

ALPINE FLORA -- SAN JUAN MOUNTAINS

Scientific nomenclature is primarily that of John Kartesz

APIACEAE -- Parsley Family

<i>Angelica grayi</i>	X	Gray's Angelica	yellowish; large skyrocket umbel; large for a tundra plant
<i>Heracleum maximum</i>		Cow Parsnip	white; huge lvs and umbels; huge plant
<i>Ligusticum porteri</i>	X	Porter's Wild Lovage, Osha	white; dissected lvs; tall plant
<i>Oreoxis alpinus</i>		Tundra Alpine-parsley	yllw; lvs appear pinnate w divided leaflets; involucl bracts narrow and entire
<i>Oreoxis bakeri</i>	X	Baker's Alpine-parsley	yllw; lvs appear pinnate w divided leaflets; involucl bracts wide and tri-parted
<i>Oxypolis fendleri</i>	X	Fendler's Cowbane	white; once-pinnate leaves; medium height; likes wet areas
<i>Podistera eastwoodiae</i>	X	Eastwood's Woodroot	yllw; lvs appear pinnate w fan-shaped leaflets; involucl bracts long and tri-parted
<i>Psuedocymopterus montanus</i>	X	Mountain Parsley	yllw; lvs bipinnate w ultimate divisions narrow; tall in forests but very low on tundra

ASTERACEAE -- Sunflower Family

<i>Achillea millefolium</i>	X	Common Yarrow, Milfoil	white; just a few rays & disks per flowerhead; finely dissected lvs; aromatic
<i>Agoseris aurantiaca</i>		Orange False-dandelion	orange; no disk flowers; milky sap; dandelion-like lvs all basal
<i>Agoseris glauca</i>	X	False-dandelion	yellow; no disk flowers; milky sap; dandelion-like lvs all basal
<i>Antennaria corymbosa</i>	X	Flat-top Pussytoes	white; rayless; very low mat; fuzzy white leaves; dark spot in center of phyllaries
<i>Arnica cordifolia</i>	X	Heart-leaf Arnica	yellow; ray flowers present; heart-shaped leaves
<i>Arnica mollis</i>	X	Cordilleran Leopardbane	yellow; ray flowers present; brown pappus; tall plant
<i>Arnica rydbergii</i>	X	Subalpine Leopardbane	yellow; ray flowers present; acuminate leaves
<i>Artemisia scopulorum</i>	X	Alpine Sagebrush	yellowish w black on phyllaries; inconspicuous flower heads; rayless; common
<i>Artemisia campestris</i>		Pacific Wormwood	larger plant than above
<i>Chaenactis douglasii var alpina</i>		Pincushion; dusty maiden	white; rayless; grayish hairy lvs largest near base
<i>Cirsium eatonii var hesperium</i>	X	Eaton's Thistle	purplish; rayless; bristly; flower heads sessile on elongate stalk
<i>Erigeron compositus</i>		Cut-leaf Fleabane	white; sometimes w yllw disks only; leaves repeatedly ternately divided
<i>Erigeron coulteri</i>	X	Large Mountain Fleabane	white; large wide rays; tall plant
<i>Erigeron elatior</i>	X	Tall Fleabane	Lavender; long-hairy, reflexed phyllaries; tall plant
<i>Erigeron grandiflorus</i>	X	Large-flower Fleabane	purplish; white hair on phyllaries; small plant
<i>Erigeron leiomerus</i>		Rockslide Fleabane	lavender; spatulate-oblongeolot leaves; grows on rocky sites; low plant
<i>Erigeron melanocephalus</i>	X	Black-head Fleabane	whitish; long purple hairs on phyllaries; small plant
<i>Erigeron peregrinus var peregrinus</i>		Subalpine Fleabane	lavendar; glandular hairy phyllaries; relatively wide rays; large plant
<i>Erigeron pinnatisectus</i>	X	Feather-leaf Fleabane	purplish; pinnatifid leaves; low plant
<i>Erigeron vagus</i>		Rambling Fleabane	white; leaves fan-shaped w/ 3 broad, round lobes; low plant
<i>Helianthella quinquenervis</i>		Nodding Dwarf Sunflower	yellow; rays & disks; tall sunflower-like plant; mostly subalpine

<i>Hymenoxys hoopesii</i>	<input checked="" type="checkbox"/>	Orange Sneezeweed	yellow; disks & long, skinny rays; almost succulent, glabrous lvs; tall plant
<i>Machaeranthera coloradoensis</i>	<input type="checkbox"/>	Colorado Tansy-aster	bright purple rays; coarsely toothed leaves; low plant; very showy; rare
<i>Oreochrysum parryi</i>	<input type="checkbox"/>	Parry's-goldenweed	yellow; disks & short rays; lvs entire; upper lvs crowded below head & phyllary-like
<i>Packera dimorphophylla</i>	<input checked="" type="checkbox"/>	Two-leaf Groundsel	yellow; disk & rays; stem lvs much more toothed than basal lvs; short plant
<i>Packera werniiifolia</i>	<input checked="" type="checkbox"/>	Alpine Groundsel	yellow; disks & rays; round-spatulate lvs; low, mat-like mounds
<i>Senecio amplexans var amplexans</i>	<input type="checkbox"/>	Daffodil Senecio	yellow; disks & long rays; nodding flower heads; tall plant
<i>Senecio amplexans var holmii</i>	<input checked="" type="checkbox"/>		like above, but shorter plant; more rounded & succulent leaves
<i>Senecio atratus</i>	<input checked="" type="checkbox"/>	Black-tip Ragwort	yellow; disks & rays; large plant; likes disturbed ground
<i>Senecio bigelovii</i>	<input checked="" type="checkbox"/>	Strap Flower, Nodding Ragwort	yellow; disks only; nodding flower head; tall plant
<i>Senecio crassulus</i>	<input checked="" type="checkbox"/>	Thick-leaf Ragwort	yellow; disks & rays; tall plant
<i>Senecio fremontii</i>	<input checked="" type="checkbox"/>	Dwarf Mountain Ragwort	yellow; disks & rays; thick, succulent, toothed leaves; low mounded plants
<i>Senecio serra</i>	<input type="checkbox"/>		yellow; disks & rays; finely serrate narrow leaves; tall plant
<i>Senecio soldanella</i>	<input checked="" type="checkbox"/>	Colorado Ragwort	yellow; disks & rays; purple foliage; low plant; alpine scree & bare dirt
<i>Senecio triangularis</i>	<input type="checkbox"/>	Arrow-leaf Ragwort	yellow; disks & rays; narrow triangle-shaped toothed leaves; tall plant
<i>Solidago sp</i>	<input type="checkbox"/>	Goldenrod	yellow; rays & disks; relatively few rays are short
<i>Taraxacum ceratophorum</i>	<input checked="" type="checkbox"/>	Horned Dandelion	yellow; a miniature dandelion
<i>Taraxacum officinale</i>	<input checked="" type="checkbox"/>	Common Dandelion	yellow; rays only; milky sap; low plant
<i>Tetraneuris grandiflora</i>	<input checked="" type="checkbox"/>	Old-man-in-the-mountain	yllw rays & disks; huge flwr heads face horizontal; dissected hairy lvs; medium plant
<i>Tonestus pygmaeus</i>	<input checked="" type="checkbox"/>	Serpentweed	yellow; rays & disks; broad leaf-like phyllaries; low plants

BORAGINACEAE -- Borage Family

<i>Mertensia ciliata</i>	<input checked="" type="checkbox"/>	Tall Finge Bluebells	blue to purple; glabrous bluish-green leaves; tall plant
<i>Mertensia franciscana</i>	<input checked="" type="checkbox"/>	Franciscan Bluebells	blue to purple; pustulant hairs on upper leaf surface; leaves dark green; tall plant
<i>Mertensia lanceolata</i>	<input checked="" type="checkbox"/>	Prairie Bluebells	blue to purple; pubescent leaves; short plant

BRASSICACEAE -- Mustard Family

<i>Boechera lemmonii</i>	<input type="checkbox"/>	Soldier Rockcress	purple; sprawling flowering stems; low plant
<i>Boechera stricta</i>	<input checked="" type="checkbox"/>	Canadian Rockcress	whitish; erect & appressed siliques & pedicels, medium plant
<i>Cardamine cordifolia</i>	<input checked="" type="checkbox"/>	Large Mountain Bittercress	white; thick stands along streams; tall plant
<i>Descurania incana</i>	<input checked="" type="checkbox"/>	Mountain Tansy-mustard	yellow; flowers inconspicuous; pedicels appressed against the rachis
<i>Draba aurea</i>	<input checked="" type="checkbox"/>	Golden Whitlow-grass	yellow; entire cauline lvs; low plant
<i>Draba breweri var cana</i>	<input checked="" type="checkbox"/>	Cushion Whitlow-grass	creamy white; low plant
<i>Draba crassa</i>	<input type="checkbox"/>	Thick-leaf Whitlow-grass	yellow; large entire, succulent, ciliate lvs; low plant
<i>Draba crassifolia</i>	<input checked="" type="checkbox"/>	Snowbed Whitlow-grass	yellow; tiny basal rosette & scape; tiny plant
<i>Draba fladnizensis var pattersonii</i>	<input type="checkbox"/>	Austrian Whitlow-grass	whitish; tiny basal rosette & scape; tiny plant
<i>Draba graminea</i>	<input checked="" type="checkbox"/>		yellow; entire, grass-like leaves; bracteate inflorescence; low plant
<i>Draba spectabilis</i>	<input checked="" type="checkbox"/>	Showy Whitlow-grass	yellow; toothed cauline lvs; low plant

Draba streptobrachia
Erysimum capitatum
Noccaea montana
Rorippa alpina
Smelowskia calycina var americana

<input checked="" type="checkbox"/>	Alpine-tundra Whitlow-grass
<input checked="" type="checkbox"/>	Wallflower
<input checked="" type="checkbox"/>	Wild Candytuft
<input checked="" type="checkbox"/>	Alpine Yellowcress
<input checked="" type="checkbox"/>	Fern-leaf False Candytuft

yellow; narrow, usually entire lvs; low plant
 yellow, purple, or white; showy
 white; clasping leaves; short plant
 yellow; sprawling; lowest leaves pinnatifid, upper leaves toothed or wavy margined
 white to pale purple; dissected leaves; short plants of ridges

CAMPANULACEAE -- Bellflower Family

Campanula rotundifolia

<input type="checkbox"/>	Harebell
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bluish purple; bell-shaped flowers; most lvs linear, but basal lvs round

CAROPHYLLACEAE -- Pink Family

Arenaria lanuginosa ssp saxosa
Cerastium arvense
Minuartia macrantha
Minuartia obtusiloba
Silene acaulis
Silene sp
Stellaria longipes
Stellaria umbellata
Unknown sp

<input type="checkbox"/>	Spreading Sandwort
<input checked="" type="checkbox"/>	Field Mouse-ear Chickweed
<input type="checkbox"/>	House Stitchwort
<input checked="" type="checkbox"/>	Alpine Stitchwort
<input checked="" type="checkbox"/>	Moss Campion; Cushion Pink
<input type="checkbox"/>	Flycatch
<input checked="" type="checkbox"/>	Long-stalk Starwort
<input checked="" type="checkbox"/>	Umbrella Starwort
<input checked="" type="checkbox"/>	

white; five entire petals; small, low plant
 white; five notched petals; small to medium plant
 white; acute sepals; tiny lvs; caespitose
 white; blunt-tipped sepals; tiny lvs; caespitose
 pink; caespitose mounds
 whitish; opposite lvs; sticky internodes; small erect plant
 white; petals so deeply notched they almost look like ten petals; short upright stems
 green; tiny flowers with no petals; diffuse inflorescence
 white; tiny petals split to the base, much smaller than sepals; delicate

CRASSULACEAE -- Stonecrop Family

Rhodiola integrifolia
Rhodiola rhodantha
Sedum lanceolatum

<input checked="" type="checkbox"/>	King's Crown
<input checked="" type="checkbox"/>	Queen's Crown; Rose Crown
<input checked="" type="checkbox"/>	Lance-leaf Stonecrop

dark reddish; broad succulent lvs; tall plant
 pink; broad succulent lvs; tall plant
 yellow; round succulent lvs; short plant

DRYOPTERIDACEAE -- Wood Fern Family

Cystopteris fragilis

<input checked="" type="checkbox"/>	Brittle Bladder Fern
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delicate feathery fronds hiding next to rocks and cliffs

ERICACEAE -- Heath Family

Vaccinium myrtillus

<input type="checkbox"/>	Low Bilberry
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pinkish white; angled green stems; a tiny shrub

FABACEAE -- Pea Family

Astragalus alpinus
Oxytropis podocarpa
Trifolium attenuatum
Trifolium brandegeei

<input type="checkbox"/>	Alpine Milk-vetch
<input type="checkbox"/>	Stalked-pod Locoweed
<input checked="" type="checkbox"/>	Rocky Mountain Clover
<input type="checkbox"/>	Brandegee's Clover

white & purple; small flowers; forms patches
 purple; keel with constricted tip; inflated pods; low plant
 purplish; long, narrow leaflets
 bright purple; showy satiny petals

Trifolium nanum
Trifolium parryi

Alpine Clover
 Parry's Clover

pinkish white; flowers do not surpass leaves; low mat plant
purple; showy flower head on tall scape

GENTIANACEAE -- Gentian Family

Frasera speciosa
Gentiana algida
Gentiana fremontii
Gentiana parryi
Gentiana prostrata
Gentianella amarella
Gentianopsis thermalis
Swertia perennis

Green Gentian, Monument Plant
 Arctic Gentian
 Moss (Siberian) Gentian
 Parry's (Bottle) Gentian
 Pygmy (Moss) Gentian
 Autumn Dwarf-gentian
 Fringed Gentian
 Star Gentian

greenish white; large lvs in basal rosette; very tall plant when blooming
white with purple spots; long, narrow, entire lvs; low plant
bluish; 4 petals; fringe in throat; tiny plant
bright blue; five corolla lobes; erect stems; showy
blue; 8 corolla lobes - 4 short, toothed alternate w/ 4 large, entire lobes; tiny plant
lavender; small flowers; erect fringe in throat; erect plant
blue; petals fringed; erect plant; showy
dark purple-blue; 4 to 5 petals; erect plant of wet areas

GERANIACEAE -- Geranium Family

Geranium richardsonii

Richardson's Geranium

white; typical geranium lvs

HYDROPHYLLACEAE -- Waterleaf Family

Phacelia sericia

Purple Fringe

purple; prominent exserted styles & anthers; spikelike inflorescence

LILIACEAE -- Lily Family

Allium geyeri
Anticlea elegans
Llyodia serotina
Veratrum viride

Geyer's Onion
 Mountain False Deathcamas
 Alp Lily
 Cornhusk Lily; False Heliobore

pinkish; onion smell
greenish white; showy raceme above basal grass-like leaves
white; small plant in alpine turf
greenish; huge lvs; huge plant; mostly subalpine

ONAGRACEAE -- Evening Primrose Family

Epilobium sp
Chamerion angustifolium ssp circumvagum

Willowherb
 Narrow-leaf Fireweed

pinkish to whitish; 4 petals; small, dainty, erect plant
bright pink; 4 petals; tall plant

POACEAE -- Grass Family

Deschampsia caespitosa
Festuca brachyphylla ssp coloradoensis
Phleum alpinum
Poa alpina
Poa arcticus
Trisetum spicatum

Tufted Hair Grass
 Short-stem Fescue
 Mountain Timothy
 Alpine Blue Grass
 Arctic Blue Grass
 Narrow False Oat

dark; open inflorescence; thin, wiry leaves
dark; narrow inflorescence; thin, wiry leaves
dark; fuzzy, dense, cylindrical inflorescence
wide, compact inflorescence; wide leaves; short plant
dark; open inflorescence; thin, wiry leaves
dark; long, narrow, inflorescence

POLEMONIACEAE -- Phlox Family

Phlox condensata

Polemonium pulcherrimum

Polemonium viscosum

<input type="checkbox"/>	Dwarf Phlox
<input type="checkbox"/>	Jacob's Ladder
<input checked="" type="checkbox"/>	Sky Pilot

white to light lavender; caespitose plants

blue; pinnate lvs; mostly subalpine

dark blue; sticky whorled leaflets; strong odor; erect plant

POLYGONACEAE -- Buckwheat Family

Bistorta vivipara

Oxyria digyna

Polygonum bistortoides

<input checked="" type="checkbox"/>	Serpent Grass
<input checked="" type="checkbox"/>	Mountain Sorrel
<input checked="" type="checkbox"/>	American Bistort

white; inflorescence a spike with flowers above & bulblets below; small erect plant

reddish green; shiny, orbicular lvs; low plant usually among rocks

white; inflorescence a cylindrical spike; medium height plant

PORTULACACEAE -- Purslane Family

Lewisia pygmaea

Claytonia megarhiza

<input checked="" type="checkbox"/>	Alpine (Pygmy) Bitterroot
<input checked="" type="checkbox"/>	Alpine Spring Beauty

pink; succulent lvs; tiny plant

pinkish white; rosette of succulent; spatulate, basal lvs; can form showy mounds

PRIMULACEAE -- Primrose Family

Androsace septentrionalis

Primula parryi

<input checked="" type="checkbox"/>	Fairy Candelabra; Rock Primrose
<input checked="" type="checkbox"/>	Parry's Primrose

white; scapose stems from basal rosette; tiny, dainty plants

purple; wet areas; medium height; showy

RANUNCULACEAE -- Buttercup Family

Aconitum columbianum

Anemone multifida

Aquilegia coerulea

Caltha leptosepala

Delphinium barbeyi

Ranunculus alismifolius

Ranunculus eschscholtzii

Ranunculus inamoensis

Ranunculus macauleyi

Thalictrum alpinum

Trollius laxus ssp albiflorus

<input type="checkbox"/>	Columbian Monkshood
<input type="checkbox"/>	Red Windflower
<input checked="" type="checkbox"/>	Blue Columbine
<input checked="" type="checkbox"/>	Marsh Marigold
<input checked="" type="checkbox"/>	Subalpine Larkspur
<input checked="" type="checkbox"/>	Water-plantain Buttercup
<input type="checkbox"/>	Spruce-fir Buttercup
<input checked="" type="checkbox"/>	Ugly Buttercup
<input checked="" type="checkbox"/>	Rocky Mountain Buttercup
<input type="checkbox"/>	Alpine Meadowrue
<input checked="" type="checkbox"/>	Globeflower

blue; hooded upper sepal; tall; mostly subalpine

white or reddish sepals; no petals; deeply divided lvs

blue & white; petals spurred

white; leaves entire; wet areas

blue; spurred upper sepal; tall; mostly subalpine

yellow; often with up to ten petals; leaves entire; erect plant

yellow; large flowers; lower leaves deeply lobed halfway or more; low plant

yellow; small flowers; lobed leaves; erect plant

yellow; black-hairy sepals; wet areas near snowbanks; low plant

greenish; dioecious; tiny flowers; columbine-like lvs

creamy white; leaves palmately divided

ROSACEAE -- Rose Family

Dasiphora fruticosa ssp floribunda

Fragaria virginiana

Geum rossii

<input type="checkbox"/>	Shrubby Cinquefoil
<input checked="" type="checkbox"/>	Wild Strawberry
<input checked="" type="checkbox"/>	Alpine Avens

yellow; shrub

white; grayish-green lvs; sprawling plant

yellow; abundant

Ivesia gordonii
Potentilla concinna
Potentilla diversifolia
Potentilla nivea
Potentilla subjuga
Sibbaldia procumbens

<input type="checkbox"/>	Alpine Mousetail
<input type="checkbox"/>	Red Cinquefoil
<input checked="" type="checkbox"/>	Mountain-meadow Cinquefoil
<input checked="" type="checkbox"/>	Snow Cinquefoil
<input type="checkbox"/>	Colorado Cinquefoil
<input checked="" type="checkbox"/>	Creeping Glow-wort

yellow; whorled leaflets
 yellow; lvs palmate; blooms before lvs mature; low almost-mat plant
 yellow; lvs palmate, not bicolored, toothed in upper half of leaflets only
 yellow; lvs trifoliolate, bicolored; low, matted plant
 yellow; lvs subpalmate; sometimes lvs bluish-green above
 yellow; tiny petals; trifoliolate lvs; leaflets toothed @ apex; abundant but inconspicuous

SALICACEAE -- Willow Family

Salix brachycarpa
Salix nivalis
Salix petrophila
Salix planifolia

<input checked="" type="checkbox"/>	Short-leaf Willow
<input checked="" type="checkbox"/>	Snow Willow
<input checked="" type="checkbox"/>	Alpine Willow
<input checked="" type="checkbox"/>	Tea-leaf Willow

coetaneous short catkins; pubescent capsules; grayish green leaves entire
 obtuse leaves w/ prominent veins; prostrate shrub of tundra
 acuminate leaves; prostrate shrub of tundra
 precocious catkins; pubescent capsules; purplish-brown twigs; shiny dark green lvs

SAXIFRAGACEAE -- Saxifrage Family

Huechera parvifolia
Saxifraga bronchialis
Saxifraga cernua
Saxifraga chrysantha
Saxifraga flagellaris
Saxifraga hyperborea
Saxifraga odontoloma
Saxifraga oregana
Saxifraga rhomboidea

<input checked="" type="checkbox"/>	Little-leaf Alumroot
<input type="checkbox"/>	Spotted Saxifrage
<input checked="" type="checkbox"/>	Nodding Saxifrage
<input checked="" type="checkbox"/>	Golden Saxifrage
<input checked="" type="checkbox"/>	Whiplash Saxifrage
<input checked="" type="checkbox"/>	Pygmy Saxifrage
<input type="checkbox"/>	Streambank Saxifrage
<input checked="" type="checkbox"/>	Bog Saxifrage
<input checked="" type="checkbox"/>	Snowball Saxifrage

greenish; tiny flowers on long scapes; lvs basal
 white; dots on petals; linear leaves; matted plant of rocky habitats
 white; bulblets below flowers; glandular pubescent; small plant
 yellow; no stolons; leaves not ciliate; small plant
 yellow; obvious stolons; ciliate leaves; small plant
 white; small and delicate; hiding in shady places in cliffs & boulders
 white; diffuse inflorescence
 white; similar to the next but with an interrupted inflorescence
 white; capitate inflorescence; scapose

SCROPHULARIACEAE -- Figwort Family

Besseyia alpina
Besseyia ritteriana
Castilleja haydenii
Castilleja miniata
Castilleja occidentalis
Castilleja rhexifolia
Chionophila jamesii
Mimulus guttatus
Pedicularis groenlandica
Pedicularis racemosa
Pedicularis sudetica ssp scopulorum
Penstemon hallii

<input type="checkbox"/>	Alpine Kittenails
<input type="checkbox"/>	Ritter's Kittenails
<input checked="" type="checkbox"/>	Hayden's Indian Paintbrush
<input checked="" type="checkbox"/>	Red Indian Paintbrush
<input checked="" type="checkbox"/>	Pale Yellow Indian Paintbrush
<input checked="" type="checkbox"/>	Rosy Indian Paintbrush
<input checked="" type="checkbox"/>	Snowlover
<input checked="" type="checkbox"/>	Monkey Flower
<input checked="" type="checkbox"/>	Elephant Head
<input type="checkbox"/>	Sickle-top Lousewort
<input checked="" type="checkbox"/>	Sudetic Lousewort
<input checked="" type="checkbox"/>	Hall's Beartongue

purple; short plant; ridges
 greenish creamy; erect
 pink-purple; bracts with some linear lobes; strictly alpine, often on ridges
 red to orange-red; bracts deeply cleft
 yellow
 rosy red; bracts entire or shallowly lobed
 pale cream; secund inflorescence; short plant
 yellow; opposite leaves; wet places
 pink; elephant-trunk shaped flowers; wet areas
 white; peculiar twisted beak; serrate lvs; mostly subalpine
 purple; fern-like lvs
 purplish pink; secund inflorescence

Penstemon harbourii
Penstemon whippleanus
Veronica serpyllifolia ssp humifusa
Veronica wormskjoldii var wormskjoldii

X	Harbour's Beardtongue
X	Dark Beardtongue
X	Thyme-leaf Speedwell
X	Alpine Speedwell

blue; sprawling plant of loose scree
very dark maroon
deep blue; irregular, but almost radially symmetrical; short plant
deep blue; irregular, but almost radially symmetrical; short erect plant

VALERIANACEAE -- Valerian Family

Valeriana edulis
Valeriana acutiloba var acutiloba

X	Tobacco Root
	Cordilleran Valerian

white; tiny flowers; tall inflorescence; long leaflets
white; capitate inflorescence; opposite compound lvs

VIOLACEAE -- Violet Family

Viola adunca

	Hook-spur Violet
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blue; obscurely caulescent

TOTAL SPECIES SEEN

 120