







What is a Soil and Water Conservation District?

The American Dust Bowl, 1930's



Example projects

- Cover Crops on farms
- Soil Health
- Erosion control
- Oregon white oak restoration
- Native plants near streams
- Pollinator habitat

And many more....

Many projects consist of transitions from weeds to native plants!

What is a Weed?

A plant out of place?

A plant that is a nuisance?
Those unwanted plants

next to your tomatoes?







How We Define Noxious Weeds



- From other regions of the world
- Highly competitive
- Capable of causing:
 - Health concerns
 - Economic damage to farms, forests, ranchland
 - Harm to natural ecosystems
- Displace native plants



Camas 🙂



Oblong spurge 🖰



Single weed (oblong spurge)





Infestation (English ivy)









Basic Weed Principles: Removal

- Get the entire plant
- Dispose properly







Basic Weed Principles: Reproduction

Seeds

Basic Weed Principles: Reproduction

- Sprouting
- Rhizomes
- Layering
- Plant parts / cuttings





Basic Weed Principles: Shade tolerance

- A lot of plants will give up if you shade them out...
- Blackberry
- Scotch broom
- Reed canary grass
- HOWEVER, Many will persist forever in the shade ☺







Oblong spurge (Euphorbia oblongata)







Oblong spurge



HABITAT

- Sun loving
- Forest edges
- Moist well drained to dry soils
- Planted in yards around Benton County

WHY IS IT A PROBLEM?

- Moves into oak woodlands, infests the understory
- Difficult to remove once established
- Not palatable to wildlife







Spurge laurel (Daphne laureola)





Spurge laurel

- Hand pull
- Cut and treat stump with herbicide
- Don't treat leaves with herbicide









Lesser celandine (Ranunculus ficaria)







Italian arum and lesser celandine

- Dig it up
- Throw away entire shovel full of dirt
- Garbage, not compost













Ivy – growing on trees

- Prioritize tree ivy over ground ivy
- Cut a ring around tree
- Pull ivy downward from eye level, then a few feet from tree base
- Don't tug on the ivy trying to pull it from tree canopy







Ivy – growing on trees

- Stump treat with herbicide
- Might cut with machete





lvy – growing on the ground

- Pull it
- Concentrate efforts starting in one area and strategically move along
- Herbicide can work, but a very specific mix is needed. DO NOT just spray with hardware store weed killer







Herb robert (Geranium robertianum) shiny geranium (Geranium lucidum)







Reporting weeds



https://oregoninvasiveshotline.org/

Send 3 photos to michael@bentonswcd.org

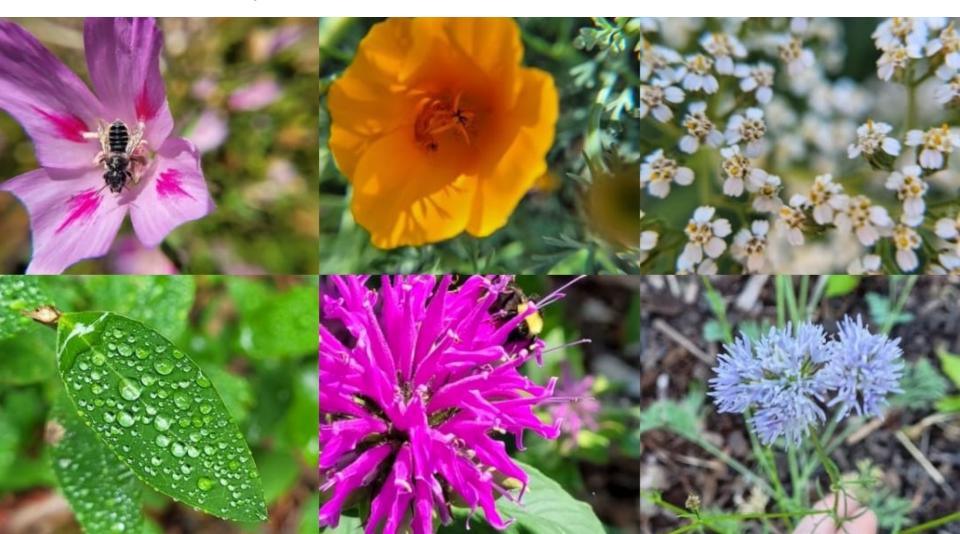
- Photo 1: whole population
- Photo 2: zoom in to the flower
- Photo 3: anything else characteristic, i.e. hairy leaf or stem, seed heads

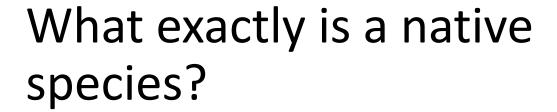
Give details on location and date you saw it

Native plants:



Your best allies for soil and water health, wildlife, and landscape resilience!







An organism that was present in the region before the arrival of European settlers.

Includes species that are now rare, threatened, or extinct.

DOES NOT include plants that are native to other eco-regions in the U.S. or elsewhere.

"Naturalized" species are those that were introduced by humans, but have become a harmless part of the landscape (versus invasive)



How "native" should it be?



Hyper-local vs regional...

Erigeron decumbens Nutt.

Willamette fleabane



Distribution



Ceanothus thyrsiflorus Eschsch.

blue blossom



Distribution



Oregon's native plants



- Oregon has over 3600 species of native plants
- These inhabit a number of diverse plant communities including:
 - Evergreen forests, Mixed Deciduous Forest, Steep Dry Slopes, Dry Prairie/Oak Savannah, Wet Prairie, and more.
 - Something to consider when choosing plants...











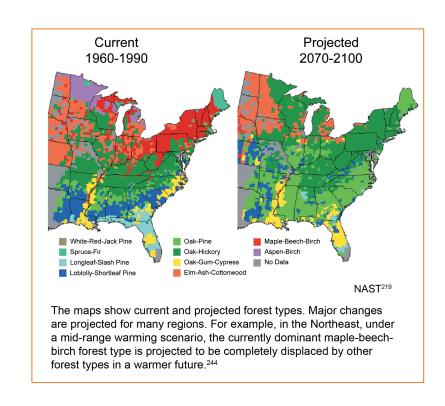




Why choose native plants?

They need our help

- Over 450 of our native plant species are listed as threatened or endangered
- Oak woodlands and savannas have been reduced by 80%, wetlands by 87%, bottomland hardwood forests by 70%, and native prairie by over 98%
- Climate change threatens to shift or destroy entire plant communities



Why choose native plants?



They help us

- Drought resistant
- Improve soil health
- Can help prevent flooding
- More resistant to pests and diseases
- Save you time and money
 no irrigation, fertilizing,
 or pesticides needed!





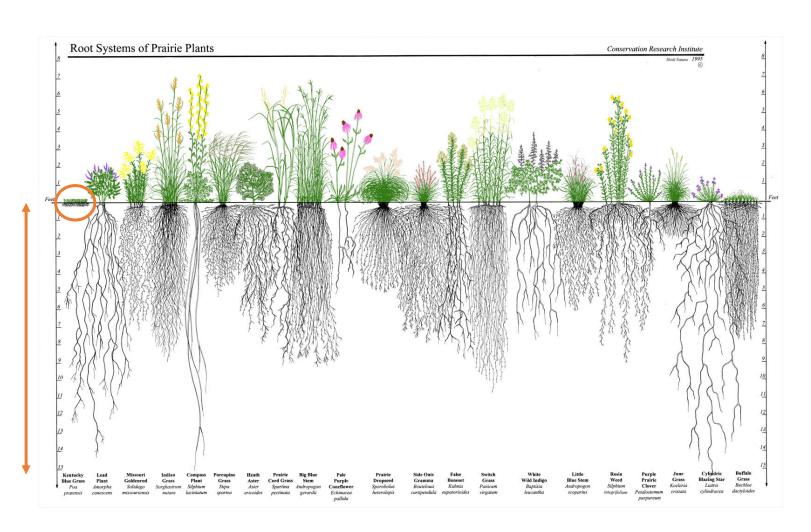


Deep and complex roots

Turf Grass

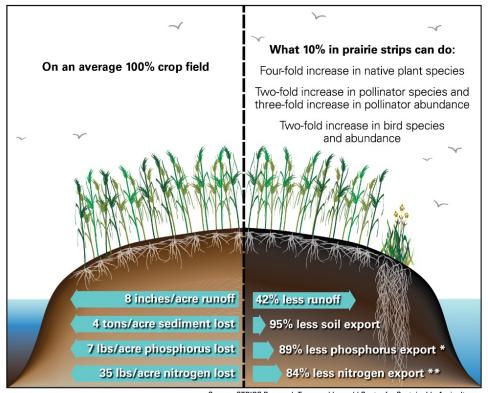
Vs

Native plants



Soil and stream health





Source: STRIPS Research Team and Leopold Center for Sustainable Agriculture





biodiversity

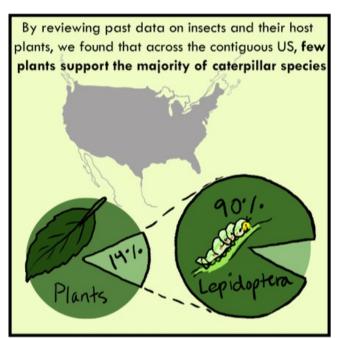
- Native plants provide food and shelter for 10-15 times more species of birds, butterflies and other local wildlife than non-native plants
- 90% of insects can only develop and reproduce on the plants with which they share an evolutionary history (i.e. native species)
- Native plants supply food for the insects that most baby birds require

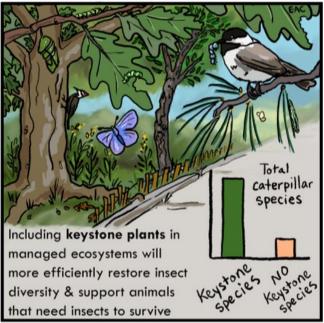




Fender's blue butterfly (endangered) + Kincaid's Lupine (threatened)

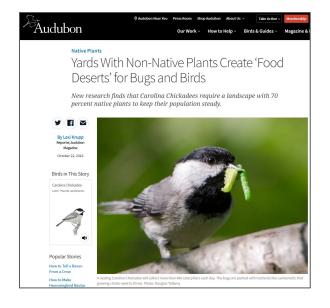
















Oregon Grape

Mahonia aquifolium or Berberis aquifolium

Oregon state flower

hardy and versatile! Tolerates almost all sun and soil conditions.

Evergreen foliage. Blue berries art tart but make great jelly or jam. Provides important early blooms for pollinators





Red flowering currant *Ribes sanguineum*

Early spring nectar for hummingbirds and butterflies, forage for the larvae of more than two dozen species of moths and butterflies, and nesting cover for songbirds and small mammals.

Berries, although very tart, are considered suitable by some for jam, jelly, pie, juice or syrup. Native Americans ate the berries fresh or dried.





Osoberry/Indian plum Oemleria cerasiformis

First deciduous native shrub to flower in late Winter. an important early season nectar source for hummingbirds, moths and butterflies, native bees and other pollinator species.

Indian plum fruit is edible for humans but is often bitter, even when fully ripe. A traditional Native American food eaten fresh, dried, or cooked. The bark was used as a tuberculosis remedy and a mild laxative. Strips of bark were used to bind harpoon tips.





Fringe cup *Tellima grandiflora*

Fuzzy heart-shaped flowers. Spreading perennial for moist shady sites. Reseeds generously.

Slug resistant. Evergreen during mild winters.

can create thick patches of ground cover, establishing well in disturbed and shady areas (especially along trails), outcompeting invasive weeds.





Vine maple Acer circinatum

Considered to be the most useful native tree for the landscape in the Pacific Northwest. Grant and Grant (1990) point out that it has an upright character in sunny locations and "in shade developing an ethereal horizontal grace that few maples achieve". Stunning fall foliage.

Found in moist woods and along stream banks from British Columbia south to northern California.

Summer foliage is a preferred food for deer and elk. Seeds, buds and flowers provide food for many birds and rodents. Squirrels and chipmunks will cache the seeds.





Red osier dogwood *Cornus sericea*

A beautiful and bee-loved large shrub for part-shade. Easy to grow, easy to care for, and deer-resistant. Give it space to spread.

all-season interest! Abundant spring flowers, white berries in summer, Colorful fall foliage, and showy red branches in winter

for centuries humans have used hard wood of dogwood for basketry, wicker, farm implements, and weaving shuttles. The inner bark of young stems was split and scraped into threads and toasted over a fire before being mixed with real tobacco.





Salmonberry *Rubus spectabilis*

Perennial species in the Rose family. Edible fruit, matures in late summer to early autumn and resembles a large yellow to orange raspberry. Delicious raw or in jellies and jams!

Useful for bank stabilization. Can spread.

Many birds and mammals are attracted to the berries. Hummingbirds are attracted to the flowers.





Mariposa Tulip or Cat's ear Calochortus tolmiei

Bulbs we sell in the fall! Drought tolerant; prefers ample winter rainfall with sparse summer irrigation.

Key nectar species for Fenders Blue Butterfly and Taylor's Checkerspot.

Naturally sweet! It was considered a candy-like treat by native peoples and was often hidden in the rafters from the children





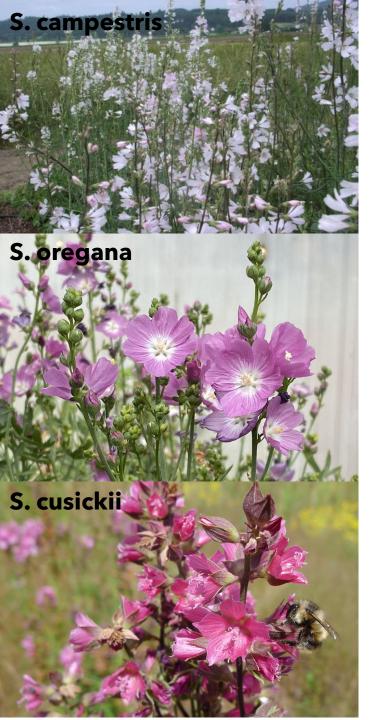
Showy Milkweed Asclepias speciosa

Abundant nectar attracts hummingbirds, butterflies, bees, and other beneficial insects. Larval host for monarch butterflies.

People have used milkweed plants for fiber, food, and medicine.

Spreads happily in dry, sunny locations. May become weedy. A big, charismatic addition!

Toxic to livestock.





Checker mallows *Sidalcea sp.*

Several different species available at nurseries for different habitats, from shady and moist to dry and sunny.

Beautiful, hollyhock-like pink flowers. Easy to grow and care for. Spreads readily by seed.

Checker-mallows attract a variety of pollinators, including bumblebees, honey bees, and a wide variety of wasps, flies, beetles, and solitary bees (including the Sidalcea specialist, Diadasia nigrafrons)

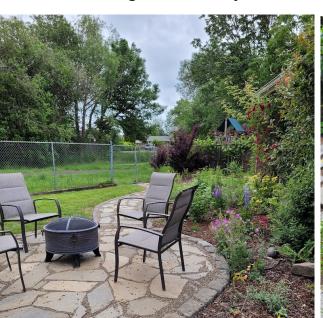
Long-lived foliage. Will bloom multiple times throughout summer if given supplemental water



Nick Cavagnaro's backyard haven, Corvallis



Tom Hagen's native plant hedgerow, Eugene







Sara's Philomath back yard conversion, 1.5 years post-planting



Native Plant Sale

Online shop now open!



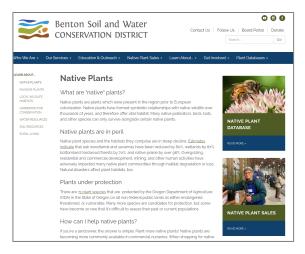
AND MORE!

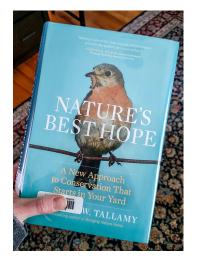
Buy Online September-February

Pick up orders Feb. 24, 2024 at Benton Co. Fairgrounds

Shop and find more information at: bentonswcd.org/native-plant-sales

RESOURCES







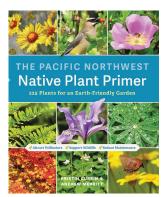
homegrownnationalpark.org

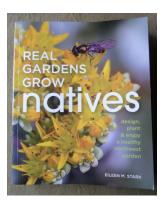


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