The Art, Science, and Humility of Restoration

Region 6 Restoration Services Team



Lee Riley
Horticulturist/Restoration Specialist
Dorena Genetic Resource Center

Lynda Moore
Botanist/Restoration Specialist
Regional Office







Scott Riley
Botany (RO-DES)



Lee Riley
Plant Materials
(DGRC)



Lynda Moore
Botany (RO)



R6 Restoration
Services Team and
Training Cadre



Vicky Erickson Genetics (RO)



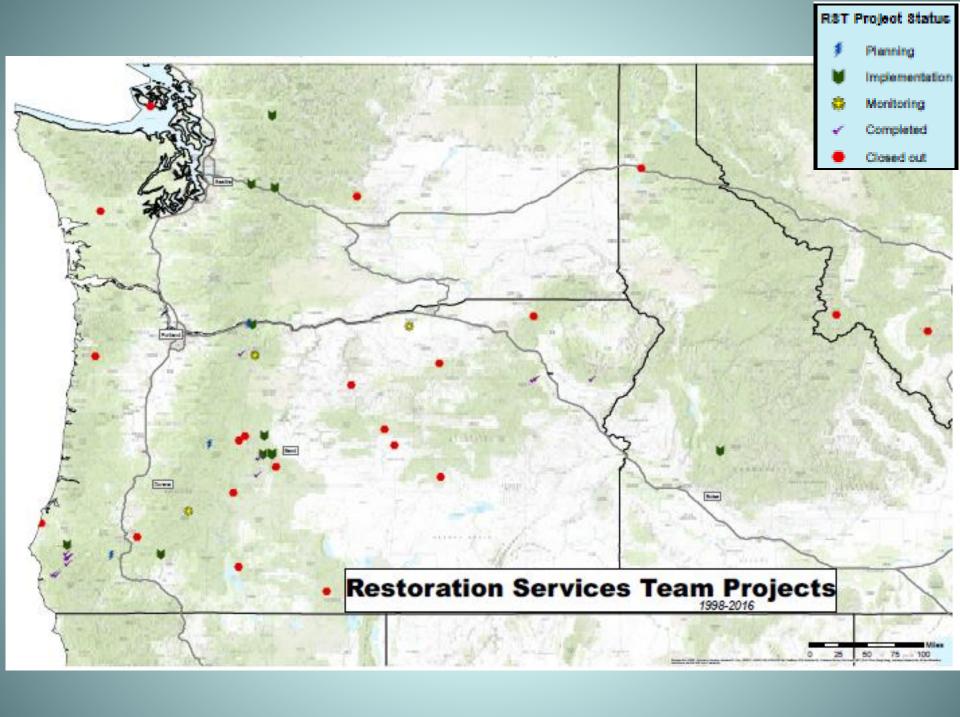
Matt
Horning
Genetics (DES)



Helen Lau
Botany (OKAWEN)

Interdisciplinary Reveg Projects





A Collaborative Approach



U.S. Department of Transportation

Federal Highway Administration





















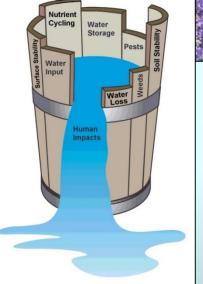


Planning

Soil Surveys
Vegetation Surveys
Limiting Factors
Site Resources
Plant Material Needs







Revegetation Plan

HISTORIC COLUMBIA RIVER HIGHWAY STATE TRAIL-SEGMENT D REVEGETATION PLAN

MAY 2015

Western Foderof Lands Highway Division 620 East Fifth Street, Timesquive 203 (006)

Implementation

Seed and Vegetation Collection Plant Materials Outplanting Assistance



Revegetation
Plan

HISTORIC COLUMBIA RIVER HIGHWAY STATE TRAIL-SEGMENT D REVEGETATION PLAN

MAY 2015

Monitoring

Transect Fixed Photo Point



Year 3

Revegetation Revegetation Plan

HISTORIC COLUMBIA RIVER HIGHWAY STATE TRAIL-SEGMENT D REVEGETATION PLAN

MAY 2015

Western Fisheral Lands Highway Division 620 East 10th Street, Timenage 303 90667

Studies Design Implementation Measurements/Reports







Dorena Genetic Resource Center

Lisa Winn, Manager

Blister rust screening





Port-orford cedar seed orchard





Tree Climbing

Dorena Genetic Resource Center



Lee Riley, Horticulturist



Plant Materials



Propagation Protocols

Collection and Outplanting

R6 Bend Seed Extractory

Kayla Herriman, Manager

Seed Extraction

Freezer & granary seed storage

Seed inventory database

Seed testing & shipping

Training and consultations





Native Seed and Plant Production at Forest Service Nurseries



J. Herbert Stone Nursery (Medford, OR)





Lucky Peak Nursery (Boise, ID)



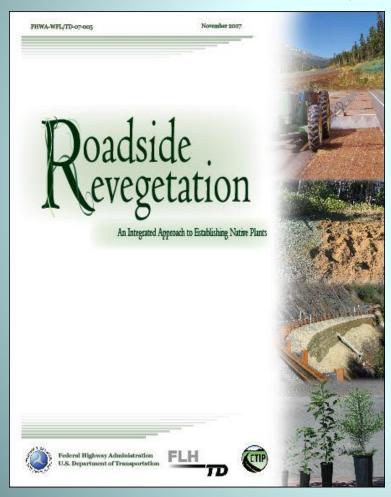


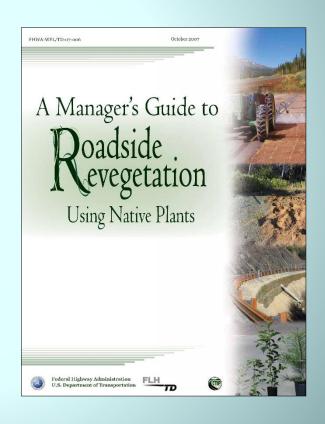




Roadside Revegetation: An Integrated Approach to Establishing Native Plants

David Steinfeld, Scott Riley, Kim Wilkinson, Tom Landis, Lee Riley





Improving Best Management Practices

Native Species for Pollinators





Application to seeds and soil



Incorporate into treated or amended ditches



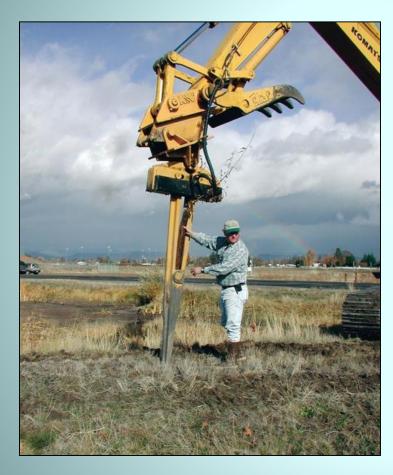
Amended planting areas



Design into bioswales

Improving Best Management Practices

Planting Techniques





Waterjet planter

Expandable Stinger

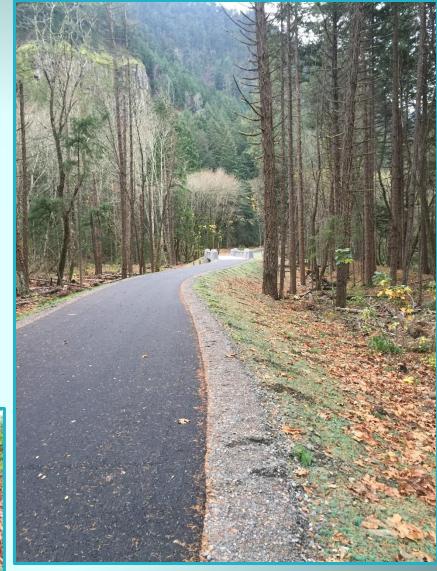












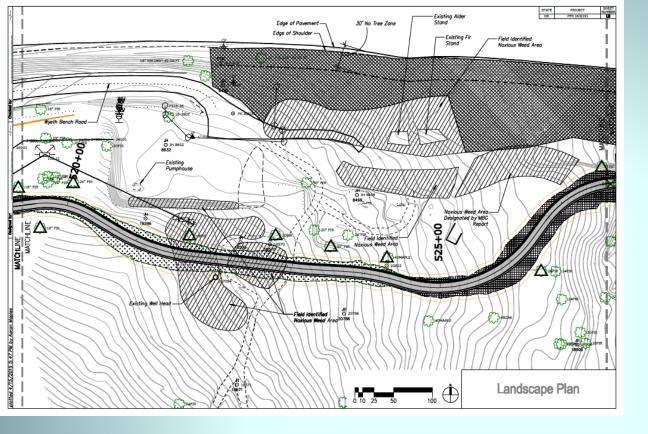
Historic Columbia River Highway State Trail 'D'





Historic Columbia River Highway State Trail 'D'





- Early involvement
- Agency insight
- Suite of plants to support pollinators
- Endemic hawkweed (Hieracium longiberbe)

Historic Columbia River Highway State Trail 'A-C'





Historic Columbia River Highway State Trail 'A-C'







Banks to Lowman Rockfall Mitigation Project





WADOT I-90 Restoration







City of Bend Water Pipeline Project Riparian and Wetland Restoration



Construction under Tumalo
Creek and through associated
wetland



City of Bend Water Pipeline Project Riparian and Wetland Restoration



City of Bend Water Pipeline Project Riparian and Wetland Restoration



Lynda Moore

Botanist/Restoration Specialist Regional Office lyndamoore@fs.fed.us

Lee Riley

Horticulturist/Restoration Specialist Dorena Genetic Resource Center leriley@fs.fed.us

Region 6 Restoration Services Team







The preceding presentation was delivered at the

2017 National Native Seed Conference

Washington, D.C. February 13-16, 2017

This and additional presentations available at http://nativeseed.info





