Garden Loosestrife Control Trials 2010-2011

**Manual**

In 2010 we hand-dug garden loosestrife in four different substrates using hori-horis and our hands, carefully removing as much as possible all roots, rhizomes and stolons. 1 meter plots on Lake Burien were cleared as much as possible beyond the plot boundaries to prevent reintroduction. Plots were assessed in 2011. In September 2011 we set up a tarping trial as well.

Method: hand dig from rotting floating logs

Location: Rutherford Slough

Date:

Previous treatment: several years of Triclopyr applications

Results: no noticeable reduction in quantity or vigor

Method: hand dig from sand with other species (juncus & eleocharis spp.) mixed in

Location: Lake Burien

Date: September 2010

Previous treatment: cut/mowed by property owner

Results: no noticeable decrease

Method: hand dig from loose, shallowly inundated mucky soil with no other species present

Location: Lake Burien

Date: September 2010

Previous treatment: controlled (cut, pulled) by property owner in previous years, none this year

Results: **no loosestrife present inside 1 meter plot boundary in 2011**

Method: hand dig from among cattails in ca. 1 foot of water

Location: Lake Burien

Date: September 2010

Previous treatment: controlled by landowner, including pulling and one year of triclopyr application.

Results: no noticeable decrease

Method: installed 40x60’ tarp over a 1,000 ft2 patch mixed in reed canarygrass. Cut all plants first. Had to cut tarp to fit around a willow in the middle. Staked at grommets with bent rebar.

Location: Oxbow Farm in the slough near the inlet/outlet. Area is flooded in winter. (PIN 3626069018)

Date: September 2011

Previous treatment: found and cut in 2010.

Results: TBD \*\*\* found good control, no plants found alive under in-tact portion of tarp, however, plants found growing through a tear in the tarp and around the sides of the tarp during an October 17,2012 survey.\*\*\*

**Chemical**

Method: injected 2ml concentrated glyphosate with cavity injection needle in all 29 stems of an isolated clump. Cut stems first and used needle to create cavity to hold chemical.

Location: Janecke Slough off Neal Rd. near Fall City (PIN 0424079025)

Date: August 2010

Previous treatment: none

Results: In 2011 injected stems were dead but new growth sprouted from rhizomes

Method: sprayed 4m2 plots with imazapyr (with Competitor as surfactant) at different times

Location: Ebright Creek wetland: 21819 SE 13th Pl, Sammamish (PIN 0424069188)

Plot 1: Sprayed 7/11/11 with .75% \*\*\* found very good control, no plants found during 6/25/12 survey by Ben and Katie\*\*\*

Plot 2: Cut early August, sprayed 8/25 with 1% \*\*\* found moderate control, several plants found growing during 6/25/12 survey by Ben and Katie\*\*\*

Plot 3: Sprayed 8/25 with 1% \*\*\* found moderate control, several plants found growing during 6/25/12 survey by Ben and Katie\*\*\*

Plot 4: sprayed 8/25 with 5%

Plot 5: Sprayed 9/16 with 1%

Previous treatment: sprayed with 1.5% triclopyr TEA for several years

Results: TBD

Method: sprayed 4m2 plots with combinations of triclopyr, glyphosate and imazapyr, Competitor as surfactant

Location: Marymoor Park just off boardwalk

Date: August 25, 2011

Plot 1: 2.5% glyphosate, .75% imazapyr \*\*\* found poor control, many plants found growing during 6/25/12 survey by Ben and Katie\*\*\*

Plot 2: 1.5% triclopyr, .75% imazapyr \*\*\* found poor control, many plants found growing during 6/25/12 survey by Ben and Katie\*\*\*

Plot 3: 1.5% triclopyr, .75% imazapyr (in the shade) \*\*\* found moderate control, several plants found growing during 6/25/12 survey by Ben and Katie\*\*\*

Plot 4: 2.5% glyphosate, 1.5% triclopyr \*\*\* found poor control, many plants found growing during 6/25/12 survey by Ben and Katie\*\*\*

Previous treatment: various herbicides over the years

Results: TBD

Method: Sprayed 1% Mileston on 9,000 ft2 of seasonally dry wetland

Location: 5512 Preston-Fall City Rd. (PIN 8130700140)

Date: 7/15/2011 \*\*\* found poor control, many plants found growing during 9/17/12 survey by Ben\*\*\*

Previous treatment: sprayed with triclopyr in previous years

Results: TBD

Method: Sprayed 1% 2,4D on 850 ft2 of seasonally dry wetland

Location: 151 W 6th St., North Bend (PIN 8570900060)

Date: 7/15/11

Previous treatment: sprayed with triclopyr for three years

Results: TBD