

Willamette Mission Floodplain Reforestation Project

Project Phases and Map

The Willamette Mission Floodplain Reforestation Project is a 752-acre comprehensive restoration project to restore the quality of riparian, floodplain forest, and aquatic habitats on Oregon State Park and adjacent lands. To make this landscape scale project more manageable, ease the tracking of the large number of acres involved, and to stagger project activities, the work has been divided into seven funding phases. We are currently in the fifth stage of the project, and have been awarded funding for all seven.

Methodology: To restore floodplain forest and riparian habitat at Willamette Mission, the project was designed to spend 2-3 years engaging in site preparation treatments, including cutting, spraying and mowing to control invasive species. Site preparation activities were followed by planting appropriate species of bareroot native trees and shrubs as well as cuttings to achieve the desired future condition of the habitat within each management unit. In the more open meadow areas where there was historic agricultural use, native grasses were seeded with a no till drill to help reduce weed pressure in between planting rows. Plantings were spaced to achieve optimal plant densities and help facilitate more efficient plant establishment treatments. In the spring following the initial plant installation, plant establishment treatments commenced which are primarily targeted spraying and mowing of priority noxious weeds. For all locations where native planting occurred, 4-5 years of plant establishment maintenance is planned to help the plantings reach a free to grow stage.

Refer to the associated map for details:

The Beaver Island unit (203 acres) has undergone site preparation, planting, targeted inter planting, and 5 years of plant establishment maintenance. (Phase 1 & 2)

The North Forest Unit (77 acres) has undergone site preparation, planting, targeted inter-planting and 3 years of plant establishment maintenance. (Phase 3 & 4)

The South Forest Unit (151 acres) has undergone site preparation, planting, limited targeted inter planting, and 1 full year of plant establishment maintenance. (Phase 3)

The Riparian Edges include several management units which are the Willamette Edge (13 acres), the Mission Lake Edge (32 acres), Goose Lake & Edge (76 acres) and Windsor Edge (90 acres). These areas are all on a similar timing schedule. To date they have received 2 years of site preparation and planting and one year of plant establishment. (Phase 5)

Aquatic invasive species are prevalent in both Mission Lake (36 acres) and Windsor Slough (74 acres). Mission Lake has now undergone 3 years of control treatments for aquatic invasive species, focused on Water Primrose, *Ludwigia hexapetala*. Scientists from PSU and USGS completed comprehensive baseline effectiveness monitoring (2017) for water quality and aquatic vegetation prior to beginning *Ludwigia* control work. (Phase 4 & 5)

The Channel Edges Management Units (205 acres) have undergone; mapping, site preparation, planting, with the first year of plant establishment maintenance started in 2020. (Phase 5)

WILLAMETTE MISSION FLOODPLAIN REFORESTATION - PHASE 7, FINAL: COMPREHENSIVE OVERVIEW



0 0.13 0.25 0.5 Miles



Legend

Management units: 748 acres

Restored Habitat Types

- Oak woodland
- Grand fir - bigleaf maple - cottonwood forest/scrub mix
- Grand fir - bigleaf maple - cottonwood forest
- Ash - red osier dogwood floodplain forest
- Willow scrub-shrub wetland
- Aquatic and emergent wetland

North Forest: 77 acres

Willamette Edge: 13 acres

Beaver Island: 203 acres

Windsor Slough - OPRD: 29 acres

Windsor Slough - DSL and private lands: 45 acres

Mission Lake: 36 acres

Mission Lake Edge: 32 acres

South Forest: 151 acres

Goose Lake and Edge: 76 acres

Windsor Edge: 90 acres

See inset map

