

Columbines School of Botanical Studies
Spring Apprenticeship Program
Trip #3 Orchidaceae

April 22, 23, 26 2016

Low Elevation Riparian Zone and Coniferous Woods 1500', 2000', 2500'

Family	Genus	Name	Uses
Liliaceae	Prosartes hookeri (Disporum hookeri)	Fairy Bells	Edible, Cathartic
Melanthiaceae (Liliaceae)	Trillium ovatum	Birth Root	No Pick
Orchidaceae	Calypso bulbosa	Calypso Orchid	No Pick
	Neottia cordata (Listera cordata)	Twayblade	No Pick
Aristolochiaceae	Asarum caudatum	Wild Ginger	Edible, Medicinal, Spice
Portulacaceae	Montia perfoliata	Miner's Lettuce	Edible (choice)
	Montia sibirica	Candyflower	Edible (choice)
Ranunculaceae	Thalictrum sp.	Meadow-rue	Poisonous
Berberidaceae	Berberis nervosa	Mountain Oregon Grape	Edible, Medicinal
Fumariaceae	Dicentra formosa	Bleeding Hearts	Poisonous
Grossulariaceae	Ribes sanguineum	Red Flowering Currant	Edible
Rosaceae	Fragaria vesca	Wild Strawberry	Edible (choice)
	Oemleria cerasiformis	Osoberry	Edible
Oxalidaceae	Oxalis oregana	Oxalis	Edible (choice)
Aceraceae	Acer circinatum	Vine Maple	Edible
	Acer macrophyllum	Big leaf Maple	Edible (choice)
Violaceae	Viola glabella	Woods Violet	Edible (choice)
Cornaceae	Cornus nuttallii	Dogwood	Medicinal
Ericaceae	Vaccinium parvifolium	Red Huckleberry	Edible (Choice), Medicinal
Scrophulariaceae	Synthyris reniformis	Snow Queen	Edibility unknown

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Field Trip #3
Orchidaceae

Wildcrafting Principles (Tuesday)
Scanning techniques for plant locating (Calypso eyes)

Botany

Orchidaceae family description
Calypso genus description
Neottia (Listera) genus description
Keyed out: *Calypso bulbosa* and *Neottia cordata (Listera cordata)*
Cornaceae: Flowers in heads, a whorl of bracts that look like petals (petaloid)
Asteraceae: Flowers in heads, a whorl of bracts that look like sepals
Ranunculaceae: Many stamens, sepals look like petals (petaloid)
Ericaceae: urn-shaped flowers
Fumariaceae: two sets of three stamens
Violaceae: two petals on top, three petals on bottom; free or distinct; uniquely irregular
Scrophulariaceae: two lobes on top, three lobes on bottom; united, fused, or connate; uniquely irregular
Aceraceae: fruit is a double samara

Low Elevation Coniferous Woods

Changes from last week
Tasted *Acer macrophyllum* panicles
Tasted *Vaccinium parvifolium* flowers and leaves

“Our spp. (of orchids) should be left strictly alone in their native habitat in the hope that they will somehow be preserved for others to see and enjoy. They do not do well in cultivation, and will persist in the garden a few seasons at most.”

--C. Leo Hitchcock