



***Northern Arizona University
Deaver Herbarium Staff***

September 3, 2004
Previous versions are obsolete

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
SFP Research Natural Area
Snow Bowl
Walker Lake
White Horse Hills

Vascular Plants of the San Francisco Peaks Area

Key and Descriptions of Life Zones (LZ)

- | | | |
|---|---|-----------------------------|
| 1 | High elevations ($\geq 11,000$ ft) without trees ... | LZ 8, Alpine tundra |
| 1 | Lower elevations, or trees present... 2 | |
| 2 | Trees < about 20 feet tall... 3 | |
| 2 | Trees > 20 feet 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 <i>regeneration</i> includes Engelmann spruce or corkbark fir ^a ... | LZ 7, Spruce-Fir forest |
| 4 | No <i>regeneration</i> by above trees ^b ... 5 | |
| 5 | Tree <i>regeneration</i> includes white fir or Douglas-fir ^a ... | LZ 6, Mixed conifer forest |
| 5 | Tree <i>regeneration</i> is ponderosa pine ... | 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

Spruce-Fir forests are recognized by dominance or good regeneration from either or both of *Picea engelmannii* and *Abies arizonica*. At low elevations Spruce-Fir can be confused when conifers of other life zones are also present as regeneration or overstory trees. However *Picea engelmannii* and *Abies arizonica* are common as seedlings or sapling trees. Spruce-Fir 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. Open forests are often described as "park-like".

Mixed conifer forests are identified by dominance or good regeneration from *Abies concolor* or *Pseudotsuga menziesii*. Seedlings or saplings of *Picea engelmannii* and/or *Abies arizonica* are absent or minor (*i.e.* restricted to favorable microsites, but otherwise absent or rare). At lower elevations or warmer sites mixed conifer forests can be confused with ponderosa pine forests when this pine is common as an overstory tree. However *Pinus ponderosa* is not regenerating well or is merely accidental in special sites, whereas *Abies concolor* or *Pseudotsuga menziesii* remain common as seedlings or saplings. Mixed conifer forests are usually close-canopied, but occasionally occur as park-like forests.

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. *Pinus ponderosa* 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. At higher elevations or cooler microsites Southwestern white pine (*Pinus strobiformis*) may occur with ponderosa pine. At lower elevations and warmer microsites pinyon pine (*Pinus edulis*) or junipers (*Juniperus*) may occur with ponderosa pine.

Woodlands occur on windy or exposed topography and high elevations (usually > 10,000 ft) and on topographically hot, droughty sites at low elevations (usually < 7,500 ft). The former feature bristlecone, limber, or southwestern white pines (*P. aristata*, *P. flexilis*, *P. strobiformis*) in generally open stands. The latter contain pinyon pine (*Pinus edulis*), alligator, and one-seed junipers (*Juniperus deppeana*, *J. monosperma*, *J. scopulorum*) in closed or open-canopied structure. Mountain mahogany (*Cercocarpus montanus*) and/or

Gambel oak (*Quercus gambelii*) may be common among the conifers at these lower elevations. Low elevation woodlands are on special topography, surrounded below by ponderosa pine forests. At lower elevations outside the SFP area woodlands are extensive and constitute life zone 4. Within the SFP area, however, pinyon-juniper woodlands are treated as inclusions in the ponderosa pine life zone 5.

Aspen (*Populus tremuloides*) is common at lower elevations of spruce-fir forests, throughout mixed conifer forests, and occasionally in wetter sites of ponderosa pine forests. It usually forms a closed-canopied forest, punctuated by overstory or regenerating conifers of the life zone determined in the key above. Aspen 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 in patchy arrangement with other clones in the burned sites. Eventually conifers are reseeded or replanted. 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 in an otherwise forested or wooded life zone. Examples are Kendrick, Doney, Sunset, Turkey, and Oldham Parks, as well as Hart Prairie. The life zone of a park environment is determined by applying the above key to the nearest forest edge. Hart Prairie is large enough to span two or more life zones.

Wetlands contain plants that depend on more soil water than supplied by onsite precipitation alone. Wetlands are not common in the SFP area, but include springs, tanks, intermittent streams and lakes, melting snowfields, and places receiving overland flow from roads, culverts, and other man-made environments. The life zone of a wetland is that of the forest or tundra in which it occurs. Many plants can grow in wetlands. Our list indicates mostly obligate wetland plants that require the extra soil water. Some wetland plants can also grow on drier soils but favor wetlands as expressed by their increased density, cover, or more robust growth. We use the term **drylands** for lands receiving soil water in the form of onsite precipitation only.

June 2, 2004

San Francisco Peaks Area - Major Environments

Life Zones (LZ):	8	7	6	5	4^f
Merriam:	Alpine tundra Arctic	Spruce-fir Hudsonian	Mixed conifer Canadian	Ponderosa Pine Transition	Woodland Upper Sonoran
Plant communities:		Bristlecone pine aspen	aspen		Pinyon-Juniper
Parks, dry meadows, prairies, forest openings		Inner Basin Fescue meadows	UpperHart Prairie Fescue meadows Oldham Park Turkey Park Lockett Meadow Sunset Park	LowerHart Prairie Fescue meadows Kendrick Park	
Wetlands	melting snowfields	streamsides wet meadows springs & seeps melting snowfields	tanks ^a streamsides wet meadows springs & seeps Walker Lake Crater Lake Bismarck Lake	tanks ^a streamsides wet meadows springs & seeps Rio de Flag	
Disturbed areas		linear ^b patchy ^c	linear ^b patchy ^c fire ^d	linear ^b patchy ^c fire ^d	
	talus gravelly soils	talus gravelly soils		rock cracks and ledges ^e	

notes

- a- see Ricketson (1990)
- b- road and trail sides, utility easements, pipelines, ski lifts
- c- prairie dogs, pocket gophers, and other-caused locally disturbed soils
- d- Hochderffer (1996), Radio (1977), Morefield (ref 1985)
- e- primarily dacitic rock outcrops and boulders at Mount Elden
- f- Low elevation woodlands are treated as inclusions in life zone 5

Family	Taxa	Synonymy	8	7	6	5	ME ¹	Wet	Adv ¹
ACE	<i>Acer glabrum</i> Torr.				√		√		
AGA	<i>Agave parryi</i> Engelm.					√	√		
AGA	<i>Yucca vespertina</i> (McKelvy) Welsh	<i>Yucca baccata</i> Torrey				√	√		
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 trilobata</i> Nutt. var. <i>anisophylla</i> (Greene) Jepson					√	√		
ANA	<i>Rhus trilobata</i> Nutt. var. <i>quinata</i> (Greene) Jepson					√	√		
ANA	<i>Rhus trilobata</i> Nutt. var. <i>trilobata</i>					√	√		
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> (Coult. & 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.					√	√		
ASN	<i>Arenaria fendleri</i> Gray	<i>Eremogone fendleri</i> (Gray) Ikonn.	√	√	√	√			
ASN	<i>Arenaria lanuginosa</i> (Michx.) Rohrb. ssp. <i>saxosa</i> (Gray) Mag.	<i>Spergulastrum lanuginosum</i> Michaux ssp. <i>saxosum</i> (Gray) Weber	√	√	√	√	√		
ASN	<i>Cerastium arvense</i> L. ssp. <i>strictum</i> (L.) Ugbor.	<i>Cerastium strictum</i> L.	√	√	√	√			
ASN	<i>Cerastium beeringianum</i> Cham. & Schl.		√	√					
ASN	<i>Cerastium brachypodum</i> (Engl. ex Gray) Robins.		√						
ASN	<i>Cerastium fontanum</i> Baumg.ssp. <i>vulgare</i> (Hartman) Greuter & Burdet	<i>Cerastium vulgatum</i> L.				√			
ASN	<i>Drymaria effusa</i> var. <i>depressa</i> (Greene) J.Duke	<i>Drymeria depressa</i> Greene				√	√		W C

ASN	<i>Drymaria leptophylla</i> (Cham. & Schlect.) Fenzl.					√			
ASN	<i>Drymaria molluginea</i> (Lag.) Didr.	<i>Drymaria sperguloides</i> Gray				√			
ASN	<i>Minuartia obtusiloba</i> (Rydb.) House.	<i>Lidia obtusiloba</i> (Rydb.) Löve & Löve	√	√					
ASN	<i>Minuartia rubella</i> (Wahl.) Hiern.	<i>Tryphane rubella</i> (Wahl.) Reich.	√	√					
ASN	<i>Sagina saginoides</i> (L.) Karstens		√	√	√			√	
AST	<i>Achillea millefolium</i> L. var <i>alpicola</i> (Rydberg) Garrett			√					
AST	<i>Achillea millefolium</i> L. var <i>occidentalis</i> DC	<i>Achillea lanuginosa</i> Nutt.		√	√	√			
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.			√	√	√			
AST	<i>Agoseris glauca</i> (Pursh.) Raf. var. <i>dasycephala</i> (T&G) Jepson				√				
AST	<i>Agoseris glauca</i> (Pursh.) Raf. var. <i>laciniata</i> (Eat.) Smiley	<i>Agoseris arizonica</i> Greene		√	√	√			
AST	<i>Ambrosia acanthicarpa</i> Hooker					√	√		
AST	<i>Ambrosia psilostachya</i> DC					√	√		
AST	<i>Ambrosia tomentosa</i> Nutt.				√	√		√	
AST	<i>Antennaria marginata</i> Greene			√	√	√	√		
AST	<i>Antennaria microphylla</i> Rydberg		√						
AST	<i>Antennaria parvifolia</i> Nutt			√	√	√			
AST	<i>Antennaria rosea</i> Greene		√	√	√	√			
AST	<i>Antennaria rosulata</i> Rydberg		√		√	√	√		
AST	<i>Antennaria umbrinella</i> Rydb.		√	√					
AST	<i>Arnica cordifolia</i> Hooker			√					
AST	<i>Arnica montana</i> L.				√				
AST	<i>Artemisia biennis</i> Willdenow				√	√			w c
AST	<i>Artemisia campestris</i> L. ssp <i>borealis</i> (Pallas) Hall & Clements var. <i>scouleriana</i> (Hook.) Cronq.	<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>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) Shinnery	<i>B. eupatorioides</i> var <i>chlorolepis</i> (W&S) B.L. Turner			√	√	√		
AST	<i>Brickellia grandiflora</i> (Hooker) Nutt.			√	√	√	√		
AST	<i>Centaurea diffusa</i> Lam.					√	√		n w c

AST	Chaetopappa ericoides (Torrey) Nesom	Leucelene ericoides (Torr.) Greene		✓		✓			
AST	Chrysanthemum leucanthemum L. v pinnatifidum Lecoq.& Lam.	Leucanthemum vulgare Lamarck				✓			w c
AST	Chrysothamnus depressus Nuttall					✓	✓		
AST	Chrysothamnus nauseosus (Pallas ex Pursh.) v. consimilis (Greene) Hall & Clements					✓	✓		
AST	Chrysothamnus nauseosus (Pallas ex Pursh.) v. graveolens					✓	✓		
AST	Cirsium arizonicum (Gray) Petrak		✓	✓	✓				
AST	Cirsium parryi (Gray) Petrak		✓	✓					
AST	Cirsium pulchellum (Greene) W&S					✓			
AST	Cirsium scariosum Nutt.	C. foliosum (Hook.) DC, C. drummondii T&G, C. coloradense (Rydb.) Cock.			✓	✓			
AST	Cirsium undulatum (Nutt.) Spreng.		✓	✓	✓				
AST	Cirsium vulgare (Savi) Airy-Shaw					✓			n w c
AST	Cirsium wheeleri (Gray) Petrak		✓	✓	✓	✓			
AST	Conyza canadensis (L.) Cronquist					✓	✓		w
AST	Coreopsis tinctoria Nutt.	Coreopsis atkinsoniana Dougl. Ex Lindl.			✓	✓	✓		
AST	Cosmos bipinnatus Cav.					✓	✓		w c
AST	Cosmos parviflorus (Jacq.) HBK					✓	✓		
AST	Crepis occidentalis Nutt.					✓			
AST	Dugaldia hoopsii Gray	Helenium hoopsii	✓	✓	✓	✓	✓	✓	
AST	Erigeron caespitosus Nuttall			✓	✓				
AST	Erigeron canus Gray					✓			
AST	Erigeron colomexicanus A. Nels.					✓	✓		
AST	Erigeron compositus Pursh		✓	✓					
AST	Erigeron divergens T&G			✓	✓	✓	✓		
AST	Erigeron eximius Greene	E. superbus Greene	✓	✓	✓		✓		
AST	Erigeron flagellaris Gray			✓	✓	✓	✓		
AST	Erigeron formosissimus Greene			✓	✓	✓	✓		
AST	Erigeron modestus Gray					✓	✓		
AST	Erigeron neomexicanus Gray				✓	✓	✓		
AST	Erigeron oreophilus Greenm.					✓	✓		
AST	Erigeron saxatilis Nesom				✓		✓		
AST	Erigeron simplex Greene		✓	✓					
AST	Erigeron speciosus (Lindl.) DC var macranthus (Nutt.) Cronq.	Erigeron macranthus Nutt.		✓	✓	✓	✓		
AST	Erigeron ursinus Eaton			✓					
AST	Erigeron vreelandii Rydberg	E. platyphyllus Greene			✓	✓			
AST	Gaillardia pinnatifida Torrey					✓	✓		
AST	Gaillardia pulchella Foug.					✓	✓		
AST	Gnaphalium exillifolium A. Nels.	Gnaphalium grayii A. Nels. & Mac			✓	✓	✓		
AST	Grindelia aphanactis Rydberg					✓	✓		
AST	Grindelia squarrosa (Pursh) Dunal var. quasiperennis Lunell	G. perennis A. Nels.				✓			
AST	Gutierrezia microcephala (DC) Gray					✓			

AST	Gutierrezia sarothrae (Pursh) Britton & Rusby				√	√	√		
AST	Helianthella quinquenervis (Hooker) Gray			√	√	√	√		
AST	Helianthus annuus L.					√	√		
AST	Helianthus perfoliatus Nutt.					√			
AST	Heliomeris multiflora Nutt. var multiflora					√			
AST	Heliomeris multiflora Nutt. var nevadensis (Nels.) W. Yates	Viguiera multiflora (Nutt. Blake)			√	√	√		
AST	Heterosperma pinnatum Cav.					√	√		
AST	Heterotheca villosa (Pursh) Shinners var foliosa (Nutt.) Harms	Chrysopsis villosa (Pursh) Nutt.			√	√	√		
AST	Hieracium fendleri Schultz-Bib.			√	√	√	√		
AST	Hymenopappus filifolius Hooker var lugens (Greene) Jepson					√	√		
AST	Hymenopappus mexicanus Gray				√	√			
AST	Hymenoxys acaulis (Pursh) K.F.Parker	Tetraneuris acaulis (Pursh) Greene				√	√		
AST	Hymenoxys bigelovii (Gray) K.F.Parker					√	√		
AST	Hymenoxys richardsonii (Hook.) Cockerell					√			
AST	Hymenoxys richardsonii (Hook.) Cockerell var floribunda (Gray) K.F.Parker				√				
AST	Hymenoxys x helenoides (Rydb.) Cockerell					√	√		
AST	Lactuca serriola L.					√			w c
AST	Lactuca tatarica (L.) C.A.Meyer	Lactuca puchella (Pursh) DC			√	√			
AST	Laennecia coulteri (Gray) Nesom	Conyza coulteri Gray		√					
AST	Laennecia schiedeana (Less.) Nesom	Conyza schiedeana (Less.) Cronq.		√	√	√	√		w
AST	Laennecia sophiifolia (Kunth.) Nesom	Conyza sophiifolia Kunth				√	√		
AST	Machaeranthera canescens (Pursh) Gray				√	√	√		
AST	Machaeranthera canescens (Pursh) Gray ssp canescens var ambigua B.L. Turner				√	√			
AST	Machaeranthera canescens (Pursh) Gray ssp. canescens	Machaeranthera tephrodes (Gray) Greene, Aster tephrodes (Gray) Blake			√	√			
AST	Machaeranthera gracilis (Nutt.) Shinners	Haplopappus gracilis (Nutt.) Gray			√	√	√		
AST	Machaeranthera linearis Greene					√	√		
AST	Machaeranthera tanacetifolia (Kunth.) Nees	Aster tanacetifolius H.B.K.				√			
AST	Machaeranthers grindelioides (Nutt.) Shinners					√	√		
AST	Onopordum acanthium L.					√			n w c
AST	Oreochrysum parryi (Gray) Rydberg	Solidago parryi (Gray) Greene		√	√		√		
AST	Packera multilobata (T&G) Weber	Senecio multilobatus Torr. &			√	√	√		

	& Löve	Gray ex Gray							
AST	<i>Packera neomexicana</i> (Gray) Weber & Löve var. <i>neomexicana</i>	<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; <i>G. viscosum</i> Humb.		√	√	√			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> Cray					√			
AST	<i>Schkuhria multiflora</i> Hook.& Arn					√			
AST	<i>Senecio actinella</i> Greene	<i>Packera actinella</i> (Greene) Weber & Love				√			
AST	<i>Senecio bigelovii</i> Gray	<i>Ligularia bigelovii</i> (Gray) W.A. Weber		√	√				√
AST	<i>Senecio eremophilus</i> Richards var. <i>macdougalii</i> (Heller) Cronq.	<i>Senecio macdougalii</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 & Love	√	√					
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> +C228 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 tenuiflora</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) Nesom	<i>Aster commutatus</i> (T&G) Gray			√	√	√		
AST	<i>Symphotrichum foliaceum</i> (Lindley ex DC) Nesom	<i>Aster foliaceus</i> Lindl. ex DC			√	√			

AST	Symphotrichum lanceolatum (Willd.) Nesom	Aster hesperius Gray			√	√	√	√	
AST	Symphotrichum praealtum (Poir.) Nesom var. praealtum	Aster caeruleus DC			√				
AST	Tagetes micrantha Lag.					√			
AST	Tanacetum vulgare L.					√			
AST	Taraxacum laevigatum (Willd.) DC		√	√	√	√			c
AST	Taraxacum lyratum (Ledeb.) DC		√						
AST	Taraxacum officinale Weber	Taraxacum laevigatum (Willd.) DC	√	√	√	√	√		w c
AST	Tetradymia canescens DC					√	√		
AST	Townsendia exscapa (Rich.) Porter					√			
AST	Tragopogon dubius Scop.			√	√	√	√		w c
AST	Tragopogon dubius Scop. x porrifolius L.					√			
AST	Tragopogon mirus Ownbey					√			
AST	Tragopogon porrifolius L.					√			w c
AST	Tragopogon pratensis L.				√	√			w c
AST	Uropappus lindleyi (DC) Nuttall	Microseris lindleyi (DC) Gray				√	√		
AST	Verbesina encelioides (Cav.) Benth. & Hook. f.					√			
AST	Verbesina encelioides (Cav.) Benth. & Hook. f. ssp. exauriculata (Robins & Greenm.) Coleman					√			
AST	Wyethia arizonica Gray					√			
AST	Xanthium strumarium L.					√		√	w
BER	Mahonia fremontii (Torr) Fedde	Berberis fremontii Torrey				√	√		
BER	Mahonia haematocarpa (Wooton) Fedde	Berberis haematocarpa Wooton				√	√		
BER	Mahonia repens (Lindl.) G. Don	Berberis repens Lindl.		√	√	√	√		
BOR	Cryptantha capitata (Eastw.) I.M. Johnston					√			
BOR	Cryptantha cinerea (Greene) Cronq. var. cinerea	Cryptantha jamesii (Torr.) Payson var. multicaulis (Torr.) Payson			√	√	√		
BOR	Cryptantha fendleri (Gray) Greene					√	√		
BOR	Cryptantha flava (A.Nels.) Payson					√			
BOR	Cryptantha setosissima (Gray) Payson			√	√	√	√		
BOR	Cynoglossum officinale L.					√			w c
BOR	Hackelia floribunda (Lehm.) I.M. Johnst.					√	√		
BOR	Lappula squarrosa (Retz.) Dumort					√			
BOR	Lappula occidentalis Greene	Lappula redowskii (Hornem.) Greene		√	√	√	√		
BOR	Lithospermum cobrense Greene					√			
BOR	Lithospermum incisum Lehm.					√	√		
BOR	Lithospermum multiflorum Torr. ex Gray			√	√	√	√		
BOR	Macromeria viridiflora DC					√	√	√	
BOR	Mertensia franciscana Heller		√	√	√				√
BOR	Plagiobothrys scouleri					√	√		√

	(Hook.&Arn.) I.M. Johnston								
BRA	<i>Arabis fendleri</i> (Wats.) Greene					√			
BRA	<i>Arabis perennans</i> Wats.					√	√		
BRA	<i>Barbarea orthoceras</i> Ledebour					√	√	√	
BRA	<i>Barbarea vulgaris</i> Ait. f.		√						w c
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>Chorisporea 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 medium</i> Greene	<i>Lepidium virginicum</i> L.				√			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 teres</i> (Michaux) Stuckey	<i>Rorippa obtusa</i> (Nutt.) Britt., <i>R microtitus</i> (Robins.) Rollins			√			√	
BRA	<i>Rorippa sphaerocarpa</i> (Gray) Britt.	<i>R. obtusa</i> var. <i>sphaerocarpa</i> (Gray) Cory, <i>Nasturtium sphaerocarpa</i> Gray			√	√		√	
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	√	√	√	√	√		
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>Melandrium dioicum</i> (L.) Crosson & Germain	<i>Lychnis alba</i> Miller, <i>Silene latifolia</i> Poir. ssp <i>alba</i> (P. Mill.) Greuter & Burdet				√				w
CAR	<i>Lychnis drummondii</i> (Hook.) S.Wats	<i>Silene drummondii</i> Hook. var. <i>drummondii</i>		√						
CAR	<i>Silene acaulis</i> L. ssp <i>subcaulescens</i> (Williams) Hitchc. & Macguire		√	√						
CAR	<i>Silene scouleri</i> Hooker			√	√	√				
CAR	<i>Stellaria longifolia</i> Muhl. ex Willdenow			√	√	√				
CAR	<i>Stellaria longipes</i> Goldie					√				
CAR	<i>Stellaria umbellata</i> Turcz.		√	√	√					
CHN	<i>Atriplex canescens</i> (Pursh) Nuttall					√				
CHN	<i>Chenopodium album</i> L.					√				w c
CHN	<i>Chenopodium berlandieri</i> Moq.			√	√	√				
CHN	<i>Chenopodium botrys</i> L.	<i>Teloxys botrys</i> (L.) Weber				√				w c
CHN	<i>Chenopodium capitatum</i> (L.) Asch			√	√	√				w c
CHN	<i>Chenopodium chenopodioides</i> (L.) Aellen				√					
CHN	<i>Chenopodium dessicatum</i> A. Nelson				√	√	√			
CHN	<i>Chenopodium foliosum</i> (Moench) Ascherson	<i>Blitum hastatum</i> Rydb., <i>Chenopodium overi</i> Aellen		√	√	√	√			w
CHN	<i>Chenopodium fremontii</i> S. Watson				√	√	√			
CHN	<i>Chenopodium neomexicanum</i> W&S					√				
CHN	<i>Chenopodium pratericola</i> Rydb.				√	√	√			
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			√	√	√	√			
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 microbothrys</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> (Rydberg) Cronq.	<i>Symphoricarpus parishii</i> Rydb.		√	√		√		
CRS	<i>Rhodiola rhodantha</i> (Gray) Jacobsen	<i>Sedum rhodanthum</i> Gray	√	√					√
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 athrostachya</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 foenea</i> Willd.	<i>Carex siccata</i> Dewey		√	√		√		
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>Carex atrata</i> L. var <i>chalciolepis</i> (Holm.) Kukenth.	√	√					
CYP	<i>Carex heteroneura</i> Boott var. <i>epapillosa</i> (Mack.) Hermann	<i>Carex atrata</i> L. var. <i>erecta</i> Boott	√						
CYP	<i>Carex lanuginosa</i> Michx.				√	√	√		√
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 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.&	<i>E. macrostachya</i> Britton ex.			√	√			√

	Schult.	Small							
CYP	Eleocharis quinqueflora (F.X.Hartmann) Schwarz	Eleocharis pauciflora (Lightf.) Link			√				√
CYP	Eleocharis rostellata (Torr.) Torr.					√			√
CYP	Schoenoplectus acutus (Muhl.) A&D Löve	Scirpus acutus Muhl., Scirpus validus Vahl				√			√
CYP	Schoenoplectus maritimus (L.) Lye	Scirpus maritimus L. var. padulosus (A.Nels) Kuk.				√			√
DPS	Dipsacus fullonum L.				√				W C
ELT	Elatine brachysperma Gray				√				√
ELT	Elatine californica Gray				√				√
ERI	Vaccinium myrtilloides (L.) var. oreophilum (Rydb.) Dorn	V. oreophyllum Rydberg		√					
EUP	Chamaesyce albomarginata (T&G) Small	Euphorbia albomarginata Torr.&Gray				√	√		
EUP	Chamaesyce fendleri (T&G) Small	Euphorbia fendleri Torr.&Gray				√			
EUP	Chamaesyce serpyllifolia (Person) Small					√			
EUP	Euphorbia brachycera Engelm.	Tithymalus brachyceras (Engelm.) Small		√					
EUP	Euphorbia lurida Engelm.			√	√	√	√		
EUP	Euphorbia palmeri Engelm.					√			
FAB	Astragalus castaneiformis S.Wats.	A. castaniiformis			√	√	√		
FAB	Astragalus hallii Gray var fallax (M.E. Jones) Barneby	A. famelicus Sheldon				√			
FAB	Astragalus humistratus Gray var. hosackiae (Greene) M.E.Jones					√	√		
FAB	Astragalus humistratus Gray var humivagans (Rydb.) Barneby					√	√		
FAB	Astragalus humistratus Gray var tenerrimus M.E. Jones					√	√		
FAB	Astragalus recurvus Greene					√			
FAB	Astragalus rusbyi Greene				√	√	√		
FAB	Astragalus tephrodes Gray					√			
FAB	Astragalus troglodytes Wats.					√			
FAB	Cologania angustifolia Kunth.					√	√		
FAB	Dalea filiformis Gray					√			
FAB	Hedysarum boreale Nutt.			√					
FAB	Lathyrus graminifolius (S. Wats.) White			√		√	√		
FAB	Lathyrus leucanthus Rydberg	Lathyrus lanszwertii Kellogg var. arizonicus (Britt.) Welsh		√	√	√			
FAB	Lotus wrightii (Gray) Greene				√	√	√		
FAB	Lupinus argenteus Pursh. <i>sensu lato</i>	includes vars. hillii and palmeri		√	√	√	√		
FAB	Lupinus kingii S.Wats.				√	√	√		
FAB	Medicago lupulina L.			√	√	√			W C
FAB	Medicago sativa L.				√	√	√		W C
FAB	Melilotus albus Medicus					√	√		W
FAB	Melilotus officinalis (L.) Lam.			√	√	√	√		W C
FAB	Oxytropis lambertii Pursh			√	√	√	√		
FAB	Phaseolus angustissimus Gray					√	√		
FAB	Phaseolus grayanus W&S			√	√	√	√		

FAB	Psoralidium lanceolatum (Pursh) Rydb.					√			
FAB	Psoralidium tenuiflora Rydb.					√			
FAB	Robinia neomexicana Gray				√				
FAB	Thermopsis rhombifolia (Nutt.) Nutt. var montana (Nutt.) Isley	T. divaricarpa A. Nels., T. montana Nutt.			√	√	√		
FAB	Trifolium fragiferum L.					√			
FAB	Trifolium gymnocarpon Nutt.					√	√		
FAB	Trifolium hybridum L.		√	√	√				w c
FAB	Trifolium longipes Nutt. ssp. pygmaeum Gray	Trifolium rusbyi Greene, T. longipes Nutt. var. pygmaeum (Greene) Harringt.			√	√		√	
FAB	Trifolium mucronatum Willd. ssp. laceratum (Greene) J. Gillette	Trifolium lacerum Greene				√			
FAB	Trifolium pinetorum Greene	Trifolium parryi Gray			√				
FAB	Trifolium pratense L.				√	√			w c
FAB	Trifolium repens L.				√	√			w c
FAB	Trifolium wormskioldii Lehm.	Trifolium fendleri Greene				√			
FAB	Vicia americana Muhl. ex Willd.		√	√	√	√			
FAB	Vicia ludoviciana Nutt. ssp. ludoviciana	Vicia exigua Nutt.				√			
FAB	Vicia pulchella HBK			√	√	√			
FAB	Vicia villosa Roth.		√	√	√	√			w c
FAG	Quercus gambelii Nutt.				√	√	√		
FAG	Quercus undulata Torrey	Quercus x paucilobata Rydb.				√	√		
F-ASD	Dryopteris filix-mas (L.) Schott.				√	√	√		
F-ASD	Polystichum scopulinum (Eaton) Maxon				√	√	√		
F-ASL	Asplenium adiantum-nigrum L.					√	√		
F-ASL	Asplenium platyneuron (L.) B.S.P.					√	√		
F-ASL	Asplenium resiliens Kunze					√	√		
F-ASL	Asplenium septentrionale (L.) Hoffman				√	√	√		
F-ATY	Cystopteris fragilis L. Bernh.		√						
F-ATY	Cystopteris reevesiana Lellinger	Cystopteris fragilis (L.) Bernh.	√	√	√		√		
F-ATY	Cystopteris tennesseensis Shaver					√	√		
F-ATY	Cystopteris utahensis Windham & Haufler					√	√		
F-EQU	Equisetum arvense L.				√				
F-EQU	Equisetum laevigatum A. Braun	Hippochaete laevigata (A. Braun) Farwell			√	√			
F-HPS	Pteridium aquilinum (L.) Kuhn.		√	√	√	√			
F-MSL	Marsilea mollis Robins. & Fernald				√			√	
F-OPH	Botrychium crenulatum W.H. Wagner		√						
F-OPH	Botrychium echo W.H. Wagner		√						
F-OPH	Botrychium hesperium (Maxon & Clausen) Wagner & Lillinger		√						
F-OPH	Botrychium lanceolatum (Gmelin) Angstrom		√	√					
F-OPH	Botrychium lunaria (L.) Swartz	Botrychium onondagense Underwood	√	√					
F-OPH	Botrychium miganense Victorin	Botrychium lunaria var		√					

		miganense (Victorin) Dole							
F-OPH	Botrychium pinnatum St John	Botrychium boreale (Fries.) Milde		√	√				
F-PLP	Polypodium hesperium Maxon				√	√	√		
F-PTR	Pentagramma triangularis (Kavlf.) Yatsk., Windham & Wollenw					√	√		
F-PTR	Pentagramma triangularis (Kavlf.) Yatsk., Windham & Wollenw. ssp. maxoni (Weatherby) Yatsk., Windham & Wollenw.	Pityrogramma triangularis (Kauf.) Maxon				√	√		
F-SEL	Selaginella underwoodii Hieronymus				√	√	√		
F-SIN	Cheilanthes eatonii Baker					√	√		
F-SIN	Cheilanthes feei Moore					√	√		
F-SIN	Cheilanthes fendleri Hooker				√	√	√		
F-SIN	Cheilanthes wootoni Maxon					√	√		
F-SIN	Pellaea atropurpurea (L.) Link					√	√		
F-SIN	Pellaea wrightiana Hooker	P. ternifolia var wrightii				√	√		
F- WDS	Woodsia neomexicana Windham				√	√	√		
F- WDS	Woodsia oregana D.C. Eat. ssp. cathcartiana (B.L. Robins) Windham	W. neomexicana Windham x oregana D.C. Eaton ssp, cathcartiana (B.L. Robins) Windham				√	√		
F- WDS	Woodsia oregana D.C. Eaton			√	√	√	√		
F- WDS	Woodsia schaackii Windham	W. neomexicana Windham x oregana D.C. Eaton			√		√		
FUM	Corydalis aurea Willd.			√	√	√	√		
GAR	Garrya wrightii Torrey					√	√		
GEN	Frasera speciosa Dougl. ex Griseb.	Swertia radiata (Kellogg) Kuntze		√	√		√		
GEN	Gentiana affinis Griseb.	Gentiana rusbyi Greene		√	√	√	√		
GEN	Gentianella amarella (L.) Boerner	Gentiana heterosepala Engelm.			√				
GEN	Gentianella amarella (L.) Borner ssp acuta	Gentianella acuta (Michaux) Hiitonen	√	√					
GEN	Gentianella amarella (L.) Borner ssp heterosepala	Gentianella heterosepala (Engelm.) Holub.	√	√					
GEN	Gentianella barbellata (Engelm.) M. Gillett		√	√					
GEN	Gentianella tenella (Rottb.) Boerner	Comastoma tenellum (Rott.) Toyokuni	√	√					
GER	Erodium cicutarium (L.) L'Her					√	√		w c
GER	Geranium caespitosum James	G.atropurpureum Heller, G.fremontii Torr., G. eremophilum W&S		√	√	√	√		
GER	Geranium richardsonii Fisch.& Trautt.			√	√		√		
GRS	Ribes cereum Douglas				√	√	√		
GRS	Ribes inerme Rydberg					√	√		
GRS	Ribes montigenum McClatchie	Ribes lacustre (Pers.) Poir. var molle Gray	√	√	√				
GRS	Ribes pinetorum Greene			√	√				
HAL	Myriophyllum sibiricum Komarov					√			√
HDC	Elodea bifoliata St John	Elodea longivaginata St John			√				√

HDR	Philadelphus microphyllus Gray				√				
HYD	Nama dichotomum (Ruiz.& Pavon) Choisy					√			
HYD	Phacelia egena (Greene) Greene	P. magellanica (Lam.) Coville		√	√	√			√
HYD	Phacelia heterophylla Pursh				√	√			
HYP	Hypericum scouleri Hook. ssp. scouleri	Hypericum formosum HBK			√	√			
IRI	Iris missouriensis Nutt.			√	√	√	√		√
IRI	Sisyrinchium demissum Greene			√	√	√			√
IRI	Sisyrinchium longipes (Bicknell) K&P				√				√
JUG	Juglans major (Torr.) Heller					√	√		
JUN	Juncus arcticus Willd. var. balticus (Willd.) Trautv.	J. balticus Willd.			√	√			√
JUN	Juncus bufonius L.				√	√			√
JUN	Juncus confusus Coville					√			√
JUN	Juncus drummondii Meyer		√						√
JUN	Juncus ensifolius Wikstr. var. brunnescens (Rydb.) Cronq.	Juncus saximontanus A. Nels.			√	√	√		√
JUN	Juncus ensifolius Wikstr. var. montanus (Engelm.) Hitchc.	Juncus saximontanus A. Nels., J. xiphiodes E.Meyer var. montanus			√	√	√		√
JUN	Juncus interior Wiegand	Juncus arizonica Wiegand, J. tenuis Willd.			√	√			√
JUN	Juncus longistylis Torrey				√	√	√		√
JUN	Juncus marginatus Rostk.	Juncus biflorus Ell.			√				√
JUN	Juncus nevadensis S. Wats.				√		√		√
JUN	Juncus saximontanus A. Nels.			√	√	√			√
JUN	Juncus tenuis Willd.	Juncus dudleyi Wiegand				√			√
JUN	Luzula parviflora Desv.			√					
JUN	Luzula spicata (L.) DC		√	√					
LAM	Agastache pallidiflora (Heller) Rydb.			√	√				
LAM	Dracocephalum parviflorum Nutt.	Moldavica parviflora (Nutt.) Britton				√	√		
LAM	Hedeoma hyssopifolium Gray				√	√	√		
LAM	Hedeoma oblongifolium (Gray) Heller					√	√		
LAM	Leonurus cardiaca L.					√	√		w c
LAM	Marrubium vulgare L.					√	√		w c
LAM	Mentha arvensis L.				√				w
LAM	Monarda fistulosa L. var. mentifolia (Graham) Fernald	Monarda mentifolia Graham, M. fistulosa L.			√	√	√		
LAM	Monarda pectinata Nutt.					√	√		
LAM	Monardella odoratissima Benth.			√	√	√	√		
LAM	Prunella vulgaris L.				√	√		√	w ² c
LAM	Salvia subincisa Benth.					√	√		
LAM	Stachys rothrockii Gray					√	√		
LIL	Allium bisceptrum S. Wats. var. palmeri (S.Wats.) Cronq.	Allium palmeri S. Wats			√				
LIL	Allium geyeri S. Watson				√	√			
LIL	Calochortus ambiguus (Jones.) M. Ownbey			√	√	√	√		

LIL	Calochortus flexuosus S. Watson				√				
LIL	Calochortus gunnisonii S. Watson					√			
LIL	Echeandia flavescens (Schult.& Schult.) Cruden	Anthericum torreyi G. Baker				√	√		
LIL	Maianthemum racemosum (L.) Link	Smilacina amplexicaule Nutt.; S. racemosa (L.) Desf. v. amplexicaulis (Nutt.) Watson			√				√
LIL	Maianthemum stellatum (L.) Link	Smilacina stellata (L.) Desfontaines		√	√		√		
LIL	Prosartes trachycarpa Watson	Disporum trachycarpum (Watson) B&H		√	√		√		
LIL	Zygadenus elegans Pursh	Anticlea elegans (Pursh) Rydb.		√	√	√			
LIN	Linum aristatum Engelm.				√				
LIN	Linum australe Heller	Linum aristatum Engelm.				√	√		
LIN	Linum lewisii Pursh	Adenolinum lewisii (Pursh) Löve & Löve; Linum perenne L.		√	√	√	√		
LIN	Linum neomexicanum Greene					√	√		
LMN	Lemna minor L.				√				√
LNT	Utricularia vulgaris L.				√				√
LOA	Mentzelia albicaulis (Dougl.) Dougl. ex T&G					√	√		
LOA	Mentzelia montana (A.David.) A. David.					√	√		
LOA	Mentzelia rusbyi Wooton				√	√	√		
MLV	Malva neglecta Wallr.				√	√			w c
MLV	Sidalcea neomexicana Gray			√	√	√			√
MLV	Sphaeralcea fendleri Gray ssp. fendleri					√	√		
MNT	Monotropa hypopitys L.	Monotropa latisquama (Rydb.) Hulten		√	√	√	√		
MNT	Pterospora andromedea Nutt.			√	√	√	√		
NYC	Mirabilis multiflora (Torr.) Gray					√	√		
NYC	Mirabilis comata (Small) Standl.	Oxybaphus comatus (Small) Weatherby		√					
NYC	Mirabilis decipiens (Standl.) Standl.	Mirabilis linearis (Pursh) Heimerl var. decipiens (Standl.) Welsh		√	√	√	√		
NYC	Mirabilis linearis (Pursh) Heimerl					√	√		
NYC	Mirabilis oxybaphoides (Gray) Gray					√	√		
OLE	Fraxinus velutina Torrey	Fraxinus pennsylvanica Marsh ssp. velutina (Torr.) G.N.Mill				√			
ONA	Chamerion angustifolium (L.) Holub	Epilobium angustifolium L.	√	√	√		√		
ONA	Epilobium brachycarpum K.Presl.	Epilobium paniculatum Nutt. ex T&G; E. adenocaulon (Haussk.) Rydb.				√			
ONA	Epilobium canum (Greene) Raven	Zauschneria californica Presl.				√	√		
ONA	Epilobium ciliatum Raf. ssp ciliatum	Epilobium adenocaulon Haussk., E. paniculatum		√	√	√	√		
ONA	Epilobium ciliatum Raf. ssp glandulosum (Lehm.) Hoch & Raven	Epilobium adenocaulon Haussk., E. glandulosum Lehmann			√				
ONA	Epilobium hornemanni Haussk.				√				√
ONA	Epilobium saximontanum Haussk.		√	√	√				√
ONA	Gaura coccinea Nutt. ex Pursh					√	√		
ONA	Gaura hexandea Ortega ssp					√	√		

	<i>gracilis</i> (W&S) Raven & Gregory								
ONA	<i>Gayophytum diffusum</i> T&G ssp <i>parviflorum</i> Lewis & Szw.				√	√	√		
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 pleiakantha</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 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, Polygonum coccineum Muhl. ex Willd.								
PLG	Polygonum arenastrum Jord. ex Bordeau	P. aviculare L. var arenastrum		√	√	√	√			w c
PLG	Polygonum bistortoides Pursh	Bistorta bistortoides (Pursh) Small			√	√			√	
PLG	Polygonum coccineum Muhl.	Persicaria coccinea (Mühlenberg) Greene			√	√	√		√	
PLG	Polygonum convolvulus L.	Fallopia convolvulus (L.) Löve				√	√			w c
PLG	Polygonum douglasii Greene	Polygonum sawatchense			√	√	√		√	
PLG	Polygonum polygaloides Wallich ssp. kelloggii (Greene) Hickman	Polygonum kelloggii Greene				√			√	
PLG	Polygonum lapathifolium L.	Persicaria lapathifolia (L.) S.F. Gray, Polygonum pensylvanicum L.				√			√	w c
PLG	Rumex acetosella L.	Acetosella vulgaris (Koch) Fourreau		√	√	√	√			c
PLG	Rumex crispus L.				√	√			√	w c
PLG	Rumex salicifolius Weinm. var. mexicanus (Meisn.) C.L. Hitchc.	Rumex mexicanus Meisner			√	√			√	
PLM	Collomia linearis Nuttall				√	√				
PLM	Collomia grandiflora Dougl. ex Lindl.					√				
PLM	Gilia inconspicua (Sm.) Sweet	G. inconspicua var sinuata (Dougl.) Gray				√	√			
PLM	Ipomopsis aggregata (Pursh.) V. Grant			√	√	√	√			
PLM	Ipomopsis arizonica (Greene) Wherry	Ipomopsis aggregata ssp arizonica (Greene) V.&A. Grant			√	√	√			
PLM	Ipomopsis multiflora (Nutt.) V. Grant				√	√	√			
PLM	Ipomopsis polyantha Rydb.) V. Grant				√					
PLM	Ipomopsis tenuituba (Rydb.) V. Grant ssp. latiloba V. Grant & Wilken				√	√				
PLM	Navarretia intertexta (Benth.) Hook. ssp. propinqua (Susks.) Day	N. intertexta var. propinqua (Susks.) Brand, N. saximontana S.C. Spencer, ined		√	√	√			√	
PLM	Phlox austromontana Coville				√	√	√			
PLM	Phlox gracilis (Hook.) Greene	Microsteris gracilis				√	√			
PLM	Phlox speciosa Pursh ssp. woodhousei (Torrey) Wherry	Phlox woodhousei (Gray) E. Nels.				√				
PLM	Polemonium delicatum Rydb.	P. pulcherrimum var. delicatum	√							
PLM	Polemonium foliosissimum (Gray) var alpinum Brand				√				√	
PLM	Polemonium pulcherrimum Hook. ssp. delicatum (Rydb.) Brand	Polemonium delicatum Rydb.		√						
PLM	Polemonium viscosum Nutt.		√	√						
POA	Achnatherum hymenoides (Roemer & Schultes) Barkworth	Oryzopsis hymenoides				√	√			
POA	Agropyron desertorum (Fisch ex Link) Schultes	A. cristatum (L.) Gaertn.		√		√				w c
POA	Agrostis exarata Trin.			√	√	√			√	w
POA	Agrostis idahoensis Nash		√	√						
POA	Agrostis scabra Willd.	Agrostis hyemalis (Walt.) BSP		√	√	√	√		√	

POA	<i>Agrostis stolonifera</i> L.	<i>Agrostis alba</i> L.			√	√	√	√	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 gracilis</i> (Willd. ex Kunth.) Lag. ex Griffiths					√	√		
POA	<i>Bouteloua simplex</i> Lag.					√			
POA	<i>Bromus anomalus</i> Rupr.	<i>Bromopsis anomala</i> (Coulter) Holub., <i>B. porteri</i> (Coul.) Nash	√	√	√	√	√		
POA	<i>Bromus carinatus</i> Hooker & Arnott	<i>Ceratochloa carinata</i> (Hook. & Arn.) Tutin; <i>Bromus marginatus</i> Nees			√	√	√		W
POA	<i>Bromus catharticus</i> Hooker & Arnott	<i>Ceratochloa cathartica</i> (Vahl.) Herter				√			C
POA	<i>Bromus ciliatus</i> L.	√	√	√	√	√			
POA	<i>Bromus commutatus</i> Schrader	Welsh treats as <i>Bromus japonicus</i> Thunberg			√				W
POA	<i>Bromus frondosus</i> (Shear.) W&S	<i>Bromopsis canadensis</i> (Michx) Holub ssp <i>richardsonii</i> (Link) Tsvelev		√	√	√			
POA	<i>Bromus inermis</i> Leyss.			√	√	√	√		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 polyanthus</i> Scribn.	<i>Bromus carinatus</i> Hook.&Arn., <i>Ceratochloa carinata</i> (H.&A.) Tutin			√	√			
POA	<i>Bromus porteri</i> (Coul.) Nash	Welsh treats as <i>Bromus anomalus</i> Rupr. ex Fourn.		√					
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					√	√		
POA	<i>Dichanthelium oligosanthes</i> (Schult.) Gould var <i>scribnerianum</i> (Nash) Gould	<i>Panicum scribnerianum</i> Nash				√	√		
POA	<i>Elymus alaskanus</i> (Scrib. & Merr.) A.Löve ssp <i>latiglumis</i> (Scrib. & J.G. Sm.) A. Löve	<i>Agropyrum trachycaulum</i> var. <i>latiglume</i>	√	√	√				
POA	<i>Elymus elymoides</i> (Raf.) Swezey ssp <i>brevifolius</i> (J.G. Sm.) Barkworth	<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)	<i>Agropyron dasystachyum</i>		√					

	ssp lanceolatus	Hook.) Scrib. & Smith							
POA	<i>Elymus repens</i> (L.) Gould	<i>Agropyron repens</i> (L.) Beauv.		√	√	√			
POA	<i>Elymus schribneri</i> (Vasey) M.E. Jones	<i>Agropyrum 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> (Link) A&D Love	<i>A. subsecundum</i> (Link) Hitchc.; <i>E. t.</i> (Link) Gould ssp <i>glaucus</i> (Pease & Moore) Cody		√					
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 x trachycaulus</i>]	<i>Agrositanion saundersii</i> (Vasey) Bowden				√			
POA	<i>Eragrostis curvula</i> (Schrader) Neesom					√	√		w c
POA	<i>Festuca arizonica</i> Vasey			√	√	√			
POA	<i>Festuca brachyphylla</i> (J.A. Schultes) ssp <i>coloradensis</i> Frederiksen	<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	Muhlenbergia pauciflora Buckley				√	√	√		
POA	Muhlenbergia ramulosa (Kunth.) Swallen	Muhlenbergia wolfii (Vasey) Rydb.			√	√			
POA	Muhlenbergia richardsonis (Trin.) Rydberg					√			
POA	Muhlenbergia rigens (Benth.) Hitchc.				√	√			
POA	Muhlenbergia virescens (HBK) Kunth.				√	√	√		
POA	Muhlenbergia wrightii Vasey			√	√	√	√		
POA	Pascopyrum smithii (Rydberg) A. Löve	Agropyron smithii Rydb.			√	√	√		
POA	Phlaris arundinacea L.				√				√
POA	Phleum alpinum L.	Phleum commutatum Gaudin	√	√	√				
POA	Phleum pratense L.B769			√	√	√			w c
POA	Piptatherum micranthum (Trin.& Rupr.) Barkworth	Oryzopsis micrantha (Trin.& Rupr.) Thurb.				√	√		
POA	Piptochaetium pringlei (Beal) Parody	Stipa pringlei (Beal) Scribn.				√	√		
POA	Poa artica R. Br.		√	√					
POA	Poa compressa L.				√	√			c
POA	Poa fenderliana (Steud. Vasey ssp longiligula (Scrib.&Wms) Soreng	Poa longiligula Scrib. & Williams			√	√			
POA	Poa fendleriana (Steud.) Vasey		√	√	√	√	√		
POA	Poa interior Rydb.		√	√					
POA	Poa juncifolia Scribner var. ampla (Merr.) Dorn	Poa nevadensis Vasey, Poa secunda Presl.				√			√
POA	Poa nervosa (Hooker) Vasey				√	√			
POA	Poa palustris L.				√				
POA	Poa pratensis L.		√	√	√	√	√		w c
POA	Poa reflexa Vasey & Schrib.		√	√	√				√
POA	Poa rupicola Nash		√	√					
POA	Pseudelymus saxicola (Scrib.& J.G.Smith) Barkworth & Dewey [Elymus elymoides x Pseudoregneria spicata]	Agrositanion saxicola (Scrib. & J.G. Sm.) Bowden		√					
POA	Schizachyrium scoparium (Michx.) Nash					√	√		
POA	Setaria viridis (L.) Beauv.			√		√			c
POA	Sporobolus cryptandrus (Torrey) Gray					√	√		
POA	Thinopyrum intermedium (Host) Barkworth & D.R. Dewey	Agropyron intermedium (Host) Beauv. var trichophorum (Link) Halacsy		√	√	√	√		w c
POA	Thinopyrum ponticum (Podp.) Z.W. Liu & R.C. Wang	Agropyron elongatum (Host) Beauv.			√	√	√		w c
POA	Trisetum spicatum (L.) Richt.	Trisetum montanum Vasey	√	√	√				
POR	Montia chamissoi (Ledebour) Greene	Crunocallis chamissoi (Ledebour) Rydb.		√	√	√			√
POT	Potamogeton gramineus L.				√				√
POT	Potamogeton natans L.				√				√
POT	Potamogeton pectinatus L.					√			√
POT	Potamogeton pusillus L.			√	√				√

PRI	<i>Androsace septentrionalis</i> L.		√	√	√	√	√		
PRI	<i>Primula parryi</i> Gray		√	√					√
PTG	<i>Plantago argyraea</i> Morris	<i>P. purshii</i> (Roem.& Schult.) var. <i>argyraea</i> (Morris) Poe				√	√		
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 elliptica</i> Nutt.			√					
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					√			
RAN	<i>Anemone multifida</i> Poir. var. <i>hudsoniana</i> DC	<i>Anemone globosa</i> (T & G) Nuttall		√					
RAN	<i>Aquilegia caerulea</i> James var. <i>pinetorum</i> (Tidestrom) Payson	<i>A. caerulea</i> James v. <i>pinetorum</i>		√	√				
RAN	<i>Aquilegia chrysantha</i> Gray		√	√	√				
RAN	<i>Aquilegia desertorum</i> (Jones) Cockerell				√	√	√		
RAN	<i>Clematis hirtusissima</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 cardiophyllus</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	<i>Ranunculus inamoenus</i> Greene var. <i>subaffinus</i> (Gray) L. Benson	√	√	√	√			√
RAN	<i>Ranunculus macounii</i> Britton				√	√			√
RAN	<i>Ranunculus orogenes</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>Amelanchier utahensis</i> Koehne			√	√	√	√		
ROS	<i>Cercocarpus breviflorus</i> Gray var. <i>mogollonensis</i> R.A. Denham					√	√		
ROS	<i>Chamaebatiaria millefolium</i> (Torr.) Maxim	<i>Cercocarpus montanus</i> Raf.				√	√		

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 ovalis</i> (Lehm.) Rydberg	√	√	√	√			
ROS	<i>Geum rossii</i> (R.Br.) Ser. var. <i>turbinatum</i> (Rydb.) Hitchc.	<i>Acomastylis rossii</i> (R. Brown) Greene ssp. <i>turbinata</i> (Rydb.) Weber	√	√					
ROS	<i>Geum triflorum</i> Pursh.	<i>Erythrocoma triflora</i> (Pursh) Greene		√	√				
ROS	<i>Holodiscus dumosus</i> (Nutt.) Heller			√	√	√	√		
ROS	<i>Ivesia multifoliolata</i> (Torrey) Keck	<i>Potentilla multifoliolata</i> (Torrey) K&P		√					
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>Galium wrightii</i> Gray					√	√		
RUB	<i>Hedyotis pygmaea</i> Roemer & Schultes	<i>Houstonia wrightii</i> Gray			√	√			
RUB	<i>Kelloggia galioides</i> Torr.				√	√		√	
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	Lithophragma tenella Nuttall					√			
SAX	Saxifraga caespitosa (L.) ssp exaratoidea	Muscaria adscendens (L.) Small	√						
SAX	Saxifraga flagellaris Willdenow	Hirculus platysepalus (Traut.) Weber ssp. crandallii (Gandoger) Weber	√						
SAX	Saxifraga rhomboidea Greene	Saxifraga rhomboidea Greene var. franciscana (Small) K & P	√	√	√	√			
SAX	Saxifraga rivularis L.	Saxifraga debilis Engelm.	√	√					
SCR	Besseyia plantaginea (James) Rydberg	Besseyia arizonica Pennell, Synthesis plantaginea Bentham in DC		√	√	√			
SCR	Castilleja appelgatei Fern ssp. martinei (Abrams) Chuang & Heckard	Castilleja angustifolia (Nutt.) G. Don. var. dubia A. Nels				√			
SCR	Castilleja austromontana Standley & Blumer			√	√	√	√		
SCR	Castilleja integra Gray					√	√		
SCR	Castilleja miniata Dougl. ex Hook. ssp. miniata	Castilleja confusa Greene		√	√	√	√		
SCR	Limosella acaulis Sesse & Moc.				√				√
SCR	Limosella aquatica L.				√				√
SCR	Linaria dalmatica (L.) P.Mill.				√	√	√		n w c
SCR	Linaria vulgaris L.					√	√		n w c
SCR	Mimulus guttatus DC	Mimulus nasutus Greene		√	√	√			√
SCR	Mimulus primuloides Bentham				√				√
SCR	Mimulus rubellus Gray					√			√
SCR	Orthocarpus luteus Nutt.			√	√	√			
SCR	Orthocarpus purpureoalbus Gray ex. S. Wats.					√	√		
SCR	Pedicularis centanthera Gray					√	√		
SCR	Pedicularis parryi Gray		√	√					
SCR	Penstemon barbatus (Cav.) Roth.			√	√	√	√		
SCR	Penstemon eatoni Gray				√				
SCR	Penstemon linarioides Gray ssp. compactus Keck					√	√		
SCR	Penstemon ophianthus Pennell	P. jamesii Benth. ssp ophianthus (Penn.) Keck				√	√		
SCR	Penstemon pseudoputus (Crosswhite) N. Holmgren	P. virgatus Gray ssp. pseudoputus Crossw.				√			
SCR	Penstemon pseudospectabilis M.E. Jones ssp. connatifolius (A. Nels.) Keck				√				
SCR	Penstemon rostiflorus Kellogg	P. bridgesii Gray				√	√		
SCR	Penstemon strictus Bentham					√	√		√
SCR	Penstemon virgatus Gray			√	√	√	√		
SCR	Penstemon whippleanus Gray		√	√					
SCR	Verbascum blatteria L.					√			w c
SCR	Verbascum thapsus L.			√	√	√	√		w c
SCR	Verbascum virgatum Stokes					√			m c
SCR	Veronica peregrina L. ssp xalapensis (Kunth) Pennell				√	√			√ w
SCR	Veronica wormskjoldii Roem. & Schult.	Veronica scutellata 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 var <i>cordifolia</i> (Gray) Waterfall					√	√		
SOL	<i>Physalis hederifolia</i> Gray var <i>fendleri</i> (Gray) Cronq.					√	√		
SOL	<i>Solanum jamesii</i> Torrey					√	√		
SOL	<i>Solanum triflorum</i> Nuttall					√	√		
TYP	<i>Typha latifolia</i> L					√			√
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 T&G		√	√	√				
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.				√	√	√		
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.					√			
VRB	<i>Verbena bracteata</i> Lag. & Rodr.					√	√		w
VRB	<i>Verbena macdougalii</i> Heller				√	√	√		
Total:	807		94	287	424	571	367	130	102
									12.6%

¹Adventive plants based on Weber & Wittman 1992 [w], Cox 2001[c], Akins [a], and McDougal 1973 [m], n=noxious. ²Weber's *F. rubra* is native, Akin's is a number of cultivars.

ME = Mount Elden, **WET** = obligate and some preferential wetland plants.

Rev 9/9/2004