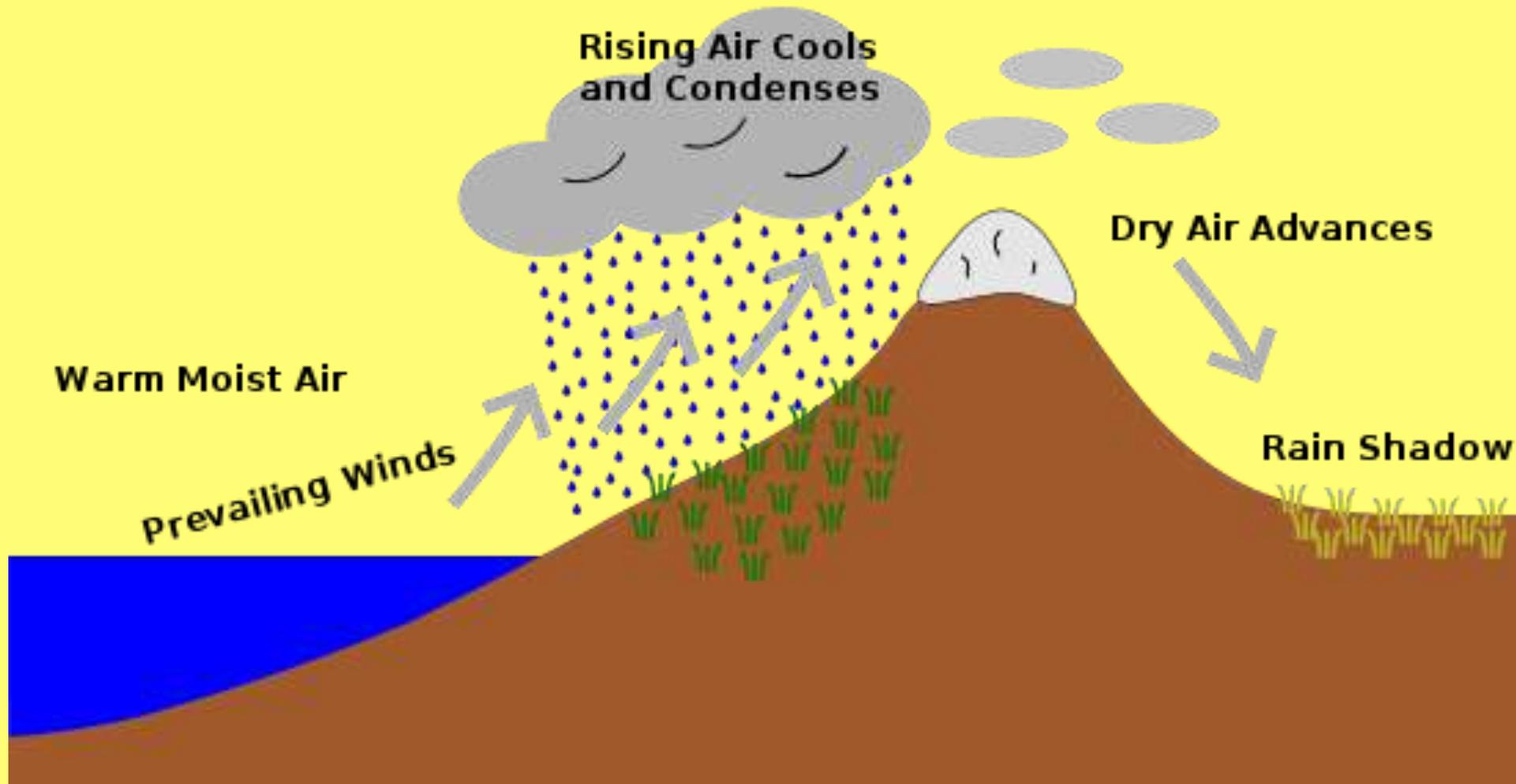




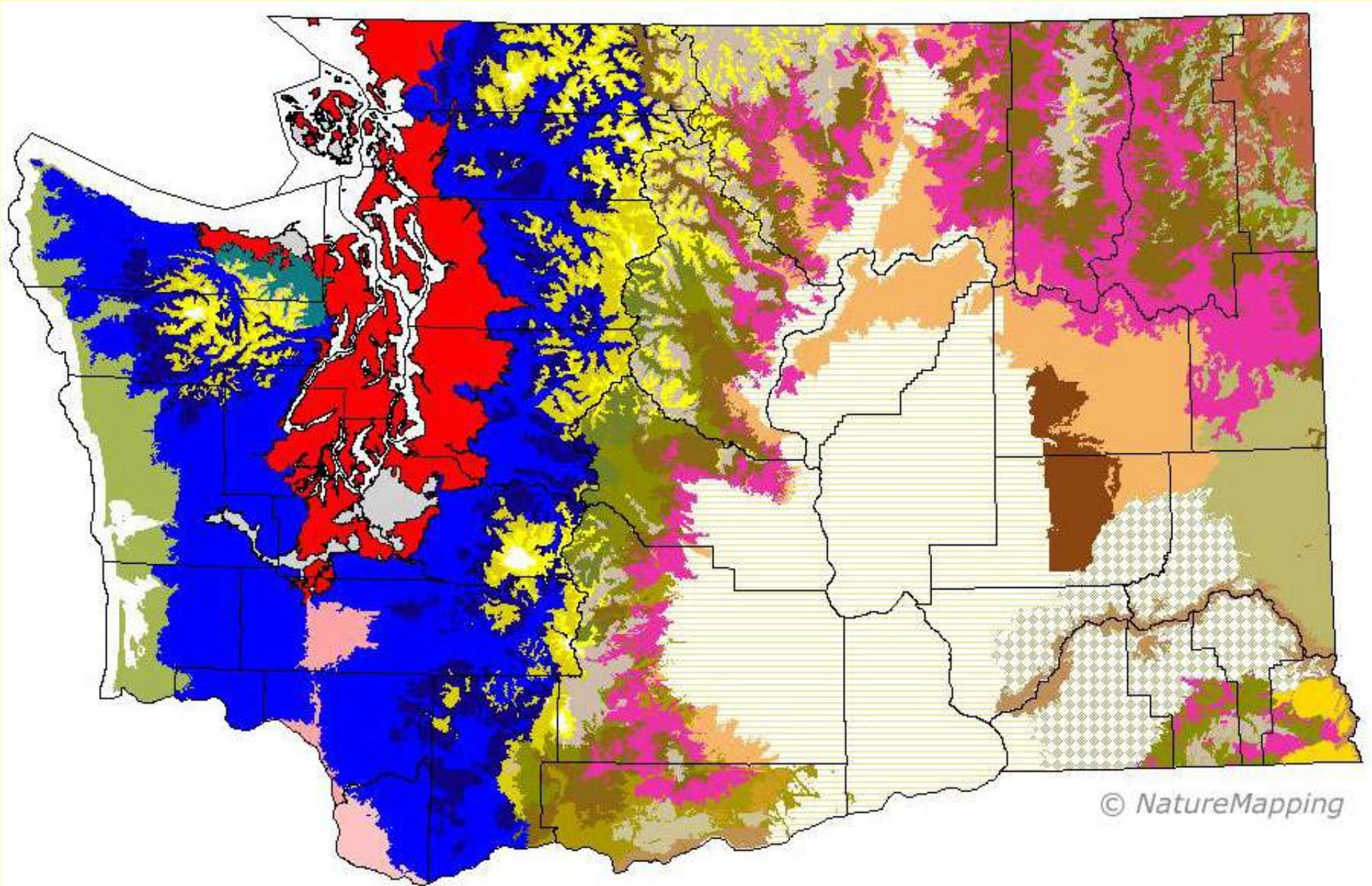
Western Washington Wildflowers

Fayla Schwartz
Washington Native Plant Society
May 2019

Pacific Coast Rain Shadow



Washington Vegetation Zones



North Cascades Vegetation Zones

West

Alpine Zone

East

Treeline or timberline 6500-7500'

Mountain Hemlock

Subalpine Larch

Subalpine Fir

Subalpine Zone

Whitebark Pine

Engelmann Spruce

Forest line 5500-6500'

Mountain Hemlock Zone

Subalpine Fir Zone

Upper Montane/Boreal Forest

Pacific Silver Fir Zone

2500-3500'

Western Hemlock Zone

Douglas Fir Zone

W. Red Cedar

Temperate Forest

Douglas Fir

Grand Fir

Shore Pine

Madrone

Ponderosa Pine Zone

Lower tree line

Sagebrush Steppe

Western Hemlock Zone: west side temperate forest



***OLD
GROWTH
(pre-
European
contact)***



Signs of prior
logging:
Nurse stumps





Western Hemlock
(*Tsuga heterophylla*)

Soft needles,
drooping leader



Western Red Cedar

(Thuja plicata)

Scale-like leaves, reddish bark



Douglas Fir

(*Pseudotsuga menziesii*)
3-pointed bracts on cones





Western White Pine

(Pinus monticola)

Photo © 2010 G.D.Carr

**5 needles in a bunch,
elongated cones**

Olympic Rain Forest:
Sitka Spruce (*Picea sitchensis*)
Sharp needles



3 Washington maples





Bigleaf Maple
(*Acer macrophyllum*)

Large trees,
sharply angled fruits







Vine Maple
(*Acer circinatum*)
Shrubs, fruits at
180° angle



Douglas Maple:
(Acer glabrum)
Shrubs of dry areas,
sharply angled fruits



Nootka and Baldhip Roses

(*Rosa nootkatensis*,
Rosa gymnocarpa)



Devil's Club
(*Oplopanax*
horridus)

Tall stems covered
in sharp spines





Red elderberry
(*Sambucus racemosa*)



Snowberry
(*Symphoricarpos albus*)



Oval-leaved
huckleberry
(Vaccinium ovalifolium)

Delicious fruits!

Salmonberry
(Rubus spectabilis)





Trillium

Trillium ovatum

Turns pink as the flower ages





False Lily of the Valley (*Maianthemum dilatatum*)

Can become weedy in your garden



False Solomon's Seal (*Maianthemum stellatum*)

©Ben Legler



Bunchberry (*Cornus unalaschensis*)
Yes, this is a dogwood!



Wild Ginger (*Asarum caudatum*)

Look for it under conifer trees





Vanilla Leaf
(Achlys triphylla)



Pyrola asarifolia
(Wintergreen)
A hemi-parasite



Rattlesnake Plantain
(*Goodyera oblongifolia*)

Saxifrages



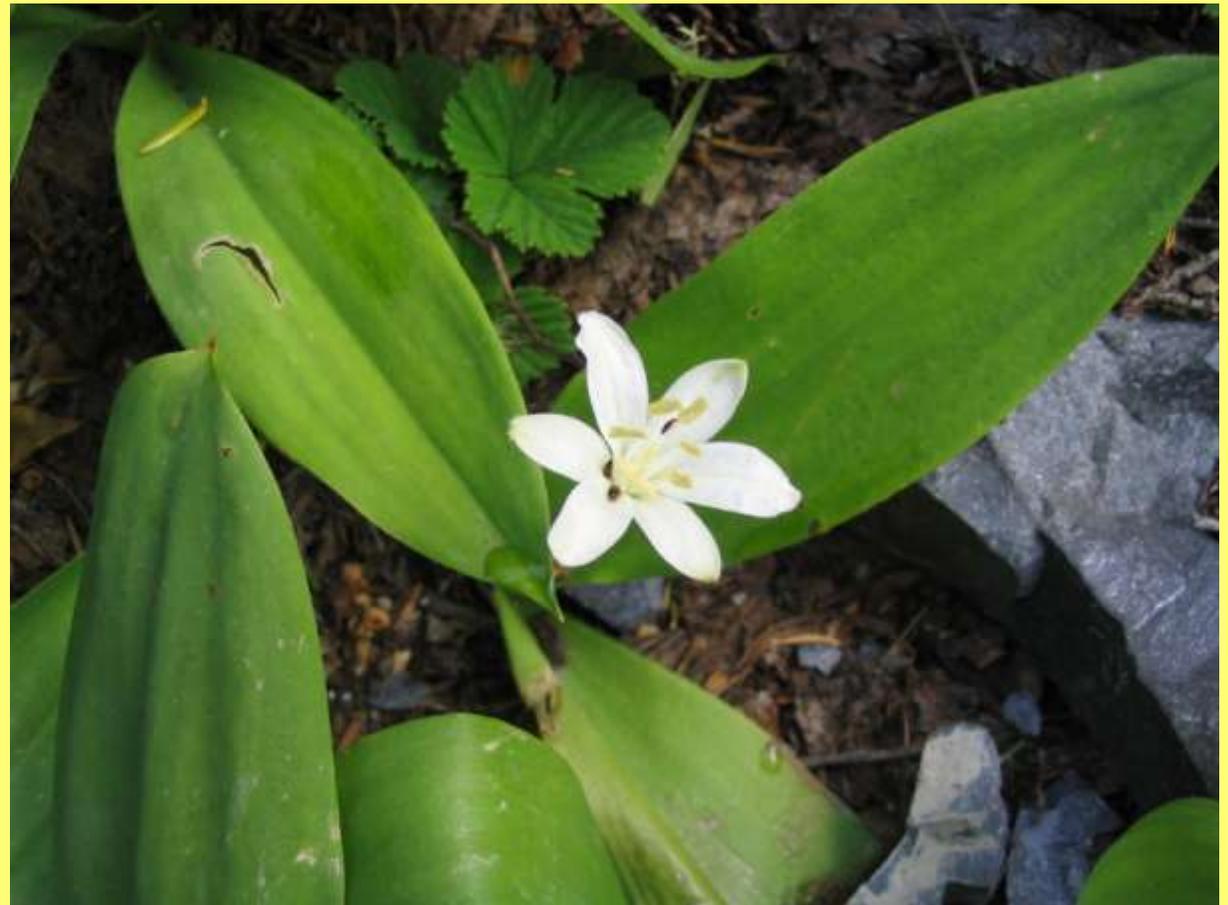
Fringecup
(*Tellima grandiflora*)



Mitrewort
(*Mitella* spp.)



Coltsfoot
(Petasites frigidus)



Queen's Cup
(Clintonia uniflora)

Native Oregon Grape
(Berberis aquifolium)

is not invasive Holly
(Ilex aquifolium)



Which one is the native?



Pacific bleeding heart
(Dicentra formosa)



Herb Robert
(Geranium robertianum)

Riparian Areas

Ecosystems influenced by rivers

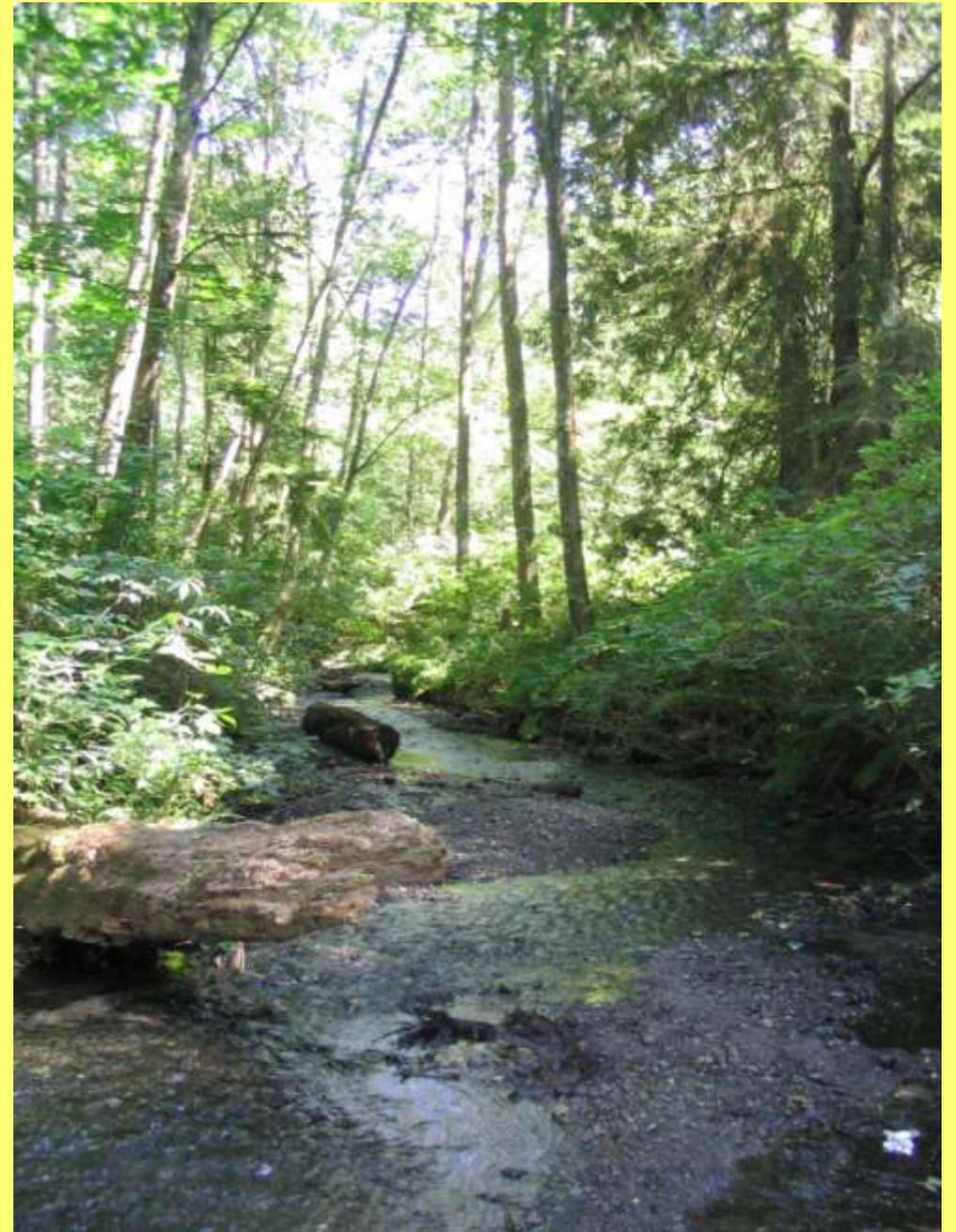


White River,
Mt Rainier



Duckabush River,
Olympic National Forest

Red Alder
(*Alnus rubra*)
Nitrogen fixing
monoecious
trees with catkins



Willows (*Salix* spp.) and Poplars (*Populus* spp.)
Dioecious shrubs and trees with
catkins and hairy seeds



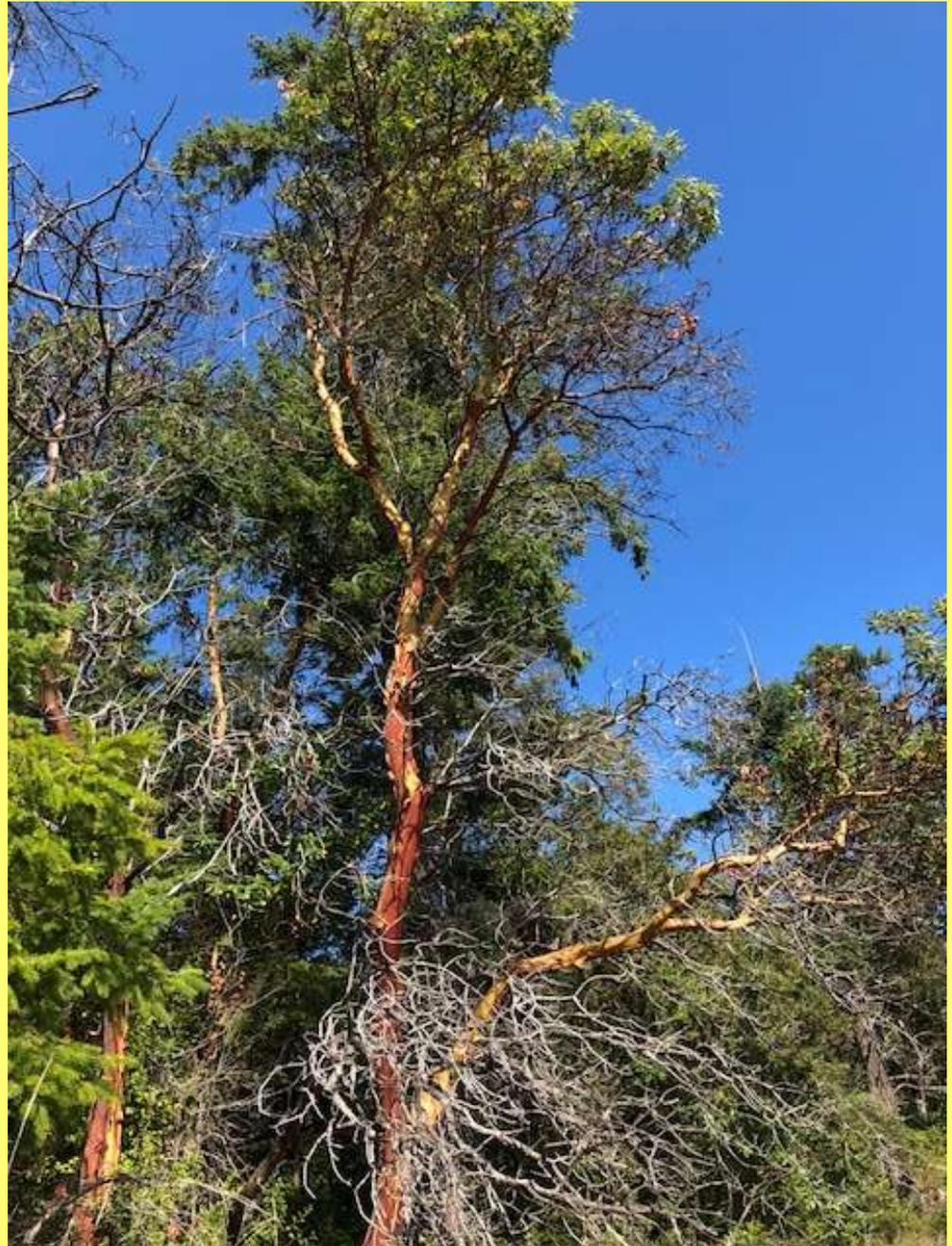
**Skunk
Cabbage**
*(Lysichiton
americanum)*
Its odor attracts
pollinating flies



**San Juan
Island/Olympic
Rain Shadow zone:
drier than other
Puget Sound regions**

**Pacific
madrone
(*Arbutus
menziesii*)**

Dry forest tree



Grand Fir (*Abies grandis*)
Dry forest tree

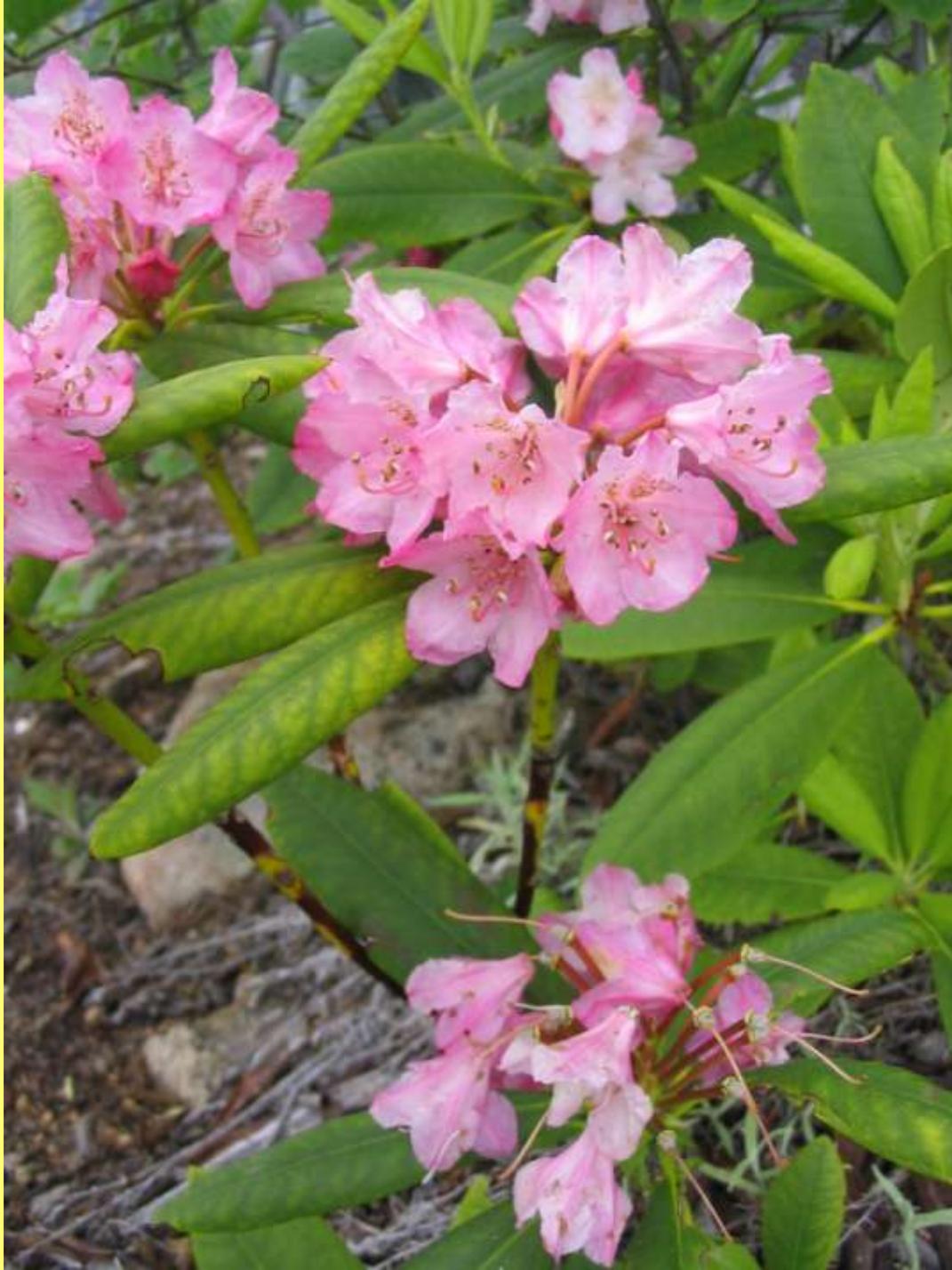


Garry Oak (*Quercus garryana*)
Monoecious tree; our only native oak



Salal (*Gaultheria shalon*)
Dry forest understory shrub





WA state flower

**Pacific
Rhododendron**
*(Rhododendron
macrophyllum)*

Parasites: no green leaves or stems



Candystick
(Allotropa virgata)



Ground Cone
(Kopsiopsis hookeri)

Indian pipe
(Monotropa uniflora)



Prairies of the San Juan/Olympic Rain Shadow



Death camas
(*Zigadenus venenosus*)
Meadow perennial

The first to bloom in the spring



Grass-Widow
(*Olysinium douglasii*)



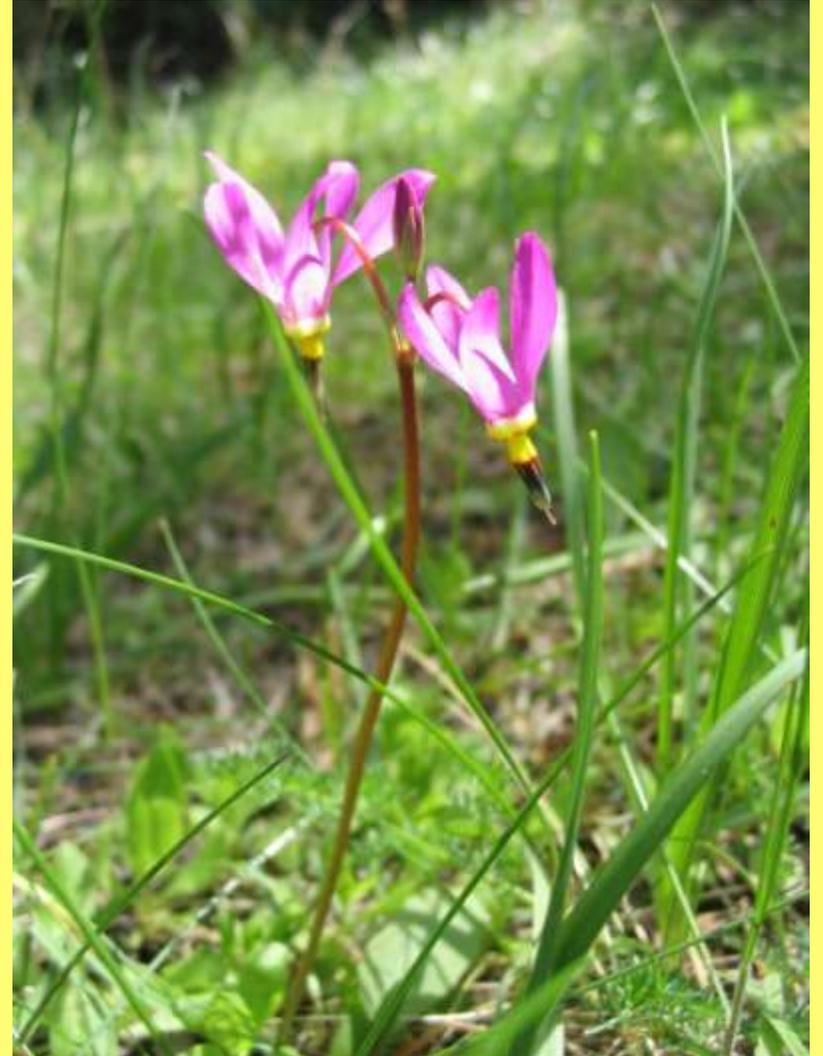
Trout Lily
(*Erythronium oregonum*)

**More meadow
perennials**



Common camas
(Camassia quamash)

Shooting Star
*(Dodecatheon
pulchellum)*





Harsh Paintbrush
(Castilleja hispida)

Desert Parsley or Pomo-Celery *(Lomatium utriculatum)*

© Ben Legler





Harvest Lily
(Brodiaea coronaria)



Calypso orchid
(Calypso bulbosa)

Parasites



Naked Broomrape
(*Aphyllon uniflorum*)



Spotted Coral-root
(*Corallorhiza maculata*)