	<i>Salix exigua</i> Nuttall					✓		✓	
SAL	<i>Salix lasiolepis</i> Benth.					✓	✓	✓	
SAL	<i>Salix lucida</i> Muhl. ssp. <i>lasiandra</i> (Muhl.) Murray	<i>Salix lasiandra</i> Benth. var. <i>caudata</i> (Nutt.) Sud.				✓	✓	✓	
SAL	<i>Salix scouleriana</i> Barratt			✓	✓		✓		
SAX	<i>Heuchera rubescens</i> Torrey var. <i>versicolor</i> (Greene) Stewart	<i>Heuchera versicolor</i> Greene var. <i>pumila</i> Rosend.	✓	✓	✓	✓	✓		
SAX	<i>Lithophragma tenella</i> Nuttall					✓			
SAX	<i>Saxifraga caespitosa</i> (L.) ssp. <i>exaratooides</i>	<i>Muscaria adscendens</i> (L.) Small	✓						
SAX	<i>Saxifraga flagellaris</i> Willdenow	<i>Hirculus platysepalus</i> (Traut.) Weber ssp. <i>crandallii</i> (Gandoger) Webe	✓						
SAX	<i>Saxifraga rhomboidea</i> Greene	<i>Saxifraga rhomboidea</i> Greene var. <i>franciscana</i> (Small) K & P	✓	✓	✓	✓			
SAX	<i>Saxifraga rivularis</i> L.	<i>Saxifraga debilis</i> Engelm.	✓	✓					
SCR	<i>Besseyia arizonica</i> Pennell			✓	✓	✓			
SCR	<i>Castilleja applegatei</i> Fern ssp. <i>martinei</i> (Abrams) Chuang & Heck	<i>Castilleja angustifolia</i> (Nutt.) G. Don. var. <i>dubia</i> A. Nels				✓			
SCR	<i>Castilleja austromontana</i> Standley & Blumer			✓	✓	✓	✓		
SCR	<i>Castilleja integra</i> Gray				✓	✓			

Family	Taxa	Synonymy	8	7	6	5	ME ¹	Wet	Adv ¹
SCR	<i>Castilleja miniata</i> Dougl. ex Hook. ssp. <i>miniata</i>	<i>Castilleja confusa</i> Greene		√	√	√	√		
SCR	<i>Limosella acaulis</i> Sesse & Moc.				√			√	
SCR	<i>Limosella aquatica</i> L.				√			√	
SCR	<i>Linaria dalmatica</i> (L.) P.Mill.				√	√	√		n w c
SCR	<i>Linaria vulgaris</i> L.				√	√	√		n w c
SCR	<i>Mimulus guttatus</i> DC	<i>Mimulus nasutus</i> Greene		√	√	√		√	
SCR	<i>Mimulus primuloides</i> Benth				√			√	
SCR	<i>Mimulus rubellus</i> Gray					√		√	
SCR	<i>Mimulus tilingii</i> Regel			√				√	
SCR	<i>Orthocarpus luteus</i> Nutt.			√	√	√			
SCR	<i>Orthocarpus purpureoalbus</i> Gray ex. S. Wats.					√	√		
SCR	<i>Pedicularis centanthera</i> Gray				√	√	√		
SCR	<i>Pedicularis parryi</i> Gray		√	√					
SCR	<i>Penstemon barbatus</i> (Cav.) Roth.			√	√	√	√		
SCR	<i>Penstemon linarioides</i> Gray ssp. <i>compactus</i> Keck					√	√		
SCR	<i>Penstemon oliganthus</i> W&S					√	√		
SCR	<i>Penstemon pseudoputus</i> (Crosswhite) N. Holmgren	<i>P. virgatus</i> Gray ssp. <i>pseudoputus</i> Crossw.					√		
SCR	<i>Penstemon pseudospectabilis</i> M.E. Jones ssp. <i>connatifolius</i> (A. Nels.) Keck				√				
SCR	<i>Penstemon rostriflorus</i> Kellogg	<i>P. bridgesii</i> Gray				√	√		
SCR	<i>Penstemon strictus</i> Benth					√	√		√
SCR	<i>Penstemon virgatus</i> Gray ssp. <i>arizonicus</i> (Gray) Keck	<i>P. deaveri</i> Crosswhite		√	√	√	√		
SCR	<i>Penstemon whippleanus</i> Gray		√	√					
SCR	<i>Verbascum blatteria</i> L.					√			w c
SCR	<i>Verbascum thapsus</i> L.			√	√	√	√		w c
SCR	<i>Verbascum virgatum</i> Stokes					√			m c
SCR	<i>Veronica peregrina</i> L. ssp. <i>xalapensis</i> (Kunth) Pennell				√	√		√	w
SCR	<i>Veronica wormskjoldii</i> Roem. & Schult.	<i>Veronica scutellata</i> L.	√	√				√	
SOL	<i>Datura wrightii</i> Regel	<i>D. meteloides</i> auct. p.p. non Dunal				√	√		
SOL	<i>Nicotiana attenuata</i> Torr. ex S.Wats.					√			
SOL	<i>Physalis hederifolia</i> Gray	<i>P. hederifolia</i> var. <i>fendleri</i> (Gray) Cronq., <i>P. hederifolia</i> var. <i>cordifolia</i> Gray				√	√		
SOL	<i>Solanum jamesii</i> Torrey					√	√		
SOL	<i>Solanum triflorum</i> Nuttall					√	√		
TYP	<i>Typha latifolia</i> L.					√		√	
ULM	<i>Ulmus pumila</i> L.					√	√		m c
VAL	<i>Valeriana arizonica</i> Gray	<i>V. acutiloba</i> Rydb. var. <i>ovata</i> (Rydb.) A. Nels.				√	√		
VAL	<i>Valeriana capitata</i> Pall. ssp. <i>acutiloba</i> (Rydb.) Meyer	<i>V. acutiloba</i> Rydb. var. <i>acutiloba</i>		√	√				
VAL	<i>Valeriana edulis</i> Nutt. ex. Torrey & Gray			√	√	√			
VIO	<i>Viola adunca</i> J.E.Smith				√			√	
VIO	<i>Viola canadensis</i> L. var. <i>rugulosa</i> (Greene) C.L. Hitchc.	<i>Viola rugulosa</i> Greene		√	√		√		
VIO	<i>Viola nephrophylla</i> Greene var. <i>arizonica</i>				√			√	
VIS	<i>Arceuthobium douglasii</i> Engelm.				√				
VIS	<i>Arceuthobium microcarpum</i> (Engelm.) Hawksw. & Wiens				√				
VIS	<i>Arceuthobium vaginatum</i> (Willd.) J. Presl. ssp. <i>cryptopodum</i> (Engelm.) Hawks. & Wiens				√	√	√		
VIT	<i>Vitis arizonica</i> Engelm.				√	√	√	√	
VRB	<i>Glandularia bipinnatifida</i> (Nutt.) Nutt.	<i>Verbena bipinnatifida</i> Nutt.				√			
VRB	<i>Verbena bracteata</i> Lag. & Rodr.					√	√		w
VRB	<i>Verbena maddougali</i> Heller					√	√	√	
Total:	810		94	283	417	585	382	132	109
									13.5%

¹ Adventive plants based on Weber & Wittman 1992 [w], Cox 2001[c], Akins [a], and McDougal 1973 [m], n=noxious. ²Weber's *F. rubra* = Akin's *earlei*, Akin's *rubra* are cultivars = Weber's *ovina*.
ME = Mount Elden, WET = obligate and some preferential wetland plants.

May 21, 2006