

Columbines School of Botanical Studies
Spring Apprenticeship Program
Trip #2 Liliaceae

April 20, 21, 2018

Low Elevation Riparian Zone and Coniferous Woods 2000'

Araceae

Lysichiton americanus (L. americanum) X

Liliaceae

Calochortus sp.

Clintonia uniflora

Erythronium grandiflorum

Erythronium oregonum

Lilium columbianum

Lilium washingtonianum

Prosartes hookeri (Disporum hookeri)

Streptopus amplexifolius

Asparagaceae (Liliaceae)

Dichelostemma congestum (Brodiaea congesta)

Maianthemum racemosum (Smilacina racemosa)

Maianthemum stellatum (Smilacina stellata)

Melanthiaceae (Liliaceae)

Anticlea occidentalis (Stenanthium occidentale)

Trillium ovatum X

Veratrum sp.

Xerophyllum tenax

Tofieldiaceae (Liliaceae)

Triantha occidentalis (Tofieldia glutinosa)

Iridaceae

Iris chrysophylla

Iris tenax

Sisyrinchium sp.

Orchidaceae

Calypso bulbosa X

Calypso bulbosa forma alba

Corallorhiza maculata

Corallorhiza mertensiana

Corallorhiza striata

Goodyera oblongifolia

Neottia banksiana (Listera caurina)

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Neottia cordata (Listera cordata)
Platanthera dilatata (Habenaria dilatata)
Platanthera sp.
Spiranthes romanzoffiana

Aristolochiaceae

Asarum caudatum X

Polygonaceae

Eriogonum sp.
Polygonum bistortoides

Portulacaceae

Claytonia lanceolata
Montia parvifolia
Montia perfoliata
Montia sibirica
Montia sp.

Caryophyllaceae

Arenaria sp.

Ranunculaceae

Aconitum columbianum
Actaea rubra
Anemone deltoidea
Anemone lyallii X
Aquilegia formosa
Caltha biflora
Delphinium sp.
Ranunculus sp.
Ranunculus uncinatus
Thalictrum sp.

Berberidaceae

Achlys triphylla
Berberis nervosa X
Vancouveria hexandra

Fumariaceae

Dicentra formosa X

Crassulaceae

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Sedum sp.

Saxifragaceae

Boykinia sp.

Heuchera sp.

Mitella caulescens

Mitella ovalis

Saxifraga mertensiana

Saxifraga sp.

Tellima grandiflora

Tiarella trifoliata ssp. unifoliata

Tolmiea menziesii

Grossulariaceae

Ribes lacustre

Ribes lobbii

Ribes sanguineum

Ribes sp.

Ribes viscosissimum

Rosaceae

Amelanchier alnifolia

Aruncus sylvester

Fragaria sp.

Geum macrophyllum

Oemleria cerasiformis X

Physocarpus capitatus

Potentilla sp.

Prunus sp.

Rosa sp.

Rubus parviflorus

Rubus sp.

Rubus spectabilis

Sorbus sitchensis

Spiraea sp.

Fabaceae (Leguminosae)

Cytisus monspessulanus

Cytisus scoparius

Lathyrus sp.

Lupinus sp.

Trifolium sp.

Vicia sp.

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Oxalidaceae

Oxalis oregana

Celastraceae

Pachystima myrsinites

Aceraceae

Acer circinatum

Acer macrophyllum

Rhamnaceae

Ceanothus integerrimus

Ceanothus sanguineus

Ceanothus velutinus

Hypericaceae

Hypericum formosum

Hypericum perforatum

Violaceae

Viola glabella

X

Viola sp.

Onagraceae

Circaea alpina

Epilobium angustifolium

Epilobium sp.

Araliaceae

Oplopanax horridum

Apiaceae (Umbelliferae)

Angelica sp.

Heracleum lanatum

Ligusticum grayi

Lomatium utriculatum

Osmorhiza chilensis

Unidentified white Umbelliferae

Cornaceae

Cornus canadensis

Cornus nuttallii

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Ericaceae

Allotropa virgata
Arbutus menziesii
Arctostaphylos columbiana
Arctostaphylos patula
Arctostaphylos uva-ursi X nevadensis
Chimaphila menziesii
Chimaphila umbellata
Gaultheria shallon
Hypopitys monotropa
Monotropa uniflora
Pterospora andromedea
Pyrola aphylla
Pyrola sp.
Rhododendron macrophyllum
Vaccinium parvifolium
Vaccinium sp. (2)

Primulaceae

Dodecatheon jeffreyi
Trientalis latifolia

Hydrophyllaceae

Hydrophyllum sp.
Nemophila parviflora
Phacelia sp.

Boraginaceae

Mertensia paniculata
unidentified forget me not like flower

Lamiaceae (Labiatae)

Prunella vulgaris
Satureja douglasii
Stachys sp.

Scrophulariaceae

Castilleja sp.
Collinsia grandiflora
Collinsia parviflora
Digitalis purpurea
Mimulus alsinoides

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Mimulus guttatus.
Orthocarpus sp.
Pedicularis groenlandica
Pedicularis racemosa
Pedicularis sp.
Penstemon sp.
Synthyris reniformis X
Verbascum thapsus
Veronica sp.

Caprifoliaceae

Linnaea borealis var. longifolia
Lonicera ciliosa
Sambucus racemosa
Symphoricarpus sp.

Valerianaceae

Plectritis congesta
Valeriana scouleri X
Valeriana sitchensis

Campanulaceae

Campanula sp.

Asteraceae (Compositae)

Achillea millefolium
Adenocaulon bicolor
Agoseris sp.
Anaphalis margaritacea
Arnica sp.
Aster alpigenus
Chrysanthemum leucanthemum
Crocidium multicaule
DYC
Hieracium albiflorum
Hypochaeris radicata
Petasites frigidus X
Senecio triangularis

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Low Elevation Coniferous Woods
Field Trip #2 Liliaceae

Botany

Inflorescences

Monocot Families - Liliaceae, Orchidaceae, Iridaceae, Araceae

Compound vs. simple leaves

Meaning of the word "generally"

Liliaceae family description

Trillium genus description

Keyed out: *Trillium ovatum*

Low Elevation Coniferous Woods

Trillium ovatum ecology

Locating *Berberis nervosa* by plant associations

Plant population monitoring: *Berberis nervosa*

Animal Interactions

Deer and or Elk Trail

Leftover Doug Fir cones from rodent meals

“The trilliums are rather easily grown, and *T. ovatum* in particular is an excellent addition to the native garden in the partial shade of such shrubs as rhododendrons, but it is a shame to dig them, especially since they grow readily from seeds. It has been said that the gathering of the flowering stem results in death of the plant, which is scarcely true, but it does rob the rhizome of stored food needed for the growth of the succeeding year’s flowering stem, often resulting in failure to flower. If the admonition was invented to discourage picking of the flowers, the statement should be that the picker, not the picked, will die, but justice rarely is so obvious.”

-C. Leo Hitchcock