

Columbines School of Botanical Studies
 Summer Apprenticeship Program
 Trip #13 Economic Botanical Survey

July 21, 23, 2022

Middle Elevation Coniferous Woods and Riparian 3200'

<http://www.botanicalstudies.net/botany/plantlists.php>

Uses	Name	Notes	Seen
Food: Roots			
Calochortus tolmiei	Cat's Ears		
Calypso bulbosa	Calypso Orchid	No Pick	
Cirsium sp.	Thistle		
Eriogonum umbellatum	Wild Buckwheat		
Hypochaeris radicata	False dandelion		x
Lysimachia latifolia (Trientalis l.)	Starflower		
Osmorhiza berteroi (O. chilensis)	Sweet Cicely		x
Platanthera sp.	Rein Orchid	No Pick	
Taraxacum officinale	Dandelion		
Tragopogon pratensis	Oyster Plant		
Xerophyllum tenax	Beargrass		x
Food: Greens and Potherbs			
Acer circinatum	Vine Maple		
Acer macrophyllum	Big Leaf Maple		
Achlys triphylla	Vanilla Leaf		x
Calochortus tolmiei	Cat's Ears		
Castilleja sp.	Paintbrush		
Chamaenerion angustifolium (Epilobium a.)	Fireweed		
Cirsium sp.	Thistle		
Claytonia sibirica (Montia s.)	Candyflower		
Cornus unalaschkensis (C. canadensis)	Bunchberry		x
Eriogonum umbellatum	Wild Buckwheat		
Erythranthe guttata (Mimulus g.)	Yellow Monkeyflower		x
Erythranthe lewisii (Mimulus l.)	Purple Monkeyflower		x
Erythranthe moschata (Mimulus moschatus)	Musk Monkeyflower		
Gallium oreganum	Bedstraw, Cleavers		
Hydrophyllum tenuipes	Waterleaf		
Hypochaeris radicata	False dandelion		x
Leucanthemum vulgare (Chrysanthemum l.)	Ox Eye Daisy		x
Lysimachia latifolia (Trientalis l.)	Starflower		
Micranthes sp.	Saxifrage		
Montia parvifolia	Small Leaf Montia		
Orthocarpus sp.	Owl's Clover		
Osmorhiza berteroi (O. chilensis)	Sweet Cicely		x
Oxalis oregana	Oxalis		
Petasites frigidus	Western Coltsfoot	w/ caution (PA's)	
Phacelia sp.	Phacelia		

Columbines School of Botanical Studies
 Summer Apprenticeship Program
 Trip #13 Economic Botanical Survey

Uses	Name	Notes	Seen
Plantago sp. (2)	Plantain		
Platanthera sp.	Rein Orchid	No Pick	
Prunella vulgaris	Self Heal, Heal All		
Rosa gymnocarpa	Wild Rose		x
Rumex acetosella	Sheep Sorrel		
Saxifraga sp.	Saxifrage		
Sedum sp.	Stonecrop		
Stachys cooleyae	Hedge Nettle, Horse Mint		x
Taraxacum officinale	Dandelion		
Tragopogon pratensis	Oyster Plant		
Trifolium pratense	Red Clover		
Trifolium repens	White Clover		
Trillium ovatum	Trillium	No Pick	x
Veronica sp.	Veronica		
Viola glabella	Woods Violet		
Viola orbiculata	Dark Woods Violet		x
Viola sp.	Violet		
Xerophyllum tenax	Beargrass		x

Food: Fruits

Acer circinatum	Vine Maple		
Acer macrophyllum	Big Leaf Maple		
Calochortus tolmiei	Cat's Ears		
Chamaenerion angustifolium (Epilobium a.)	Fireweed		
Chimaphila menziesii	Baby Pipsisewa	Unripe	x
Chimaphila umbellata	Pipsisewa	Unripe	x
Cornus unalaschensis (C. canadensis)	Bunchberry		x
Eriogonum umbellatum	Wild Buckwheat		
Fragaria virginiana	Wild Strawberry		
Mahonia nervosa (Berberis n.)	Mountain Oregon Grape		x
Maianthemum racemosum (Smilacina racemosa)	Large False Solomon's Seal	Cathartic	
Maianthemum stellatum (Smilacina stellata)	Small False Solomon's Seal	Cathartic	
Orthilia secunda (Pyrola s.)	One-sided Pyrola		x
Prosartes hookeri (Disporum h.)	Fairy Bells		
Pyrola picta	White-veined Pyrola		
Ribes lacustre	Swamp Currant		x
Rosa gymnocarpa	Rosehips		x
Rubus nutkanus (R. parviflorus)	Thimbleberry		
Rubus sp.	Blackberry		x
Rubus spectabilis	Salmonberry		
Sorbus sitchensis	Mountain Ash		

Columbines School of Botanical Studies
 Summer Apprenticeship Program
 Trip #13 Economic Botanical Survey

Uses	Name	Notes	Seen
Streptopus lanceolatus (S. roseus)	Rosy Twisted Stalk		
Trillium ovatum	Trillium	No Pick	x
Vaccinium membranaceum	Huckleberry		x
Vaccinium ovalifolium	Huckleberry		x
Xerophyllum tenax	Beargrass		x

Food: Spices/Teas

Achlys triphylla	Vanilla Leaf		x
Angelica arguta	Angelica		
Angelica genuflexa	Angelica		
Asarum caudatum	Wild Ginger		
Clinopodium douglasii (Satureja d.)	Yerba Buena		
Fragaria virginiana	Wild Strawberry		
Heracleum maximum (H. lanatum)	Cow Parsnip	Strong	
Osmorhiza berteroi (O. chilensis)	Sweet Cicely		x
Petasites frigidus	Western Coltsfoot	w/ caution (PA's)	
Prunella vulgaris	Self Heal, Heal All	Simple	
Rosa gymnocarpa	Wild Rose		x
Rubus nutkanus (R. parviflorus)	Thimbleberry		
Rubus sp.	Blackberry		x
Rubus spectabilis	Salmonberry		
Trifolium pratense	Red Clover		
Trifolium repens	White Clover		

Alteratives incl. Diaphoretics and Diuretics

Achillea millefolium	Yarrow	Diaphoretic	
Angelica arguta	Angelica	Reproductive	
Angelica genuflexa	Angelica	Reproductive	
Artemisia douglasiana	Mugwort	Diaphoretic	x
Asarum caudatum	Wild Ginger	Diaphoretic/Anti-bacterial	
Chimaphila menziesii	Baby Pipsissewa	Diuretic	x
Chimaphila umbellata	Pipsissewa	Diuretic	x
Gallium oreganum	Bedstraw, Cleavers	Diuretic	
Hypochaeris radicata	False dandelion		x
Mahonia nervosa (Berberis n.)	Mountain Oregon Grape	Alterative	x
Oplopanax horridus (O. horridum)	Devil's Club	Alterative	
Orthilia secunda (Pyrola s.)	One-sided Pyrola	Diuretic	x
Pyrola picta	White-veined Pyrola	Diuretic	
Rudbeckia occidentalis	Coneflower	Diuretic	x
Sambucus racemosa	Red Elder	Diaphoretic	
Taraxacum officinale	Dandelion		
Trifolium pratense	Red Clover	Mild Liver, Simple	
Vaccinium membranaceum	Huckleberry	Diuretic	x

Columbines School of Botanical Studies
 Summer Apprenticeship Program
 Trip #13 Economic Botanical Survey

Uses	Name	Notes	Seen
Vaccinium ovalifolium	Huckleberry	Diuretic	x

Aromatic/Bitters

Achillea millefolium	Yarrow		
Angelica arguta	Angelica		
Angelica genuflexa	Angelica		
Artemisia douglasiana	Mugwort		x
Asarum caudatum	Wild Ginger		
Clinopodium douglasii (Satureja d.)	Yerba Buena		
Heracleum maximum (H. lanatum)	Cow Parsnip	Strong	
Mahonia nervosa (Berberis n.)	Mountain Oregon Grape	Bitter	x
Osmorhiza berteroi (O. chilensis)	Sweet Cicely		x
Pedicularis racemosa	Parrot's Beak	Bitter	x
Taraxacum officinale	Dandelion		

Astringents

Anaphalis margaritacea	Pearly Everlasting		
Artemisia douglasiana	Mugwort		x
Chamaenerion angustifolium (Epilobium a.)	Fireweed		
Chimaphila menziesii	Baby Pipsissewa		x
Chimaphila umbellata	Pipsissewa		x
Cornus stolonifera	Creek Dogwood		
Cornus unalaschkensis (C. canadensis)	Bunchberry		x
Eriogonum umbellatum	Wild Buckwheat		
Fragaria virginiana	Wild Strawberry		
Geum macrophyllum	Geum, Avens		
Orthilia secunda (Pyrola s.)	One-sided Pyrola		x
Potentilla sp.(2)	Potentilla		
Pyrola picta	White-veined Pyrola		
Ribes lacustre	Swamp Currant		x
Rosa gymnocarpa	Wild Rose		x
Rubus nutkanus (R. parviflorus)	Thimbleberry		
Rubus sp.	Blackberry		x
Rubus spectabilis	Salmonberry		
Salix sp.	Willow		
Sorbus sitchensis	Mountain Ash		
Stachys cooleyae	Hedge Nettle, Horse Mint		x
Vaccinium membranaceum	Huckleberry		x
Vaccinium ovalifolium	Huckleberry		x

Calming Herbs, Nervines

Corallorhiza maculata	Spotted Coral Root	No Pick	
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Columbines School of Botanical Studies
 Summer Apprenticeship Program
 Trip #13 Economic Botanical Survey

Uses	Name	Notes	Seen
Corallorhiza mertensiana	Western or Purple Coral Root	No Pick	x
Corallorhiza striata	Striped Coral Root	No Pick	
Hypericum perforatum	St. John's Wort		x
Hypericum scouleri (H. formosum)	St. John's Wort		
Pedicularis racemosa	Parrot's Beak		x
Stachys cooleyae	Hedge Nettle, Horse Mint		x
Valeriana scouleri	Valerian		
Valeriana sitchensis	Valerian		

Demulcents, Emollients

Goodyera oblongifolia	Rattlesnake Plantain	No Pick	x
Maianthemum racemosum (Smilacina racemosa)	Large False Solomon's Seal		x
Mertensia paniculata	Oregon Bluebells	External (PA's)	
Penstemon serrulatus	Penstemon	Emollient	
Penstemon sp.	Penstemon	Emollient	x
Viola glabella	Woods Violet		
Viola orbiculata	Dark Woods Violet		x
Viola sp.	Violet		

Analgesics, Anesthetics

Heracleum maximum (H. lanatum)	Cow Parsnip	Nerve Pain	
Salix sp.	Willow		

Misc.

Achillea millefolium	Yarrow	Hemostatic	
Anaphalis margaritacea	Pearly Everlasting	Pretty	
Artemisia douglasiana	Mugwort	Beer, Dreams, Smoke	x
Chimaphila menziesii	Baby Pipsisewa	Root Beer, Smoke	x
Chimaphila umbellata	Pipsisewa	Root Beer, Smoke	x
Delphinium sp.	Larkspur	Lice (with caution)	
Gallium oreganum	Bedstraw, Cleavers	Burns	
Leucanthemum vulgare (Chrysanthemum l.)	Ox Eye Daisy	Allergies	x
Oplopanax horridus (O. horridum)	Devil's Club		
Pedicularis racemosa	Parrot's Beak	Smoke	x
Petasites frigidus	Western Coltsfoot	Lungs, Smoke (PA's)	
Plantago sp. (2)	Plantain	Drawing Poultice, Burns	
Trillium ovatum	Trillium	No Pick, Uterine Astringent	x
Vaccinium membranaceum	Huckleberry	Blood sugar	x
Vaccinium ovalifolium	Huckleberry	Blood sugar	x
Xerophyllum tenax	Beargrass	Fiber	x

Columbines School of Botanical Studies
 Summer Apprenticeship Program
 Trip #13 Economic Botanical Survey

Uses	Name	Notes	Seen
Topics of Botanical Interest			
Aconitum columbianum	Monkshood	Very Poison	
Actaea rubra	Baneberry		
Allotropa virgata	Candy Stripe	Mycotrophic	
Boykinia major		Possible Valerian Indicator	
Linnaea borealis ssp. longiflora	Twinflower	Look alike	
Lysichiton americanus (L. americanum)	Skunk Cabbage	Very Big Leaves	x
Monotropa hypopitys	Pinesap		

Animal Interactions

- Bats
- Beaver Chew
- Beaver Dams
- Bees
- Bird Prints on rocks
- Butterfly
- Chipmunks
- Deer Beds
- Deer Scat
- Deer Skeleton
- Deer Trails
- Elk
- Elk ate Stachys
- Elk Print in mud
- Fish
- Frog
- Garter Snake
- Gray Jays
- Hummingbird
- Kingfisher
- Ladybug
- Minnows
- Mouse
- Oregon Junco
- Ouzel
- Red Winged Beetle
- Someone's been eating Skunk Cabbage
- Stellar Jay
- Water snake

Dipper

Columbines School of Botanical Studies
 Summer Apprenticeship Program
 Trip #14 Economic Botanical Survey

July 22, 24, 2022

Middle Elevation Coniferous Woods and Riparian 4500'

<http://www.botanicalstudies.net/botany/plantlists.php>

Uses	Name	Notes	Seen
Food: Roots			
Cirsium sp.	Thistle		x
Hypochaeris radicata	False dandelion		
Lilium washingtonianum	Cascade Lily	No Pick	x
Osmorhiza berteroi (O. chilensis)	Sweet Cicely		
Platanthera dilatata (Habenaria d.)	Rein Orchid	No Pick	x
Tragopogon pratensis	Oyster Plant		
Xerophyllum tenax	Beargrass		x
Food: Greens and Potherbs			
Castilleja miniata	Paintbrush	Concentrates Toxins	x
Chamaenerion angustifolium (Epilobium a.)	Fireweed		
Cirsium sp.	Thistle		x
Cornus unalaschkensis (C. canadensis)	Bunchberry		
Hypochaeris radicata	False dandelion		
Lilium washingtonianum	Cascade Lily	No Pick	x
Osmorhiza berteroi (O. chilensis)	Sweet Cicely		
Phacelia sp.	Phacelia		
Platanthera dilatata (Habenaria d.)	Rein Orchid	No Pick	x
Rosa sp.	Wild Rose		
Stachys sp.	Hedge Nettle, Horse Mint		
Tragopogon pratensis	Oyster Plant		
Trillium ovatum	Trillium	No Pick	
Veronica worms kjoldii	Veronica		
Viola adunca	Field Violet		
Viola orbiculata	Dark Woods Violet		
Viola sp.	Violet		
Xerophyllum tenax	Beargrass		x
Food: Fruits			
Amelanchier alnifolia	Serviceberry		x
Arctostaphylos nevadensis	Kinnikinnik		
Arctostaphylos patula	Manzanita		
Chamaenerion angustifolium (Epilobium a.)	Fireweed		
Chimaphila umbellata	Pipsissewa	Unripe	
Cornus unalaschkensis (C. canadensis)	Bunchberry		
Fragaria sp.	Wild Strawberry		

Columbines School of Botanical Studies
 Summer Apprenticeship Program
 Trip #14 Economic Botanical Survey

Uses	Name	Notes	Seen
Gaultheria ovatifolia	Baby Salal		
Lilium washingtonianum	Cascade Lily	No Pick	x
Lonicera involucrata	Twinberry	Edible	
Mahonia nervosa (Berberis n.)	Mountain Oregon Grape		
Maianthemum racemosum (Smilacina racemosa)	Large False Solomon's Seal	Cathartic	
Maianthemum stellatum (Smilacina stellata)	Small False Solomon's Seal	Cathartic	
Nuphar polysepala	Water lily		
Pyrola asarifolia	Pyrola		
Pyrola picta	White-Veined Pyrola		
Ribes cereum	Wax Currant		x
Ribes lacustre	Swamp Currant		
Ribes viscosissimum	Sticky Currant		
Rosa sp.	Rosehips		
Rubus nutkanus (R. parviflorus)	Thimbleberry		
Rubus sp.	Blackberry		
Streptopus lanceolatus (S. roseus)	Rosy Twisted Stalk		
Trillium ovatum	Trillium	No Pick	
Vaccinium scoparium	Grouseberry		
Vaccinium uliginosum	Bog Huckleberry		
Xerophyllum tenax	Beargrass		x

Food: Spices/Teas

Achillea millefolium	Yarrow		x
Fragaria sp.	Wild Strawberry		
Osmorhiza berteroi (O. chilensis)	Sweet Cicely		
Rosa sp.	Wild Rose		
Rubus nutkanus (R. parviflorus)	Thimbleberry		
Rubus sp.	Blackberry		

Alteratives incl. Diaphoretics and Diuretics

Achillea millefolium	Yarrow	Diaphoretic	x
Arctostaphylos nevadensis	Kinnikinnik	Diuretic	
Arctostaphylos patula	Manzanita	Diuretic	
Ceanothus velutinus	Red Root	Alterative	x
Chimaphila umbellata	Pipsissewa	Diuretic	
Hypochaeris radicata	False dandelion		
Mahonia nervosa (Berberis n.)	Mountain Oregon Grape	Alterative	
Sambucus racemosa	Red Elder	Diaphoretic	
Vaccinium scoparium	Grouseberry	Diuretic	
Vaccinium uliginosum	Bog Huckleberry	Diuretic	

Columbines School of Botanical Studies
 Summer Apprenticeship Program
 Trip #14 Economic Botanical Survey

Uses	Name	Notes	Seen
Aromatic/Bitters			
Achillea millefolium	Yarrow		x
Mahonia nervosa (Berberis n.)	Mountain Oregon Grape	Bitter	
Osmorhiza berteroi (O. chilensis)	Sweet Cicely		
Pedicularis racemosa	Parrot's Beak	Bitter	
Populus trichocarpa	Cottonwood Buds		x
Astringents			
Amelanchier alnifolia	Serviceberry		x
Anaphalis margaritacea	Pearly Everlasting		
Arctostaphylos nevadensis	Kinnikinnik		
Arctostaphylos patula	Manzanita		
Ceanothus velutinus	Red Root		x
cf. Potentilla sp.	Potentilla		x
Chamaenerion angustifolium (Epilobium a.)	Fireweed		
Chimaphila umbellata	Pipsissewa		
Cornus unalaschkensis (C. canadensis)	Bunchberry		
Fragaria sp.	Wild Strawberry		
Gaultheria ovatifolia	Baby Salal		
Populus trichocarpa	Cottonwood Buds		x
Pyrola asarifolia	Pyrola		
Pyrola picta	White-Veined Pyrola		
Ribes cereum	Wax Currant		x
Ribes lacustre	Swamp Currant		
Ribes viscosissimum	Sticky Currant		
Rosa sp.	Wild Rose		
Rubus nutkanus (R. parviflorus)	Thimbleberry		
Rubus sp.	Blackberry		
Salix sp.	Willow		x
Spirea douglasii	Spirea		x
Spirea sp.	Spirea		
Stachys sp.	Hedge Nettle, Horse Mint		
Vaccinium scoparium	Grouseberry		
Vaccinium uliginosum	Bog Huckleberry		
Calming Herbs, Nervines			
Pedicularis racemosa	Parrot's Beak		
Stachys sp.	Hedge Nettle, Horse Mint		
Valeriana sitchensis	Valerian		x

Columbines School of Botanical Studies
 Summer Apprenticeship Program
 Trip #14 Economic Botanical Survey

Uses	Name	Notes	Seen
Demulcents, Emollients			
Maianthemum racemosum (Smilacina racemosa)	Large False Solomon's Seal		
Maianthemum stellatum (Smilacina stellata)	Small False Solomon's Seal		
Penstemon sp. (2)	Penstemon	Emollient	
Viola adunca	Field Violet		
Viola orbiculata	Dark Woods Violet		
Viola sp.	Violet		
Analgesics, Anesthetics			
Populus trichocarpa	Cottonwood Buds		x
Salix sp.	Willow		x
Spirea douglasii	Spirea		x
Spirea sp.	Spirea		
Misc.			
Achillea millefolium	Yarrow	Hemostatic	x
Anaphalis margaritacea	Pearly Everlasting	Pretty	
Arctostaphylos nevadensis	Kinnikinnik	Smoke	
Arctostaphylos patula	Manzanita	Smoke	
Arnica cordifolia	Heart Leaf Arnica	Injury	x
Arnica mollis	Hairy Arnica	Injury	x
Arnica parryi	Nodding Arnica	Injury	x
Ceanothus velutinus	Red Root	Soap	x
Chimaphila umbellata	Pipsissewa	Root Beer, Smoke	
Pedicularis racemosa	Parrot's Beak	Smoke	
Solidago canadensis	Goldenrod	Allergies	x
Trillium ovatum	Trillium	No Pick, Uterine Astringent	
Vaccinium scoparium	Grouseberry	Blood sugar	
Vaccinium uliginosum	Bog Huckleberry	Blood sugar	
Xerophyllum tenax	Beargrass	Fiber	x
Topics of Botanical Interest			
Aconitum columbianum	Monkshood	Very Poison	
Boykinia major		Possible Valerian Indicator	x
Pterospora andromedea	Pinedrops	Mycotroph	
Senecio triangularis	Arrow Leaf Groundsel	PAs	x

Animal Interactions

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Summer Apprenticeship Program
Trip #14 Economic Botanical Survey

Uses	Name	Notes	Seen
Ants			
Bald eagle			
Bats			
Beaver Tracks			
Bird Prints on rocks			
Bird's Nest w/chicks			
Butterflies			
Canada Geese			
Chipmunks			
Deer			
Deer eating Stachys			
Deer Scat, trails			
Dragon Flies			
Elk Print in mud			
Elk Tracks			
Fish			
Frogs			
Hummingbird			
Kingfisher			
Minnnows			
Mosquitoes			
Mouse			
Northern Flicker			
Oregon Junco			
Ouzel			
Red Winged Beetle			
Snake			
Snake Tracks			
Someone's been eating Skunk Cabbage			
Startled Duck			
Stellar Jay			
Water snake			
Woodpecker			

Columbines School of Botanical Studies
Summer Apprenticeship
Class Highlights Trip #13-14

Places Visited:

Middle Elevation Coniferous Woods and Riparian Zone (East and West Sides of the Cascades)

Topics covered:

Economic Botanical Survey

Asteraceae (Compositae) Taxonomy

Located, harvested, processed *Artemisia douglasiana*: An excellent example of locating, using the information in a campground to find new isolated clean stands.

Located, harvested, and processed *Arnica mollis*.

Sometimes we can come across stands of plants that appear harvestable, but something on the wildcrafting checklist is wrong. It is perfectly acceptable to not gather plants. Gathering plants is easy; not gathering plants is hard.

Areas with water in spring may dry up in the summer. Use the plants as indicators of water.

Keyed out *Senecio triangularis*

Herbs Harvested:

Artemisia douglasiana above ground parts for bundles and vinegar

Arnica mollis above ground parts for oils

Tasted *Erythranthe lewisii* (*Mimulus l.*) petals and sepals