



Oregon State University Extension Service METRO AREA Master Gardener™ Program OSU Extension provides information and expertise to help meet local challenges and help every Oregonian thrive.

- 4-H Youth Development
- Agriculture and Natural Resources
- Family and Community Health
- Forestry and Natural Resources



Oregon State University Extension Service

OSU Extension across Oregon FAST FACTS

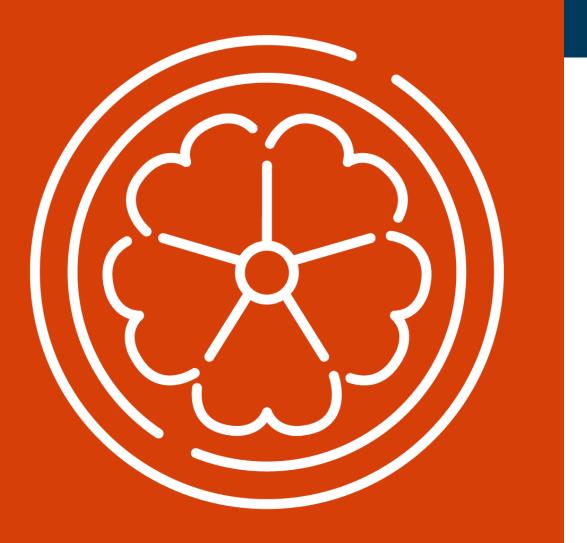
- 37,000+ youth participating in 4-H clubs and in-school programs
- 59% of our faculty live and work outside of Corvallis
- 13,000+ trained volunteers increasing community capacity
- 1,000+ peer-reviewed Extension publications, videos and apps in the Extension catalog
- 4,800 students and parents served by Juntos in 54 schools in 35 communities and 19 counties
- 33,000 individuals receive SNAP-Ed nutrition education
- 6,000+ Ask an Expert questions answered by OSU researchers, educators and volunteers

OSU Master Gardener[™] Program



- Helps Oregonians grow healthy gardens
- Provides gardening information rooted in science
- More than 3,000 trained volunteers provide 200,000 volunteer hours and 250,000 contacts annually
- Requires annual volunteer recertification

Hello!



OSU EXTENSION SERVICE metro area MASTER GARDENER VOLUNTEER



Robin Carpenter

OSU Master Gardener Mission

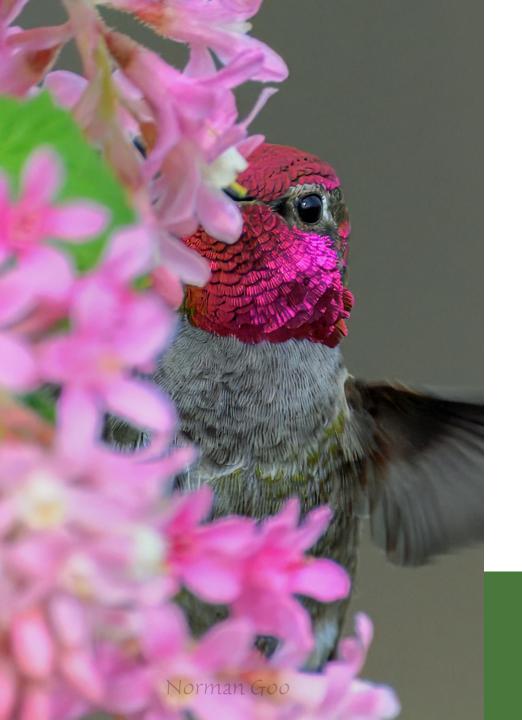


Cultivating resilient and healthy communities throughout **Oregon** through sustainable horticulture education and **gardening** projects that are rooted in science and that are supported by OSU Extension volunteers.

Land Acknowledgment

Oregon State University is a "land grant" institution, located on the traditional homeland of the Kalapuya people, who were forcibly removed to reservations in Western Oregon. After 1868, land taken from Klamath, Coos, Lower Umpqua, Siuslaw and Coquille people was sold to support the growth of the new college.

OSU accepts its responsibility to understand the continuing impact on living descendants of the Confederated Tribes of Grand Ronde and Confederated Tribes of Siletz, and is committed to being of enduring benefit to the state of Oregon and the people on whose ancestral lands it occupies.



Gardening with Pacific Northwest Native Plants

Robin Carpenter OSU Extension Service Master Gardener Volunteer

Photo: Anna's Hummingbird in Red Flowering Currant by Norman Goo

What is a native plant?



Photo credit Stanley Zimny via Creative Commons

Native - a plant or animal that has evolved in a given place over a period of time sufficient to develop complex and essential relationships with the physical environment and other organisms in a given ecological community.

'The Living Landscape' by Rick Darke & Doug Tallamy

Native to where?

- Plants that have similar needs in terms of climate, elevation, and soil
- Plants that have been here for millennia before European colonization and now urbanization



Our local climate, elevation, and soil

- Cool, rainy winters
- Warm, relatively dry summers
- Long growing season
- USDA zone 8b, AHS zone 4, Sunset zone 6
- Wide elevation range, some microclimates
- Soil testing



Credit: Mercedes Maltese

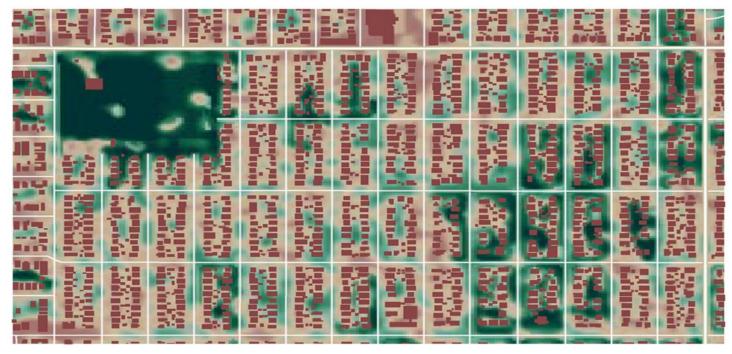
Our urban gardens

- Disturbed soil
- Non-native ecosystem with introduced flora & fauna
- Introduced pests and diseases
- Wildlife pressures
- Weediness vs our concept of "garden"
- Difficulty of culture
- Unfavorable conditions
- Hazards and nuisances for dense population
- Right Plant, Right Place, Right Care



Photo: Eric Butler

Does one yard matter?



Source: Backyard Habitat Certification Program

An ecosystem is a tapestry of species and relationships. Chop away a section, isolate that section, and there arises the problem of unraveling.

14

David Quammen, The Song of the Dodo (1996)

Why is building habitat with native plants important?



All photos: Jim Cruce

367 species of animals call our region home. 219 bird species migrate through.

Approximately 30 species of bees are labeled as possibly extinct or critically imperiled



Photo: The Xerces Society/Rich Hatfield

Causes of species decline

Big picture:

- Less habitat due to development
- Climate change caused by fossil fuels
- Introduced species of plants and animals
- Other human hazards

In our yards:





Photo: Ivan Radic Photo: Jeanne Donaldson/Bird Alliance of Oregon

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Photo: OSU Master Gardener

Photo: Agnieszka Kwiecień

Native plants support native wildlife & food web

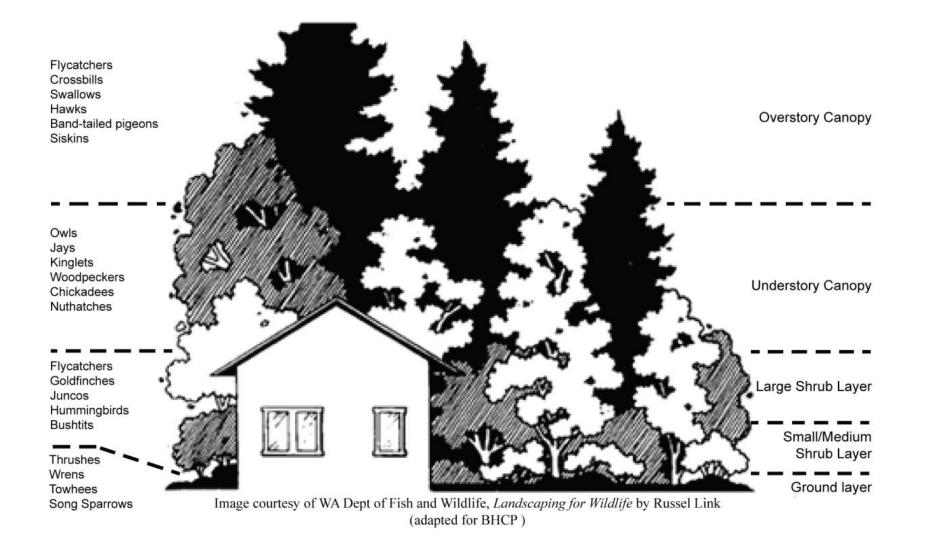


Photo: Dan Mullen



- 90% of insects depend on native plants to survive
- 96% of terrestrial (i.e. land) birds feed on insects
- 10% of small mammals only eat insects
- 100% of adult amphibians (and most reptiles) eat insects, small mammals, and fish
- We are all connected through the food web

Naturescaping for wildlife diversity



Native Plants in the Garden



Download Native Plant Lists for Free

https://www.oregonmetro.gov/native-plants-willamette-valley-yards-booklet

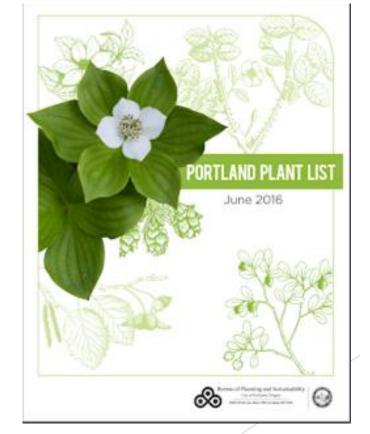
https://www.portland.gov/bps/documents/portland-plant-list/download

Native plants for Willamette Valley yards



Accompanied by photos of each plant listed.





Includes Nuisance Plants list (plants that are introduced and aggressively takes over, ie, invasive)



Source: Metro

Perennials and Annuals



Douglas Aster Symphotrichum subspicatum Abundance 100% | Diversity 100%

Here, we see a woodland skipper (Ochlodes sylvanoides) foraging from Douglas Aster!

To support native bees in your garden, select plants that support high bee abundance and/ or high bee species richness.

Outer white circle represents relative bee abundance.



Inner white circle represents relative number of bee species (diversity).

Infographics developed by LeAnn Locher, Aaron Anderson, and Gail Langellotto.



We selected native perennials based on results of Aaron Anderson's three-year study of native bee preference for native Oregon plants.

- OSU Garden Ecology Lab





Globe Gilia bundance 92% | Diversity 1009





Farewell to Spring Abundance 58% | Diversity 100













Yarrow

Bee Species Supported Relative to Lavender



Varileaf phacelia Phacelia heterophylla

Globe Douglas' gilia aster Gilia capitata subspicatum

California poppy Symphotrichum Escholzia californica

Farewell Lavender Lavandula x to spring intermedia Clarkia 'Grosso' amoena

Rose Sidalcea asprella ssp. virgata

Common checkermallow madia Madia elegans Canada Oregon goldenrod sunshine Solidago Eriophyllum canadensis lanatum

Yarrow Achillea millefolium





Large-leaved Lupine Photo: Terri Paju, Pixabay



Red Flowering Currant Photo: Robin Carpenter

Spring plants for pollinators

Osoberry Photo: Robin Carpenter



Common Camas Photo: Susan Albright

Tall Oregon Grape Photo: Dena Turner



Blue-headed Gilia

Photo: Alain General, Pixabay

Farewell to Spring Photo: Shu-Ju Wang

Summer plants for pollinators

Douglas spirea

Photo: Tammi Miller



Showy fleabane Photo: David J. Stang



Western columbine

Photo right: Susan Albright

Fireweed Photo: Shu-Ju Wang





Madia elegans Photo: Ragni Jayanthi



California Poppy

Photo: JackieLou DL, Pixabay



Fall plants for pollinators

Pearly Everlasting



Photo: Natalie N., Pixabay

Goldenrod



Douglas Aster



Photo: Doug Murphy, CC BY 4.0 via Wikimedia Commons

Harebell



Photo: Witold Rychter, Pixabay

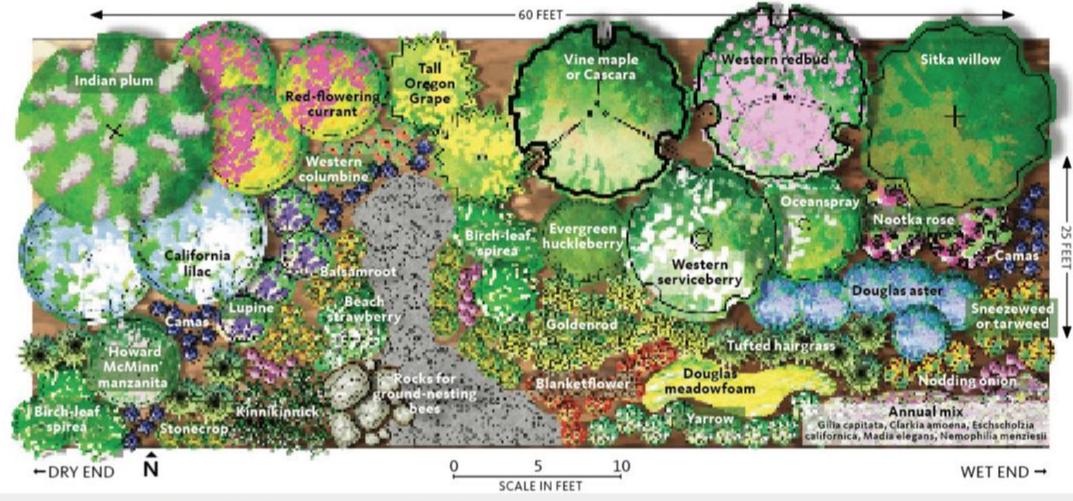
Yarrow



Photo: Hans, Pixabay

Photo: Hans Benn, Pixabay

Planting Ideas - Native Pollinator Garden

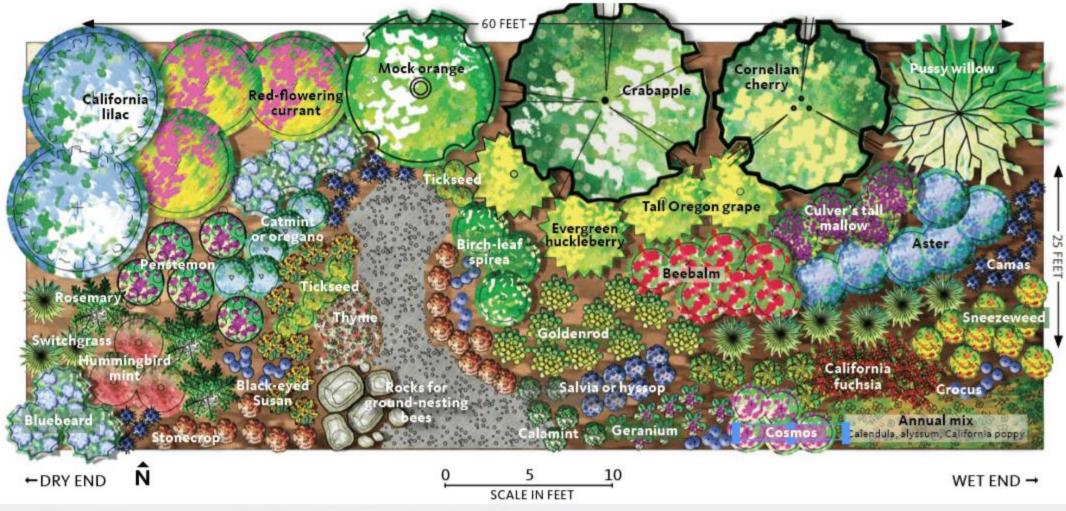


Native plant garden design, spring through fall, west of the Cascades. Credit: Signe Danler, © Oregon State University

Enhancing Urban and Suburban Landscapes to Protect Pollinators

https://extension.oregonstate.edu/catalog/pub/em-9289-enhancing-urban-suburban-landscapes-protect-pollinators

Planting Ideas - Native & Non-native Pollinator Garden



Native and non-native garden, spring through fall, for areas west of the Cascades. Credit: Signe Danler, © Oregon State University

Enhancing Urban and Suburban Landscapes to Protect Pollinators

https://extension.oregonstate.edu/catalog/pub/em-9289-enhancing-urban-suburban-landscapes-protect-pollinators

Planting Ideas – Natives in Sun



Photo: Mercedes Maltese

Planting Ideas – Natives in Shade







Photos: Mercedes Maltese

Native shrubs hedgerow

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



Photo: Eric Butler

Pollinator Garden

- Focus on low-maintenance shrubs, wildflowers, and bunchgrasses
- Flower diversity
 - Bloom season
 - Flower types
 - Host plants
 - Not all flowers "work"



Photo: Eric Butler

Woodland

- Focus on shade-tolerant small trees, shrubs, ferns, and herbaceous plants
- Maintain leaf litter, woody debris



Photo: East Multnomah Soil and Water Conservation District

Meadowscape

- Focus on bunchgrasses and wildflowers. Similar species mix to pollinator garden, but more grass-focused
- Wet or dry
- Sometimes used as water-wise lawn substitute



Photo: Bob Hansen



Photo: Joseph Ken, Pixabay



Photo: Kjerstin Michaela Noomi Sakura Gihle Martinsen Haraldsen, Pixabay



Photo: Stephanie McLean, Pixabay

Sustainable options

- Use resources you already have on your site (i.e. leaves, twigs, stumps, etc)
- Repurpose/share resources (i.e. Chipdrop, Craigslist, plant swaps, etc.)
- Wood and branch piles are insect habitats
- Put the right plants in the right places. Needs vs conditions
- Grow plants from seed and/or propagate from cuttings
- Take one step at the time. Work at your own ability
- Plant during "fall" weather. Water for 3 years during "summer" weather
- Ask questions and ask for help. Connect with local organizations:
 OSU Extension Master Gardeners, Friends of Backyard Habitat

Sustainable options - Lose the Lawn



Western White Yarrow (Achillea millefolium) grown from seed sown after the grass was removed

WCMGA: Lawn Be Gone! – October 18, 2025

Photo: Pam Misener

Sustainable options - Leave the Leaves



Reduce or eliminate pesticide use



- Take Metro's pledge to not use pesticides
- Use GrowSmartGrowSafe.org



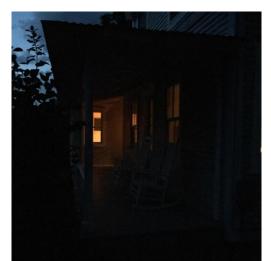












Garden features in support of pollinators & wildlife





Large tree (over 30') for

stormwater management

- Water source
- Bird/bat nest boxes
- Insect nesting habitat
- Snags/nurse logs
- Reduce outdoor lighting
- Reduce window collisions
- Cats indoor/enclosure

Birdbath photo Nikkie West, birdhouse photo Kenneth C. Zirkel, mason bee house photo jhritz, snag photo Nikkie West, porch photo megnut, window decals photos quinn.anya, catio photo Michael Sulis

Why wait? Get started now!

Need PNW/Willamette Valley natives in your yard?

Need resources?

Need inspirations?



Where to get native plants

- Specialist nurseries and seed suppliers
- Garden centers with native plant sections
- Collect/grow your own
- Fundraiser sales



Bigleaf Lupine Photo: Robin Carpenter

Resources: books & publications

- Kruckeberg & Chalker-Scott: Gardening with Native Plants of the Pacific Northwest
- Link: Landscaping for Wildlife in the Pacific Northwest
- OSU Extension:
 - i. Gardening with Oregon Native Plants West of the Cascades
 - ii. Selecting Native Plant Materials for Restoration Projects (2006)
 - iii. Living On the Land: Got a Stream? Grow Plants! (2015)
- Pojar & MacKinnon: *Plants of the Pacific Northwest Coast*
- Robson, et al.: Encyclopedia of Native Plants for Pacific Northwest Landscapes
- Stark: *Real Gardens Grow Natives*
- Tallamy: Bringing Nature Home
- West Multnomah SWCD: *The Meadowscaping Handbook*

Resources: expertise

- Native Plant Society of Oregon
- Native Seed Network
- Backyard Habitat Certification Program (BHCP)
- Tualatin Soil and Water Conservation District; East Multnomah Soil Conservation District; West Multnomah Soil and Conservation District
- Native Plants in Oregon Discussion (FB group)
- Friends of Backyard Habitat Greater Portland Oregon Area (FB group)
- Metro Master Gardeners

Resources: online

- Clean Water Services plant list (and plant sale list)
- Hansen's Native Plant Database
- National Wildlife Federation
- Oregon Flora Project
- OSU woody plants database
- Plantnative.org
- Portland.gov/bes
- Portland Plant List
- Xerces Society
- and more...

Where you can find us...



On the web

www.metromastergardeners.org



• X (formerly Twitter) @TheRealDirt



• Facebook

@MetroMasterGardeners

OSU Extension Service & Master Gardener Associations Events Calendar

Find upcoming events at:

-Free events and webinars, all welcome!

-Register for some in advance

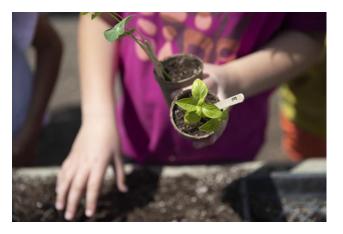


Photo credit: OSU Extension Service

www.metromastergardeners.org

pcoming Events	
Mar 22	Gardening with Pacific Northwest native plants * 10:00 am - 12:00 pm Portland, OR
Mar 29	Perennials: How to choose, plant and maintain for year-round flowers * 10:00 am - 12:00 pm Portland, OR
Apr 1	Oregon Odonata: The dragonflies and damselflies around us 7:00 pm - 8:00 pm PDT Online
Apr 12	Spring cleaning in the garden * 10:00 am - 12:00 pm Portland, OR
Apr 19	Basics of plant propagation * 10:00 am - 12:00 pm Beaverton, OR



www.metromastergardeners.org Use web form, email, or voicemail.



Oregon State University Extension Service Master Gardener^{**} Ask a Master Gardener[™]! via webform or voicemail by visiting our webpage...

www.metromastergardeners.org

