

Columbines School of Botanical Studies
Graduate Program Further Botanical Studies
Trip #8-9 Alpine Zone

Date: August 1-2, 2026
Trip 9-10

Middle Elevation to Alpine Zone 6225' to 8002'
<http://www.botanicalstudies.net/botany/plantlists.php>

Family	Name	Ecosystem	Seen
Tofieldiaceae (Liliaceae)			
<i>Triantha occidentalis</i> (Tofieldia o.)	Tofieldia	H	X
Melanthiaceae (Liliaceae)			
<i>Trillium ovatum</i>	Trillium	Lower H, mostly C & T	
<i>Veratrum viride</i>	False Hellebore	H	X
Liliaceae			
<i>Clintonia uniflora</i>	Queen's Cup	Lower H to T	
<i>Erythronium grandiflorum</i>	Glacier Lily	H & C	
Orchidaceae			
<i>Platanthera dilatata</i> (<i>Habenaria dilatata</i> spp. leucostachys)	White Rein Orchid	H to T	X
<i>Platanthera stricta</i> (<i>Habenaria saccata</i>)	Green Rein Orchid	H to T	
<i>Spiranthes romanzoffiana</i>	Twisted Sister	H to T	X
Asparagaceae (Liliaceae)			
<i>Maianthemum stellatum</i> (<i>Smilacina stellata</i>)	Small False Solomon's Seal	Lower H to T	
Cyperaceae			
<i>Carex</i> spp.	Sedge		
Ophioglossaceae			
<i>Sceptridium multifidum</i> (<i>Botrychium silaifolium</i>)	Grape Fern	H	
Pinaceae			
<i>Pinus albicaulis</i>	Whitebark Pine	H	X
<i>Pinus contorta</i>	Lodgepole Pine	H	
<i>Tsuga mertensiana</i>	Mountain Hemlock	H	
Papaveraceae (Fumariaceae)			
<i>Dicentra formosa</i>	Bleeding Heart	H to HT	
Ranunculaceae			
<i>Aconitum columbianum</i>	Monkshood	A to AT	
<i>Anemone drummondii</i>	Drummond's Anemone	H to A	X
<i>Anemone lyallii</i>	Small Windflower	H to T	

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Family	Name	Ecosystem	Seen
Anemone occidentalis	Mountain Pasque Flower	H	
Aquilegia formosa	Columbine	H to T	
Caltha biflora	Marsh Marigold	H	X
Delphinium menziesii	Larkspur	H to T	X
Delphinium sp.	Larkspur		
Ranunculus alismaefolius	Marsh Buttercup	C to H	
Ranunculus sp.	Marsh Buttercup		
Saxifragaceae			
Micranthes oregana (Saxifraga o.)	Oregon Saxifrage	H to HT	
Micranthes tolmiei (Saxifraga t.)	Alpine Saxifrage	A and upper H	
Pectiantia breweri (Mitella b.)	Small Bishop's Cap	H & C	
Pectiantia pentandra (Mitella p.)	Five Point Mitrewort	H & C	
Crassulaceae			
Sedum sp.	Stonecrop		
Fabaceae (Leguminosae)			
Lupinus andersonii	Lupine	H to AT	X
Lupinus lepidus spp. lyallii	Lupine	H to A	X
Lupinus sp.	Lupine		
Trifolium longipes	Wild Clover	H to T	
Trifolium spp.	Clover		
Rosaceae			
cf. Potentilla sp.	Potentilla		
Comarum palustre (Potentilla p.)	Swamp Potentilla		
Fragaria spp.	Strawberry		
Leutkea pectinata	Partridge Foot	H to A	
Potentilla breweri	Cinquefoil	Lower H and C	
Potentilla flabellifolia	Cinquefoil	H	
Sibbaldia procumbens	Creeping Sibbaldia	A & H	
Sorbus sitchensis (S. occidentalis)	Mountain Ash	H	
Spirea douglassii	Spirea	H to T	X
Celastraceae (Saxifragaceae)			
Parnassia cirrata (P. intermedia)	Grass of Parnassus	H & C	X
Hypericaceae			
Hypericum anagalloides	Bog St. John's Wort	Lower H to HT	
Violaceae			
Viola sp.	Violet		

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Family	Name	Ecosystem	Seen
Salicaceae			
Salix spp.	Willow		
Onagraceae			
Boisduvalia sp. or Epilobium sp.	Willow Herb		X
	Fireweed	Lower H to T	X
Chamaenerion angustifolium (Epilobium a.)			
Brassicaceae (Cruciferae)			
Arabis sp.	Rock Cress		
Draba sp.	Draba		
Polygonaceae			
Aconogonon davisiae (Polygonum newberryi)	Newberry's Knotweed	A & H	X
Bistorta bistortoides (Polygonum b.)	Mountain Bistort	H & C	
Eriogonum pyrolifolium	Alpine Buckwheat	H to A	X
Eriogonum umbellatum	Sulfur Flower	H to T	X
Montiaceae (Portulacaceae)			
Calyptidium umbellatum (Spraguea u.)	Pussy Paws	A & H	X
Claytonia perfoliata (Montia p.)	Miner's Lettuce	Lower H to T	
Lewisia triphylla	Lewisia	H	
Cornaceae			
Cornus unalaschkensis (C. canadensis)	Bunch Berry	H to HT	
Polemoniaceae			
Polemonium spp.	Polemonium		
Primulaceae			
Primula jeffreyi (Dodecatheon j.)	Shooting Star	H	X
Ericaceae			
Arctostaphylos nevadensis	Kinnikinnik	H & C	
Cassiope mertensiana	Mountain Heather	A to Lower H	
Chimaphila umbellata	Pipsissewa	Lower H to T	X
Gaultheria humifusa	Alpine Gaultheria	H	X
Kalmia microphylla	Kalmia	H	X
Orthilia secunda (Pyrola s.)	One Sided Pyrola	H & C	
Orthilia secunda (Pyrola s.)	One Sided Pyrola	H & C	X
Phyllodoce empetrifomis	Pink Mountain Heather	A to H	X

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Family	Name	Ecosystem	Seen
Pleuricospora fimbriolata (Hypopitys fimbriata)	Fringed Pine Sap	H to T	
Pterospora andromedea	Pine Drops		
Vaccinium scoparium	Grouse Berry	H & C	X
Vaccinium spp.	Huckleberry		
Adoxaceae (Caprifoliaceae)			
Sambucus racemosa	Red Elderberry	H to HT	X
Hydrophyllaceae			
Phacelia sp.	Phacelia		
Plantaginaceae (Scrophulariaceae)			
Penstemon cardwellii	Penstemon	H to T	X
Penstemon cinicola	Penstemon	H to mostly AT	X
Penstemon davidsonii	Penstemon	A to H	
Penstemon sp.	Penstemon	A	X
Veronica sp.	Veronica, Speedwell		
Veronica worms kjoldii	Veronica, Speedwell	H	
Phrymaceae (Scrophulariaceae)			
Erythranthe guttata (Mimulus g.)	Monkeyflower	H to T	X
Erythranthe lewisii (Mimulus l.)	Great Purple Monkeyflower	H & C	X
Erythranthe moschata (Mimulus moschatus)	Musk Monkeyflower	Lower H to T	
Erythranthe primuloides (Mimulus p.)	Primrose Monkeyflower	H to T	X
Orobanchaceae (Scrophulariaceae)			
Castilleja arachnoidea	Paintbrush	H to A	X
Castilleja miniata	Paintbrush	H	X
Castilleja parviflora ssp. oreopola (C. o.)	Paintbrush	A & H	X
Castilleja suksdorfii	Paintbrush	H	X
Pedicularis attollens	Baby Elephant's Head	H & C	X
Pedicularis bracteosa	Cobra's Head	H & C	X
Pedicularis groenlandica	Elephant's Head	H & C	X
Asteraceae (Compositae)			
Achillea millefolium	Yarrow	A & H to T	X
Agoseris aurantiaca	Orange Mountain Dandelion	H	X
Anaphalis margaritacea	Pearly Everlasting	H to T	X
Antennaria sp.	Everlasting		X
Arnica mollis	Hairy Arnica	H to A	X
cf. Aster sp.	Aster		X
Dieteria canescens var. shastensis (Aster s.)	Shasta Aster	H	

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Family	Name	Ecosystem	Seen
DYC	Damn Yellow Compositae		
Erigeron peregrinus	Daisy	H	
Hieracium albiflorum	White Hawkweed	H to T	X
Hieracium gracile	Alpine Hawkweed	H	
Leucanthemum vulgare (Chrysanthemum l.)	Ox Eye Daisy		
Nothocalais alpestris (Microseris a.)	Alpine Dandelion	H	
Oreostemma alpigenum (Aster alpigenus)	Aster	A to H	
Raillardella scaposa	Raillardella	H to A	
Senecio sp.	Groundsel		
Senecio triangularis	Arrow Leaf Groundsel	Lower H & C	X
Linnaeaceae (Caprifoliaceae)			
Linnaea borealis	Twinflower	C	
Valerianaceae			
Valeriana sitchensis	Valerian	H	X
Apiaceae (Umbelliferae)			
Ligusticum grayi	Oshala	H & C	X
Lomatium martindalei	Biscuit Root	H to A	
Osmorhiza berteroi (O. chilensis)	Sweet Cicely	H to T	X
Unidentified white Umbelliferae			
Animal Interactions			
Dissosteira carolina	Carolina Grasshopper	clickity clickity	

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Trip # 8-9 Highlights

Arctic-Alpine Zone

August 1-2, 2026

L1 Ecoregion: Northwestern Forested Mountains

L2 Ecoregion: Western Cordillera

L3 Ecoregion: Cascades

L4 Ecoregion: Cascade Crest Montane Forest and Cascade Subalpine Alpine

Habitats:

Silver Fir-Mountain Hemlock medium to mature forests

Montane Wetlands

Subalpine Parklands

Alpine

Native Lands:

Molalla, Klamath, Cayuse, Umatilla, Walla Walla, Confederated Tribes of Warm Springs, Grand Rond, and Siletz

Ecology of the Subalpine and Arctic Alpine Zones

Pinus albicaulis: ecology and life history of this federally endangered species

Polygonaceae: Perianth often 3-merous, stems with sheathing stipules, or flowers in involucrate clusters of umbels, often a reddish color in leaves and stems.

Keyed out numerous plants in the *Flora of the Three Sisters Region*:

Spiranthes romanzoffiana, *Lupinus lepidus* ssp. *lyallii*, *Eriogonum pyrolifolium*, *Eriogonum umbellatum*, *Aconogonon davisiae*, *Castilleja arachnoidea*, *C. miniata*, *C. suksdorfii*, *C. parviflora* ssp. *oreopola*, *Pedicularis attolens*, *Platanthera dilatata*, *Erythranthe lewisii*, *Arnica mollis*, *Parnassia cirrata*