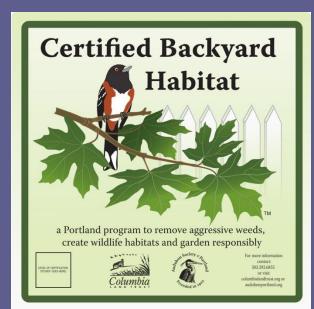
Native Plants and Wildlife Stewardship







Nikkie West Backyard Habitat Program Co-Manager Audubon Society of Portland



Urban biodiversity is not an oxymoron.





Wildlife in the City



367 species of birds and other wildlife call our region home

"We have to raise the bar on our landscapes...

In the past, we have asked one thing of our gardens: that they be pretty. Now they have to support life, sequester carbon, feed pollinators and manage water."

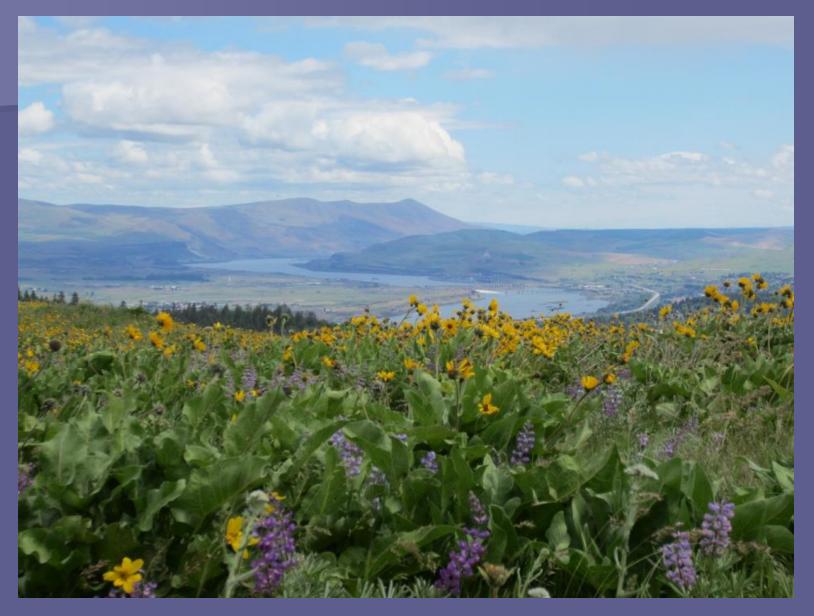
Doug Tallamy,
University of
Delaware



From this...



To this...



Naturescaping – the Criteria





- Silver = 5% of footprint, 3/5 layers
- Gold = 15% of footprint, 4/5 layers
- Platinum = 50% of footprint, 5 layers

Why Native Plants?

Why plant native plants for wildlife?

- 90% of insects are specialists and rely native plants for survival
- 96% of terrestrial birds rear young on insects
- 100% of adult amphibians (and most reptiles) are meat eaters mostly arthropods, also small mammals and fish
- Native to where?
- What about cultivars?





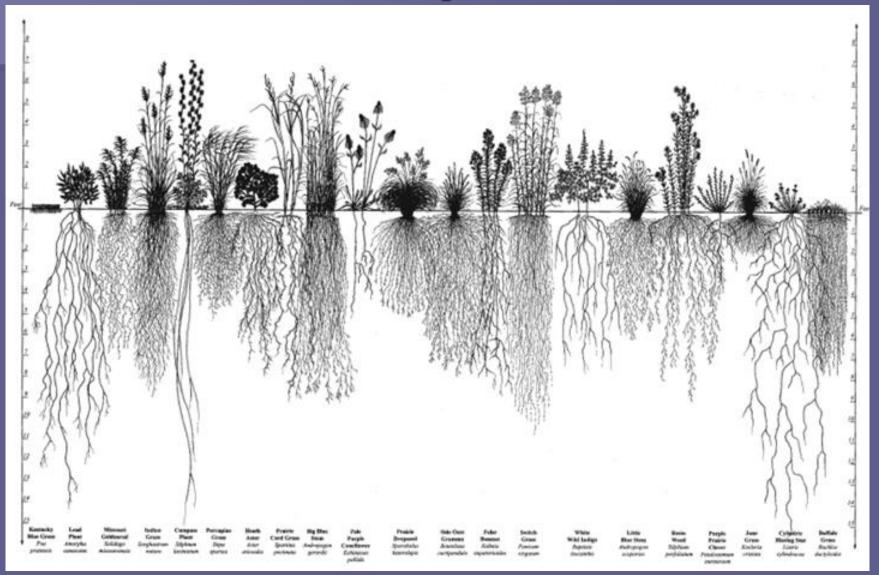
Why it matters...continued

Melaleuca quinquenervia (paper-bark tree) is native to Australia. There, in its home environment, **409 species of arthropods** eat it. It's aggressively replacing native mangroves in the southern US where **only 8 species of arthropods** have been seen eating it.



Non-native plants = guaranteed loss of bio-diversity in wildlife

Native Plants, Stormwater and Carbon Sequestration



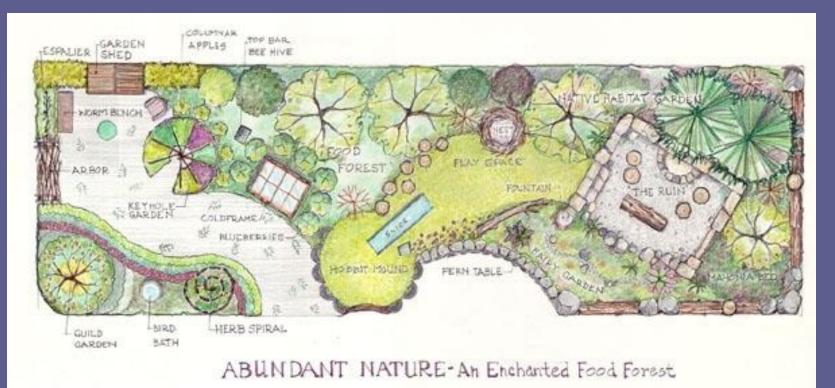
Planning a Naturescape

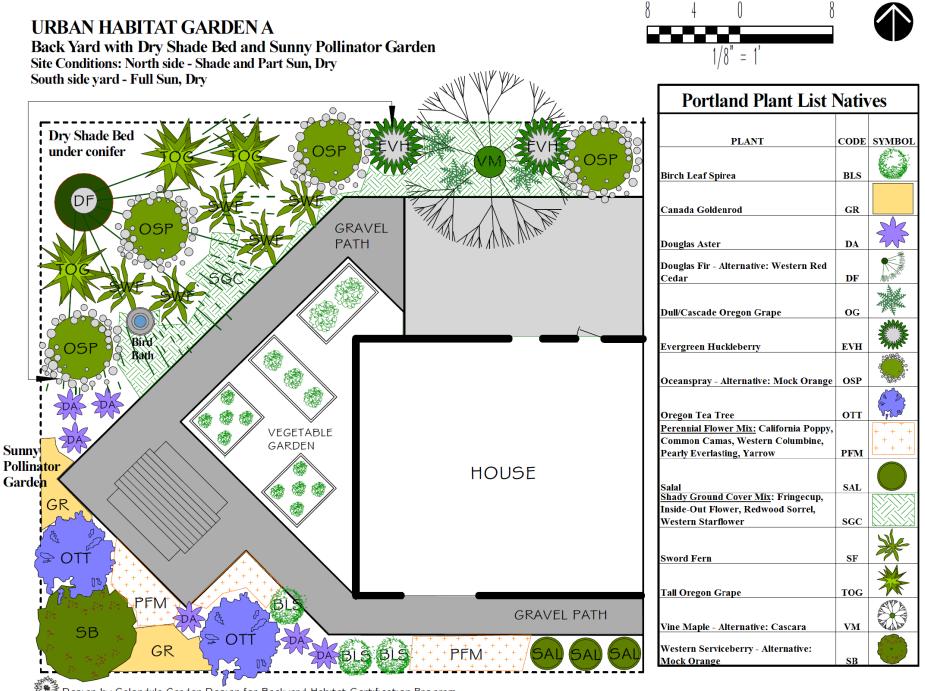
Develop a concept plan with contiguous areas of naturescaping that support wildlife and healthy communities.

1) Decide on the placement/species of new trees

2) Plan the placement/species of shrubs

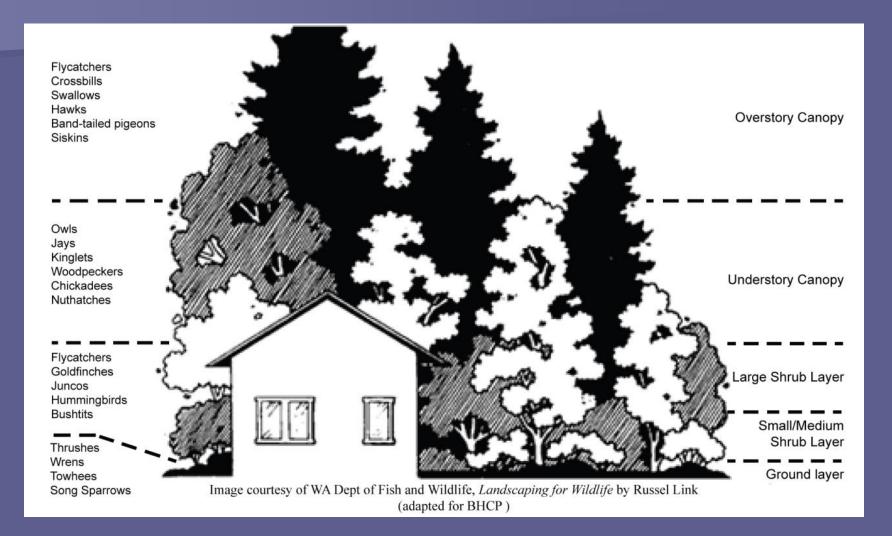
3) Decide on the placement and species of herbaceous layer last





⁸ Design by Calendula Garden Design for Backyard Habitat Certification Program

Diverse Layers = Diverse Birds



Plant Associations & Grouping

Portland Plant List







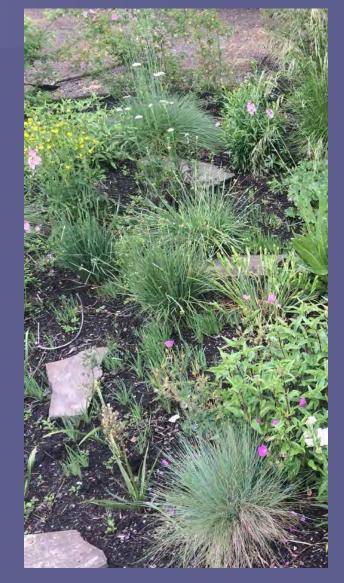












Natives and Wildlife Productivity

TREES

- Vine Maple (17 birds, 3 mammals)
- Pacific Dogwood (20 birds, 10 mammals)
- Chokecherry (35 birds, 4 mammals)
- Garry Oak (24 birds, 10 mammals)

SHRUBS

- Blue Elderberry (30 birds, 4 mammals)
- Red Osier
 Dogwood (20 birds, 10 mammals)
- Serviceberry (21 birds, 5 mammals)
- Salmonberry (33 birds, 3 mammals)

HERBACEOUS

- Miner's lettuce (12 birds)
- Wood strawberry (13 birds, 3 mammals)
- Red columbine (7 birds, 1 mammal)
- Wood sorrel (9 birds, 1 mammal)
- Slough Sedge (21 birds, 5 mammals)

Native Hedge Row

What it ISN'T

What it IS





60% of regional bird species nest in the SHRUB layer. Warblers, sparrows, towhees, and goldfinches are thicket/hedge nesters

Sourcing Native Plants

BHCP Nursery Map Neonics: Questions to Ask your Nursery!

QUESTIONS TO ASK YOUR NURSERY



NEONICOTINOIDS

Scientific studies have shown that a newer class of pesticides, called neonicotinoids (neonics for short), are a major factor in pollinator declines.

Both systemic and persistent, neonics continue to affect bees long after a spray through soil absorption.

Check with your nursery before buying plants to ensure that your bee-friendly flowers aren't killing pollinators.

QUESTIONS TO ASK

1. Are your plants or seeds treated with neonicotinoids?

2. Do you know which of your suppliers use them?

3. Would you consider removing neonicotinoid applications and treated plants from your shelves?

NEONICOTINOID PESTICIDE ACTIVE INGREDIENTS:

Acetamiprid, Clothianidin, Dinotefuran, Imidacloprid, Thiacloprid, Thiamethoxam

ls your nursery neonic free? Let us know! INFO@PESTICIDE.ORG For more information: WWW.PESTICIDE.ORG



"Pollinators are essential to our environment and economy"

Regional Conservation Strategy

Ecosystem Services Provided by Pollinators:

- 75% of world's flowering plants for reproduction depend on pollinators
- 25% of all birds and mammals depend on fruits and seeds for their diet from pollinators
- Aprox 1 in 3 mouthfuls of food and drink require pollinators.



Spring Plants for Pollinators









•Large-leaf Lupin, Lupinus polyphyllus •Red-flowering Current, Ribes sanguineum •Common yarrow, Achillea millefolium •Western Buttercup, Ranunculus occidentalis •Common camas, Camas quamash •Healall, Prunella vulgaris var. lanceolata

Summer Plants for Pollinators









Iris douglasii (douglas



Wyethia angustifolium (mules ears)



Photos by Wikipedia, google images + MGW

Fall Plants for Pollinators







•Common yarrow, Achillea millefolium (blooms spring – fall) •Fireweed, Chamerion angustifolium •Goldenrod, Solidigo candensis • Cusick's Sunflower, Helianthus cusickii (not *PPL*, *but great for pollinators*) • California poppy,

• Camornia poppy, Eschscholzia californica (blooms summer – fall)

• Evening Primrose, *Oenothera biennis*

Learning MORE!!



Open Garden's Project EMSWCD Workshops Native Plant Society – **Hikes and Meetings** Garden, garden, garden! Visit Local Nurseries Mock Cert Trainings – **RSVP TODAY!**

Wildlife Stewardship

Menu of Wildlife Options Complete 1 for silver, 2 for gold, 3 for platinum:

- Wildlife water feature
- Nest boxes
- Cats safe at home
- Pollinator nesting habitat
- Snags & nurse logs
- Reduce outdoor lighting
- Reduce bird window collision
- Native pollinator meadow



Nest Boxes



Provide Water



Cats Safe at Home

Provide a Water Source

- Features should be flat bottomed, with ¹/₂-1 inch of water
- Water should be changed regularly
- Keep it clean for optimal bird health





Nest Boxes

Appropriate for native birds

 Cornell website
 No perch!

 Clean it annually
 Be aware of cats





Cats Safe at Home

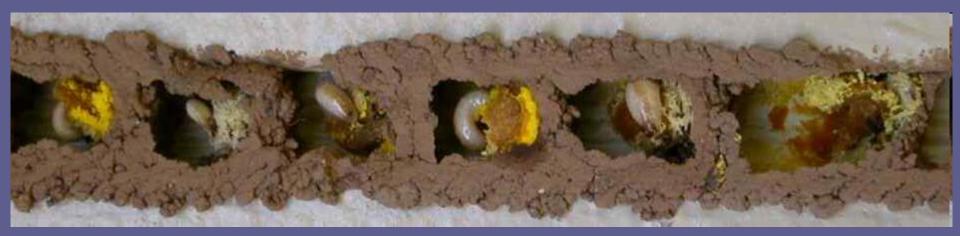






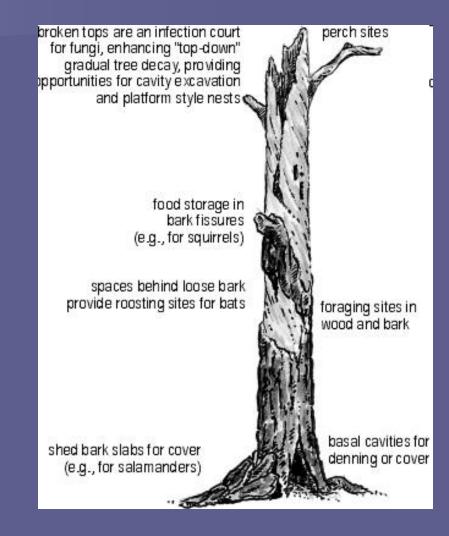
Nesting Habitat for Native Bees





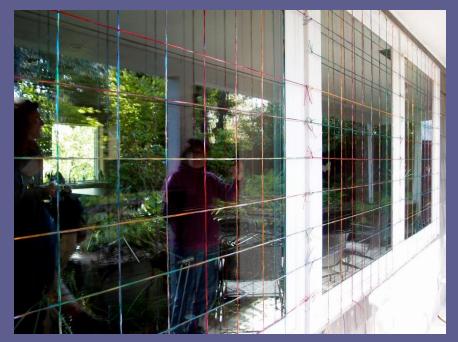
Snags, Nurse Logs, Brush Piles





Bird Friendly Buildings

- +100 million birds die in strikes
- Night-migrating birds and fish are disoriented by night lights leads to window collisions
- Bird Friendly Building Guidelines and Lights Out Portland





Pollinator Meadowscape

- Varied bloom times throughout season
- Bare ground/Rock
- Yellow and white flower preference
- Flower Consistency





Resources



BHCP Online **Resource Library** Your Volunteer Manual BHCP Landscape Plans Meadowscaping Handbook Portland Plant List Metro Brochure

Do-it-Yourself, \$60 Raingarden

<u>Step 1.</u> Design it Cost = free



<u>Step 2.</u> Dig the basin – wide and flat, generally sloping away from your house Cost = free



<u>Step 3.</u> Add compost and native plants Costs:

- rock = free from craigslist,
- plants = \$50,
- Compost = \$10
- wood = free, onsite resource



<u>Step 4.</u> Enjoy your raingarden!













Questions?





"A year after being Backyard Habitat Certified, we are seeing results. Yesterday it was both Northern Flicker and Downy Woodpeckers . Last week it was Townsend Warbler, Solitary Verio, Towhee, and Varied Thrush" - Dave



This project has been a great learning experience, one that perhaps I have obsessed over. This spring has been particularly fun, watching most of the 200 some plants leaf & bloom.

Since you were here last, neighbors were inspired & removed their fence for the view & friendship; probably the greatest compliment. - Gwen

