



Ludwigia is extremely well adapted to spread and persist





Leaf & stem fragments have the ability to sprout roots

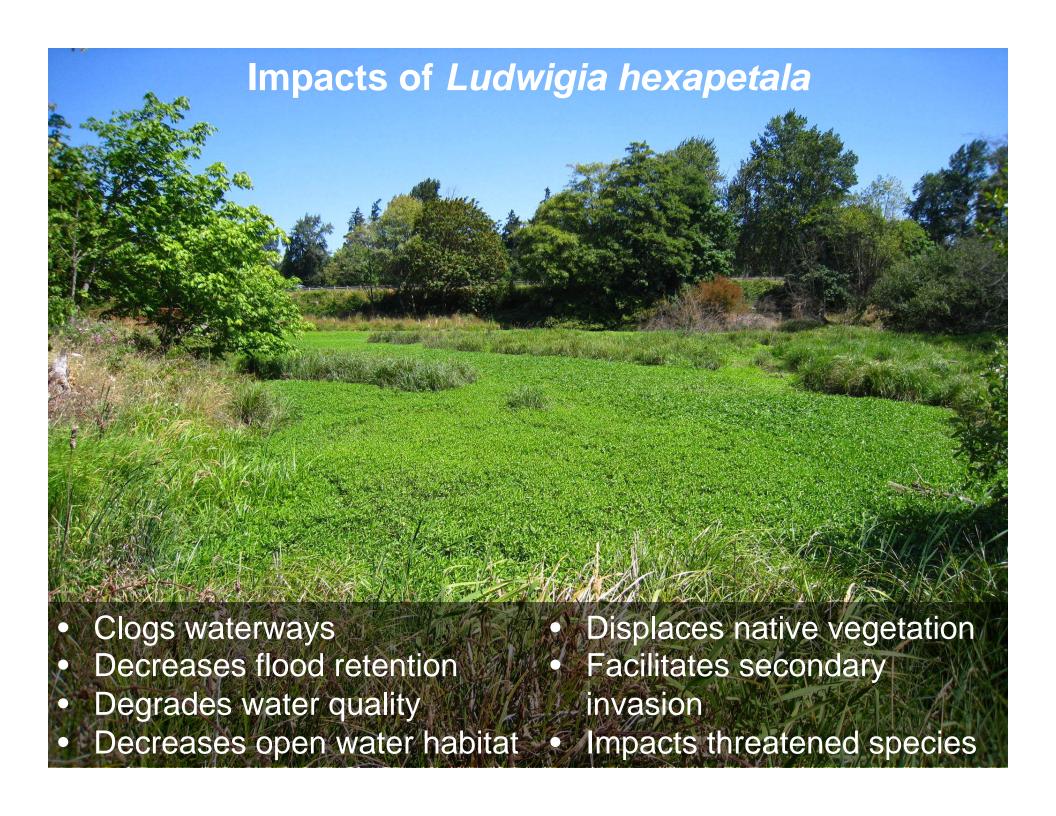


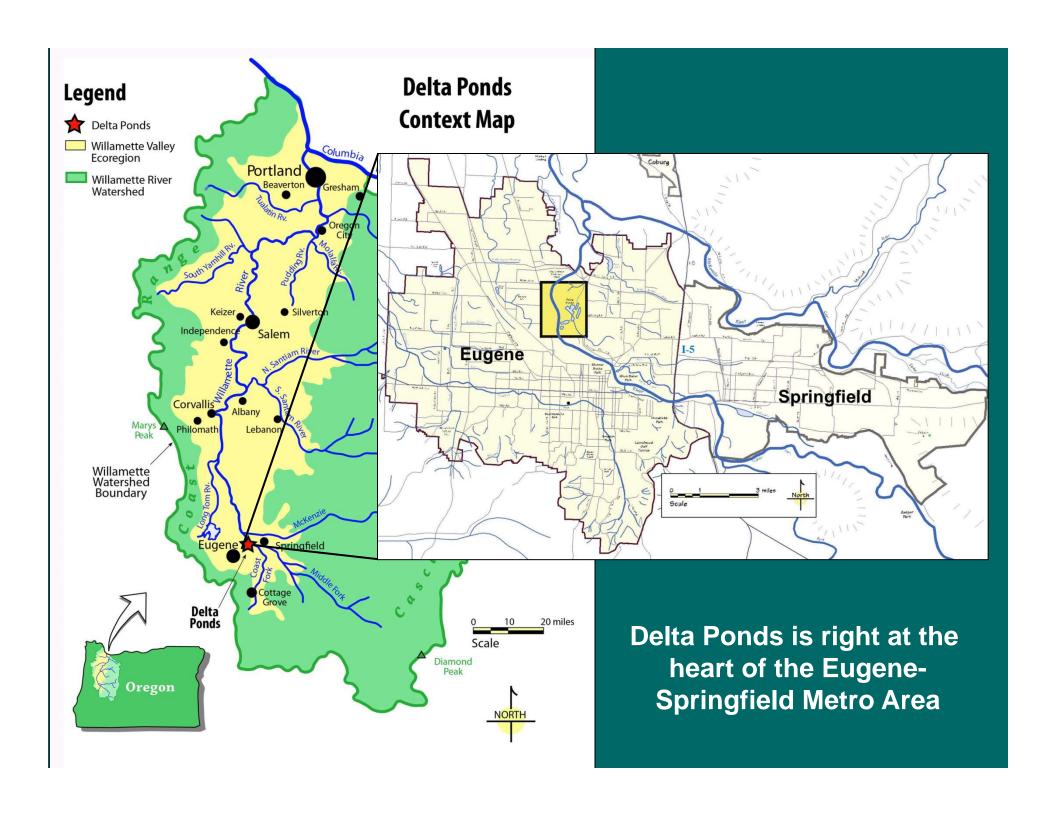
Aerenchymous roots absorb nutrients from air

Ludwigia will persist and grow along shorelines



...and we now know that it produces highly viable seed





Ludwigia hexapetala at Delta Ponds

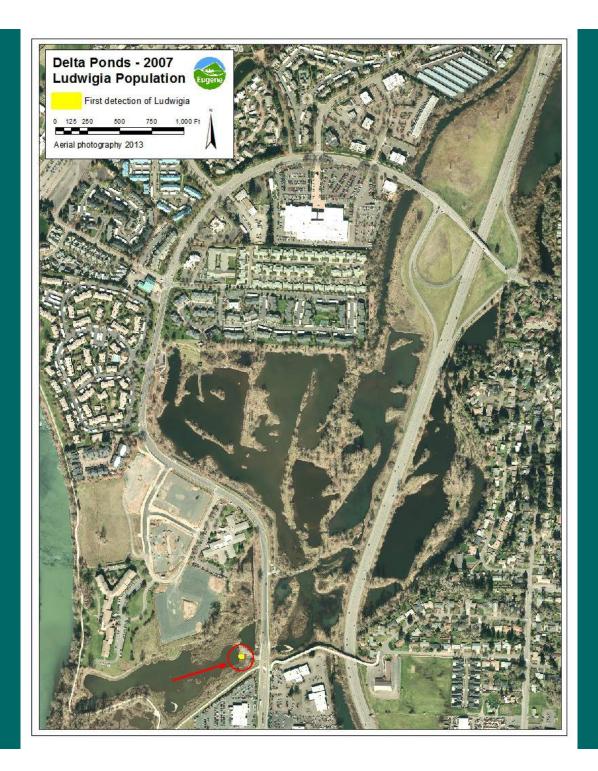


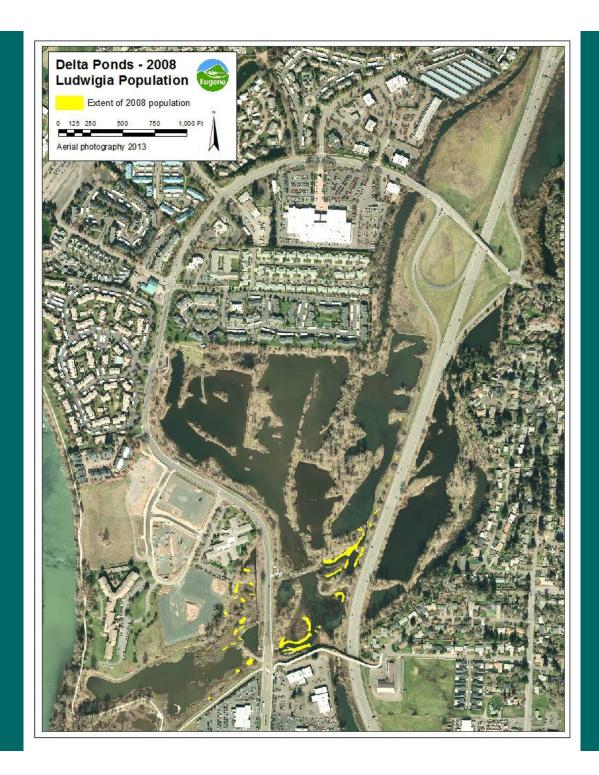
Ludwigia showed up in 2007 at an old boat ramp ...

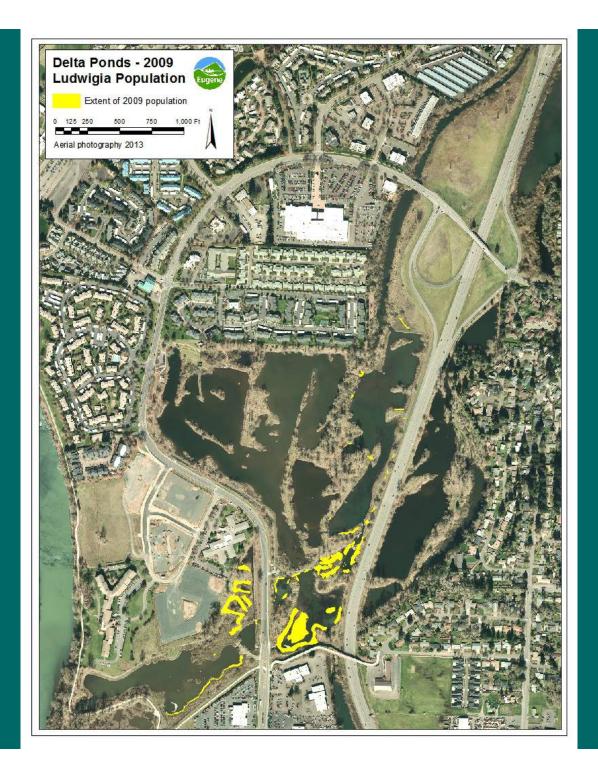
and within just a few years it had overtaken some of the ponds

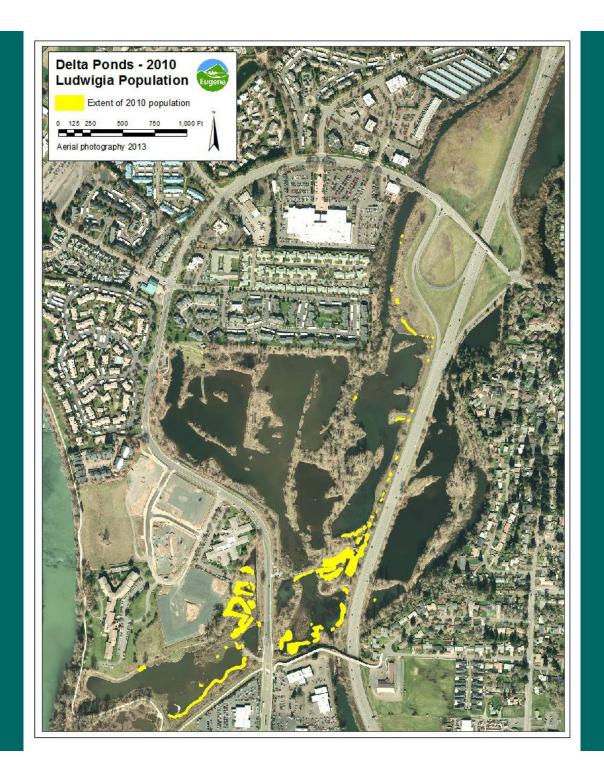
Photopoint photos from long-term Delta Ponds project monitoring

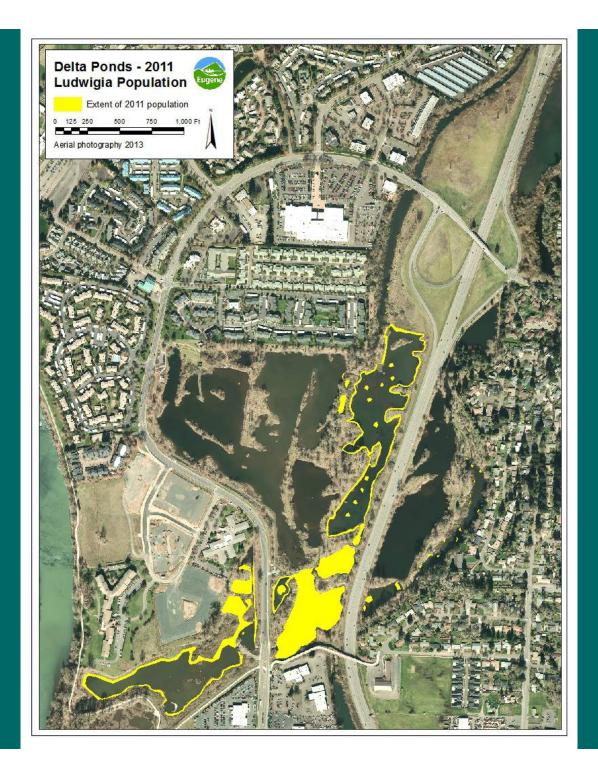


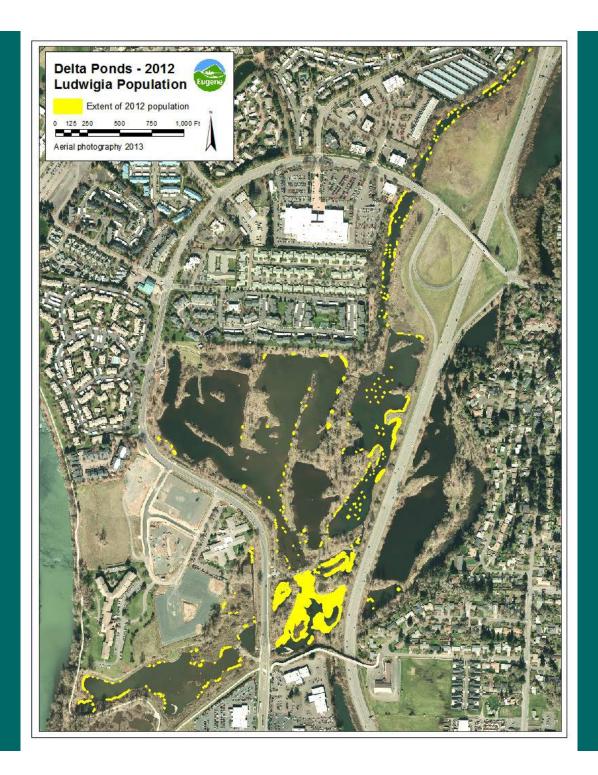


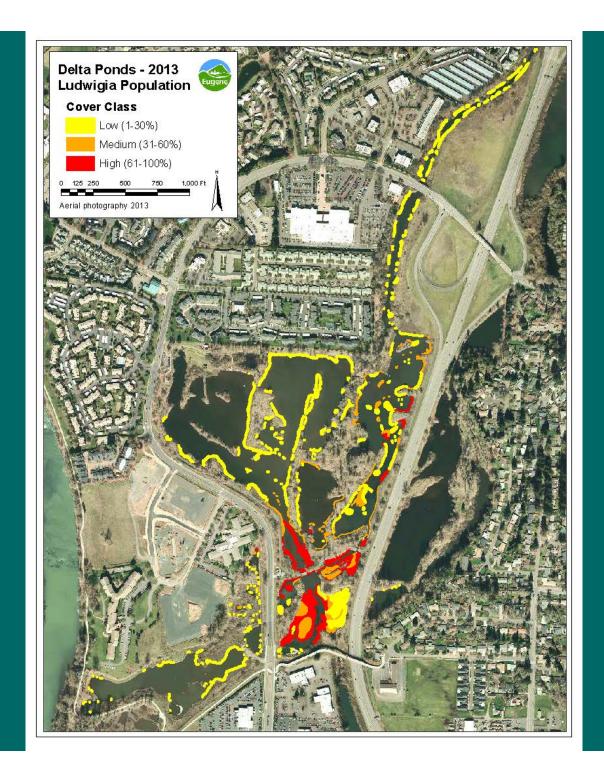


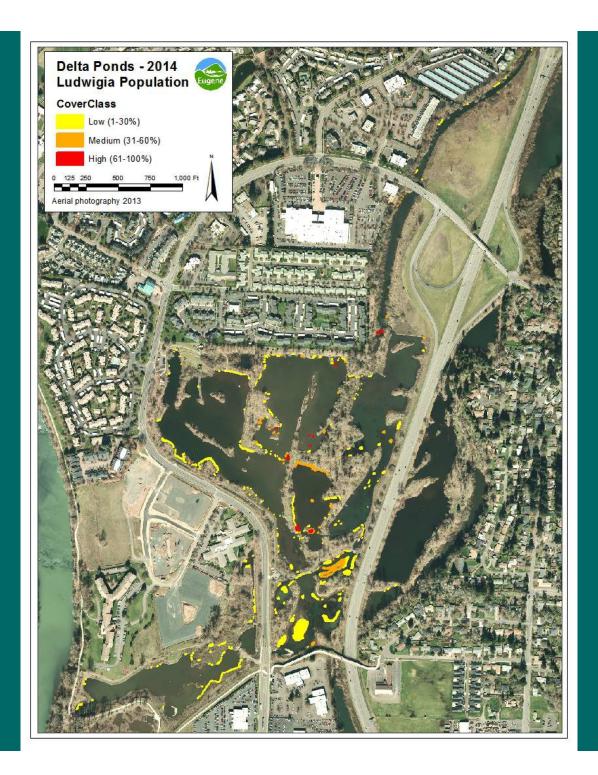














Manual control

(June/July and Sept/Oct)

Hand pulled:

- sparse plants
- plants intermixed with natives









Chemical control

(late July/August)

Treated:

- plants growing on land
- dense aquatic patches

Chemical mixture: 3% glyphosate 0.5% Agridex surfactant blue dye





Before chemical treatment

...and shortly after

Images by Philip Bayles

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<u>www.raptorviews.com</u>





Photopoint monitoring just before Phase I chemical treatment

...and one year later before Phase II control



Recommendations

- EDRR
- Consult with others
- Develop a Plan
- Commit to long-term vegetation management
- Adaptive Management



INVASIVE LUDWIGIA HEXAPETALA MANAGEMENT PLAN

FOR

THE DELTA PONDS NATURAL AREA (Eugene, Oregon)

(2013-2018)



PREPARED BY THE CITY OF EUGENE, PARKS AND OPEN SPACE DIVISION



