Vanishing Landscapes Saving Our Native Plants and Habitats

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Heritage Seedlings & Liners
For a copy of the talk, email
lboyer@heritageseedlings.com
Many resources available at:
www.heritageseedlings.com

Powerful video about the human-caused extinction happening right now

http://www.cnn.com/interactive/2016/12/specials/vanishing/

Rather than feel helpless - there is a lot we <u>can</u> do and resources to help us in our

call to action

Planting in a Post-Wild World – Rainer and West

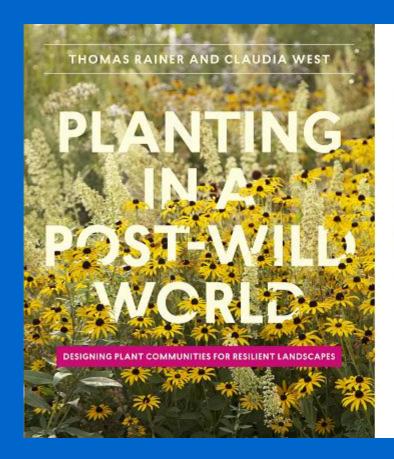
We may not be able to save the mega-fuana in our life-time

AND

We can't take back the wild places we have lost

BUT

We can ride the wave of <u>increasingly vocal number of voices</u> calling for action at the <u>local level</u> to enhance our landscapes to fill ecological niches we have lost or are loosing









Thomas Rainer

WHAT <u>YOU</u> CAN DO

ECOLOGICAL CANVASES

- Wild lands
- Pastures & Meadows
- Woodlots & Back-40
- Our yards!!!!!
- Roadsides
- Office parks & Malls
- City and County Parks
- City side walks and greenspaces

ECOLOGICAL WARRIORS

- Restoration Professionals& Land Managers
- Landowners
- Gardeners!!!!
- Horticulturalists
- Landscapers
- Transportation Depts.
- Teachers
- Community Associations

But - you cannot take care of what you cannot see

Dr. Gerould Wilhelm North American Prairie Conference 2002



Important Role for People Who Love Plants © Education and Advocacy Gain an <u>awareness</u> of the role your regional native plants play in our gardens, the suburban/rural interface, agriculture lands, and remnant habitats

What is a Native Plant?

 Plant species that occur naturally (evolved) in a particular region, state, ecosystem, and habitat without direct or indirect human action

(Federal Native Plant Conservation Committee, 1994)



Willamette Valley Larkspur – WV, Oregon <u>native</u> species



Common Dandelion -

Most Compelling Value of Native Plants is BIODIVERSITY!

Plants provide food for bugs

Plants provide food for caterpillar stage of months and butterflies





Plants offer great views for bug whoopee ©

NATIVE PLANTS

PROVIDE...









NESTING SITES













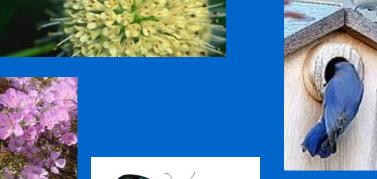




SPECIES DO NOT PROVDE THESE RESOURCES































INVASIVE
SPECIES DO
NOT PROVDE
THESE
RESOURCES





RESULT LOSS OF NATIVE PLANT HABITAT CAN HAVE ENOURMOUS IMPACTS ON BIODIVERSITY



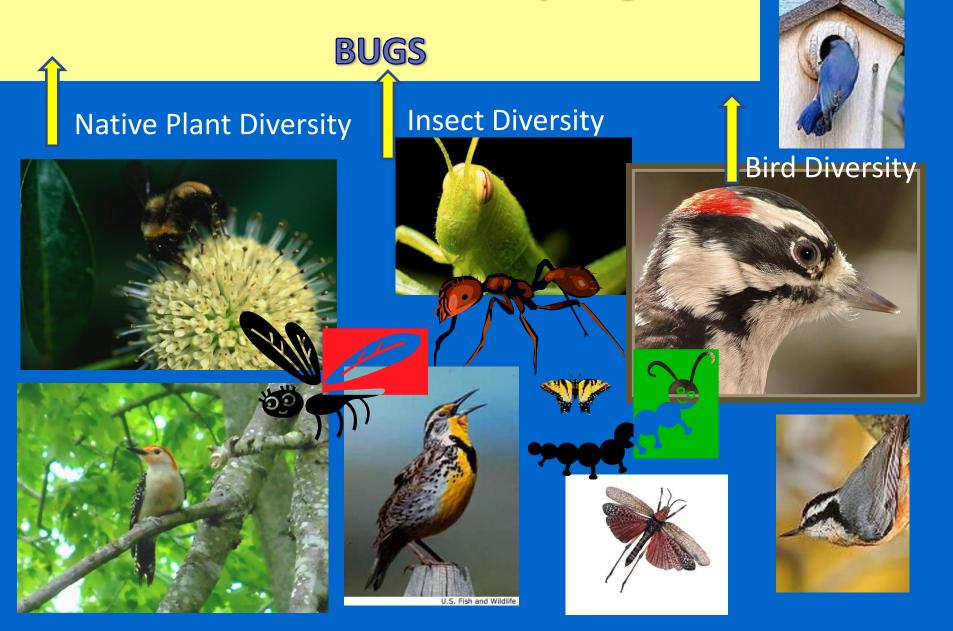
Non-native plants, especially invasive species are STATUES!





Studies by entomologist Dr. Douglass Tallamy have shown; non-native plants DO NOT host the diversity of insects (some don't host any) that native plants do!!!

96% of terrestrial birds rear young on



PLANT LOSS CAN LEAD TO <u>CRITTER LOSS</u> IF A CO-EVOLVED SPECIALIST





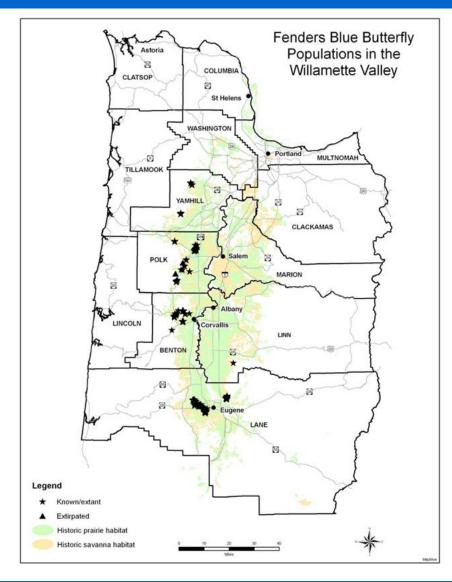
Narrow endemics Kincaid's Lupine & Fenders Blue Butterfly

– <u>both</u> listed as Endangered

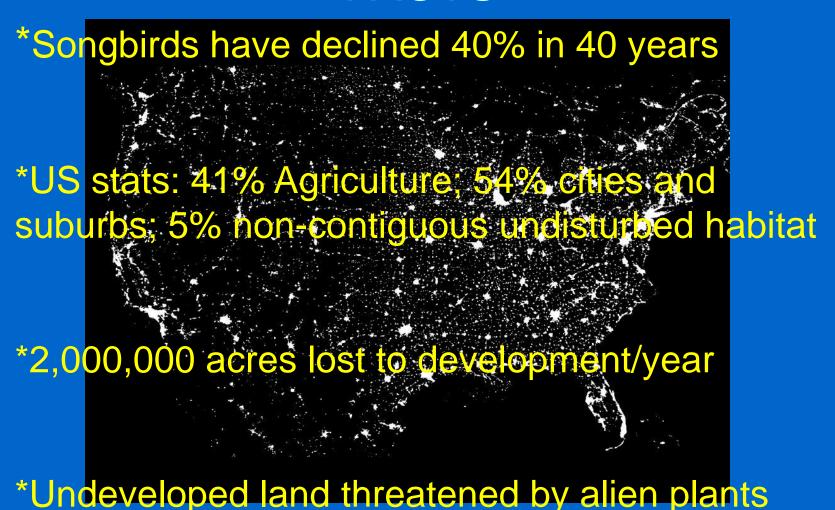




DOUBLE WHAMMY – NARROW DISTRIBUTION AND PICKY EATER



Suburbia and Urban/Rural interface—potential haven for biodiversity! FACTS





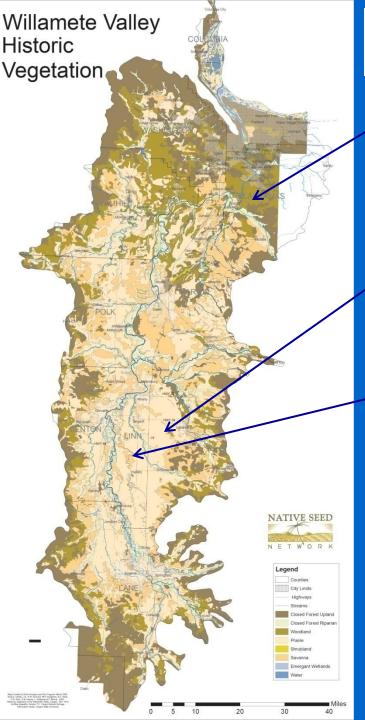
One small action such as planting native oak treeS

You may not think the **ecological value** will be realized until they are old and producing acorns, lichen, and mistletoe - and you are long -gone

But even young trees are <u>magnets</u> for insects and caterpillars and help songbirds fuel up for migration



Prior to 1850 the Willamette Valley eco-region was mostly open prairie and savanna

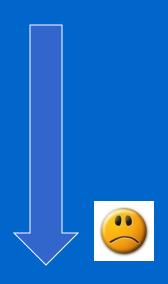


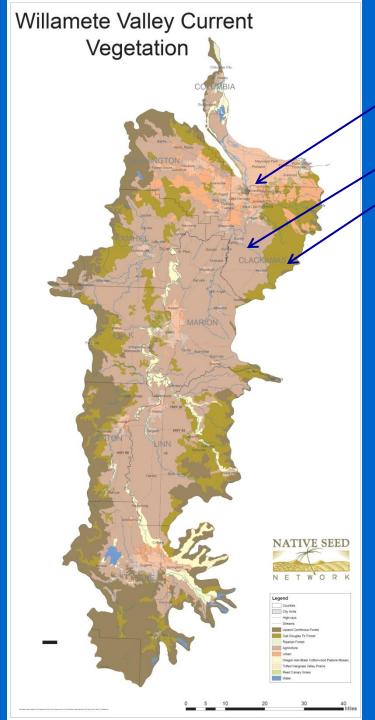
Green = woodland

Light peach = open prairie

Dark peach = oak savanna (large oaks in open prairie)

There is less than 1% Willamette Valley Prairie left!





Pink=Urban

Mauve = Agriculture

Green =Forest

Where's the Peach????

What prairie is left is degraded with lots of non-native species and noxious weeds

Loss of Prairie Species

Devastating to our Willamette Valley Ecoregion Diversity









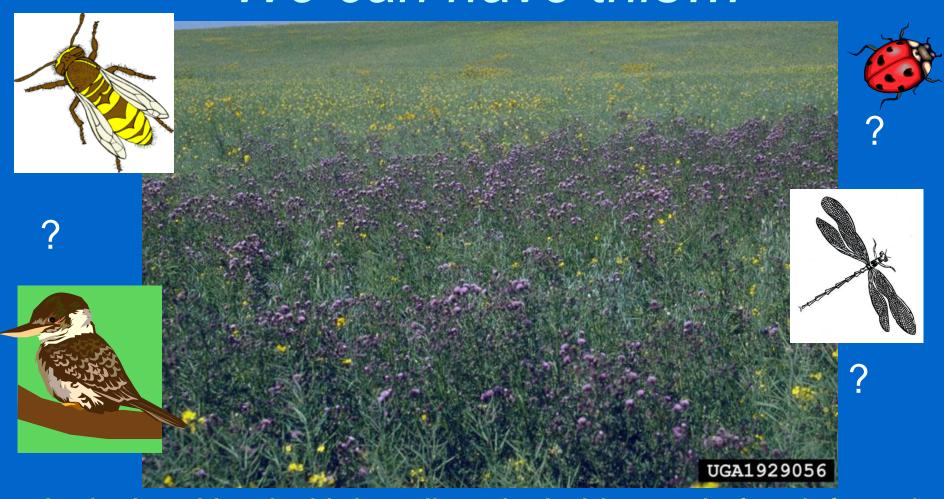
Native Plant and Habitat Work at Heritage Seedlings

- Restoration of over 250 acres of upland prairie and oak habitat on two farms
- Restoration of over 50 acres of riparian habitat on three farms
- Native Seed Production of over 120 species [including 8 T&E species] for use on restoration projects throughout the Willamette Valley
- Native plug production for various agencies



Our Choice - We can have this...





Agricultural land with low diversity habitat and often infested with invasive species

Or this!





Agricultural land converted to native, high diversity habitat

Our Choice - We can have this...



Roadsides with low diversity habitat and often infested with invasive species

Or this!



Roadsides seeded with native grasses and wildflowers providing high diversity habitat

Our Choice - We can have this...



Landscapes and parks with NO DIVERSITY and high input, water & chemical sucking lawn

Or this!



Landscapes and parks with high habitat diversity and low in-put native plants

Native Landscapes are Better Habitat for Humans Too!!!





STERILE to the soul!





Plants sustain our lives. Whether they are filtering the air we breathe or surrounding us in the beauty that is nature, plants nourish and heal our souls and our bodies. San Francisco Garden Show 2015





http://oregonexplorer.info/willamette/



Keeping and Creating room for wild nature – for many (including me) it's a moral imperative

Our choice

Will we grow up or out?????



Building Awareness and Support for Native Plants

- Encourage local governments to support the protection and use of native plants in new developments, park lands, open spaces where appropriate
- Don't just use them, but <u>educate</u> the everyone you know as to their role in the landscape
- WV Cities and Counties currently using and protecting native plants:
 - Portland, Lake Oswego, McMinnville, Eugene,
 Corvallis, Benton Co, Lane Co, Washington
 Co

Roadsides are particularly vulnerable -



Roadside near Aumsville

Sidalcea campestris (tall checkerbloom

Farmer sprays edge of grass field

County sprays wider than usual band (typically 2 ft from edge in gravel)

Dept. of Transportations Increasingly Adopting Protection and Use of Native Plants on Roadsides

- Reduce maintenance costs
- Increase bird and pollinator habitat
- Improve erosion control
 - use of hardy perennials key!
- Enhance aesthetics
- Develop partnerships with natural resource professionals and volunteers
- Demonstrate commitment to environment

Increasing Involvement by Private <u>Landowners</u>

- Landowner's Guides and Programs for Restoring Oregon's endangered habitats
 - Most endangered habitats are on private land
 - Soil and Water Conservation Districts, Watershed Councils, NRCS, ODWF, USFW, Defenders of Wildlife
- Biodiversity Partnerships
 - Conservation priority areas
 - Defenders of Wildlife, TNC, Oregon Natural Heritage Program
- Willamette Partnership
 - Development mitigation at the ecosystem level
 - Leaders in conservation, urban planning, business, industry, agriculture

Great Resources for Learning

- Bringing Nature Home, by Douglass Tallamy
- Metro Backyard Habitat Program
- Columbia Land Trust Backyard Habitat Program (really helpful!)



Great Resources for Learning

- Oregon Flora Project
 - Wildflower app (1,250 sp!)
 - Photo Gallery





- Inform gardeners and landscapers about native plants
- Further develop the native plant market



Great Resources for Learning

 Native Plants of the Southern Willamette Valley: a Resource List for Homeowners and Professionals [Salix Associates – "resources page"]



Bruce Newhouse's home (Salix Director) ©



Education is <u>vital</u> BUT <u>ACTIONS</u> SPEAK LOUDER THAN WORDS

Install a native plant component to your project area

Your BACKYARD HABITAT may not attract Western Meadowlark BUT BY.....

- Including educational signage
- Getting people involved with the upkeep
- Connecting your site to the habitat needs of your region (in this example prairie) AND
- Advocating for its protection and restoration.....

You can help bring the Oregon State Bird back to the Willamette Valley in meaningful numbers!!!!

Great Resources for Buying

OREGON FLORA WEBSITE GARDENING WITH NATIVES PLANTS PAGE

http://www.oregonflora.org/gardening.php

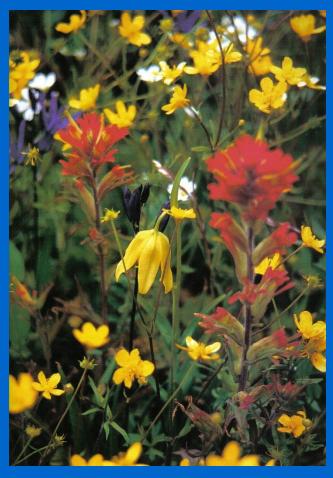
- Native Plant Vendor List
- Native Plants by Vendor Table and Contact Info
- Sortable Table by Vendor Showing Plants they Carry
- •Future Information: search by plant characteristics (plants type, flower color, height, water needs etc) so you can plan your landscape

Great Resources for Buying

- Plantnative.org [lists vendors by state and city]
- Native Seed Network [list of seed vendors and ecoregion specific plant lists]
- Soil and Water Conservation District plant sales

Vendors will often donate to public space projects!

Using Native Plants builds support for protection of special places



TNC Yellow Island Reserve



Bufford Park, Eugene

Have I listed all values or are there others????

