Willamette Mainstem Habitat Assessment Project

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Purpose

 "Evaluate the character and health of vegetative communities, with an emphasis on invasive species."

Project Goals

- Design replicable methodology
- Map location and extent of invasive species
- Map native habitats
- ID best areas for management/containment
- ID invasives that are still controllable
- Analysis and assistance for future management and treatment

Willamette Mainstem Cooperative Project Area

Updated Aug, 20, 2013



Methods

Site ID-Map Unit	Owner	Personnel		Date
Landform Habitat T	ype		Slope	Condition Code
Vegetation layer dominant	ts			
Description:				

Invasive weed mapping (UTMs; datum = WGS84)

Willamette Mainstem Field Data Sheet

Species	Map on Photo?	Centroid Easting	Centroid Northing	Radius (ft)	Comments
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Management issues/recommendations:

Other comments/special habitats/rare species:

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Methods

- Ownership (= site)
- Map vegetation cover types 2012 only!
- Map target invasive species ODA list & more
- Rate habitat quality
- Map native habitat
- Management recommendations
- GIS Mapping

Methods – Native Habitat

- Invasives few or absent
- High diversity of native species
- Low disturbance/few human impacts
- Structural diversity
- Connectivity

Methodology – native habitat

- High native/low invasive species
- Vegetation plots 2012 only!
- Document change over time
- GPS'd but not permanently monumented
- Dominant species by layer
- Invasive species present
- Photo points

Field Surveys

Field Surveys

- 2012 July to September
- 2013 May to July
- 58 sites
- 45 ownerships public and private
- 2,566 acres surveyed
- Field assistance by BSWCD, OPRD, Marvin Gilmour



Fall 2012

Feet

Results

- Himalayan blackberry, reed canarygrass, common tansy common and widespread
- Thin strips of habitat usually overrun with invasives, especially Himalayan blackberry
- False brome common, scattered in small pops.
- Invasive trees and woody vines common
- Water primrose common in sloughs and ponds - often very dense

Native Habitat

- 64 areas on 37 ownerships
- 384 total acres
- < 0.1 acre to 102 acres
- Average size = 6 acres
- Concentrated in interior forest habitats
- Mostly on larger sites
- Mostly on public ownerships

Management Recommendations

- Protect the best
- Prioritize small & emerging weed populations
- Prioritize control of false brome, ivy, clematis, water primrose, Japanese knotweed, purple loosestrife
- Work with land-owners to set weed control priorities
- Periodic surveys with follow-up treatments

Challenges/Limitations aka Lessons Learned

- Access dense vegetation, aquatic habitats, boat-only sites, private land issues
- Late season phenology hampered ID of good habitats in 2012
- 2012 method too detailed & time consuming
- Automate field mapping and data collection

HIMALAYAN BLACKBERRY

WATER PRIMROSE

