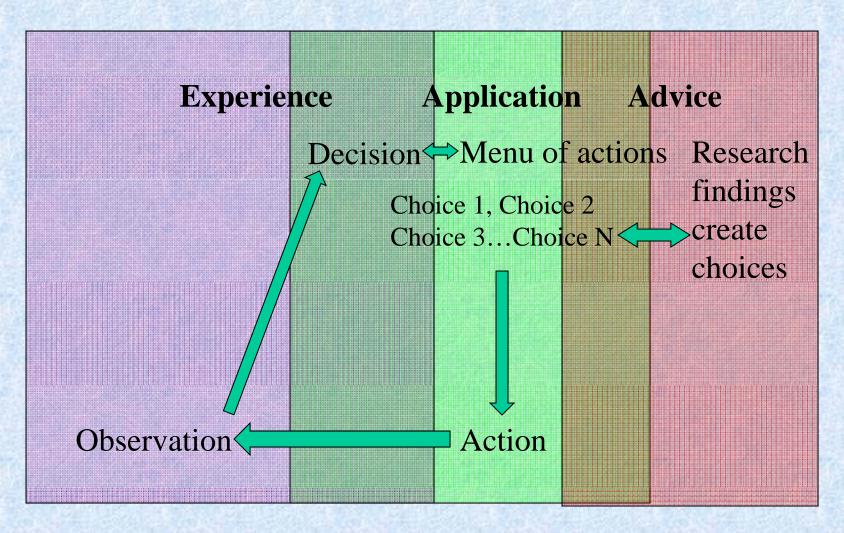




- •Large Wetland Mitigation in the headwaters of the Everglades
- •Torpedograss infestations following timbering, soil disturbance, road building and borrowing fill were poised to increase following rehydration of drained wetlands
- •Rehydration caused geometric population explosions of torpedograss as more mesic vegetation drowned at newly defined wetland ecotones



Adaptive Management







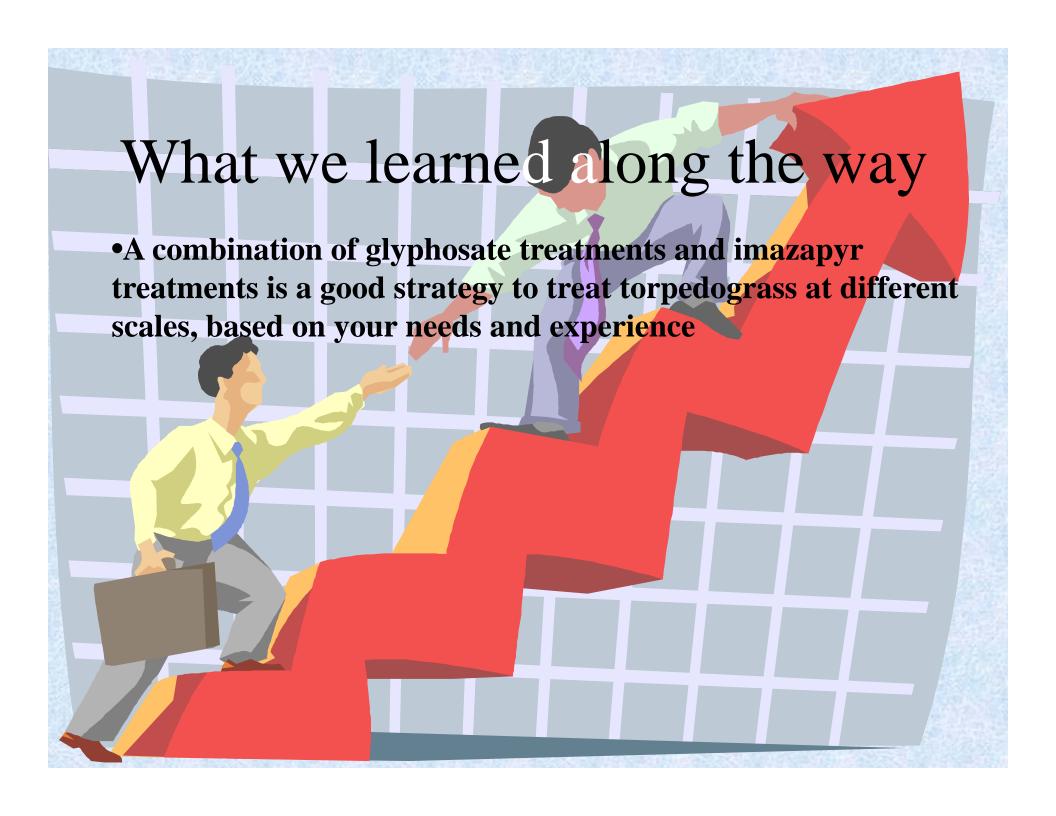


•Torpedograss rooted in soil is not eradicated by any concentration of glyphosate in one application

•This is due to this grass's biological attributes and glyphosate's chemical characteristics



- •Imazapyr has superior control because it can affect subsoil segments of the torpedograss rhizome.
- •Imazapyr will photolyze in relatively clear water in under 2 weeks.
- •Imazapyr will reside in soil for months at a time if there is not water above the soil surface, and will precipitate out of soil to kill plants during rain following drought.

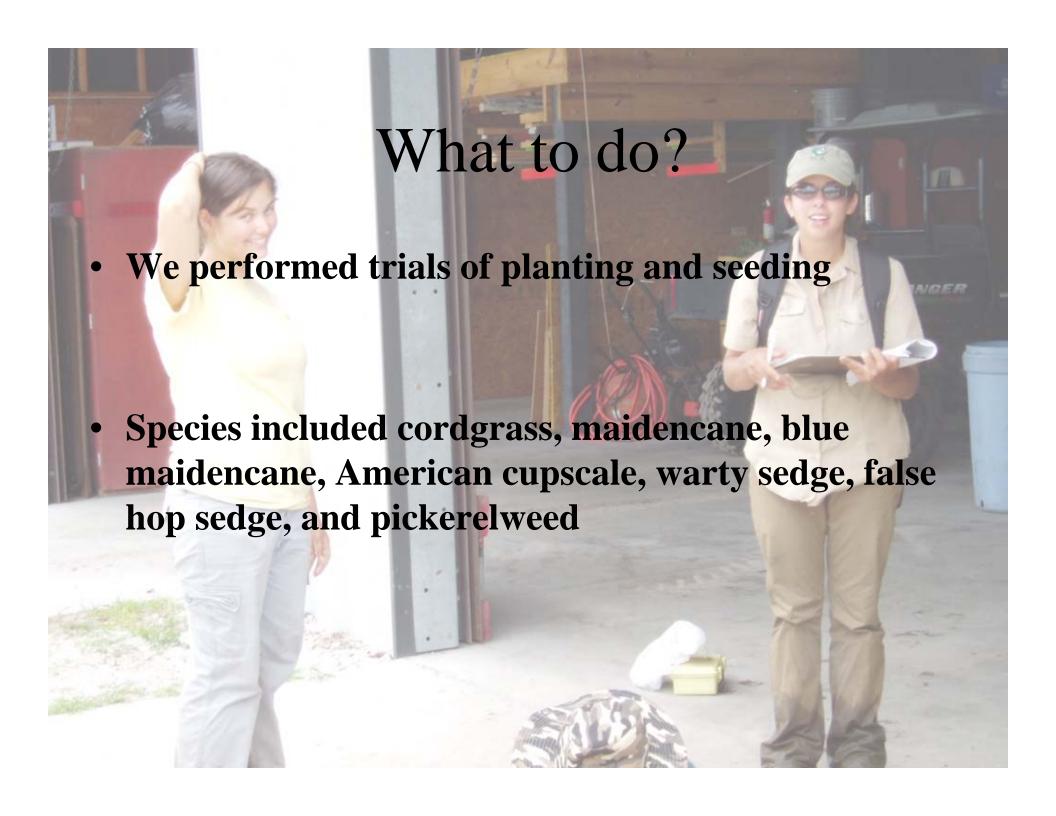




You will probably never eradicate torpedograss permanently...

...therefore, you must determine acceptable thresholds to organize what to treat and when...

...then follow-through with effective treatments and planting native species.



Maidencane—highest success

- We cut segments of aerial maidencane stems
- Included at least 2 nodes per stem
- Assured 2 nodes had soil contact
- Planted stems laterally like an IV is inserted into a vein
- Outperformed maidencane plugs, estimated 10:1 to 20:1 in coverage rate

Results of post-herbicide planting and seeding

- •Maidencane planted from cuttings was optimally effective in shallow wetlands and hydric uplands—SCORE!
- •Cordgrass divisions worked reasonably well in areas where a higher level of post-planting infestation was acceptable...many native stowaways including maidencane came in the planted cordgrass stock—BONUS!
- •Blue Maidencane was not easy to plant but seemed effective in certain very shallow wetland areas...stems were brittle for planting divisions
- •Seeded species did best as supplemental diversity and in wetter uplands than in shallow wetlands.
- •NOT planting was NOT succeeding.

Total Treatment and Replacement

- Costs are available at the Conservation Notes website (University of Florida Natural Areas Training Academy)
- Currently very labor intensive, but maidencane cuttings are very forgiving, establishing by merely smearing them into mud...can be planted by tree planter, off the side of an airboat in rows (and smeared into place by running over the planted cuttings), by hand. We have planted by hand, with high levels of establishment.

