



# Invasive Plants

## Program Accomplishments



Eradicating the Aquatic "Class A" Noxious Weed *Yellow Floating Heart* with bottom barrier installation

**Fiscal Year  
2012**

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# Pacific Northwest Region

## 2012 NFS Invasive Plant Accomplishments

The Pacific Northwest Region experienced substantial challenges managing invasive plants in FY 2012. Despite these challenges, we were able to treat 52,968 acres using 20 different funding codes.

Other Regional highlights include:

- Completing another invasive plant EIS and Record of Decision covering two forests (Deschutes and Ochoco).
- Invasive European beachgrass (*Ammophila arenaria*) was chemically treated to improve nesting habitat for threatened western snowy plover. Anticipated results are reduced cost and increased effectiveness compared to past mechanical treatments.
- Treated invasive plants in meadows to benefit Mardon Skipper butterfly, a candidate for listing under the Endangered Species Act, with the US Fish and Wildlife Service and other partners.
- Surveyed more than 20 waterbodies for aquatic invasive species. One site of Eurasian watermilfoil was confirmed through DNA analysis.
- Cooperated with over 130 different partners.
- Worked with the High Desert Museum on the display *Invasive Pervasives*, which reached 155,000 visitors.
- Cooperated with the Pacific Northwest Invasive Plant Council EDRR program to have high priority trails surveyed by trained volunteers.



Figure 1. Learning about reed canarygrass (*Phalaris arundinaceae*).



Figure 2. Dalmatian toadflax (*Linaria dalmatica*) and bio-control, toadflax stem weevil (*Mecinus janthinus*, inset)

- Observed significant eradications and reductions of Dalmatian toadflax infestations (> 98% reduction) in several Oregon forests due to the release and spread of the bio-control, *Mecinus janthinus*.
- Surveyed 2,755 acres and treated 91 infestations of yellowtuft alyssum, a new invasive in North America, totaling 140 acres.
- Presented our Regional Invasive Plant Manager of the Year award to Barbara Mumblo on the Rogue River-Siskiyou NF.

### Challenges

- Budget reductions
- 2012 had a late, wet spring and cool temperatures, shortening the treatment season, and road washouts prevented access to sites.
- Plans continue for extensive planting of *Arundo donax* for biofuel in Oregon.
- The court found that the Wallow-Whitman had done an inadequate analysis of cumulative effects and we will have to issue a Supplemental EIS.

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**Pacific Northwest Region**  
Natural Resources  
PO Box 3623  
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# Pacific Northwest Region

## 2012 State & Private Invasive Plant Accomplishments

Region 6 has excellent relationships with our State and private partners when it comes to invasive plant work and 2012 was another very successful year.

Our primary partners for Forest Health Protection invasive plant funding are the Oregon and Washington Departments of Agriculture, and the Oregon Department of Forestry. In addition, we partner with Deschutes County in Oregon. Our cooperative work allows efficient treatment, survey, inventory, education and outreach activities to benefit the lands and citizens of both states as well as nearby National Forest System lands. Treatments of existing infestations are conducted across ownership boundaries, resulting in effective management of the weed populations.

### Accomplishments highlights for FY2012 include:

#### Deschutes County

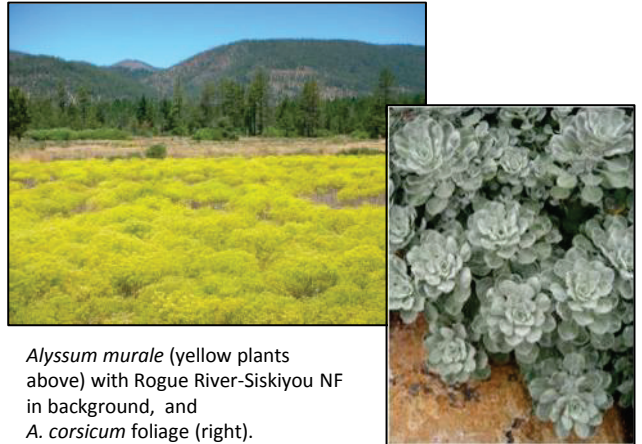
- Conducted 29 inspections totaling 2,454 acres of hay and straw fields, allowing growers to obtain “weed free” certification.

#### Washington Department of Agriculture

- Supported Noxious Weed Control Boards in 8 counties.
- Treated all knotweed sites in Franklin County and all known yellow starthistle sites in Chelan County.
- Supported the Washington Invasive Species Council.
- Supported statewide biocontrol program including release and monitoring of biocontrol agents.
- Supported early detection / rapid response efforts in four counties.
- Developed and printed 5 new EDRR postcards.



Jennifer Andreas, WSU Extension, inspecting biocontrols on Dalmatian toadflax.



*Alyssum murale* (yellow plants above) with Rogue River-Siskiyou NF in background, and *A. corsicum* foliage (right).

#### Oregon Department of Agriculture

- Updated the “WeedMapper” online database.
- Supported statewide biocontrol program, including release and monitoring of biocontrol agents and studies on new agents.
- Supported the statewide weed free forage program which certified 3,191 acres of hay and straw.
- Conducted 97 monitoring activities and 58 treatment projects.
- Conducted 57 education and outreach activities.
- Supported the Oregon Invasive Species Council.
- Continued support for eradication efforts on a new invader to North America, *Alyssum corsicum*, and its close ally, *A. murale* in southern Oregon.

#### Oregon Department of Forestry

- Treated approximately 342 acres of noxious weeds on forest lands in western Oregon.

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**Pacific Northwest Region**  
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# Columbia River Gorge National Scenic Area

## 2012 Invasive Plant Accomplishments

### Highlights for invasive plants work include:

Balfour/Klickitat, Collins Slide and other restoration efforts continue to have weed control work completed to ensure native planting success and to control knotweed and other key weeds. Some of this work is in critical western pond turtle habitat. These efforts include over 80 acres.

Six counties within the CRGNSA continue to work collaboratively with us to control weed infestations at various locations throughout the Gorge. Funding for this work comes through RAC, from state grants and from NFVW and WF. Several partnerships are critical, such as with WIPA and EMSWCD. These efforts are addressing infestations of Garlic Mustard, Ivy, and False brome to name a few.

The Columbia Gorge Cooperative Weed Management Area implemented a very successful Early Detection / Rapid Response project. The result was the protection of sensitive habitats on state, local and federal land by reporting existing weed data to a single database, inventorying 40 priority sites, holding four "Weed Watcher" trainings and installing boot brushes and signs at 25 key trailheads. This project was even featured on Oregon Field Guide:

[www.opb.org/programs/ofg/segments/view/1836](http://www.opb.org/programs/ofg/segments/view/1836)

### Contact:

Robin Dobson: 541-308-1717  
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Brett Carre: 541-308-1718



Figure 1. Example of a boot brush station and sign along a trailhead to reduce transport of weed seeds to uninfested areas.

### 2012 Accomplishments

Acres	Fund Code	Activity
500+	NFXF	Restoration
45	NFWF	Restoration
65	NFVW	Weed Control
110	NFVW HF SPS4	Restoration

### Partners/Cooperators

COE, BPA, WDFW, FOG, Ashcreek Forest Mgt, LCEP, OR State, CGEI, WIPA, EMSWCD, and 5 (Skamania, Klickitat, Wasco, Multnomah, Hood River) counties.



### Columbia River Gorge NSA

902 Wasco Ave., Suite 200  
Hood River, OR 97031

# Deschutes National Forest

## 2012 Invasive Plant Accomplishments

The Deschutes NF Invasive Plant Program had a very successful year. Control, surveying, and working with partners remain the emphasis.

Highlights include:

- Signed a Record of Decision for *Invasive Plant Treatment*, an integrated treatment project which includes the use of herbicides and early detection/rapid response. Began implementation in September, completing 697 acres of invasive plant control using herbicide.
- Conducted surveys on 14 waterbodies throughout Central Oregon for aquatic invasive species. One site of Eurasian watermilfoil were confirmed through DNA analysis.
- Volunteers contributed 1,298 hours surveying and controlling noxious weed infestations, and revegetating disturbed areas to prevent noxious weeds.
- Worked with the High Desert Museum on the display *Invasive Pervasives*, which reached 155,000 visitors.
- 78 acres were seeded with native plants to prevent noxious weed establishment.
- 5,525 acres and 90 miles of weed surveys were completed on roadsides, wildfires, and project areas.
- Approximately 492 people were reached through 39 hours of public meetings, trainings, and field trips.
- Implemented an integrated strategy to control/contain 6,094 acres of invasive plants; including: 1,928 acres with herbicide; 4,166 ac manual; 0.1 ac solarization of orange hawkweed.



*Volunteers plant native species to prevent noxious weed invasion (National Public Lands Day)*



*Desiree Johnson is suited up for aquatic invasive surveys*

### 2012 Accomplishments

Acres treated = 6,094

USFS Invasives funding = 4,862 ac.

Title II = 341 ac.

Collaborative Forest Landscape Restoration = 847 ac.

Other USFS funding = 44 ac.

Total Funding = \$275,977

USFS Invasives funding = \$192,390

Title II = \$50,304

Collaborative Forest Landscape Restoration = \$28,000

Other USFS funding = \$5,800

### Partners/Cooperators

Gilchrist School, Rosland Elementary, Wolftree, LaPine Elementary School, Northwest Youth Corps, Youth Conservation Corps, Heart of Oregon Corps/Americorps, National Forest Foundation, Deschutes County Sheriff's Office, Deschutes County Weed Board, Camp Sherman Weed Warriors, Earthwood Homes, City of Sisters, High Desert Museum, Sisters High School, Youth National Guard, Friends of the Metolius, Crooked River WMA, Oregon Department of Agriculture, Jefferson County, Deschutes County, Oregon Department of Transportation.

Contacts:

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**Maret Pajutee**, Sisters RD (541.549.7727);

**Christina Veverka**, Crescent RD (541.433.3234);

**Marlo Fisher**, Bend/Ft. Rock RD (541.383.4743)



**Deschutes National Forest**

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# Fremont-Winema National Forests

## 2012 Invasive Plant Accomplishments

### Accomplishment highlights include:

#### Cooperative Projects:

- Treatment of FS and private lands on Winter Rim, Augur Meadow, Clover Flat, and Thomas Creek vicinity with the Lake County CWMA.
- Provided employment for 1 Integral Youth Services crew while treating 545.2 acres.
- Through an agreement with Lake County CWMA:
  - Multiple medusahead sites on NFS lands within the vicinity of other cooperative projects on private lands were surveyed and prepped for treatment in 2013.
  - Aerial survey for leafy spurge, medusahead, and musk thistle around the Goodlow Mountain RNA will be completed in 2013.

#### Treatment:

- Continued use of herbicide ID/IQ contract and agreement with Klamath County for herbicide application. Treated 1,149.3 acres with herbicide.
- Treated 860.9 acres manually through the use of force account crews.
- 216 new infestations discovered.
- 1,075 previously treated sites “inactive” in 2012.

#### Prevention:

- Provided input to 9 planning projects and 1 BAER report.
- Implemented prevention measures during underburn and timber sale projects.
- Inspected 32 pits/quarries.
- Surveyed 927 acres prior to timber sale implementation and approximately 3,300 acres for new sites.



Figure 1. Force account crews performing manual control on musk thistle within the 2002 Winter Fire.

### 2012 Accomplishments

Acres	Fund Code	Activity
1,214.3	SRS2	Title II
1,028.5	NFVW	Base Program
276.2	CFLN	Collaborative Forest Landscape Restoration
36.4	NFXN	Grants (Mule Deer Foundation) Ruby Pipeline
<b>2,555.4</b>	<b>TOTAL</b>	

#### Partners/Cooperators

ODA, Klamath County, Integral Youth Services, Lake County CWMA, Mule Deer Foundation.

**Contacts:** Lucas Phillips – 541-947-6251  
Missy Anderson – 541-783-4085  
Jeannette Wilson – 541-576-7593



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# Gifford Pinchot National Forest

## 2012 Invasive Plant Accomplishments

### Invasive Plant Target Accomplishments:

2012 was the biggest year ever in controlling invasive plants. District Weed Coordinators did an outstanding job of treating infestations and working with partners. We treated a total of 8,238 acres implementing our site specific EIS on the forest, 2,965 acres of chemical treatment and 5,273 acres of manual treatment.

**Education and Outreach:** *A variety of events, and field visits reached more than 4,500 people.*

### Events included:

- Weed rodeo at Mt St Helens National Volcanic Monument.
- Invasive information at Sturgeon Festival, Get Outdoors Day, Old Apple Festival, Earth Day, Portland Sportsman Show, Cowlitz Valley fishing Day, and Mt. Adams Fishing Day – 2000 people.
- Created Invasive Information Boards at forest and district offices, recreation sites and trailheads - 2500 people.

### Invasive Plant Surveys:

- 6,000 acres were monitored within treatment areas.

### Additional forest projects:

- **Integrated project on the Muddy River** utilized partner support from Mt St Helens Institute and Skamania County to control Scotch broom in the Muddy River watershed.
- **Invasive treatment at Wind River Nursery Fields** with Rocky Mountain Elk Foundation funding improved elk forage.
- **Invasive treatments in meadows to benefit Mardon Skipper** - with US Fish and Wildlife Service, Skamania County and Klickitat County weed groups to treat invasives at Cave Creek, Lost Meadows and Lost Creek meadows.

### The invasive staff participated in the 10 year Wilderness Challenge.

The district invasive leads created and implemented teaching module for Wilderness Invasive plant survey team and completed the specialist input / report for the Wilderness Information Needs assessment. A survey crew completed a survey on the major trails and heavy dispersed use areas in 7 wildernesses.

Initiated treatment of English holly at Cowlitz Valley admin sites that was spreading into the Forest.

Cooperated with the Nisqually River CWMA, Pierce County Conservation District, and White Pass School District to send Cowlitz Valley Discovery Teams to help with **knotweed bending**, in preparation for herbicide treatment, on previously untreated infested areas of the Nisqually watershed.

Identified a **new invasive species of hawkweed**, *Hieracium murorum*, not previously found on the Forest, in the Nisqually watershed.

**Coordinated lake survey** on high use lakes by the aquatics and terrestrial groups. No aquatic invasive were found.



RMEF Mouse eared hawkweed survey, Toutle River, Mt St Helens National Monument

### 2012 Accomplishments

<b>Expenditures:</b>	<b>\$ 398,049 Total Funding</b>
\$ 157,000	Base Program (NFVW)
\$ 53,000	Timber Sale Collections (CWKV)
\$ 182,149	Title II (RAC)
\$ 4,400	US Fish & Wildlife
\$ 1,600	Rocky Mountain Elk Foundation

**Partners/Contractors/Coop:** Mt St Helens Institute, Rocky Mountain Elk Foundation, US Fish and Wildlife Service, Gifford Pinchot Task Force, Cowlitz, Pierce, Lewis, Skamania and Klickitat Counties Weed Control; Washington Department of Transportation, Cowlitz Valley Discovery Team, White Pass School District, Nisqually River CWMA.

### Contacts:

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Jennifer Deshong South Zone Tech;  
Ken Meyer Data Steward 360-891-5013



**Gifford Pinchot National Forest**

10600 NE 51<sup>st</sup> Circle  
Vancouver, WA 98682



# Malheur National Forest

## 2012 Invasive Plant Accomplishments

### Accomplishment highlights include:

- Treated 39 acres from 95 infestations with mechanical treatment (mowing/ pulling/ grubbing); completed by Forest Service personnel and partners.
- Monitored 34 acres from 93 infestations to determine effectiveness of recent mechanical treatments.
- Continued to make substantial progress on the Invasive Plant EIS effort with TEAMS Enterprise.
- Updated and completely reanalyzed the Forest-wide inventory of invasive plants: over 2000 acres across 3000 sites were reanalyzed for the EIS effort.
- Observed significant eradications and reductions of Dalmatian toadflax infestations (> 98% reduction) across the Forest and adjacent areas due to the release and spread of the bio-control, *Mecinus janthinus* (Figure 1).



Figure 2. Houndstongue (*Cynoglossum officinale*), a significant invasive plant on the Malheur NF.



Figure 1. Dalmatian toadflax (*Linaria dalmatica*) and bio-control, toadflax stem weevil (*Mecinus janthinus*, inset)

### 2012 Accomplishments

<u>Acres</u>	<u>Fund Code</u>	<u>Activity</u>
39	NFWW	Mechanical treatments of invasive plants
34	NFWW	Monitoring of invasive plant treatments

**Partners/Cooperators:** Confederated Tribes of Warm Springs, Harney County, The Nature Conservancy, Oregon Department of Agriculture, Oregon Department of Transportation.

**Contact:** Joseph Rausch 541-575-3141



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John Day, OR 97845

# Mt. Baker-Snoqualmie National Forest

## 2012 Invasive Plant Accomplishments

### Accomplishment highlights include:

- Mt. Baker-Snoqualmie National Forest treated and accomplished in FACTS 2,134.5 acres, primarily accomplished through the work of partners listed here and the addition of a new seasonal invasive plant biological technician.
- 55% of the treated acres were monitored in 2012 and monitored sites had an average control efficacy of 86%.
- Volunteers contributed over 2,567 hours controlling, surveying and mapping noxious weed infestations and conducting site restoration (Figure 1 and Figure 2).
- Outreach projects and presentations engaged 386 youth and adults.
- Adopted survey protocol and continued inspection of FS and commercial stockpiles/quarries, in conjunction with county weed staff, and assessed for weed-free status.
- Continued Invasive Plant Treatment NEPA EIS.
- Achieved approximately 83% control of knotweed species from FY11 within Glacier Creek and Upper Nooksack River on the Mt. Baker Ranger District. All sites re-treated in FY12, including more miles surveyed this year than any other since start of project.
- 86% of all knotweed patches within Sauk River (Skagit Wild and Scenic River system) have been eliminated, protecting 1,813 acres of floodplain in the upper basin on the Darrington Ranger District. 40% reduction of new patches detected in FY12.



Figure 1. North American Packgoat Association after a day of pulling and eating spotted knapweed at Ranger Creek Airstrip.



Figure 2. Northwest Youth Corps pulling weeds in Wild Sky Wilderness.

### 2012 Accomplishments

Acres Treated = 2,134.5

NFWW = 657.2 acres, CMRD = 58 acres, CWKV = 41.4 acres, CONT = 620.2 acres, SRS2 (RAC) = 720.7 acres, and OFED = 36 acres.

### Partners and Cooperators

Whatcom, Skagit, Snohomish, King, Pierce, and Kittitas County Noxious Weed Boards, Washington State Department of Transportation, WSU integrated Weed Control Project, Skagit Fisheries Enhancement Group, Mountains to Sound Greenway Trust, Puget Sound Energy, InterIM WILD program, Middle Fork Snoqualmie and Alpine Lakes Wilderness Weed Watchers, Ryther Group, Washington Department of Natural Resources, Northwest Youth Corps, North American Packgoat Association, The Mountaineers, National Forest Foundation, Seattle Parks and Recreation Outdoor Opportunities, Skagit River System Cooperative.

### Contacts:

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Laura Potash, Botany Program Manager 425-783-6043

Shauna Hee, North Zone Botanist 425-854-2635



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# Mt. Hood National Forest

## 2012 Invasive Plant Accomplishments

In 2012, the Mt. Hood National Forest successfully implemented its fifth year of noxious weed treatment and prevention since signing the *Site-Specific Invasive Plant Treatments* FEIS in March 2008.

**Accomplishment highlights include:**

- Treatment of Japanese knotweed, orange hawkweed, spotted & diffuse knapweed by state-certified herbicide applicators under formal Agreements with three cooperators.
- Second year of multi-agency coordinated response to Garlic mustard found within one mile of the Forest Boundary.
- Noxious weed surveys and treatment conducted on roads scheduled for decommissioning.
- Invasive plant displays at county fairs and Ranger District open houses.
- Environmental education in conjunction with hand removal of noxious weeds with Youth Conservation Corps (YCC), Northwest Service Academy, Portland Urban League, Catlin Gable school, and other local school students.
- Major survey/treatment effort by ODA to control orange hawkweed (*Hieracium aurantiacum*) near Lolo Pass.



Figure 1. FS employee removes Spotted Knapweed (*Centaurea maculosa*) from a riparian restoration area. (photo by L. Cartwright)



Figure 2. Mt. Hood National Forest employee treating Orange Hawkweed (*Hieracium aurantiacum*), 2012 (photo by C.Wesseler).

### 2012 Accomplishments

Acres	Fund Code	Activity
881	NFWW	Invasive plant treatment
231	SRS2	Title II funding
20	CWKV	Invasive plant treatment
90	SSCC	Retained receipts
34	WFHF	CCS funding
<b>1,256</b>	<b>TOTAL</b>	Weed Acres treated

### Partners/Cooperators:

Oregon Department of Agriculture; Oregon Department of Transportation; Wasco, Hood River, Clackamas, and Multnomah Counties; Hood River SWCD; Sandy River Basin Watershed Council; Portland Water Bureau; Columbia Gorge Cooperative Weed Management Area.

### Contacts:

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David Lebo (503) 622-3191



**Mt. Hood National Forest**  
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Sandy, OR 97055

# Ochoco National Forest and Crooked River National Grassland

## 2012 Invasive Plant Accomplishments

The Ochoco National Forest and Crooked River National Grassland Invasive Plant Program had a very successful year. Highlights include:

- Signed a Record of Decision for *Invasive Plant Treatment*, an integrated treatment project which includes the use of herbicides and early detection/rapid response. Began implementation in September, completing 114 acres of invasive plant control using herbicide.
- Accomplished 97 acres of revegetation using native species for invasive plant prevention.
- Educational programs - Over 300 people were reached through 59 hours of public meetings, events, educational programs, and field trips.
- Volunteers put in 66 hours controlling noxious weed infestations, surveying, and setting up monitoring plots.
- Implemented an integrated strategy to control/contain 4,258 acres of invasive plants.

Methods included:

- 2,312 ac of herbicide control
- 30 ac with biocontrol agents
- 1,916 ac manual control
- 70 ac and 39 miles of invasive plant survey



*Medusahead removal from The Island Research Natural Area, Crooked River National Grassland*



*Learning about reed canarygrass (*Phalaris arundinaceae*)*

### Contacts:

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 Krista Lopez, Paulina RD, 541-416-6635  
 Mark Lesko, Lookout Mountain RD & Crooked River NG, 541-416-6416

### 2012 Accomplishments

Fund Type	Funding	Acres Accomplished
USFS funding	\$153,856	3,173.2
Title II	\$ 50,628	864.1
Partner funding	\$ 5,000	61.6
Other USFS	\$ 20,731	65.9
Contributed	\$ 0	93
Total	\$230,215	4,257.8

### Partners/Cooperators

Northwest Youth Corps, Redmond Proficiency Academy, Friends and Neighbors of the Deschutes, Youth Conservation Corps, Rocky Mountain Elk Foundation, Blue Mountain Elk Initiative, Heart of Oregon Corps, Jefferson County Community Justice, Wheeler SWCD, Crook County Weed Control, Oregon Department of Agriculture, Jefferson County Weed Control, Grant SWCD, Crooked River Weed Management Area, Oregon Department of Transportation, Bureau of Reclamation, Western Federal Lands Highway Division, Western Wildland Environmental Threat Assessment Center



### Ochoco National Forest

3160 NE 3<sup>rd</sup> St.  
 Prineville, OR 97754

### Crooked River National Grassland

813 SW Highway 97  
 Madras, OR 97741

# Olympic National Forest

## 2012 Invasive Plant Accomplishments

In 2012, the Olympic National Forest successfully treated a total of 867 acres of weeds on the Forest, which is over 140% of target. Over two-thirds of these acres were accomplished with Title II funds, with almost all of the actual treatments being done by our four County Weed Boards.

Other accomplishment highlights include:

- Inventoried over 65 recreation residence lots in the Quinault area of the Forest for weeds, and contacted each cabin owner regarding weeds on their lots and what to do about them. Treated highest priority weed species on the lots. Inventory, outreach, and treatments were funded by Title II.
- Continued reed canary grass eradication efforts at the Pine Lake restoration site, including removal of almost an acres worth of landscape fabric which had been installed two years ago. Completed two separate herbicide treatments, and planted 10,500 graminoid plugs and 2000 live willow stakes. Project funded by Title II in FY12.
- Inventoried 20 rock pits, and completed 28 separate treatments at rock sources throughout the Forest. A total of 45 acres were treated in rock pits, which was funded by NFMG in FY12.
- Contractor treated 19 acres adjacent to planned pre-commercial thin projects that were heavily infested with everlasting peavine.
- Weed eradication and restoration efforts continue at Cranberry Bog Botanical Area.
- Treated a large infestation of Canada thistle in a series of meadows in the Buckhorn Wilderness. This treatment was completed by Clallam County and Olympic NF staff, and the Backcountry Horsemen.



Figure 1. WCC removing landscape fabric at Pine Lake. All bare ground shown in photo was previously occupied by reed canary grass at almost 100% cover. Live willow stakes planted last year are in foreground.

**Contacts:**

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Cheryl Bartlett, Botanist and Invasive Plant Program Coordinator, (360) 956-2283



Figure 2. Knotweed at a recreation residence lot at Lake Quinault.

### 2012 Accomplishments

Acres	Fund Code	Activity
599	SRS2	Title II
166	CMLG	Road Decommissioning
45	NFMG	Rock Pits
32	CWKV	Timber Sales
19	NFVW	PCT Peavine Eradication
6	NFWF	Cranberry Bog

**867 acres TOTAL**

### Partners/Cooperators

Clallam, Jefferson, Mason and Grays Harbor Counties Noxious Weed Control Boards; Washington Conservation Corps; Quinault and Skokomish Tribes; Skokomish Watershed Action Team, Backcountry Horsemen of Washington.



### **Olympic National Forest**

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Olympia, WA 98512

# Okanogan-Wenatchee National Forest

## 2012 Invasive Plant Accomplishments

This year was particularly challenging with the late, wet spring and cool temperatures, and road washouts preventing access to sites, and yet we accomplished a tremendous amount of work.

**Oka-Wen National Forest Invasives EIS:** IDT compiling the Draft EIS for completion in early 2013. ROD in late spring 2013.

### • 2012 Invasives Treatments

- 5,786 acres of herbicide treatments.
- 198 acres of manual control, principally handpulling low density invasive plant infestations.
- Biological controls placed on Dalmatian toadflax .

### • Invasives Inventories

- 9,250 acres, 61 road miles , and 9 miles of BPA powerline corridors were inventoried for the occurrence of priority invasive plants and new invaders.

### Invasive Species Monitoring

- Post-treatment effectiveness monitoring was completed on more than 50% of herbicide treated acres and manually treated areas.

### Invasive Plant Prevention and Rehabilitation

- Approximately 86 acres of seeding for ecosystem restoration purposes (mostly decommissioned roads and mine reclamation) as well as prevention of recurring invasive populations.
- 2 rock quarries, private and NFS lands, were inspected and certified as weed-free.
- District invasives coordinators worked with partners, stakeholders, and public agencies to implement Cooperative Weed Management Areas and International Cooperatives for aquatic weeds.
- Gold Creek pond rehab planting 7000 native plants with 3 work parties of 35 adults and 60 youth.

### NRIS INV Data Management & FACTS

- All data was entered into FACTS. The new NRIS/FACTS interface was taking too long.

### CWMAs

- The USFWS joined the Upper Yakima CWMA.
- The power line corridor was mapped for invasives.
- New areas and trails were mapped.

### Education

- Joint program with WSU. Biological control program for 25 high school students and 100 elementary school students.
- Invasive plant education & pulled Oxeye Daisy with 60 Ryther's students from Seattle.

### Weed Free Feed Education/Certification

- Inspected and certified 5 fields for certified Weed Free Feed for Permittee, BCH and Public use.
- Made frequent public contacts to educate on Weed Free Feed requirements

### Recommendations:

- Continue use of contracts, especially smaller local personal services contracts, RAC projects, and CWMA projects. Without these opportunities, our target would not be reached.



Figure 1. Cle Elum Ranger District new spray equipment .

**Year Awarded/Allocated:** FY2012

**Expenditures \$ 704,740 Total**

Base Program (NFVW) \$332,000

Timber Sale Collections (CWKV) \$1,500

Title II (SRS2) \$246,000

Others: Wildlife & Fish (NFWF), State & Private (SPFH)

**Partners:** Chelan County Noxious Weed Board, Washington State Noxious Weed Board, Washington State Department of Agriculture, Okanogan County Weed Board, private landowners, WSDOT, Kittitas County Noxious Weed Board, King County Weed Board, MBS NF, Mtns to Sound Greenway, Iron Horse State Park, Washington Department of Fish and Wildlife, Bonneville Power Administration, Upper Yakima Watershed CWMA, Yakima County Weed Board, WSU, Conservation Northwest, and Washington State Dept. of Wildlife.

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# Rogue River-Siskiyou National Forest

## 2012 Invasive Plant Accomplishments

Total acres treated for invasive plants on administrative sites, forest and range lands, meadows, road and river corridors, recreation sites, lakes, and rock quarries.

- 920 acres treated manually and mechanically
- 10 acres treated with biocontrols
- 1,047 acres treated with herbicides

### Treatment highlights include:

- Treated 91 infestations of yellowtuft, totaling 140 acres.
- 15 acres of Yellow Starthistle and 12 acres of Rose Campion removed in the Wild Rogue Wilderness.
- 6 acres of Purple Loosestrife treated with bio-control agents released on the Rogue River.
- 255 acres of Himalayan blackberry treated in meadows and rangeland.
- 2 acres of English ivy removed by NYC from the banks of the Elk River.
- Plastic mulch removed and native grasses planted on 40 inactive weed infestations.
- 1+ acres manual eradication of yellow floating heart (a Class A Aquatic Noxious Weed) from a popular recreation lake on the Siskiyou Mountains Zone

### Education and Prevention highlights include:

- Invasive plants information display and staffing at the OSU Land Steward Workshop, OSU Tree School, Buncom Day, Let's Pull Together Event
- Invasive plants presentations at several public events and venues.
- Inventoried gravel pits/quarries on federal and private lands
- Installed noxious weed road signs with assistance from the Jackson County CWMA.
- Surveyed 2,755 acres for yellowtuft alyssum on lands of mixed ownership in Josephine County. Yellowtuft prevention and detection coordination with cooperators.



**Figure 1.** Sowing native grass seed over previously mulched weed infestation.



**Figure 2.** Noxious weed prevention sign on Siskiyou Mountains Zone.



**Figure 3.** Eradicating the Aquatic "Class A" Noxious Weed *Yellow Floating Heart*

### 2012 Accomplishment and Expenditure Summary

Fund Code	Acres
Base Program (NFVW)	893
Title II (SRS2)	619
Timber Sales (CWKV)	140
Partners	325
<b>Total</b>	<b>1,977</b>

### Expenditures:

NFVW \$233,000, RAC funding \$115,000, CWKV \$40,000.

### Partners/Cooperators:

BLM, USFWS, USFS Pacific NW Research Station, The Nature Conservancy, CWMA (Jackson, Josephine, and Siskiyou), Upper Rogue Watershed Council, GE Forestry, J Raymond Forestry, MSM Forestry, Curry County Weed Board, Coos County Corrections Crew, Jackson County Community Justice Crew, Oregon Youth Employment Initiative, Northwest Youth Corps, and Student Conservation Association.



**Rogue River-Siskiyou NF**

3040 Biddle Road  
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# Siuslaw National Forest

## 2012 Invasive Plant Accomplishments

For 2012, the Invasive Plant Program targeted invasive plant populations that are degrading habitats of threatened or sensitive species and rare plant communities. Emphasis was also placed on the treatment of roads and rock pits which serve as sources of weed infestation.

### Program Highlights include:

- Invasive European beachgrass (*Ammophila arenaria*) was chemically treated to improve nesting habitat for threatened western snowy plover. Anticipated results are reduced cost and increased effectiveness compared to past mechanical treatments.
- Second year treatment of invasive knotweed species along threatened coastal coho salmon streams has reduced weed cover by as much as 90 percent.
- First year chemical treatment of European beachgrass at Sand Lake Research Natural Area with a goal of restoring a rare native dune grassland. Previous manual control methods proved only marginally effective against beachgrass.
- Inventoried 3,100 acres for invasive species.



Figure 1. **Sand Lake Research Natural Area.** Invading European beachgrass (right) was chemically treated in September, 2012 to restore ecological function to a coastal sand dune native grassland .



Figure 2. **Big Creek.** Following a second year of treatment, dense infestations of giant knotweed (some dead canes still visible) were reduced in cover by greater than 90 percent .

### 2012 Accomplishments

#### SRS2 – Secure Rural Communities

- Scot's broom (41 ac.), Japanese knotweed (32 ac.), European beachgrass (25 ac.), Himalayan blackberry (13 ac.), giant knotweed (6 ac.), Himalayan knotweed (1 ac.).

#### NFVW – Vegetation Management

- European beachgrass (196 ac.), false brome (178 ac.), gorse (102 ac.), giant knotweed (54ac.), Scot's broom (3 ac.), Canada thistle (3 ac.), tansy ragwort (2 ac.), yellow flag iris (1 ac.), Japanese knotweed (1 ac.), Himalayan knotweed (1ac.), meadow knapweed (1 ac.).

#### STWD – Stewardship

- false brome (50 ac.).

#### CWKV – Timber Sale Collections

- Scot's broom (55ac.), tansy ragwort (50 ac.).

#### Contributed or Volunteer

- Himalayan blackberry (12 ac.), Scot's broom (10 ac.), tansy ragwort (2 ac.).

- Total Acres Treated - 839

### Partners/Cooperators

Oregon Department of Agriculture, Lincoln County Soil and Water Conservation District, Lincoln County Road Department, Salmon-Drift Watershed Council, Siuslaw Soil and Water Conservation District, TEAMS, Mid-Coast Cooperative Weed Management Area.

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**Siuslaw National Forest**  
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# Umpqua National Forest

## 2012 Invasive Plant Accomplishments

- Managed 321 acres of false brome with herbicide.
- Managed 63 acres of spotted and diffuse knapweed at 19 sites with herbicide.
- Managed 2581 additional acres of priority weeds including blackberry, Canada thistle, Italian thistle, Japanese knotweed, Malta thistle, meadow knapweed, rush skeletonweed, Scotch broom, St. Johnswort, vinca, yellow archangel, yellow starthistle and additional sites of false brome with a variety of manual methods.
- Surveyed all the water impoundments associated with the North Umpqua Hydroelectric Project for aquatic invasive species through partnership with the Center for Lakes and Reservoirs at Portland State University and PacifiCorp.
- Managed many of weed infestations with the Al Kennedy Alternative High School, the Phoenix Alternative High School and the Jefferson Conservation Corps.
- Experimented with tarping and manual removal of a yellow floating heart infestation while beginning NEPA planning for a long-term solution for this Class A weed.



Figure 1. Spotted knapweed.



Figure 2. The crew experimenting with landscape fabric to control an infestation of yellow floating heart.

### 2012 Accomplishments

Fund Code	Acres
Timber Sales (CWKV)	307
Base Program (NFWW)	2284
Timber (NFTM)	124
Title II (SRS2)	250
<b>TOTAL</b>	<b>2965</b>

### Partners/Cooperators:

Oregon Department of Agriculture  
PacifiCorp  
Douglas County Soil and Water Dept.  
Douglas County Weed Board  
Center for Lakes and Reservoirs  
Upper Willamette Weed Management Area  
Douglas County Weed Management Area  
Al Kennedy Alternative High School  
Phoenix Alternative High School  
Jefferson Conservation Corps

Contact: Richard Helliwell, Ph: 541-957-3337



**Umpqua National Forest**  
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# Wallowa-Whitman National Forest

## 2012 Invasive Plant Accomplishments

In 2012 the Wallowa-Whitman National Forest completed several invasive plant projects:

- Continued Implementation of the Invasive Plants Treatment Project Record of Decision and began treatment of the Invasive Plants across the forest.
- Effectively treated a total of 2,440 acres of invasive plant sites with an average outcome of 74% control.
- Completed Title II projects to control purple loosestrife along the Snake River, meadow hawkweed in the Eagle Cap Wilderness and whitetop in Baker County, as well as several other invasive plants in cooperation with Wallowa Resources, Oregon Dept. of Agriculture and Tri-County Cooperative Weed Management Area.
- Made initial release of biocontrol agent on puncturevine in the lower Imnaha River canyon.
- Monitored post-fire burned landscape and treated 200 acres of invasive plants (Cactus Mountain Fire).



Figure 1. *Amorpha fruticosa*, false indigo, a new invader along the Snake River



Figure 2. Results of 2011 trial applications of glyphosate (aquatic formulation) on Himalayan blackberry in Hells Canyon

### 2012 Accomplishments

Acres	Fund Code	Activity
59	RBRB	Range Betterment
200	WFSU	Wildfire
1345	NFVW	Base Program
12	PTNR	Partnerships
824	SRS2	Title II

### 2440 TOTAL

### Partners/Cooperators

Oregon Department of Agriculture  
Tri-County Cooperative Weed Management Area Wallowa Resources

### Contacts:

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# Willamette National Forest

## 2012 Invasive Plant Accomplishments

Components of the Willamette NF Invasive Plant Program and their highlights include:

### Treatment:

6330- acres – 4571 acres using manual and mechanical methods and 1759 acres using herbicides.

### Survey:

- Survey of Blowout Road (back side of Detroit Reservoir ) for false brome yielded 12 new sites.
- Surveys on Linn County side of North Santiam River specifically targeting knotweed.

### Special Projects:

- Title 2 funded false brome treatment with Middle Fork Willamette WC and blackberry/Scotch broom treatment in Mule Meadow Restoration
- Post burn monitoring for study on the effects of prescribed burning on false brome in timber harvest units with UO Master's student on McKenzie District

### Cooperative Relationships:

- Forest Botanist is FS representative on the Western Invasives Network Steering Committee
- District Botanists are members of Upper Willamette and Mid Willamette Cooperative Weed Management Areas

### Education/Outreach/Prevention:

- Weed outreach program to residents of Idanha and Detroit with Marion County cooperators. Surveyed 65 properties and hosted a weed identification training. The idea is to help prevent escape of weedy species from private onto adjacent FS land.

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Figure 1. Edge between treated and untreated false brome in the forested understory at Foley Ridge, McKenzie Ranger District

### 2012 Accomplishments

252,000	NFVW Base Funding	2559 ac
142,646	CWKV Timber Sales	1759 ac

In addition we accomplished integrated weed treatments while doing other activities. The following list shows the acreage for integrated weed treatments:

Timber (NFTM)	20
Wildlife (NFWF)	158
Wildlife Partnerships (NFXN)	10
Payment to Counties (PSRS)	300
Fuels (WFHF)	77
Road Maintenance (CMRD, CMLG)	1424

**Partners/Cooperators:** Oregon Department of Agriculture Weed Control Program, Eugene and Salem BLM, Eugene Water and Electric Board, PGE, BPA, Consumer Power, Middle Fork Willamette Watershed Council, North Santiam Watershed Council. Marion County, Marion SWCD, Youth Conservation Corps Crews on Middle Fork and McKenzie RDs

