

**Plants of the Inyo Mountains,
Inyo County, California**

Original list compiled by Mary DeDecker,
Independence CA. 1973
Additions and nomenclature updates by Jerry Zatorski,
Bishop, CA. 2009 & 2017

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This preliminary list of plants in the Inyo Mountains is compiled for use by those who now have a need for knowing the plants in that range south of Westgard Pass. Further study is being done on some determinations, and work will continue on altitudinal range and distributions of species. Eventually a revised list will be made.

Relative inaccessibility and the scarcity of water have prevented extensive collecting in the Inyo Mountains, or even access to some areas. Little botanizing has been done east of the crest. As is to be expected, most collections have been made at locations which can be reached by vehicles. Valuable contributions have been made, however, by those who followed trails or ventured cross-country to search out the secrets of this interesting desert range.

This list is compiled from specimens in the herbarium at the Rancho Santa Ana Botanical Garden at Claremont, from specimens in the author's private herbarium at Independence, and from her personal notes and observations. It covers about 500 species, subspecies and varieties. Emphasis is placed on Plant Communities, as defined in "A California Flora" by Munz and Keck. Where practical, especially as to the Pinyon-Juniper Woodland and the Bristlecone Pine Forest, these communities are used to designate distribution patterns. The word, "limestone", is rather loosely used to designate any calcareous formation or the soils derived from them.

For the present, a blanket expression of appreciation is made to all who have helped the author in encouragement, help identifying species, and support in many ways. Their help has been invaluable. It is hoped that the result will be helpful to all who have an interest in the flora of the Inyo Mountains.

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Families and Species are arranged in alphabetical order throughout.

Nomenclature updates and range data as according to Munz 1959; DeDecker 1984; Hickman 1993; Wetherwax 2002; Baldwin 2012.

PTEROPHYTA:

Dryopteridaceae, Wood Fern Family

Cystopteris fragilis (L.) Bernh. Brittle Fern. Shady moist locations around springs and seeps, 5200-10,000'.

Equisetaceae, Horsetail Family

Equisetum laevigatum A. Braun. Scouring Rush. Around springs and seeps, moist locations, up to 9800'.

Pteridaceae, Maidenhair Fern Family

Adiantum capillus-veneris L. Venus-hair Fern. Hunter Canyon, 1500 ft, Beveridge Canyon, 2000', Skinner Canyon, 5000 ft.

Cheilanthes covillei Maxon. Coville's Lip Fern. At base of boulders or in crevices, up to 6400'. NE of Independence.

Cheilanthes feei T. Moore. Slender Lip Fern. Limestone bank 1½ miles SW of Loretta Mine, 5500'.

Cheilanthes wootonii Maxon. Wooton's Lace Fern. East of Big Pine, 4000'.

Notholaena jonesii Maxon. Talc Canyon, Saline Valley Road.

Notholaena parryi Eat. Parry's Cloak Fern. Talc Canyon, 4500 and 7000 ft, Mazourka Canyon, ca. 5000'.

Pellaea breweri D. Eat. Brewer's Cliffbreak Fern. Generally north facing granite cliffs in crevices and on slopes, 4000-10,000'.

Pellaea mucronata (Eat) Eaton. Bird's Foot Fern. Dry granite up to 8000'.

Pentagramma triangularis (Kaulf) Yatskievych. Golden-back Fern. Generally shaded granite soils, slopes and rocks, 3200-6500'.

Selaginellaceae

Selaginella watsonii L. Underw. Watson's spikemoss. Whippoorwill Flat.

CONIFEROPHYTA:

Pinaceae, Pine Family

Pinus flexilis James. Limber Pine. On ridges and along crest, down to 7300', in the narrows of Marble Canyon.

Pinus longaeva D. K. Bailey. Great Basin Bristlecone Pine. Limestone peaks and crests, especially on the north and east slopes, down to about 7250', in the narrows of Marble Canyon.

Pinus monophylla Torr. & Frem. Single Needle Pinyon Pine. Slopes and flats throughout the range, mostly between 6500-9000'.

Cupressaceae, Cypress Family

Juniperus occidentalis Hook var. *australis* (Vasek) A. Holmgren & N. Holmgren. Western Juniper. Around Seep Hole Spring, just east of crest.

Juniperus osteoperma (Torr.) Little. Utah Juniper. Mostly with *Pinus monophylla*, making the Pinyon-Juniper Woodland; rarely in the Bristlecone Pine Forest where the trees are unusually large, up to 9200'.

Ephedraceae, Ephedra Family

Ephedra nevadensis Wats. Nevada Ephedra. Common on dry flats and slopes up to 6800'.

Ephedra viridis Cov. Green Ephedra. Mostly Pinyon-Juniper Woodland and Bristlecone Pine Forest, up to 10,300'.

ANTHOPHYTA:

Dicotyledoneae

Adoxaceae, Moschatel Family

Symphoricarpos longiflorus Gray. Long-flowered Snowberry. From 5000-9500'.

Amaranthaceae, Amaranth Family

Tidestromia oblongifolia (Wats.) Sta. Honeysweet. Swansea area east of Owens Lake.

Apiaceae, Carrot Family

Cymopterus aboriginum Jones. Indian Parsley. Fairly common between 5500-7900'.

Cymopterus cinerarius Gray. Alpine Parsley. Waucoba Wash, 6500 ft, and Cerro Gordo Rd. east of the crest at 6500 ft; Pinyon-Juniper Woodland up to and throughout the Bristlecone Forest, 9400-10,600'.

Lomatium foeniculaceum (Nutt.) Coult. & Rose ssp. *inyoense* (Math. & Const.) Theobald. Inyo Mountains Parsley. Bristlecone Pine Forest, 9400-10,600'.

Lomatium mohavense (Coult. & Rose) Coult. & Rose. Mojave Parsley. East of Lone Pine, 7000'.

Lomatium nevadense (S. Watson) J. Coulter & Rose var. *nevadense*. Nevada biscuit-root. Whippoorwill Flat.

Lomatium nevadense (Wats.) Coult. & Rose var. *parishii* (Coult. & Rose) Jepson. Parish's Parsley. East side, north of Darwin.

Lomatium rigidum (Jones) Jepson. Big Pine Biscuitroot. South of Santa Rita Flat, 6450', at base of granite cliff.

Apocynaceae, Dogbane Family

Apocynum cannabinum L. Hemp Dogbane. Along streams, Skinner Canyon, 5000 ft; near Whiteside Springs, 5200'.

Asclepias erosa Torr. Desert Milkweed. Cerro Gordo Rd, 5000'.

Asclepias fascicularis Done. ex. A. DC. Narrow-leaf Milkweed. Skinner Canyon, 5000'; occasional at springs.

Cycladenia humilis Benth. var. *venusta* (Eastwd.) Munz. Sacramento Waxy Dogbane. Gravelly soils in Pinyon-Juniper Woodland and Bristlecone Pine Forest, 7000-10,000'.

Asteraceae, Aster Family

Acamptopappus shockleyi Gray. Shockley Goldenhead. Mazourka Canyon.

Agoseris glauca (Pursh) Greene var. *monticola* (Greene) Q. Jones. Mountain Agoseris. Near Side Hill Saddle, with *Pinus Flexilis*, 10,200'.

Ambrosia acanthicarpa Hook. Sand Bur Ragweed. Weedy annual, often along roadsides, up to 7000'.

Ambrosia dumosa (Gray) Payne. Burro Bush. Canyons up to 4000'.

Ambrosia salsola T. & G. Common Cheesebush. Common shrub at lower elevations, up to 6000'.

Anisocoma acaulis Torr. & Gray. Scale Bud. Common, especially on igneous soils, up to 6000'.

Antennaria dimorpha (Nutt.) Torr. & Gray. Dwarf Pearly Everlasting. Infrequent above 8000'.

Artemisia arbuscula Nutt. Low Sagebrush. Open places along crest.

Artemisia bigelovii Gray ex Torrey. Bigelow's Sagebrush. Limestone slopes, 5000-6000'.

Artemisia dranuculus L. Wild Tarragon. Occasional in canyons and near springs; Devil's Gate and Westgard Pass Canyon.

Artemisia ludoviciana Nutt. Silver Mugwort. Washes and roadsides.

Artemisia norvegica Fries ssp. *saxatilis* ((Besser) H. M. Hall. Mountain Sagewort. Summit of Waucoba Mt., 11,100'.

Artemisia nova Nelson. Black Sagebrush. Common 5000' to summits.

Artemisia spinescens D. C. Eat. Budsage. Common, up to 6000'.

Artemisia tridentata Nutt. ssp. *parishii* (Gray) Hall & Clements. Mojave Big Sagebrush. Uncommon found in sandy soils, up to 6500'.

Artemisia tridentata Nutt. ssp. *tridentata*. Great Basin Big Sagebrush. Common throughout range, up to about 8000'.

Artemisia tridentata Nutt. ssp. *vaseyana* (Rydb.) Beetle. Mountain Big sagebrush. Common throughout range, mostly below crest, above 6000'.

Brickellia atractyloides Gray var. *arguta* (B.L. Rob.) Jeps. Cliff Brickellbush. Creosote Bush Scrub and Shadscale Scrub, up to 7500'.

Brickellia californica (T. & G.) Gray. California Brickellbush. West side, Westgard Pass, 6200'.

Brickellia longifolia S. Watson var. *multiflora* (Kellogg) Cronquist. Inyo Brickellbush. Gravelly washes and rocky canyons, both sides of range, up to about 6000'.

Brickellia microphylla var. *microphylla* (Nutt.) Gray (*Brickellia watsonii* Rob). Sweet Brickellbush. Cliffs, canyon walls and rocky canyons, 5000-7300'.

Brickellia oblongifolia Nutt. var. *linifolia* (D. C. Eat) Rob. Pinyon Brickellbush. Occasional, up to 8500'.

Calycoseris parryi (Pursh) Greene. Yellow Tackstem. Washes and flats, up to 6500'.

Calycoseris wrightii Gray. White Tackstem. Occasional, up to 4300'.

Chaenactis carpoclinia Gray. Pebble Pincushion. Lower slopes and washes, up to 4100'.

Chaenactis douglasii (Hook) H. & A. Douglass's Pincushion. Badger Flat and above, 8400 ft; crest near Side Hill Spring, 10,000'.

Chaenactis douglasii (Hook) H. & A. var. *douglasii* H. & A. Douglass's Pincushion. Near Seep Hole Springs, 9500', Whippoorwill Flat.

Chaenactis fremontii Gray. Fremont's Pincushion. Common in sandy soils up to about 5000'.

Chaenactis macrantha D. C. Eat. Large-flowered Pincushion. Mostly between 4000-6000'.

Chaenactis steviodes H. & A. Grey-leafed Pincushion. Common 4000-9200', especially Joshua Flats.

Chaetopappa ericoides (Torrey) G. Nesom. Heath Daisy. Occasional on limestone, 5500-8400'.

Chrysothamnus gramineus H. M. Hall. Panamint Rock Goldenrod. Mostly Bistlecone Pine Forest, 8300-9500'.

Chrysothamnus viscidiflorus (Hook) Nutt. ssp. *axillaris* (Keck) L. Anderson. Thread-leaf rabbitbrush. Payson Canyon 6800'.

Chrysothamnus viscidiflorus (Hook) Nutt. ssp. *puberulus* (D. C. Eat.) Hall & Clem. Pinyon Rabbitbrush. Common between 6500-9000'.

Chrysothamnus viscidiflorus (Hook) Nutt. ssp. *viscidiflorus*. Curly-leaf rabbitbrush. Common above 5800'.

Cirsium canovirens Rydb. Grey-green Thistle. Hunter Canyon, 2200', east side.

Cirsium mohavense (greene) Petr. Mojave Thistle. Canyon bottoms and moist places, especially near springs, up to 5000'.

Cirsium nidulum (Jones) Petr. Red Thistle. Tamarack Canyon, 8600-9000', Bristlecone Pine Forest.

Crepis acuminata Nutt. Mountain Hawksbeard. Whippoorwill Flat.

Crepis intermedia Gray. Limestone Hawksbeard. Mostly Bristlecone Pine Forest.

Crepis occidentalis Nutt. Western hawksbeard. West of Badger Flat, 8500'.

Dieteria canescens (Pursh) Nutt. Hoary Aster. Common, 5200-9500'.

Encelia actoni Elmer. Acton's Brittlebush. Common in washes up to about 5000'.

Ericameria cooperi (Gray) Hall. Cooper's Goldenbush. Common in lower canyons.

Ericameria cuneata (Gray) McClatchie var. *cuneata*. Cliff Goldenbush. Common on cliffs and canyon walls, up to 8800'.

Ericameria discoidea (Nutt) G. Nesom. Whitestem Goldenbush. Head of Tamarack Canyon, 9500 ft; north shoulder of Waucoba Mt., 10,400-10,700'.

Ericameria gilmanii (Blake) G. Nesom. Gilman's Goldenbush. Narrow canyon walls, usually limestone, above 7100'.

Ericameria nauseosa (Pall.) Britton var. *hololeuca* (Gray) Hall & Clem. Whiteleaf Rabbitbrush. Two miles NE of Andrews Mountain, 7600'; West Guard Pass Rd, up to 8000'.

Ericameria nauseosa (Pall.) Britton var. *leisperma* (Gray) Hall. Arid Rabbitbrush. Calcareous soils, 4000-7500', Loretta Rd.

Ericameria nauseosa (Pall.) Britton var. *speciosa* (Nutt) Hall & Clem. White-stemmed Rabbitbrush. Pat Keys Trail, 7200'; Al Rose Canyon, 8500'.

Ericameria paniculata (Gray) Hall. Wash Rabbitbrush. Washes at south end of range and Westgard Pass Wash up to 5200'.

Ericameria parryi (Gray) Greene ssp. *asper* (Green) Hall & Clem. Desert Mountain Rabbitbrush. Tamarack Canyon, 9800'.

Ericameria parryi (Gray) Greene ssp. *nevadensis* (Green) Hall & Clem. Nevada Mountain Rabbitbrush. Seephole Springs, 9300'; Keynot Peak, 10,500'.

Ericameria teretifolia (Dur. & Hilg.) Hall. Needleleafed Rabbitbrush. Common up to about 7500'.

Erigeron aphanactis (Gray) Greene. Gold Buttons. Washes and open slopes, 5800-9400'.

Erigeron argentatus Gray. Nevada Fleabane. Common in Pinyon-Juniper Woodland and on Joshua Flat.

Erigeron breweri Gray var. *porphyreticus* (Jones) Cronq. Boulder Daisy. Usually at base of cliffs or granite boulders, 5400-6700'.

Erigeron calvus Cov. Bald Fleabane. Four miles north of Keeler, base of mountains.

Erigeron clokeyi Cronq. Clokey's Daisy. Limestone soils, 8300' and above; common in Bristlecone Pine Forest.

Erigeron compactus S.F. Blake. Cushion Daisy, Fernleaf Fleabane. Whippoorwill Flat.

Erigeron lonchophyllus Hook. Wet Meadow Fleabane. Spring 1½ miles north of New York Butte, 8800'.

Erigeron tener (Gray) Gray. Slender Fleabane. Near SE end of Badger Flat.

Eriophyllum ambiguum Gray. Woolly Daisy. Santa Rosa Rd, 6000'.

Eriophyllum wallacei (Gray) Gray. Wallace's Woolly Daisy. Lower slopes and washes.

Filago arizonica Gray. Arizona Filago. Area of granite boulders SW of Santa Rita Flat, 4200-6400'.

Glyptopleura marginata Eat. Holly Dandelion. Santa Rita Flat, 6500'.

Gutierrezia microcephala (DC.) Gray. Matchweed. Common in canyons up to about 7000'.

Hazardia brickellioides Blake. Holly Goldenbush. East side of range, 2100'.

Hecastocleis shockleyi Gray. Prickel-leaf. Cerro Gordo Rd, 5000-5760'.

Heliomeris multiflora Nutt. var. *nevadensis* (A. Nels.) Yates. Nevada Showy Goldeneye. Westgard Pass Rd from Toll House Spring eastward, 6000-7000', east of Cerro Gordo, 5600'.

Hulsea vestita Gray ssp. *inyoensis* (Keck) Wilken. Inyo Hulsea. Al Rose Canyon, 6700'.

Hymenopappus filifolius Hook. var. *nanus* (Rydb.) Turner. Inyo Cutleaf. Mostly 9500-10,150'.

Hymenoxys lemmonii (E. Greene) Cockerell. Lemon's Rubberweed. North of Papoose Flat, 8900'.

Layia glandulosa (Hook) H. & A. Tidy Tips. Up to 8500'.

Lepidospartum latisquamum Wats. Nevada Scale-broom. Westgard Pass Canyon to just above Toll House Springs, up to 6500'.

Malacothrix coulteri Gray. Snake's Head. Rarely found as far north as seven miles NE of Independence, along the base of the range up to 4100'.

Malacothrix glabrata Gray. Desert Dandelion. Common along base of range and in washes.

Malacothrix sonchoides (Nutt.) T. G. Yellow Saucers. Occasional in sandy places, up to 6500'.

Packera cana (Hook.) W.A. Weber & A. Löve. Woolly Groundsel. Limestone ridge about 2 miles NE of Badger Flat, 9400'.

Perityle inyoensis (Ferris) A. Powell. Inyo Laphamia. Two miles south of Cerro Gordo Spring.

Perityle megalcephala (S. Watson) J. F. Macbr. var. *megalcephala*. Tall Perityle. Marble Canyon Narrows, 7300'.

Petradoria pumila (Nutt.) Greene ssp. *pumila*. Rock Goldenrod. Bristlecone Pine Forest east of Badger Flat, 9000 to 9400'.

Peucephyllum schottii (Gray) Gray. Pygmy Cedar. Coyote Wash, NW of springs, 4440', Pandora's Box, 4000'.

Pleiocanthus spinosus (Nutt.) Rydb. Wool Cache Plant. Very common, up to 9400'.

Pleurocoronis pluriseta (Gray) King & Robinson. Bush Arrowleaf. Willow Creek Canyon, 2300', east side.

Pluchea sericea (Nutt.) Cov. Arrow Weed. Badwater Springs, 1600'; Willow Creek, 2400', both on Saline Valley side.

Prenanthes exiguus (Gray) Rydb. Bright white. Dry washes and ridges, up to 6200'.

Psathyrotes annua (Nutt.) Turtleback. Gray, east of Keeler, 3800'.

Pyrrocoma apargioides (Gray) E. Greene. Alpine Flames. Lead Canyon trail, 10,100'.

Rafinesquia neomexicana Gray. Desert Chicory. In washes at lower elevations.

Senecio flaccidus Less. var. *monoensis* (Greene) B. Turner & T. Barkley. Mono Senecio. Fairly common, 4800-9600'.

Senecio spartinooides Torr. & Gray. Inyo Senecio. Infrequently found in open rocky places, 7500-10,000'.

Solidago spectabilis (D. C. Eat.) Gray. Showy Goldenrod. Skinner Canyon, 5000'.

Sphaeromeria cana (D. C. Eaton) A. A. Heller. Mountain Tansey. New York Butte, 10,600'.

Stenotus acaulis Nutt. Stemless mock goldenweed. Mostly Bristlecone Pine Forest.

Stephanomeria exiguus Nutt. Annual Mitra, Up to 7000'.

Stephanomeria parryi Gray. Parry's Rock Pink. Up to 6000'.

Stephanomeria pauciflora (Torr.) Nutt. Wire-Lettuce. Common up to 6000'.

Syntrichopappus fremontii Gray. Yellowray Fremont's Gold. Santa Rita Flat, 6850'.

Tetradymia axillaris A. Nelson var. *axillaris*. Straight-spine Cotton-thorn. Common up to 6500'. or more.

Tetradymia canescens DC. Gray Horsebrush. Common, often on limestone, 8500-10,200'.; Pinyon-Juniper Woodland and Bristlecone Pine Forest.

Tetradymia glabrata Gray. Little Horsebrush. Occasional, up to 7800'.

Tetradymia stenolepis Greene. Mojave Horsebrush. Flats and ridges SW of Santa Rita Flat, 4800-5500'.

Towsendia scapigera D. C. Eat. Ground Dasy. Rocky places, mostly Bristle Cone Pine Forest, 8700-10,200'.

Xylorhiza tortifolia (Torrey & Gray) E. Green var. *tortifolia*. Mojave Aster. Common in washes and on slopes up to about 5700'.

Betulaceae, Birch Family

Betula occidentalis Hook. Water Birch. Shrub to small tree around springs up to 8500'.

Boraginaceae, Borage Family

Amsinkia tessellata Gray. Common Fiddleneck. Common, up to 5500'.

Cryptantha ambigua (Gray) Greene. Basin Cryptantha. Mazourka Canyon drainage, 4950'.

Cryptantha circumscissa (H. & A.) Johnston. Capped Cryptantha. Common up to 8800'.

Cryptantha confertiflora (Greene) Payson. Golden Forget-me-not. Between 6300-9400', especially in limestone.

Cryptantha decipiens (Jones) Heller. Gravel Forget-me-not. East side of range, up to 4600'; Creosote Bush Scrub.

Cryptantha echinella Greene. Prickly Cryptantha. Occasional, up to 9000' on Mazourka Peak.

Cryptantha flavoculata (Nels.) Payson. Sulfer-throated Forget-me-not. Mostly on limestone, 6500-10,400'.

Cryptantha gracilis Osterh. Granite Cryptantha. East of Independence, 5200 ft; Joshua Flats, 6000 ft.

Cryptantha micrantha (Torrey) Johnston. Red Stemmed Forget-me-not. Common in sandy soils up to 5000'.

Cryptantha mohavensis (Greene) Greene. Mojave Forget-me-not. Infrequent in open areas up to 9000'.

Cryptantha nevadensis Nels. & Kenn. Nevada Forget-me-not. Common, up to 6000'.

Cryptantha nubigena (Greene) Payson. Sierra Cryptantha. Tamarack Canyon, 9500'.

Cryptantha pterocarya (Torr.) Greene. Winged Forget-me-not. Common, up to 6400'.

Cryptantha racemosa (Wats.) Greene. Brushy Cryptantha. Occasional in rocky places or along cliffs at lower elevations.

Cryptantha recurvata Cov. Curved Cryptantha. Occasional, up to 5000'.

Cryptantha utahensis (Gray) Greene. Utah Forget-me-not. Washes, up to 6500'.

Cryptantha virginensis (M. E. Jones) Payson. Virgin River Forget-me-not. Common in Pinyon-Juniper Woodland on Harkless Flat; west slope Badger Flat, in clay soil, 8500'.

Cryptantha watsonii (A. Gray) E. Greene. Watson's Cryptantha. Whippoorwill Flat.

Emmenanthe penduliflora Benth. var. *penduliflora*. Whispering Bells. Occasional in canyons, up to 5700'.

Eucrypta chrysanthemifolia (Benth) Green var. *bipinnatifida* (Torr.) Const. Spotted Hideseed. In sheltered places, up to 6400'.

Eucrypta micrantha (Torr.) Heller. Dainty Desert Hideseed. Hunter Canyon on east side to Al Rose Canyon on west side, common in shaded places, 2100-8000'

Lappula redowskii (Hornem.) Green. Stick Seed. Joshua Flats, 6000'; Tamarack Canyon, 8600'.

Nama demissum Gray var. *demissum*. Purple Mat. Occasional in scrub communities up to 6000'.

Nama densum Lemmon. Leafy Nama. Occasional on open flats.

Nama hispidum Gray var. *spathulatum* (Torr) C. L. Hitchcock. Hairy Nama. South of Santa Rita Flat, near Christy's Spring, 6440'.

Pectocarya setosa Gray. Round Combseed. Santa Rita Flat, 6650'.

Phacelia crenulata Torrey var. *crenulata*. Purple Phacelia. Open canyons, up to 8000'.

Phacelia curvipes Torr. ex. Wats. Dwarf Phacelia. Under trees or shrubs, sheltered by granite boulders, or in protected places, up to 7600'.

Phacelia distans Benth. Desert Bluebells. Up to 6650' on Santa Rita Flat.

Phacelia fremontii Torr. Common Yellowthroats. Common, all plant communities up to 9300'.

Phacelia hastata Dougl. Ex. Lehm. Mountain Phacelia, Silver-leaf Phacelia. At 9600' on west approach to Side Hill Saddle in wash.

Phacelia humilis Torrey & A. Gray. Low Phacelia. Whippoorwill Flat.

Phacelia lemmonii Gray. Lemmon's Phacelia. At undisturbed springs, 4600-5400'.

Phacelia peirsoniana J. T. Howell. Peirson's Phacelia. Pinyon-Juniper Woodland; west of Westgard Pass, 6500'; road to Squaw Flat, 8000'.

Phacelia perityloides Cov. Cliff Phacelia. Crevices in cliffs, lower elevations throughout range, up to 6150' at Devil's Gate.

Phacelia rotundifolia Torr. ex. Wats. Round-leaf Phacelia. Rocky places in Creosote Bush Scrub or Shadscale Scrub, up to 6500'.

Phacelia vallis-mortae J. Voss. Death Valley Phacelia. East of Big Pine, East side of range to Pinyon/Juniper woodland, up to about 7500'.

Plagiobothrys jonesii Gray. Jones's Popcorn Flower. East of Big Pine.

Tiquilia nuttallii (Hook) A. Richardson. Nuttall's Tiquilia. Flats up to 7200', especially in sandy soil.

Tricardia watsonii Torr. ex. Wats. Three Hearts. Occasional throughout the range, 5000-7300'.

Brassicaceae, Mustard Family

Boechera bodiensis (Rollins) Al-Shehbaz. Bodie Hills Rock Cress. Whippoorwill Flat.

Boechera dispar Jones. Pinyon Rockcress. Santa Rita and Badger Flats area, up to 8500'.

Boechera glaucovalvula M. E. Jones. Blue-podded Rockcress. Area of granitic boulders SW of Santa Rita Flats, 4200-6400'.

Boechera holboellii Hornem. var. *pinetorum* (Tides.) Rollins. Arched Rockcress. Papoose Flat, 8600'.

Boechera holboellii Hornem. var. *retrofracta* (Graham) Rydb. Reflexed Rockcress. Mostly between 9200-10,500'.

Boechera inyoensis Rollins. Inyo Rockcress. Occasional throughout the Bristlecone Pine Forest.

Boechera lemmonii Wats. var. *depauperata* (Nels. & Kenn.) Rollins. Lemmon's Rockcress. New York Butte, 10,665'.

Boechera microphylla Nutt. var. *microphylla*. Small-leaf Rockcress. Tamarack Canyon, 10,100'.

Boechera perennans (S. Watson) W.A. Weber. Perennial Rockcress. Whippoorwill Flat.

Boechera pinetorum (Tidestr.) Windham & Al-Shehbaz. Holboell's Rockcress. Whippoorwill Flat.

Boechera pulchra Jones var. *gracilis* Jones. Prince's Rockcress. Fairly common, up to 7000'.

Boechera pulchra Jones var. *munciensis* Jones. Darwin Rockcress. Santa Rita Flat, 6800'.

Boechera xylopoda Windham & Al-Shehbaz. Bigfoot Hybrid Rockcress. Whippoorwill Flat.

Caulanthus cooperi (Wats.) Payson. Cooper's Jewel Flower. Common in washes, up to about 5000'.

Caulanthus crassicaulis (Torr.) Wats. Thick-stemmed Wild Cabbage. Occasional, mostly in Pinyon-Juniper Woodland.

Caulanthus glaucus Wats. Glauous Wild Cabbage. Lime Hill, 5500'; Marble Canyon 5700', always in limestone.

Caulanthus lasiophyllus (Hook. & Arn.) Payson. California Mustard. East of Independence, 4200-4650'.

Descurainia californica (A. Gray) O. Schulz. Sierra Tansy Mustard. Whippoorwill Flat.

Descurainia sophia (L.) Webb. Flixweed Tansey Mustard. Crest near Side Hill Springs, 10,200'.

Erysmim capitatum (Dougl.) Greene. Western Wallflower. East of Big Pine, 6355'; Whippoorwill Flat, 7500'; Tamarack Canyon, 8800-9800'.

Eruca vesicaria (L.) Cav. ssp. *sativa* (Miller) Thell. Garden Rocket. Introduced weed, Waucoba Spring, 5800'.

Halimolobos jaegeri (Munz) Rollins. Rock Mustard. Protected places among boulders or at base of cliffs, 5200-8200'.

Hesperidanthus jaegeri (Rollins) Al-Shehbaz. Cliff Dweller. Shaded crevices in limestone, 6000-8000'.

Hornungia procumbens (L.) Hayek. Prostrate Hutchinsia. Gruber Springs, 5400'.

Lepidium densiflorum Schrad. var. *ramosum* (A. Nels.) Thell. Thellung Peppergrass. Marble canyon on limestone, 5700'.

Lepidium flavum Torr. var. *flavum*. Yellow Peppergrass. Common along base of range and up to about 4500', occasionally higher.

Lepidium fremontii Wats. var. *fremontii*. Desert Alyssum. Common Below 6000'.

Lepidium fremontii Wats. var. *stipitatum* Rollins. Stalked-seed Desert Alyssum Uncommon on slopes and ridges, from 4000-4900'.

Lepidium lasiocarpum Nutt. var. *lasiocarpum*. Modest Peppergrass. Inconspicuous, but common up to 6000'.

Lepidium virginicum L. var. *pubescens* (Greene) Thell. Tall Peppergrass. Disturbed areas, along roadsides, up to 7800'.

Lesquerella kingii Wats. Beadpod. On limestone in the Bristlecone Pine Forest.

Rorippa nasturtium-aquaticum (L.) Hayek. Watercress. Aquatic found at springs.

Sibara deserti (Jones) Rollins. Desert Sibara. Hunter Canyon, east side of range, 1600'; Mazourka Canyon area, up to 4200'.

Sibara rosulata Rollins. Cliff Sibara. Willow Creek Canyon, east side of range, 2300'.

Sisymbrium altissimum L. Tumble Mustard. East of Big Pine, 5000', roadside weed.

Stanleya elata Jones. Desert Mountain Prince's Plume. Common in washes and canyons, up to 5000'.

Stanleya pinnata (Pursh) Britton. var. *pinnata*. Desert Prince's Plume. Occasional, up to 7900'.

Stanleya pinnata (Pursh) Britton. var. *inyoensis* (Munz & Roos.) Rev. Inyo Prince's Plume. Sandy seepage areas and at alkaline boarders, up to 7300'.

Streptanthella longirostris (Wats.) Rydb. Streptanthella. Common, sandy flats and washes, below 6000'.

Streptanthus cordatus Nutt. Pinyon Streptanthus. Mostly 6000-10,000', Pinyon-Juniper Woodland and Bristlecone Pine Forest.

Thysanocarpus curvipes Hook. Fringe-pod. Area of granite boulders SE of Blackrock Springs, 4200'.

Cactaceae, Cactus Family

Cylindropuntia echinocarpa (Engelm. & Biglow) F. M. Knuth. Silver Cholla. Occasional, up to about 6500'.

Echinocactus polycephalus Engelm. & Bigelow. Cotton Top Cactus. Washes and dry slopes, up to 4500'.

Echinocereus engelmannii (Engelm.) Lemaire. Engelmann's Hedgehog Cactus. Mostly between 4000-7000'.

Echinocereus mojavensis (Engelm. & Biglow) Rumpler. Mojave Mound Cactus. Occasional, 6000-10,000'.

Opuntia basilaris Engelm. & Biglow var. *basilaris*. Beavertail Cactus. Up to about 6000'.

Opuntia polyacantha Haworth ssp. *erinacea* (Engelm. & Bigelow) Parfitt var. *erinacea*. Hedgehog Prickly Pear Cactus. Up to 8000' in Harkless Flat area.

Opuntia polyacantha Haworth ssp. *erinacea* (Engelm. & Bigelow) Parfitt var. *ursina* Weber. Creeping Hedgehog Prickly Pear Cactus. Joshua Flats, 6200'.

Opuntia polyacantha Haworth ssp. *erinacea* (Engelm. & Bigelow) Parfitt var. *utahensis* (Engelm.) Benson. Utah Hedgehog Prickly Pear Cactus. Pinyon-Juniper Woodland.

Sclerocactus polycancistris (Engelm. & Bigelow) Britton & Rose. Mojave Fishhook Cactus. Usually on limestone, up to 7600' or higher.

Campanulaceae, Bellflower, Family

Lobelia cardinalis L. var. *pseudosplendens* McVaugh. Scarlet Lobelia. Skinner Canyon, about 5000'.

Nemacladus glanduliferus Jepson var. *orientalis* McVaugh. Glandular Thread-plant. Up to 5800'.

Nemacladus rigidus Curran. Stout Thread-plant. East side of range, east of Lone Pine, 5000'.

Nemacladus sigmoideus Robbins. Inyo Thread-plant. Santa Rosa Canyon, east side, 5000'.

Caryophyllaceae, Pink Family

Arenaria kingii (Wats.) Jones var. *glabrescens* (Watson) Maguire. King's Smooth Sandwort. Pinyon-Juniper Woodland and Bristlecone Pine Forest up to crest of the range.

Arenaria macradenia Wats. var. *macradenia*. Mojave Sandwort. Mostly 4500-6200'.

Scopoliphila rixfordii (Bdg.) M. & J. Rixford's Rockwort. Limestone crevices and outcrops, 4000-7500'.

Silene bernardina Wats. Maguire's Champion. Bristlecone Pine Forest.

Silene verecunda Wats. ssp. *andersonii* (Clokey) Hitch. & Maguire. Anderson's Champion. East side of range, 17 miles north of Darwin.

Chenopodiaceae, Goosefoot Family

Atriplex canescens (Pursh) Nutt. ssp. *canescens*. Four-winged Saltbush. Common below 7000'.

Atriplex confertifolia (Torr. & Frem) Wats. Shadscale. Common below 7000'.

Atriplex hymenelytra (Torr.) Wats. Desert Holly. East of Owens Lake, up to about 4200'.

Atriplex torreyi (Wats.) Hall & Clements. Nevada Saltbush. Seepage areas and about springs up to 5500'.

Atriplex serenana A. Nels. Stinky Bractscale. Toll House Springs.

Chenopodium atrovirens Rydb. Pinyon Goosefoot. Common in all plant communities.

Chenopodium desiccatum A. Nels. Dryland Goosefoot. Pinyon-Juniper Woodland and up to 9300'.

Chenopodium fremontii Wats. Fremont's Goosefoot. Common, mostly in Pinyon-Juniper Woodland; Santa Rita Spring

Chenopodium leptophyllum Nutt. Narrow-leaf Goosefoot. Common at all elevations.

Chenopodium simplex (Torrey) Raf. Maple-leaf Goosefoot. Westgard Pass, 7800'.

Grayia spinosa (Hook) Moq. Hop Sage. Common at lower and middle elevations, a scrubby form up to 9350'.

Kochia americana Wats. Red Molly. Southern part of the range, up to 6000'.

Krascheninnikovia lanata (Pursh) Meeuse & Smit. Winterfat. Common, especially on flats, up to 9000'.

Salsola paulsenii Litv. Barbwire Russian Thistle. Whippoorwill Flat.

Salsola tragus L. Russian Thistle, Tumbleweed. Common weed up to 9000'.

Suaeda nigra (J.F. Macbr.) Greene. Ink Plant. With *Sarcobatus* at alkaline seeps, up to 5800'.

Cleomeaceae, Wild Caper Family

Cleome lutea Hook. Golden Bee Plant. Up to 7250'.

Convolvulaceae, Morning Glory Family

Cuscuta californica H. & A. var. *californica*. California Dodder. East of Big Pine, on Eriogonum, 5400'.

Cuscuta californica H. & A. var. *breviflora* Engelm. Short-flowered California Dodder. East of Big Pine on various hosts, especially *Chaenactis*, up to 6000'.

Crossosomataceae, Crossosoma Family

Glossopetalon spinescens Gray. Nevada Greasebush. On limestone along Loretta Mine Rd, 5500-5700'.

Cucurbitaceae, Cucumber Family

Cucurbita palmate Wats. Coyote Melon. Vega Camp, east base of range.

Elaeagnaceae, Oleaster Family

Elaeagnus angustifolia L. Russian Olive. Whiteside Springs, 5200'.

Euphorbiaceae, Spurge Family

Chamaesyce albomarginata (Torrey & Gray) Small. Rattlesnake Weed. Canyons on east side of range at lower elevations.

Chamaesyce fendleri (Torrey & Gray) Small. Fendler's Spurge. Occasional, especially on limestone soils, 5500-8400'.

Fabaceae, Bean Family

Astragalus acutirostris Wats. Keel Beak. Occasional, Jackass Flats, 5600'; Johnson Spring, 5620'.

Astragalus calycosus Torr. Little Grey Milkvetch. Common, Pinyon-Juniper Woodland and Bristlecone Pine Forest.

Astragalus casei Gray. Case's Milkvetch. Occasional, especially on flats, 6300-7000'.

Astragalus cimae Jones var. *sufflatus* Barneby. Broad-shouldered Milkvetch. Plentiful in places on east side of range, mostly in Pinyon-Juniper Woodland or just below it, 5000-6900'.

Astragalus coccineus Brandegee. Scarlet Milkvetch. Occasional, up to 6600'.

Astragalus inyoensis Sheldon. Inyo Milkvetch. Fairly common, mostly in Pinyon-Juniper Woodland.

Astragalus kentrophyta Gray var. *elatus* Barneby. Spiny-leaved Milkvetch. Bristlecone Pine Forest, 9500' and above.

Astragalus layneae Green. Layne's Milkvetch. Southern part of Jackass Flats, Whippoorwill Flat.

Astragalus lentiginosus Dougl. var. *fremontii* (Gray) Wats. Fremont's Paper-pod Milkvetch. Common mostly 6000-8700'.

Astragalus lentiginosus Dougl. var. *semotus* Jeps. Little Paper-pod Milkvetch. Bristlecone Pine Forest to summit of Waucoba Mt. A form near var. *ineptus* (Gray) Jones is found at 9100 ft on an open clay flat west of Side Hill Saddle.

Astragalus lentiginosus Hook. var. *variabilis* Barneby. Freckled Milkvetch. Whippoorwill Flat.

Astragalus minthorniae (Rydb.) Jepson. var. *villosus* Barneby. Erect Milkvetch. Common in northern portion of Inyos, Pinyon-Juniper Woodland, 6900-7800'.

Astragalus mohavensis Wats var. *mohavensis*. Mojave Milkvetch. Occasional in limestone canyons.

Astragalus newberryi Gray var. *newberryi*. Newberry's Milkvetch. Westgard Pass.

Astragalus oophorus Wats. var. *lavinii*. Lavin's Egg-pod Milkvetch. Whippoorwill Flat.

Astragalus oophorus Wats. var. *oophorus*. Egg-pod Milkvetch. Mostly in Pinyon-Juniper Woodland, occasional in Bristlecone Pine Forest.

Astragalus platytropis Gray. Little Big-pop Milkvetch. Occasional in Bristlecone Pine Forest, 10,000' and above.

Astragalus purshii Dougl. var. *tinctus* Jones. Pursh's Long-flowered Milkvetch. Pinyon-Juniper Woodland and Bristlecone Pine Forest.

Astragalus serenoii (Kuntze) Sheldon. Broom Milkvetch. Scrub communities and lower part of Pinyon-Juniper Woodland, up as high as 8500' on Keynot Trail.

Astragalus whitneyi A. Gray var. *lenophyllus* (Rydb.) Barneby. White-flowered Whitney's Milkvetch. Whippoorwill Flat.

Dalea searlsiae (Gray) Barneby. Searls' Prairie Clover. Pinyon-Juniper Woodland; Jackass Flats to Squaw Flat, 7300-8000'.

Lupinus argenteus Pursh. var. *argenteus*. Silver Lupine. Flats in Waucoba area, 7000-8500'; south slope of New York Butte, 9200', open places, above 8000'.

Lupinus argenteus Pursh var. *meionanthus* (A. Gray) Barneby. Lake Tahoe Lupine. Whippoorwill Flat.

Lupinus argenteus Pursh. var. *palmeri* (Wats.) Barneby. Palmer's Silver Lupine. Mostly Pinyon-Juniper Woodland, occasional in Bristlecone Pine Forest up to 9600'.

Lupinus brevicaulis Wats. Short-stemmed Lupine. Santa Rita Flat, 6650'; west of Badger Flat, 8800'.

Lupinus excubitus Jones var. *excubitus*. Grape Soda Bush Lupine. Common in washes, mostly below 7000'; rarely up to 9000'.

Lupinus flavoculatus Heller. Yellow Eyes. Common on open places, up to 7500'.

Oxytropis parryi Gary. Parry's Locoweed. Waucoba Mountain, 11,000'.

Oxytropis borealis DC. var. *viscida* (Nutt.) Welsh. Viscid Locoweed. Summit of Waucoba Mountain, 11,123'.

Prosopis pubescens Benth. Screw Bean Mesquite. Badwater Spring, east side of range.

Psoralea fremontii (Gray) Barneby var. *fremontii*. Fremont's Indigobush. Lower canyon and fans, up to 6000'.

Psoralea arborescens (Gray) Barneby var. *minutifolia* (Parish) Barneby. Northern Mojave Indigobush. More common than *P. fremontii*, although they seem to intergrade.

Gentianaceae, Gentian Family

Swertia puberulenta (Davidson) Jepson. Inyo Frasera. Mostly Bristlecone Pine Forest.

Grossulariaceae, Current family

Ribes cereum Dougl. Wax Current. Rocky places in Pinyon-Juniper Woodland and Bristlecone Pine Forest, and to summit of Waucoba Mt. at 11,123'.

Ribes velutinum Greene. Plateau Gooseberry. From Shadscale scrub at 5500' to Pinyon-Juniper Woodland, up to 9350' on Mazourka Peak.

Lamiaceae, Mint Family

Monardella linoides A. Gray ssp. *linoides*. Flaxleaf Pennyroyal. Whippoorwill Flat.

Monardella odoratissima Benth. ssp. *glauca* (Greene) Epling. Follett's Pennyroyal. Bristlecone Pine Forest.

Salvia columbariae Benth. Chia. Common, up to about 7000'.

Salvia dorrii (Kell.) Abrams var. *dorrii* Abrams. Great Basin Purple Sage. Pinyon-Juniper Woodland and Bristlecone Pine Forest.

Scutellaria mexicana (Torr.) A.J. Paton. Bladder Sage. Cerro Gordo Rd, up to 6000'.

Linaceae, Flax Family

Linum lewisii Pursh. Blue Flax. Pinyon-Juniper Woodland and Bristlecone Pine Forest, 7200' and above.

Loasaceae, Blazing Star Family

Eucnide urens (Gray) Parry. Rock Nettle. Rocky places and cliffs in lower canyons, up to about 5000'.

Mentzelia albicaulis Dougl. Ex. Hook. Little Blazing Star. Common in lower washes and open canyons; dwarfed plants as high as 8000'.

Mentzelia congesta (Nutt.) Torr. & Gray. Flower Baskets. Occasional in Pinyon-Juniper Woodland. A colony at 8500' below Badger Flat is near *M. montana* A. Davids.

Mentzelia jonesii (U. & G.) Thompson & Roberts. Jones's Blazing Star. Occasional along base of range.

Mentzelia montana (Davidson) Davidson. Mountain Blazing Star. Whippoorwill Flat.

Mentzelia oreophila J. Darl. Inyo Blazing Star. Narrow canyons, cliffs and rocky places, up to 7300'.

Petalonyx nitidus Wats. Velcro Plant. Skinner Canyon, 4900'; Mazourka Canyon, 5100'; Joshua Flata, 5600'; up to 7200' at southern end of range.

Malvaceae, Mallow Family

Eremalche rotundifolia (Gray) Greene. Desert Five Spot. Sunny slopes south of Mazourka Canyon, 4200'.

Sphaeralcea ambigua Gray var. *ambigua*. Apricot Globe Mallow. Common, up to 8000'.

Sphaeralcea ambigua Gray var. *rosacea* (M. & J.) Kearn. Rose Globe Mallow. Marble Canyon on Waucoba Rd; east side of range from Waucoba Wash southward to Hunter canyon; Joshua Flats, 6200'.

Sphaeralcea ambigua Gray var. *rugosa* (Kearney) Kearney. Wrinkled-leaf Globe Mallow. Westgard Pass to Waucoba Canyon, up to 7000'; Joshua Flats, 6200'.

Monticaceae, Miner's Lettuce Family

Calyptidium monamdrum Nutt. ex T. & G. Pussy Paws. Mouth of canyon SW of Santa Rita Flat, 3900', at base of granite boulders.

Calyptridium parryi Gray var. *nevadense* J. T. Howell. Nevada Sand Cress. Pinyon-Juniper Woodland, Squaw Flat, 7900'.

Lewisia rediviva Pursh. Bitterroot. Open places in Pinyon-Juniper Woodland; Badger Flat and surrounding slopes; ridge between Jackass Flat and Whip-poor-will Flat.

Nyctaginaceae, Four-O-Clock Family

Abronia nana Wats. ssp. *covillei* (Heimerl.) Munz. Inyo Mountain Sand Verbena. Throughout Bristlecone Pine Forest, occasional in Pinyon-Juniper Woodland, mostly on limestone soils.

Anulocaulis annulata Cov. Sticky Ring. Hunter Canyon, 1850'; Beveridge Canyon, 2000'.

Mirabilis albida (Walter) Heimerl. Dwarf Four-O-Clock. Wash below Toll House Spring.

Mirabilis alipes (Wats.) Pilz. Rose Four-O-Clock. Along Waucoba Rd from near junction with Westgard Pass Rd up well into the canyons.

Mirabilis laevis (Benth.) Curran var. *retrorsa* (A. Heller) Jeps. Whishbone Plant. Up to 7000'.

Mirabilis multiflora (Torrey) Gray var. *pubescens* Wats. Desert Four-O-Clock. Occasional on dry, rocky slopes, up to 8000' near Winnedumah.

Oleaceae, Olive Family

Forestiera pubescens Nutt. Desert Olive. French Spring; Willow Springs, 5450'; Whiteside Spring, 5200'.

Menodora spinescens Gray. Spiny Menodora. Common in scrub communities, up to 8700'.

Menodora spinescens A. Gray var. *mohavensis* Steyererm. Mojave Menodora. Whippoorwill Flat.

Onagraceae, Evening Primrose Family

Camissonia pusilla Raven. Little Wiry Evening Primrose. Santa Rita Flat, 6300' in decomposed granite.

Camissonia walkeri (A. Nels.) Raven ssp. *tortilis* (Jepson) Raven. Rock Evening Primrose. Mostly in limestone at base of cliffs; narrows east of Keeler, 4800'; canyon east of Mazourka, 4700-5100'.

Chylismia brevipes (A. Gray) Small. Yellow Cups. South end of range, 4800', base of range on east side.

Chylismia claviformis (Torr. & Frem.) A. Heller. Brown-eyed Evening Primrose. Common in Creosote Bush Scrub in Mazourka Canyon up to 4700'.

Chylismia claviformis (Torr. & Frem.) A. Heller ssp. *integrior* (P.H. Raven) W.L. Wagner & Hoch. Pale-eyed Evening Primrose. Westgard Pass, 6600'.

Chylismia heterochroma (S. Watson) Small. Purple Evening Primrose. Cerro Gordo Rd, 5300'; Marble canyon, 7600'.

Eremothera boothii (Douglas) W.L. Wagner & Hoch ssp. *desertorum* (Munz) W.L. Wagner & Hoch. Booth's Evening Primerose. Sandy soils in open places, up to 7000'.

Eremothera chamaenerioides (A. Gray) W.L. Wagner & Hoch. Modest Evening Primrose. Sandy slopes and flats, up to 6400'.

Eremothera refracta (S. Watson) W.L. Wagner & Hoch. Narrow-leafed Evening Primrose. Common in Creosote Bush Scrub and in Shadscale Scrub up to 6400'.

Gayophytum diffusum Torrey & Gray ssp. *parviflorum* Lewis & Szweyk. Summer Snowflakes. Bristlecone Pine Forest.

Gayophytum ramosissimum Torrey & Gray. Pinyon Gayophytum. Pinyon-Juniper Woodland.

Oenothera californica (Wats.) Wats. ssp. *avita* Klein. California Evening Primrose. Occasional up to 9200', mostly Pinyon-Juniper Woodland.

Oenothera caespitosa Nutt. var. *crinita* (Rydb.) Munz. Limestone Evening Primrose. Limestone ridges and crests, 9200' and above; Bristlecone Pine Forest, or Pinyon-Juniper Woodland on south slopes.

Oenothera caespitosa Nutt. var. *marginata* (Nutt.) Munz. Large White Evening Primrose. Occasional in scrub communities and Pinyon-Juniper Woodland.

Oenothera elata Knuth ssp. *hirsutissima* (Wats.) W. Dietr. Tall Evening Primrose. Barrel Springs, 6400'.

Orobanchaceae, Broomrape Family

Castilleja angustifolia (Nutt.) G. Don. Desert Indian Paintbrush. Common in dry places up to 9500'.

Castilleja applegatei Fern. ssp. *pallida* (Eastw.) Chuang & Heckard. Wavy Leaf Indian Paintbrush. Tamarack Canyon and ridge to north, 8800-11,150'.

Castilleja linariaefolia Benth. Wyoming Indian Paintbrush. Up to 9500', often in moist places.

Castilleja nana Eastw. Purple Owl's Clover. From 8500' to summits.

Cordylanthus kingii Wats. ssp. *helleri* (Ferris) Chuang & Heckard, Heller's Purple Birdsbeak. Very common in the Pinyon-Juniper Woodland; less plentiful in the Bristlecone Pine Forest, up to 10,400'.

Orobanche corymbosa (Rydb.) Ferris. Sagebrush Strangler. Open flats, up to 9200'.

Orobanche fasciculata Nutt. Clustered Broomrape. Whippoorwill Flat.

Papaveraceae, Poppy Family

Argemone munita Dur. & Hilg. Chicalote. Canyons on east side of range, Creosote Bush Scrub; Al Rose Canyon, 7050'; Mazourka Peak, 9350'.

Eschscholzia minutiflora Wats. Little Desert Poppy. East of Independence, 4200'; Creosote Bush Scrub; common in scrub communities, up to about 6000 ft.

Philadelphaceae, Mock Orange Family

Jamesia americana Torrey & Gray var. *rosea* Schneider. Rose Cliffbush. A bushy form in the Narrows, Marble Canyon, 7300'.

Philadelphus microphyllus Gray. Littleleaf Mock Orange. Near Cerro Gordo Mine.

Phrymaceae, Monkeyflower Family

Mimulus bigelovii (A. Gray) A. Gray var. *bigelovii*. Bigelow's Monkeyflower. Whippoorwill Flat.

Mimulus bigelovii (Gray) Gray var. *cuspidatus* Grant. Desert Monkeyflower. Common in washes and on sunny slopes, as high as 7800'.

Mimulus cardinalis Dougl. Ex Benth. Scarlet Monkeyflower. Skinner Canyon, 5000'; Willow Springs, 5450' (possibly destroyed); Barrel Springs, 6400'.

Mimulus guttatus Fisch ex DC. Common Yellow Monkeyflower. Common at springs and seepage places.

Mimulus nanus Hook. & Arn. var. *mephiticus* (Greene) D. M. Thomps. Skunky Monkeyflower. Occasional in Pinyon-Juniper Woodland, 2 mi north of Cerro Gordo Spring, 8500'; slope west of Badger Flat, 8500', Whippoorwill Flat..

Mimulus rubellus Gray & Torrey. Red-stemmed Monkeyflower. Slopes at NW corner of Saline Valley, 4700'; area of granite boulders SW of Santa Rita Flat, 6400'.

Mohavea breviflora Cov. Small Mohavea. Occasional on sunny slopes and in washes along base of range south of Mazourka Canyon, Creosote Bush Scrub. Common along east side of range.

Plantaginaceae, Plantain Family

Anthirrhunum kingii Wats. Least Snapdragon. Inconspicuous but fairly common especially in protected places, up as high as 7800'.

Collinsia torreyi Gray var. *wrightii* (Wats) Johnston. Wright's Blue Eyed Mary. Summit of Lead Canyon trail, under Bristlecone Pine, 10,120'.

Keckiella rothrockii (Gray) Straw. var. *rothrockii*. Buckskin Keckiella. Occasional in rocky places; Westgard Pass, 6850'; Whip-poor-will Canyon, about 6800'; branch of Mazourka Canyon, 8300'; Mazourka Peak, 9400'.

Penstemon floridus Bdg. ssp. *austinii* (Eastw.) Keck. Mary Austin's Penstemon. Westgard Pass, 6000-7000'; Mazourka Canyon, 6450'; up to nearly 8000' on road to Squaw Flat; east of Cerro Gordo, 7950'; West of Mt. Pleasant, 8000'; NE of Swansea, 6000-7000'; Al Rose Canyon, 8000'.

Penstemon fruticiformis Cov. var. *fruticiformis*. Desert Bush Penstemon. Mazourka Canyon about 1¼ mi north of Whiteside Mine, 4950'; Willow Springs, 5450', and southward in the range.

Penstemon monoensis Heller. Canyon below Santa Rosa Mine, 6000 ft; limestone outcrop in NW corner of Saline Valley, 4700'; Waucoba Rd, 4600-5300'.

Penstemon palmeri Gray var. *palmeri*. Palmer's Penstemon, Desert Snapdragon. Long John Canyon, about 5000'.

Penstemon patens (Jones) Holmgren. Owens Valley Penstemon. Pinyon-Juniper Woodland, up to about 9000'.

Penstemon rostriflorus Kellogg. Bridge's Penstemon. Occasional in canyons, Pinyon-Juniper Woodland.

Penstemon scapoides Keck. Pinyon Beardtongue. Pinyon-Juniper Woodland and Bristlecone Pine Forest, Seephole Trail northward.

Penstemon speciosus Dougl. ex Lindl. Showy Penstemon. Bristlecone Pine Forest, mostly along crest.

Plantago patagonica Jacq. Woolly plantain. Joshua Flats, 6200'.

Polemoniaceae, Phlox Family

Allophylllum giliodes (Benth) A. D. Grant & V. Grant ssp. *violaceum* (Heller) A. G. Day. Dense False Gilia. East slope of Mazourka Peak, 9000'.

Eriastrum eremicum (Jepson) Mason ssp. *eremicum*. Desert Wooly Bluestar. Mazourka Canyon area, 4600'; Creosote Bush Scrub.

Eriastrum sparsiflorum (Eastw.) Mason. Few-flowered Wooly Bluestar. Flat east of Waucoba Mt, 7200'.

Eriastrum wilcoxii (A. Nels) Mason. Wilcox's Wooly Bluestar. Joshua Flats, 6000'; up to 8700' east of Badger Flat; fairly common.

Gilia aliquanta A. & V. Grant ssp. *breviloba* A. & V. Grant. Puff Calyx Gilia. Flats and slopes, Pinyon-Juniper Woodland.

Gilia brecciarum Jones ssp. *neglecta* A. & V. Grant. Kern-Inyo Gilia. Scrub communities and open areas in Pinyon-Juniper Woodland, up to 8800'.

Gilia cana (Jones) Heller ssp. *cana*. Showy Pink Gilia. Low elevations along base of range.

Gilia cana (Jones) Heller ssp. *triceps* (Brand) A. & V. Grant. Showy Pink Gilia. Scrub communities, up to 6650' on Santa Rita Flat.

Gilia filiformis Rarry ex. Gray. Thread-stem Gilia. Among granite boulders, SW of Santa Rita Flat, up to about 5500'.

Gilia latifolia Wats. Broad-leaf Gilia. Scrub communities, up to about 5500'.

Gilia leptomeria Gray. Sand Gilia. Scrub communities and lower portion of Pinyon-Juniper Woodland.

Gilia malior Day & Grant. Scrub Gilia. Westgard Pass.

Gilia modocensis Eastw. Modoc Gilia. Mouth of canyon SW of Santa Rita Flat, 3900'.

Gilia ophthalmoides Brand. Pinyon Gilia. Occasional, Creosote Bush Scrub.

Gilia ripleyi Barneby. Ripley's Gilia. Limestone cliffs, up to 5000'.

Gilia scropulorum M. E. Jones. Rock Gilia. Canyon east of Mazourka, 5100'.

Gilia sinuata Dougl. ex. Benth. Notch-leaf Gilia. Up to 7000'. in scrub communities.

Gilia stellata Heller. Star Gilia. Washes and rocky places, up to 5000'.

Ipomopsis arizonica (Greene) Wherry. Arizona Sky Rocket. Mt. Keynot, 10,500'.

Ipomopsis congesta (Hook) V. Grant ssp. *montana* (Nels. & Kenn.) V. Grant. White Globe Gilia. Mostly Bristlecone Pine Forest, down as low as 7300', occasional in Pinyon-Juniper Woodland, limestone soils.

Ipomopsis polycladon (Torr) V. Grant. Spreading Gilia. Below Pinyon-Juniper Woodland, Santa Rita Flat and up to 7600' in Al Rose Canyon.

Langloisia setosissima (Torr. & Grant) Greene ssp. *punctata* (Cov.) Goodd. Bristly Langloisia. Occasional, often in colonies, up as high as 8400' on Waucoba Mt; open places.

Linanthus demissus (Gray) Greene. Desert Snow. Saline Valley Rd 1½ mi south of Wheeler canyon wash, 4700'; Santa Rosa Mine Rd, 6000', east side of range.

Linanthus floribundus (Gray) Milliken. ssp. *floribundus*. Many Flowered Linanthus. Bristlecone Pine Forest south of Side Hill Saddle.

Linanthus nuttallii (Gray) Greene ex. Mlkn. Bushy Linanthus. Marble Canyon Narrows, 7300'; near Burgess Mine, 9400'; Bristlecone Pine Forest along crest of range.

Linanthus pungens (Torr.) Rydb. Prickly Phlox. From 6000' to crest of range, but mostly in Pinyon-Juniper Woodland.

Loeseliastrum schottii (Torr.) S. Timbrook. Little Sunbonnets. Open places, up as high as 6650' on Santa Rita Flat.

Microsteris gracilis (Hook.) Greene. Desert Small Star. Whippoorwill Flat.

Phlox condensata (Gray) Nelson. Condensed Phlox. North of Papoose Flat, 8400' on limestone outcrop; Bristlecone Pine Forest up to 10,600'.

Phlox stansburyi (Torrey) Heller. Stansbury's Phlox. From 6000-9500'.

Polygonaceae, Buckwheat Family

Centrostephia thurberi Benth. Red Triangles. Occasional from Creosote Bush Scrub to Pinyon-Juniper Woodland.

Chorizanthe brevicornu Torr. var. *brevicornu*. Brittle Flower. Washes and slopes along base of range.

Chorizanthe brevicornu Torr. var. *spathulata* (Small) Munz. Mountain Brittle Flower. Common in open places, up to 8700', west of Badger Flat.

Chorizanthe rigida (Torr.) Torrey & Gray. Spine Plant. Common on the driest slopes at lower elevations in the range.

Chorizanthe watsonii Torrey & Gray. Watson's Brittle Flower. South end of Jackass Flats, 5600'; Santa Rita Flat 6650'; Westgard Pass, 7300'.

Eriogonum baileyi Wats. Bailey's Buckwheat. Occasional, up to 7100' on Whip-poor-will Flat.

Eriogonum brachypodium Torrey & Gray. Glandular Skeleton Buckwheat. Common, especially in disturbed places, up to about 7000'.

Eriogonum cernuum Nutt. var. *cernuum*. Nodding Buckwheat. Occasional colonies, 7000-9500'.

Eriogonum deflexum (Torr.) var. *baratum* (Elmer) Reveal. Tall Skeleton Buckwheat. Mostly between 5000-7000'.

Eriogonum deflexum (Torr.) var. *deflexum*. Skeleton Buckwheat. Westgard Pass, 6000'; SE of Barrel Springs, 7000'.

Eriogonum eremicola Howell & Reveal. Telescope Peak Buckwheat. Near Mexican Spring, 9000'; slope of New York Butte.

Eriogonum esmeraldense Wats. var. *esmeraldense*. Esmeralda Buckwheat. Mostly Bristlecone Pine Forest, often forming dense colonies under trees, 8500-10,400'.

Eriogonum fasciculatum Benth. var. *polifolium* (Benth) Torrey & Gray. California Buckwheat. Common, mostly between 4000-7000'.

Eriogonum heermannii Dur. & Hilg. var. *argense* (Jones) Munz. Limestone Heermann's Buckwheat. Skinner Canyon, 4900'; Marble Canyon Narrows, 7300'; badger Flat, 9000'.

Eriogonum heermannii Dur. & Hilg. var. *humilius* (S. Stokes) Reveal. Common Heermann's Buckwheat. The most common variety, 5000-8000'.

Eriogonum hookeri Wats. Hooker's Buckwheat. Saline Valley Rd, ½ mi south of Marble Canyon.

Eriogonum inflatum Torr. & Frem. var. *inflatum*. Desert Trumpet. Common up to 6000'.

Eriogonum latens Jepson. Inyo Wild Buckwheat. Whippoorwill Flat.

Eriogonum maculatum Heller. Spotted Buckwheat. Common in scrub communities, up to about 6000'.

Eriogonum mensicola Stokes. Crescent Buckwheat. East of crest from Cerro Gordo, 7000'; crest near Cerro Gordo Springs, 9200'; Mazourka Peak, with *E. panamentense*, 9400'.

Eriogonum microthecum Nutt. var. *lapidicola* Reveal. Inyo Mountains Buckwheat. Common in pockets of fine limestone soil between rocks, 8000-10,200'; Pinyon-Juniper Woodland and Bristlecone Pine Forest.

Eriogonum microthecum Nutt. var. *panamintense* S. Stokes. Panamint Mountains Buckwheat. Near Midway Spring on east side of range, 9000'.

Eriogonum nidularium Cov. Bird's Nest Buckwheat. Common on dry slopes and washes, up to 7500'.

Eriogonum nummularie M. E. Jones. Kearney Buckwheat. Whip-poor-will Flat, 7000-7200'.

Eriogonum ovalifolium Nutt. var. *nivale* (Canby) M. E. Jones. Cushion Buckwheat. Lime Hill, 5500'; Harkless Flat, 7200'; west of Badger Flat, 8800'.

Eriogonum ovalifolium Nutt. var. *ovalifolium*. Pom Pom Buckwheat. Cerro Gordo Rd east of crest, Pinyon-Juniper; Joshua Flat, 6100'; Westgard Pass, Pinyon-Juniper Woodland.

Eriogonum palmerianum Reveal. Palmer's Buckwheat. Below narrows on Westgard Pass Rd.

Eriogonum panamentense Norton. Panamint Buckwheat. Common in Pinyon-Juniper Woodland; below narrows on Westgard Pass Rd, 6700'; Harkless Flat, 7200'; Whip-poor-will Flat, 7000'; Mazourka Peak, 9400'.

Eriogonum pusillum Torrey & Gray. Yellow Turbans. Washes and slopes along the base of the range on west side; more common on the east side.

Eriogonum reniforme Torr. & Frem. Kidney-leaved Buckwheat. Common, especially in sandy washes, up to 6700' in Mazourka Canyon.

Eriogonum rixfordii S. Stokes. Pagoda Buckwheat. Common along base of range south from Mazourka Canyon; up to 5000' in Skinner Canyon; Creosote Bush Scrub.

Eriogonum rupinum Reveal. Wyman Creek Buckwheat. Whip-poor-will Flat, 7100 ft; east of Badger Flat, 9500-10,000'.

Eriogonum saxatile Wats. Rock Buckwheat. Seldom found in the Inyo Mts; east of crest from Cerro Gordo, 6500'.

Eriogonum shockleyi Wats. Shockley's Buckwheat. Between Lime Hill and Joshua Flats, 5700'.

Eriogonum umbellatum Torr. var. *chlorothamnus* Reveal. Green-stemmed Sulfur Buckwheat. Mazourka Peak, 9375', ridge SW of Badger Flat, 8500'.

Eriogonum umbellatum Torr. var. *dicrocephalum* Gand. Pale Sulfur Buckwheat. Near Mexican Spring, 9100', Whip-poor-will Flat.

Eriogonum umbellatum Torr. var. *nevadense* Gand. Nevada Sulfur Buckwheat. Common on open slopes, 7000-10,000' or higher.

Eriogonum umbellatum Torr. var. *versicolor* S. Stokes. Candy-striped Buckwheat. Near Mexican Spring, with var. *dicrocephalum* at 9100 ft; Bristlecone Pine Forest, 8600-10,400'.

Eriogonum wrightii Torr. ex Benth var. *subscaposum* Wats. Common Wright's Buckwheat. Common above 7000', mostly open places in Pinyon-Juniper Woodland.

Oxytheca dendroidea Nutt. ssp. *dendroidea*. Fine Saucer Plant. Flats and roadsides, 6900-9300', forming colonies in favored locations.

Oxytheca perfoliata Torrey & Gray. Saucer Plant. Hot, dry lower slopes and washes.

Rumex crispus L. Curly Dock. Below Barrel Springs, 5900'; Toll House Springs, 5971'.

Ranunculaceae, Buttercup Family

Aquilegia formosa Fischer. Western Columbine. Wet or moist places about springs; Skinner Canyon, 5000', to Seepole Springs, 9200'.

Clematis ligusticifolia Nutt. Virgin's Bower. Common at springs, up to about 7000'.

Delphinium parishii Gray. Desert Larkspur. Common in scrub communities, up to 7800' on Waucoba Mt.

Ranunculus andersonii Gray. Anderson's Buttercup. Pinyon-Juniper Woodland; east of crest from Cerro Gordo, 6600'; Jackass Flats, 7300'; NE of Whippoorwill Flat, 7500'.

Ranunculus cymbalaria Pursh. var. *saximontanus* Fern. Alkali Buttercup. Springs throughout the range, up to Side Hill Spring at 9400'.

Rosaceae, Rose Family

Cercocarpus ledifolius Nutt. var. *intermontanus* Holmgren. Intermountain Curl-leafed Mountain Mahogany. Pinyon-Juniper Woodland and lower borders of Bristlecone Pine Forest, occasionally higher, up to 10,200'. Intergrades with *C. ledifolius* var. *intricatus* on ridges where they come together.

Cercocarpus ledifolius Nutt. var. *intricatus* (S. Watson) M.E. Jones. Little-leafed Mountain Mahogany. Colonies on limestone formations such as Lime Hill, 5900'; head of Narrows, Marble canyon, 7300'; Cerro Gordo Peak 9100'; east above Badger Flat; Seep Hole Spring trail western edge of crest. Intergrades with *C. ledifolius* var. *intermontanus* on ridges where they come together.

Chamaebatiaria millefolium (Torr) Maxim. Fern Bush. Pinyon-Juniper Woodland and Bristlecone Pine Forest, up to 10,400'.

Coleogyne ramosissima Torrey. Blackbush. Common in granite area on and below Santa Rita Flat.

Holodiscus discolor (Pursh) Maxim var. *microphyllus* (Rydb.) Jeps. Small-leaf Creambush. Rocky places, mostly in Pinyon-Juniper Woodland, 7000-9500'.

Ivesia arizonica (Howell) Ertter var. *arizonica*. Arizona Mouse's Tail. Limestone rocks and crevices, up to 10,000'.

Petrophytum caespitosum (Nutt.) Rydb. ssp. *caespitosum*. Hairy Rock Spiraea. Limestone outcrops, mostly on peaks, from Cerro Gordo to the saddle north of Waucoba, 7300-9500'.

Prunus andersonii Gray. Desert Peach. Mostly between 6000-7000'.

Prunus fasciculata (Torr.) Gray. Desert Apricot. Limestone outcrops, usually in canyons; below Willow Springs (E of Independence), 5450'; a canyon east of Mazourka, 5100'; west of Lime Hill, 5700'.

Purshia mexicana (D. Don) Welsh var. *stansburyana* (Torrey) Welsh. Cliff Rose. Pinyon-Juniper Woodland down to scrub communities on the east side; Whip-poor-will Flats, 6700'; road to Squaw Flat, 7600-8000'; east of Cerro Gordo, 6500'; San Lucas Canyon.

Purshia tridentata (Pursh) DC var. *glandulosa* (Curran) Jones. Sticky Bitterbrush. As low as 5100' in Canyons east of Mazourka; up to 10,000' in the Bristlecone Pine Forest.

Purshia tridentata (Pursh) DC var. *tridentata*. Antelope Bitterbrush. A dwarf form occasional in high places, as on Mazourka Peak.

Rosa woodsii Lindl. var. *ultramontana* (Wats.) Jepson. Intermountain Rose. At springs throughout the range.

Rubiaceae, Bedstraw Family

Galium matthewsii Gray. Bushy Bedstraw. Cliffs and rocky places, up to 6000'.

Galium multiflorum Kell. Shining Bedstraw. Pinyon-Juniper Woodland.

Rutaceae, Rue Family

Thamnosia montana Torr. & Frem. Turpentine Broom. East of Cerro Gordo, 6000'.

Salicaceae, Willow Family

Populus angustifolia James. Narrow-leaf Cottonwood. Waucoba Canyon, just above 6000'.

Populus fremontii Wats. Fremont Cottonwood. A single tree in wash east of peak 4865' SW of Santa Rita Flat; Mazourka Canyon.

Salix exigua Nutt. Coyote Willow. Springs and seepage areas below 8000'.

Salix laevigata Bebb. Red Willow. Occasional at springs, below 7000'.

Salix lasiolepis Benth. Arroyo Willow. Occasional at springs, below 7000'.

Sapindaceae, Soapberry Family

Acer glabrum Torr. var. *diffusum* (Green) Smiley. Mountain Maple. Tamarack Canyon, 8500-9000', the Narrows, Marble Canyon, 7250'.

Sarcobataceae, Greasewood Family

Sarcobatus vermiculatus (Hook.) Torr. Greasewood. Alkaline places, seepage areas and borders of springs, up to 5800'.

Saxifragaceae, Saxifrage Family

Heuchra rubescens Torrey var. *alpicola* Jepson. Alum Root. Rocky peaks and cliffs of narrow canyons, 6850-8500', probably higher.

Scrophulariaceae, Figwort Family

Scrophularia desertorum (Munz) Shaw. Desert Figwort. Occasional in protected places, usually where there is some moisture, 4800-8200'.

Verbascum thapsus L. Woolly Mullen. A weed now established in Mazourka Canyon near Barrel Springs, 5900'.

Solanaceae, Nightshade Family

Datura wrightii Regel. Sacred Datura, Jimson Weed. Westgard Pass Rd, just above the narrows, at about 7200'.

Lycium andersonii Gray. Desert Tomato. Common in washes and on lower slopes, below 6000'.

Lycium cooperi Gray. Peach Thorn. Washes and flats, up to 6800' on Santa Rita Flat.

Nicotiana attenuata Torr. Coyote Tobacco. Roadsides and disturbed places, mostly below Pinyon-Juniper Woodland.

Nicotiana obtusifolia Martens & Galeotti. Desert Tobacco. Cliffs and rocky places, mostly below Pinyon-Juniper Woodland.

Physalis crassifolia Benth. Thick-leaf Ground Cherry. Base of cliffs, Mazourka Canyon about 4800'.

Solanum sarrachoides Hairy Nightshade. Sent. Ex Mart. Barrel Springs, 6340'.

Tamaricaceae, Tamarisk Family

Tamarix ramosissima Ledeb. Saltcedar. Invading springs and moist places up to about 5500'.

Viscaceae, Mistletoe Family

Arceuthobium divaricatum Engelm. Pinyon Dwarf Mistletoe. On *Pinus monophylla*, Harkless Flat, 7200'; 2½ mi south of Cedar Flat, 7700' (heavy infestation); Whip-poor-will Flat area, 6700-7500'.

Phoradendron densum Trel. Leafy Juniper Mistletoe. On *Juniperus osteosperma*; east of Cerro Gordo crest, 6500'; Whip-poor-will Canyon, down to 6500'.

Phoradendron juniperium Engelm. Juniper Mistletoe. On *Juniperus osteosperma*; Harkless Flat, 7600'; Whip-poor-will Flat, 6600-7500'; Whip-poor-will Canyon, down to about 6900'.

Phoradendron juniperinum x bolleanum var. *densum*. Hybrid Juniper x Dense Mistletoe. On *Juniperus osteosperma*; Whippoorwill Flat.

Vitaceae, Grape Family

Vitis girdiana Munson. Desert Grape. Spring area south of Hunter Canyon, east side of range.

Zygophyllaceae, Caltrop Family

Larrea tridentata Sesse & Mocino. Creosote Bush. South end of range, up to about 5400' in Mazourka Canyon.

Monocotyledoneae:

Agavaceae, Agave Family

Yucca brevifolia Engelm. ex Wats. Joshua Tree. Open canyons in southern part of range, below the Pinyon-Juniper Woodland and blending into the lower portion of that community; Joshua Flat, 6000-6500', on Loretta Mine Rd.

Alliaceae, Onion Family

Allium atrorubens Wats. var. *cristatum* (Wats.) McNeal. Nevada Onion. Common on flats, 5800-9000'.

Cyperaceae, Sedge Family

Carex douglasii Boott. Douglas's Sedge. Flats where meadow areas exist.

Carex nebrascensis Dewey. Nebraska Sedge. Occasional at springs.

Carex phaeocephala Piper. Brown Head Sedge. Springs and seepage places.

Juncaceae, Rush Family

Juncus balticus Willd. Baltic Rush. Common at springs.

Juncus oxymeres Engelm. Pointed Rush. Gruber Springs, 5500'.

Liliaceae, Lily Family

Calochortus bruneauis Nelson & J. F. Macbr. Sago Lily. Common on flats and slopes, 6000-10,300'.

Calochortus kennedyi Porter var. *kennedyi*. Desert Mariposa Lily. Joshua Flat, 6000-6200'; Loretta wash, below 5500'; Payson Canyon, about 5800', Whippoorwill Flat about 6800'.

Calochortus kennedyi Porter var. *munzii* Jepson. Munz's Mariposa Lily. Joshua Flat about 6000', Whippoorwill Flat about 6800'.

Calochortus panamintensis (Ownbey) Rev. Panamint Mariposa Lily. Trail up to Side Hill Spring from west up to 9800'.

Orchidaceae, Orchid Family

Epipactis gigantea Dougl. ex Hook. Stream Orchid. Skinner Canyon at falls, about 5000'; Barrel Springs, 6400'.

Poaceae, Grass Family

Bromus madritensis L. ssp. *rubens* (L.) Husnot. Red Brome. Common weed at low elevations.

Bromus tectorum L. Cheatgrass. Whippoorwill Flat and other places especially along roads over 4000'.

Distichlis spicata (L.) Greene. Salt Grass. Alkaline seeps and borders of springs at low elevations.

Elymus cineris Scribner & Merr. Great Basin Wild Rye. An indication of moisture, throughout the range.

Elymus elymoides (Raf) Swezey ssp. *elymoides*. Squirrel-tail Grass. Throughout the range.

Elymus multisetus (J. G. Smith) Burt Davy. Big Squirrel-tail Grass. Bristlecone Pine Forest, up to 10,000'.

Festuca kingii (Wats.) Cassidy. Spike Fescue. Bristlecone Pine Forest, Whippoorwill Flat.

Festuca octoflora Walter. var. *hirtella* Piper. Six-weeks Fescue. Common in open places, below 6000'.

Koeleria macrantha (Ledeb.) Spreng. Junegrass. Common above 9000'.

Melica stricta Bolander. Rock Melic. Mostly Pinyon-Juniper Woodland.

Muhlenbergia asperifolia (Nees & Mey.) Parodi. Alkali Muhly. Beveridge Canyon, east side, 2100'; Lone Willow Springs on Keynot trail, 7000'.

Muhlenbergia porteri Scribn. Bush Muhly. West of Loretta Mine 1 mi, 5200'.

Muhlenbergia richardsonis (Trin.) Rydb. Mat Muhly. Meadow at crest of Lead Canyon Trail, 10,100'.

Phragmites australis (Cav.) Steudel. Reed Grass. Common about springs and seepage places, below 5000'.

Pleuraphis jamesii Torrey. Galleta. Fairly common, 5500-7500'.

Poa secunda J. S. Presl. ssp. *juncifolia* (Scribner) R. Soreng. Alkali Bluegrass. Crest near Side Hill Springs, Whippoorwill Flat.

Poa secunda J. S. Presl. ssp. *secunda*. Desert Bluegrass. Pinyon-Juniper Woodland and Bristlecone Pine Forest.

Polypogon interruptus Kunth. Ditch Rabbit's Foot Grass. Annual from, Santa Rita Wash, 6400'.

Polypogon monspeliensis (L.) Desf. Rabbit's Foot Grass. Common about springs, low elevations.

Sporobolus airoides (Torr.) Torr. Alkali Dropseed. Moist places below 7000'.

Sporobolus contractus Hitchc. Spike Dropseed. Hunter canyon, east side, 2200'.

Sporobolus cryptandrus (Torr.) Sand Dropseed. Gray. Al Rose Canyon, 8200'.

Stipa commata Trin. & Rupr. Needle-and-thread Grass. Common between 7000-9500'.

Stipa hymenoides Roemer & Schultes. Indian Rice Grass. Common throughout the range.

Stipa parishii Vasey. Parish's Needle Grass. Mazourka Canyon area, Whippoorwill Flat. 5100-6500'.

Stipa occidentale Thurber ssp. *occidentale*. Western Needle Grass. Waucoba Mt., 11,000'.

Stipa speciosum Trin. & Rupr. Desert Needle Grass. Common up to 7000'.

Ruscaceae, Butcher's Broom Family

Maianthemum stellatum (L.) Link. False Solomon's Seal. Fairly common at springs.

Themidaceae, Cluster Lily Family

Dichelostemma capitatum Alph. Wood. Blue Dicks. Whippoorwill Flat.

Typhaceae, Cattail Family

Typha domingensis Pers. Southern Cattail. Occasional at springs and seepage places, below 5000'.

