



Workshop Outline

What is "Native"?

Microclimates

Native Plant Communities

Sample Planting Plans

Native Plant Slideshow

Planting for Success

Q & A

Evaluations

What does "Native" mean?

Plant species that were likely found historically in the Willamette Valley prior to European settlement.



What makes native plants different?

- Adapted to local soil conditions
 & weather patterns
- Resistant to local garden pests
- Wildlife recognize their flowering & fruiting cycles
- Drought tolerant, so they need less water once established



Benefits of Native Plants

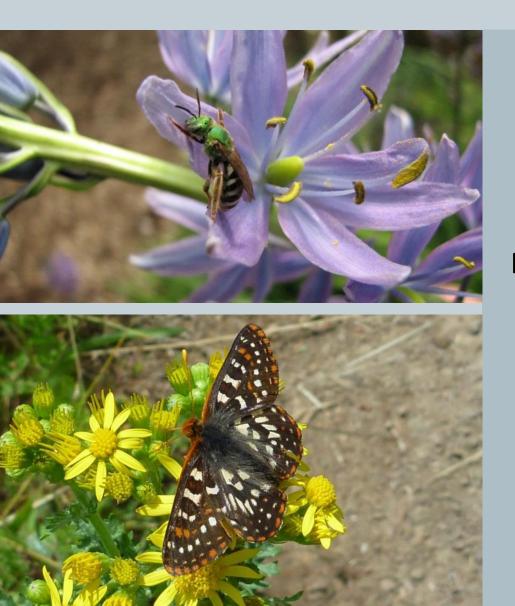


- Less maintenance
- Conserve water = lower water bills!
- Food and shelter for wildlife



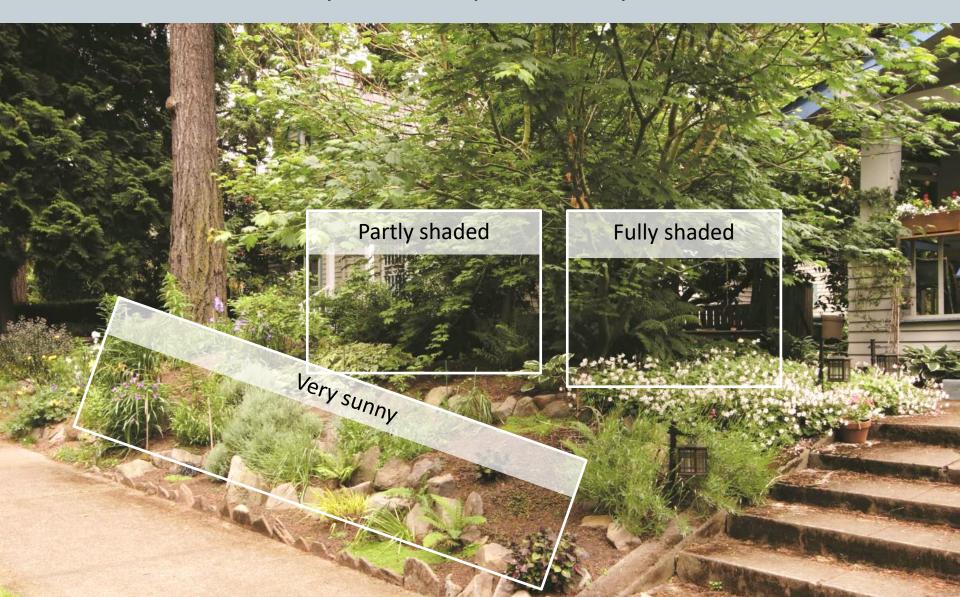
 Thrive without chemical fertilizers or pesticides = less pollution!

Benefits of Native Plants



Many native plants are *exclusive* food sources for native invertebrates.

Conditions vary from one part of the yard to another.



Common yard features influence microclimates:

- Houses
- Fences
- Retaining Walls
- Large Rocks

- Raised beds
- Terraces and slopes
- Paved / gravel surfaces
- Trees

Microclimates create areas with different characteristics.



Common yard features that influence microclimates:





Common yard features that influence microclimates:

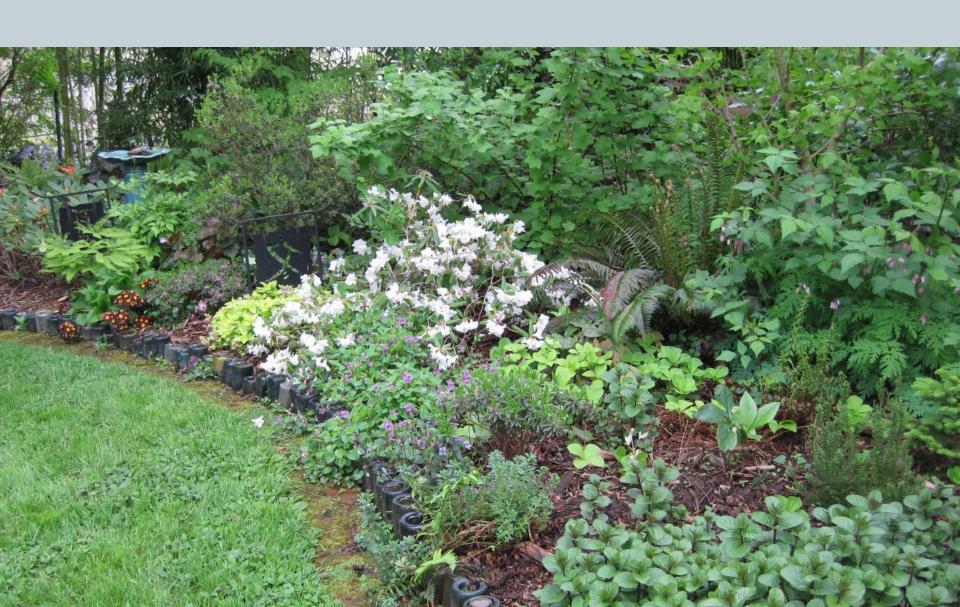




Full Shade



Part Shade

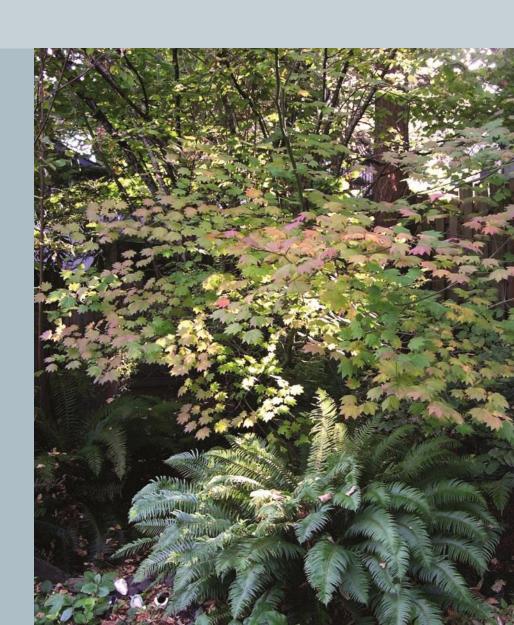


Full Sun



Native Plant Communities

- Loose associations of plant species that succeed in similar conditions
- Well-adapted to particular soils, climate, moisture and landscape features.
- Different plant communities blend into each other, usually without sharp boundaries



"Right Plant, Right Place"

Selecting plants to fit the various microclimates are present on your site.



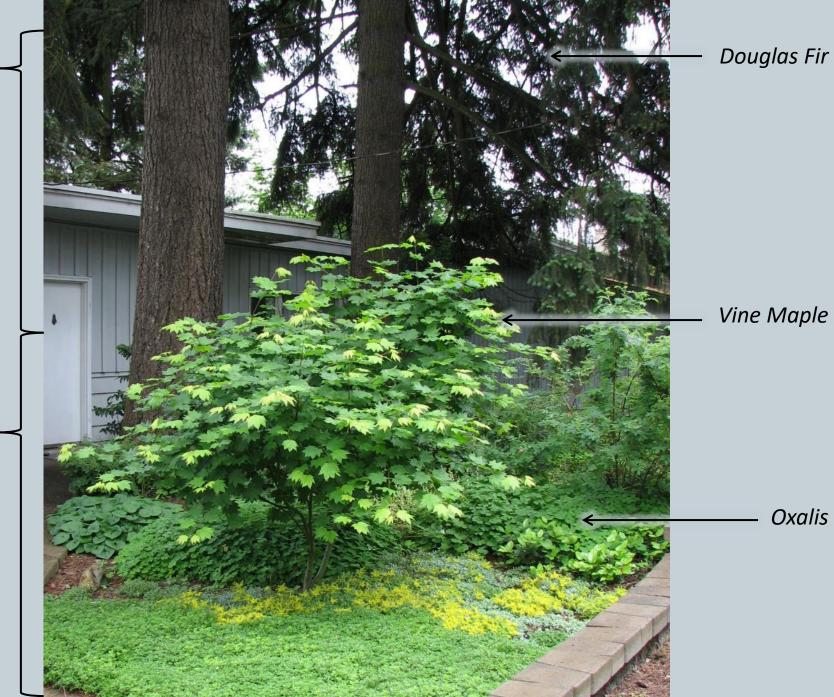




Plant Associations



Overstory Large Trees



Oxalis

<u>Understory</u>

Small Trees Large Shrubs Groundcovers



Vine Maple Sword Fern Thimbleberry -Oregon Grape Red-Osier Dogwood Oregon_ Iris

Tall Oregon_ Grape

Ornamental
Oregon Grape

Ornamental
Bleeding Heart









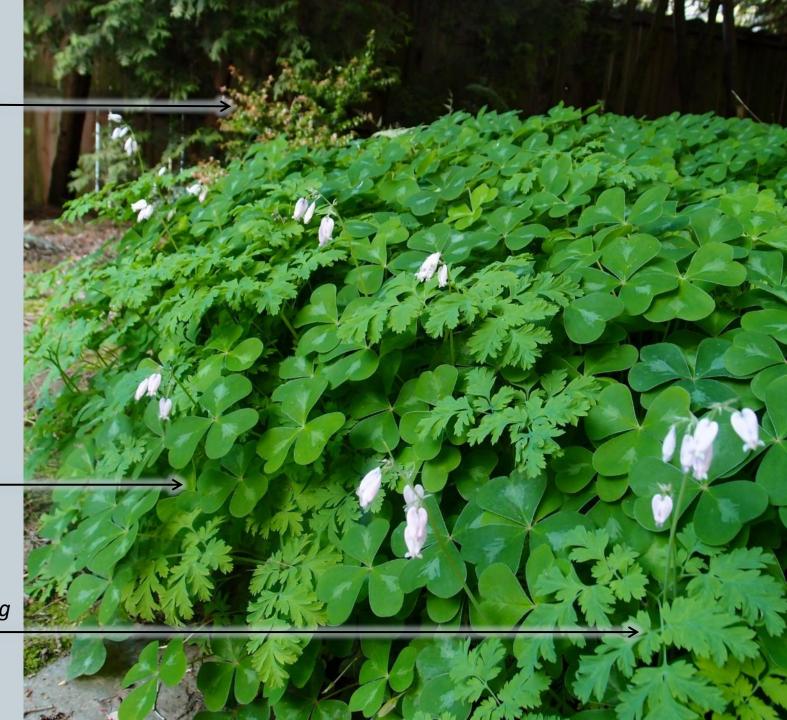
Deer Fern Rhododendron Kinnikinnick Western Bleeding Heart

Evergreen Huckleberry

Oxalis

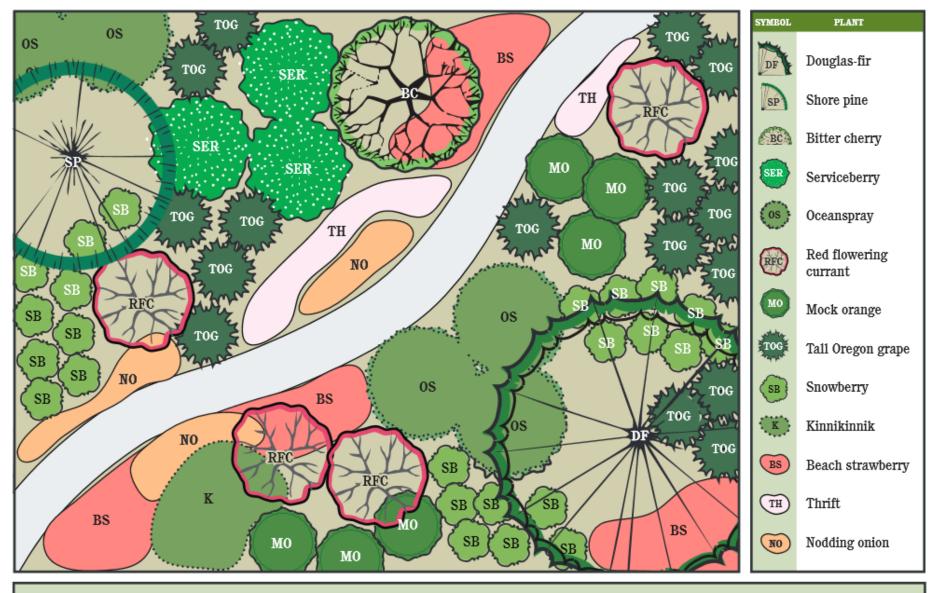
Western Bleeding

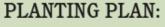
Heart











Dry, Sunny Conditions





King County

Department of Natural Resources and Parks Water and Land Resources Division

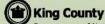


PLANTING PLAN:

Moist, Shady Conditions

0 2 4 6 Feet
Produced by: DNRP GIS, Visual
Communications and Web Unit

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Department of Natural Resources and Parks
Water and Land Resources Division

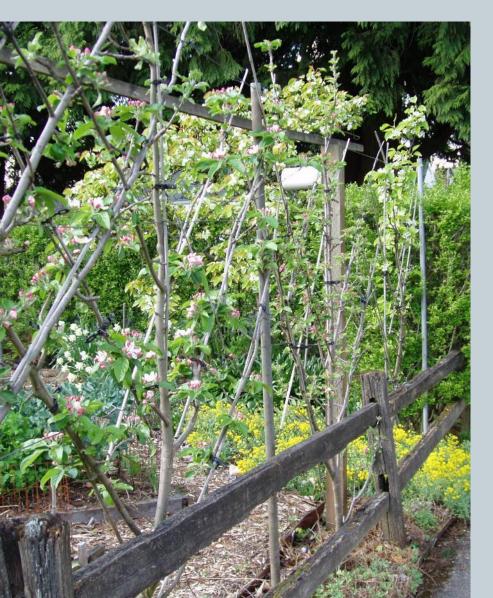
Ideas to Inspire



Outdoor Living Spaces



Visual Barriers





Lawn Reduction





Pathways





Groundcovers

Perennial ferns, grasses, rushes, sedges



Blue-eyed Grass Sisyrinchium idahoense

Grows to: 1½ ft x 2 ft

Requirements:

- Full Sun; Part Shade
- Dry; Moist; Seasonally Wet



Broad-leaf Shooting Star

Dodecatheon Hendersonii

Grows to: 1ft x 6"

- Full Sun; Part Shade
- Moist



Cusick's Checkermallow

Sidalcea cusickii

Grows to: 4ft x 2ft

- Full Sun; Part Shade
- Dry; Moist



Daggerleaf Rush

Juncus ensifolius

Grows to: 1ft x 2ft

- Full Sun; Part Shade
- Dry; Moist; Seasonally Wet;Perennially Wet



Deer Fern

Blechnum spicant

Grows to: 2ft x 2ft

- Part Shade; Full Shade
- Moist; Seasonally Wet



Douglas Aster

Aster subspicatus

Grows to: 3ft x 2ft

- **#** Full Sun
- Moist



False Lily-of-the-Valley

Maianthemum dilatatum

Grows to: 1ft x 1ft

- Part Shade
- Dry; Moist



False Solomon's Seal

Smilacena racemosa

Grows to: 2-3ft x 1-2ft

- Part Shade; Full Shade
- Moist



Goat's Beard

Aruncus diocus

Grows to: up to 5ft x 1-2ft

- Part Shade
- Moist



Hooker's Fairy Bells

Disporum hookerii

Grows to: 1ft x 1ft

- Part Shade; Full Shade
- Moist



Kinnikinnick

Arctostaphylos uva-ursi

Grows to: 6" x 3ft

- ***** Full Sun
- Dry; Moist



Lady Fern *Athyrium filix-femina*

Grows to: 3ft x 2ft

- Part Shade; Full Shade
- Moist; Seasonally Wet



Larkspur *Delphinium trollifolium*

Grows to: 4ft x 2ft

- Part Shade; Full Shade
- Moist; Seasonally Wet



Narrow-leafed Mule's Ear

Wyethia angustifolia

Grows to: 2ft x 1ft

- Full Sun; Part Shade
- Dry; Moist



Oregon Iris

Grows to: 1ft x 1ft

- Full Sun; Part Shade
- Dry; Moist

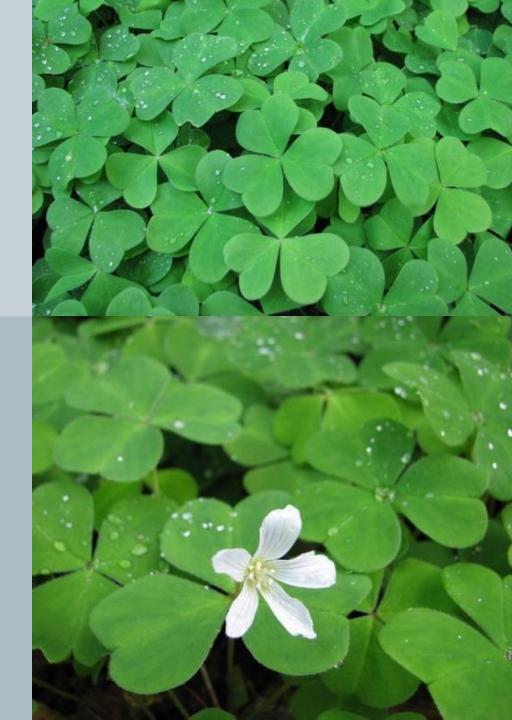


Oregon Oxalis

Oxalis oregana

Grows to: 1ft x 1ft

- Full Sun; Part Shade
- Dry; Moist



Red Columbine

Aquilegia formosa

Grows to: 2ft x 1ft

- Full Sun; Part Shade
- Moist



Slough Sedge

Carex obnupta

• Grows to: 2ft x 1ft

- Requirements:
- Full Sun; Part Shade
- Seasonally Wet; Perennially Wet; Tolerates submerged conditions



Star-flowered Solomon Seal

Smilacina Stellata

Grows to: 2ft x 1ft

- Part Shade
- Dry; Moist



Sword Fern

Polystichum munitum

Grows to: 3ft x 3ft

- Part Shade; Full Shade
- Dry; Moist; Seasonally Wet



Tufted Hairgrass

Deschampsia cespitosa

Grows to: 2ft x 1ft

- Full Sun; Part Shade
- Dry; Moist; Seasonally Wet;Perennially Wet



Western Bleeding Heart

Dicentra formosa

Grows to: 2ft x 1ft, spreads

- Part Shade; Full Shade
- Prefers Moist



Wild Ginger

Asarum caudatum

Grows to: 1ft x 3ft

- Full Shade
- Moist



Wood Strawberry

Fragaria vesca

Grows to: 6" x 1ft

- * Full Sun; Part Shade
- Dry; Moist



Yellow Wood Violet

Viola glabella

Grows to: 1ft x 6"

- Part Shade; Full Shade
- Moist



Shrubs

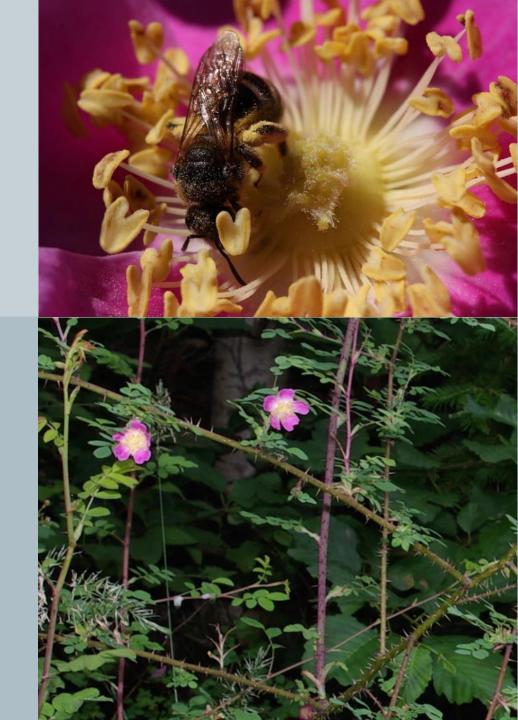


Baldhip Rose

Rosa gymnocarpa

Grows to: 5ft x 8ft

- Full Sun; Part Shade
- Dry; Moist



Black Twinberry

Lonicera involucrata

Grows to: 10ft x 8ft

- Full Sun; Part Shade
- Moist; Seasonally Wet



Douglas Spirea

Spiraea douglassi

Grows to: 6ft x 3ft

- Full Sun; Part Shade
- Dry; Moist; Seasonally Wet



Evergreen Huckleberry

Vaccinium ovatum

Grows to: 8ft x 6ft

- Full Sun; Part Shade; Full Shade
- Dry; Moist



Golden Currant

Ribes aureum var. aureum

Grows to: 6ft x 6ft

- Full Sun; Part Shade
- Dry; Moist



Long-Leaf Oregon Grape

Mahonia nervosa

Grows to: 2ft

Requirements:

Part Shade; Full Shade

Dry; Moist



Mockorange

Philadelphus lewisii

Grows to: 12ft x 10ft

- Full Sun; Part Shade; Full Shade
- Dry; Moist



Nootka Rose

Rosa nutkana

Grows to: 10ft x 8ft

- Full Sun; Part Shade
- Dry; Moist; Seasonally Wet



Oceanspray Holodiscus discolor

Grows to: 12ft x 12ft

- Full Sun; Part Shade
- Dry; Moist; Seasonally Wet



Oval-Leaved Viburnum

Viburnum ellipticum

Grows to: 10ft x 8ft

- * Full Sun; Part Shade; Full Shade
- Dry; Moist



Pacific Ninebark

Physocarpus capitatus

Grows to: 12ft x 12ft

- Part Shade; Full Shade
- Moist; Seasonally Wet



Red Flowering Currant

Ribes sanguineum

Grows to: 9ft x 9ft

- Full Sun; Part Shade
- Dry; Moist



SalalGaultheria shallon

Grows to: 6ft x 3ft

- Full Sun; Part Shade; Full Shade
- Dry; Moist; Seasonally Wet



Salmonberry

Rubus spectabilis

Grows to: 10ft x 10ft

- Part Shade
- Moist; Seasonally Wet



Snowberry *Symphoricarpos albus*

Grows to: 5ft x 3ft

- Part Shade; Full Shade
- Dry; Moist; Seasonally Wet



Tall Oregon Grape Mahonia aquifolium

Grows to: 6ft x 3ft - spreads

- Full Sun; Part Shade
- Dry; Moist



Thimbleberry

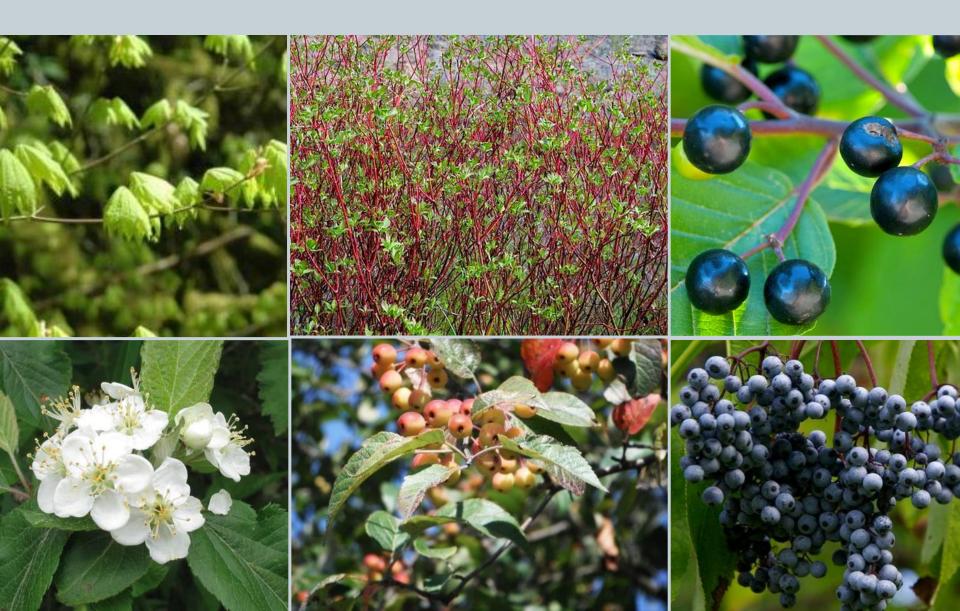
Rubus parviflorus

Grows to: 5ft x 3ft

- Full Sun, Part Shade, Full Shade
- Dry; Moist; Seasonally Wet



Small Trees / Large Shrubs



Bitter Cherry

Prunus emarginata

Grows to: 6ft – 45ft

- Full Sun; Part Shade
- Dry; Moist



Black Hawthorn

Crataegus douglasii

Grows to: 30ft x 25ft

- Full Sun; Part Shade
- Moist



Blue Elderberry

Sambucus cerulea

Grows to: 20ft x 10ft

- Full Sun; Part Shade
- Moist; Seasonally Wet



Cascara Rhamnus purshiana

Grows to: 30ft x 25 ft

- Full Sun; Part Shade
- Moist; Seasonally Wet



Chokecherry

Prunus virginiana

Grows to: 20ft x 15ft

- Full Sun; Part Shade
- Dry; Moist



Indian Plum

(aka Osoberry)
Oemleria cerasiformis

Grows to: 15ft x 8ft

- Full Sun; Part Shade; Full Shade
- Dry; Moist



Pacific Crabapple Malus fusca

Grows to: 30ft x 35ft

- # Full Sun
- Moist; Seasonally Wet



Pacific Serviceberry

Amelanchier alnifolia

Grows to: 18ft x 10ft

- Full Sun; Part Shade
- Dry; Moist; Wet



Red Elderberry

Sambucus racemosa

Grows to: 20ft x 20ft

- Full Sun; Part Shade; Full Shade
- Moist; Wet



Red-Osier Dogwood

Cornus sericea

Grows to: 18ft x 10ft

- Full Sun; Part Shade
- Moist; Seasonally Wet;Perennially Wet



Red Stem Ceanothus

Ceanothus sanguineus

Grows to: 10ft

- Full Sun; Part Shade
- Dry; Moist



Vine Maple

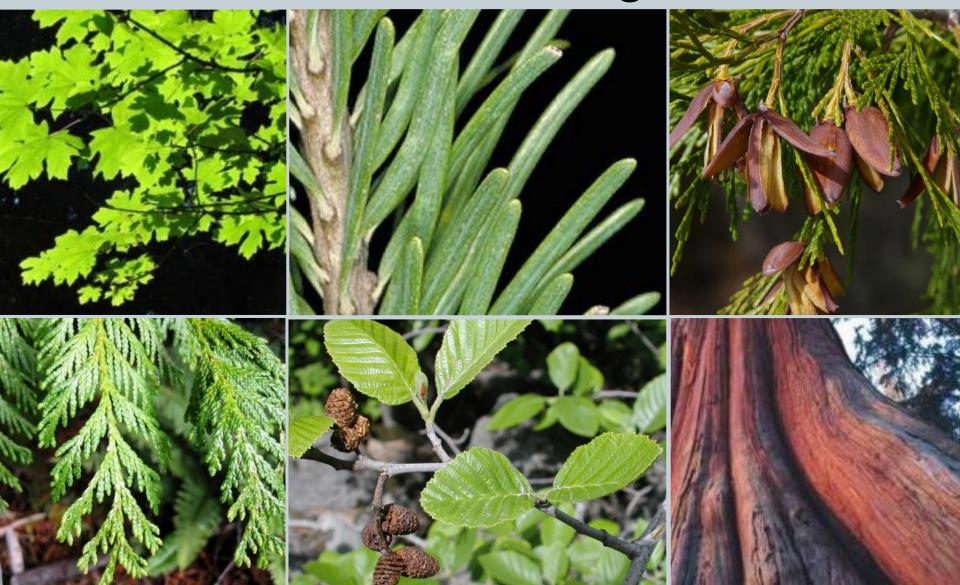
Acer circinatum

Grows to: 25ft x 20ft

- * Part Shade; Full Shade



Large Trees Deciduous & Evergreen



Big Leaf Maple Acer macrophyllum

Grows to: 90ft x 75ft

- Full Sun; Part Shade
- Moist; Seasonally Wet



Black Cottonwood

Populus trichocarpa

Grows to: 175ft x 40ft

- Full Sun; Part Shade
- Dry; Moist; Seasonally Wet;Perennially Wet



Douglas Fir

Pseudotsuga menziesii

Grows to: 200ft x 50 ft

- Full Sun; Part Shade
- Dry; Moist; Seasonally Wet





Grand Fir

Abies Grandis

Grows to: 150ft x 40 ft

- Full Sun; Part Shade; Full Shade
- Moist; Seasonally Wet



Incense Cedar

Calocedrus decurrens

Grows to: 200ft x 25ft

- Full Sun; Part Shade
- ♠ Dry



Noble Fir

Abies procera

Grows to: 250ft x 30ft

- Full Sun; Part Shade
- Prefers Moist



Oregon Ash Fraxinus latifolia

Grows to: 75ft x 25ft

Requirements:

Full Sun; Part Shade

Moist; Seasonally Wet



Oregon White Oak Quercus garryana

Grows to: 65ft x 45ft

Requirements:

Full Sun

♦ Dry



Ponderosa Pine

(Willamette Valley)

Pinus ponderosa

Grows to: 200ft x 30ft

Requirements:

Full Sun

♦ Dry



Western Hemlock

Tsuga heterophylla

Grows to: 150ft x 40ft

- Full Sun; Part Shade
- Moist





Western Redcedar Thuja plicata

Grows to: 100ft x 30ft

- Part Shade; Full Shade
- Moist; Seasonally Wet

White Alder

Alnus rhombifolia

Grows to: 90ft x 40ft

- Full Sun; Part Shade
- Moist; Seasonally Wet



Planting for Success

Timing & Preparation

Plant Selection

Placement

Planting 101: Step-by-Step

Care & Maintenance

Timing & Preparation

Timing:

Fall or winter is best

Preparation:

Observe, note, sketch

Right Plant, Right Place

Consider microclimates *before* purchasing plants!



Plant Selection

- Consider yard conditions
- Have fun and experiment!
- Use resources:
 - EMSWCD Native Plant
 Database
 - Portland Plant List
 - King County Sample PlantingPlans

*List of websites is provided at end of slideshow.



Placement

 Remember, "right-plant, right-place"

- Spacing your preference
 - Visualize future growth

- Do it in stages
 - Start with larger trees/shrubs
 - Then fill with shrubs and groundcovers



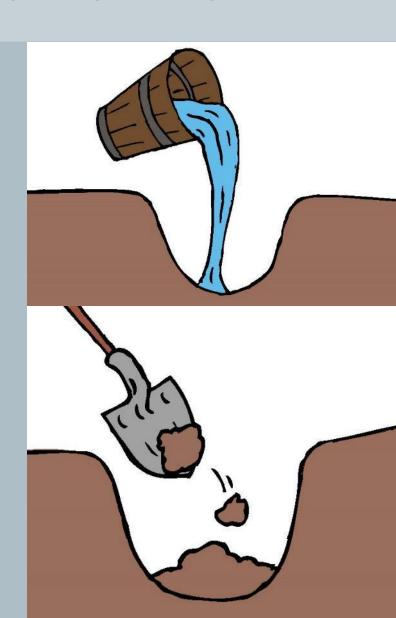
Placement

- Deciduous trees on S & W
 - Summer shading
 - Winter warming
- Evergreen trees on N & E
 - Winter wind break
- Tree/shrub can shade air conditioner for efficiency
- Consider the view from inside and outside



Planting 101: Step-by-step

- Select planting location
- Dig hole 2-3 times width of root mass and about as deep
- Fill hole with water and let drain
- Backfill bottom of hole with small mound of <u>native/existing</u> soil
- Spread roots evenly over soil mound

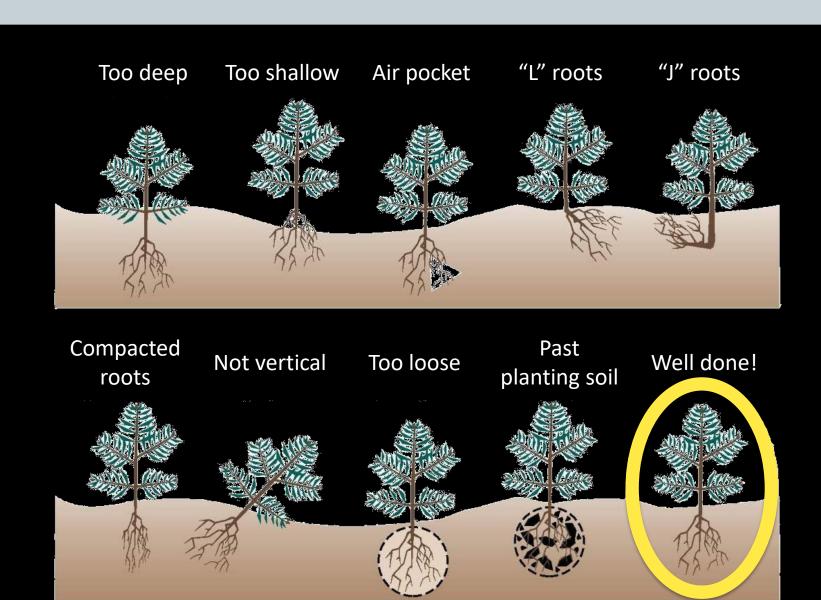


Planting 101: Step-by-step

- Place the plant so the root flare is at the soil surface
- Use remaining soil to fill the spaces between the roots, all the way up to the root flare
- Create a soil berm around the perimeter to retain moisture
- Water generously
- Add compost to surface only



Common Mistakes



Care and Maintenance

- Water: Early morning is best
- Mulch: Retains moisture, prevents weeds
- Weed early and often: Always a good practice



Learn More



Attend a *Naturescaping Basics* or *Rain Garden 101* workshop!

http://emswcd.org/workshops-and-events/

Useful Websites

- EMSWCD Native Plant Resources Page:
 http://emswcd.org/about/documents/native-plants/nts/
- EMSWCD Native Plant Database:
 http://emswcd.org/native-plants/native-plant-database/
- Portland Plant List: http://www.portlandonline.com/auditor/index.cfm?&a=322280&c=34460
- King County Landscape Plans: https://green.kingcounty.gov/gonative/Plan.aspx?Act=list