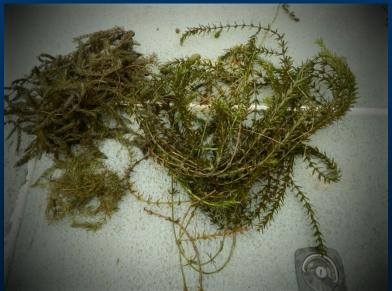
nvasive Exotic Aquatic and Wetland Species Update

Earl W. Chilton II, Ph.D. Texas Parks & Wildlife Austin, Texas

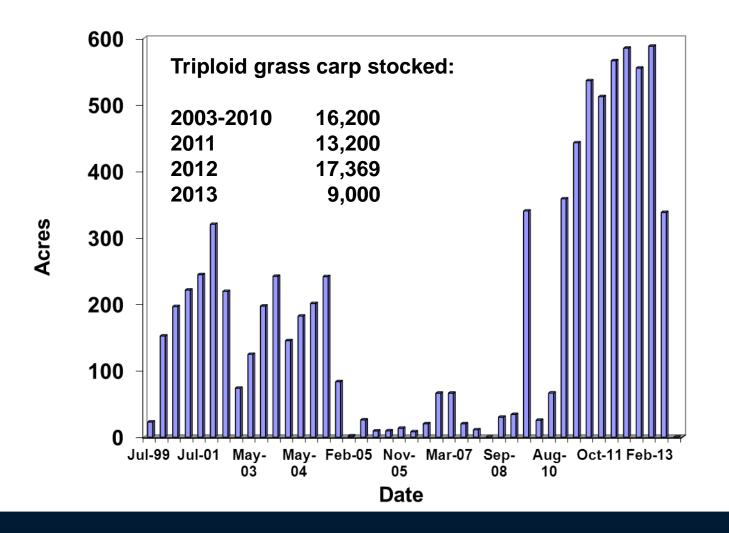


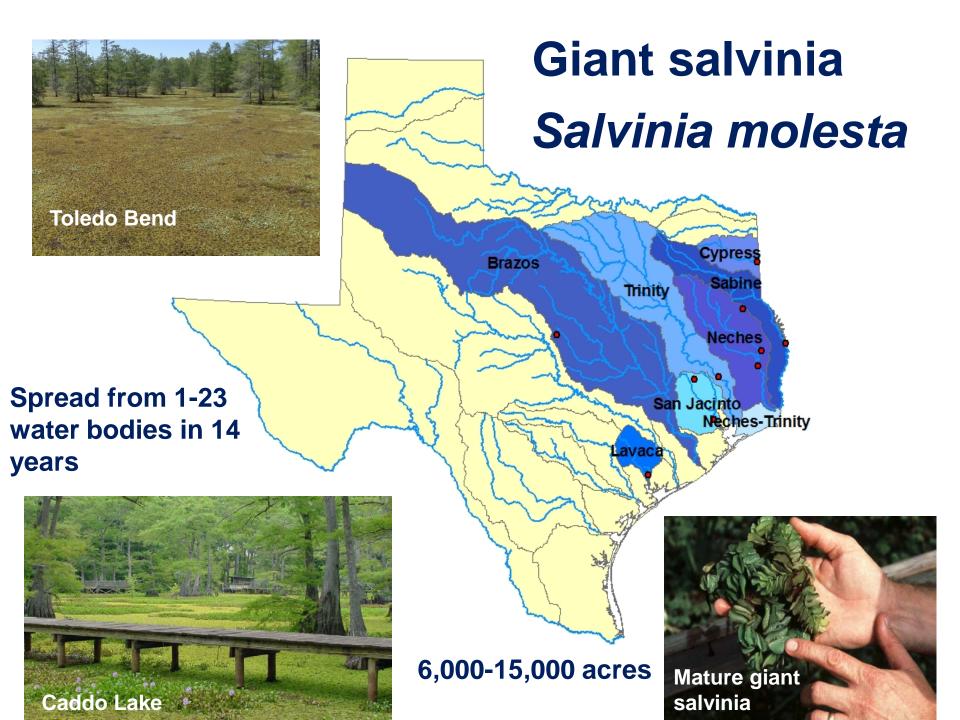






Hydrilla in Lake Austin





Giant salvinia and Caddo Lake

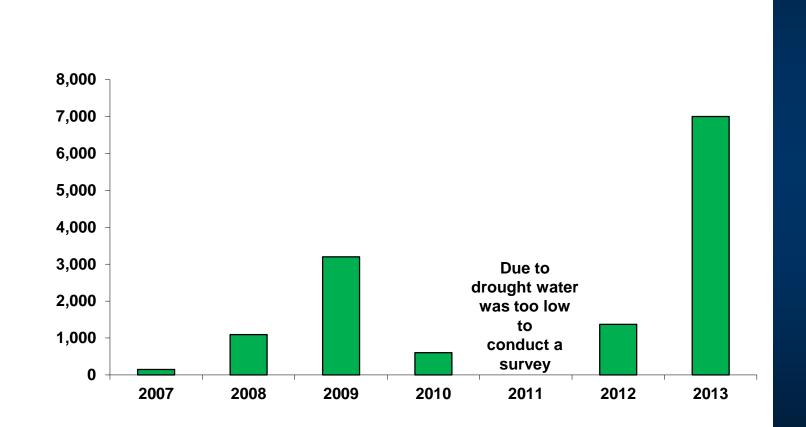












Toledo Bend & Caddo Lake

- Estimated Combined Acreage of 13,000 to 15,000 acres of giant salvinia
- Herbicide Treatment Costs:

Aerial Treatment Boat Treatment \$65-100 per acre \$125-145 per acre



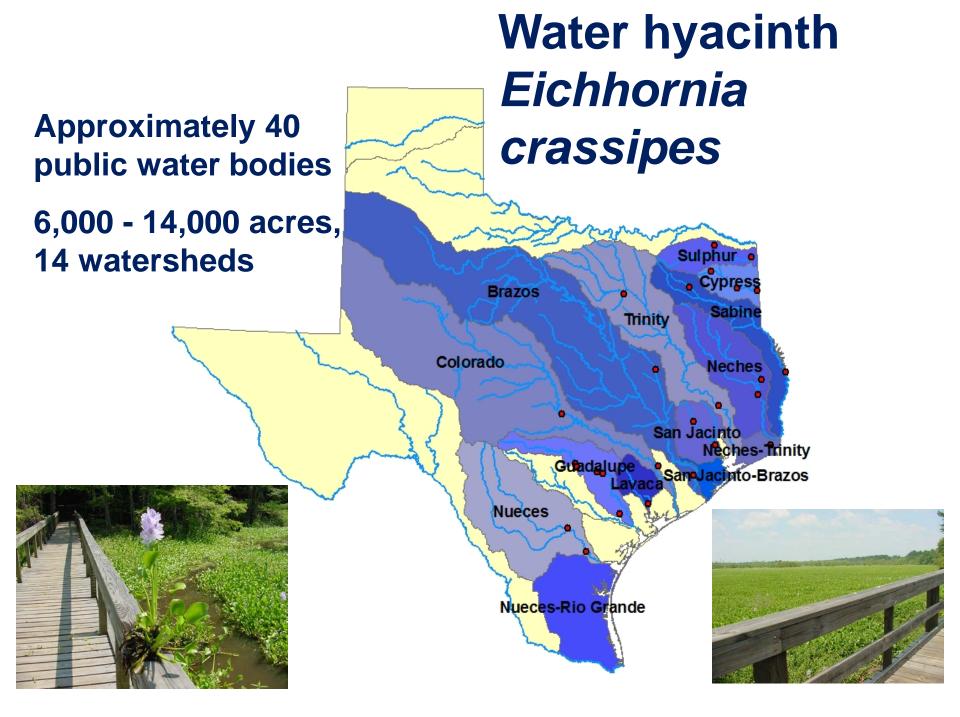


Toledo Bend & Caddo Lake

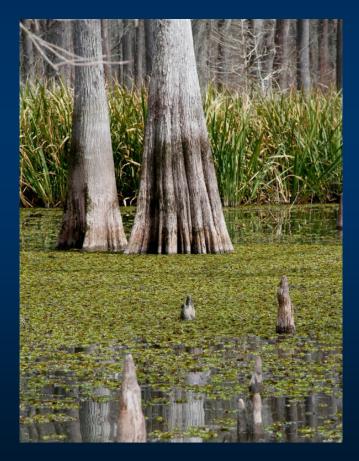
- Currently, \$450,000 budgeted for FY14 (about 32% of the total \$1.3 million aquatic invasive species budget for Texas
- Cost of treating the <u>current</u> acreage (<u>not</u> <u>including the rest of the state</u>) would range from ~\$845,000 to \$2,175,000







Lower Trinity River wetlands areas



Lake Charlotte



Day Lake east of Houston



Llano River





Chinaberry

Giant reed



Elephant ear

Management Options for Elephant Ear

Chemical treatments

- Glyphosate-based herbicide (2.0% solution)
- Imazapyr-based herbicide (1.5% solution)
- Imazamox-based herbicide (5.0% solution)

Management Options for Elephant Ear

Mechanical removal



- Dig up corms
- Leaves contain oxalic acid could cause skin irritation

June 20-21, 2012 22 Treatment Sites

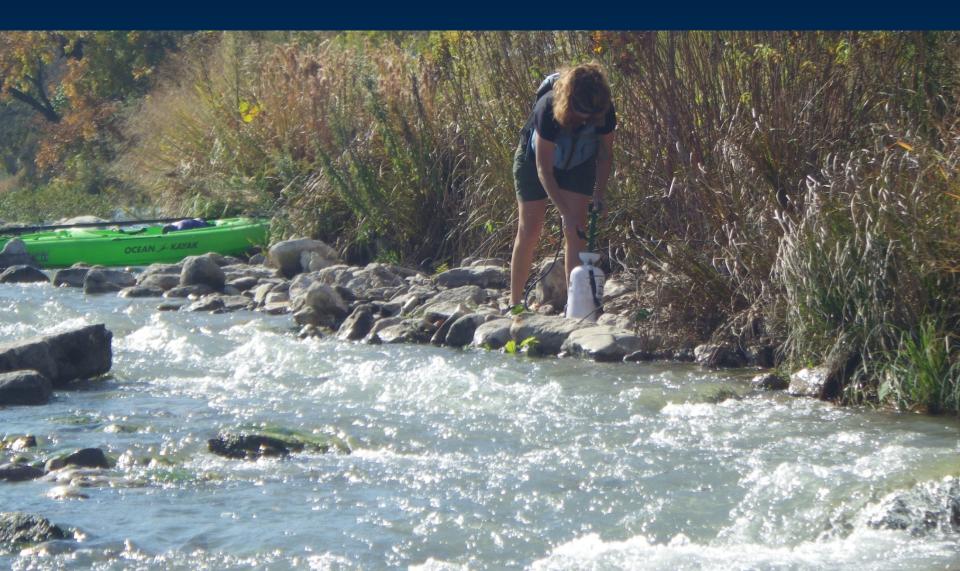
Telegraph



July 7, 2012 Post-Treatment Results



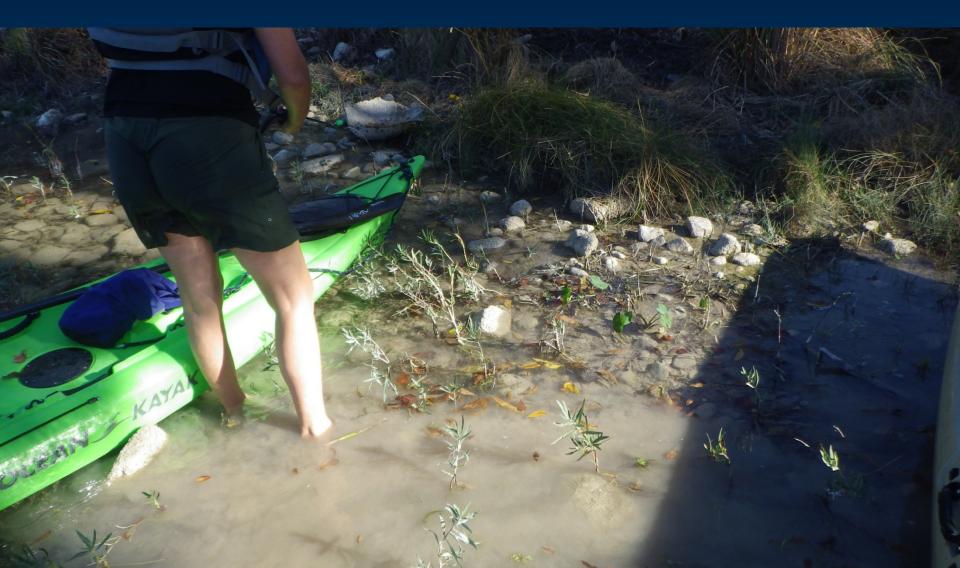
Hand-Held Herbicide Sprayers



November 8, 2012 10 Treatment Sites

Telegraph

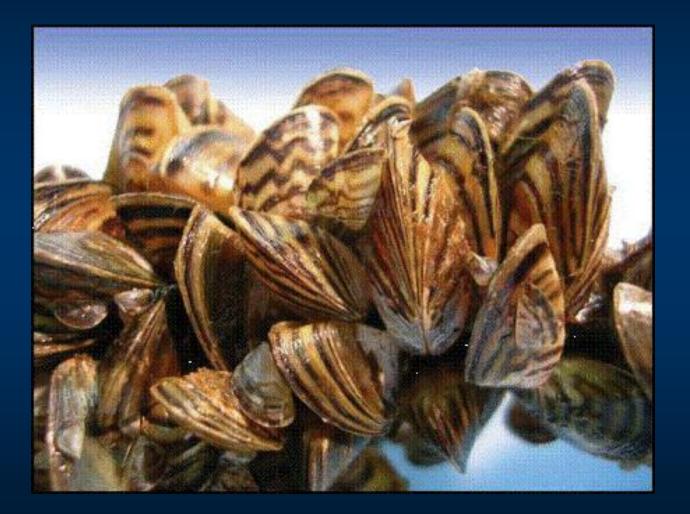
November 12, 2012 Treatment



Texas Program Budget

FY 2011 FY 2012 FY 2013 FY 2014 FY 2015 \$1.7 million\$0.6 million\$0.6 million\$1.5 million\$1.5 million

Zebra Mussels in Texas



Five confirmed public reservoirs: Bridgeport Lewisville Ray Roberts Texoma Belton



HB 1241

- Gives Commission additional rulemaking authority
 - Require persons leaving or approaching public water to drain from vessels all water resulting from immersion in public water
 - Allows inspection authority for these actions
 - Does not apply to salt water

Proposed Changes

- Requires water be drained from vessels leaving and approaching public water
- Applies to areas where boats can be launched
- Includes live wells, bilges, and any other receptacles that come in contact with public water

Exceptions

- Travel between access sites on the same water body during the same day
- Governmental activities and emergencies
- Marine sanitary systems
- Commercially purchased live bait

Application

- Allows application to water bodies not currently infested
- Encompass current infestations (buffer zone)
- Apply to all public water bodies in listed counties
 - DFW area north to Texoma

Restricted Counties

 Confirmed
Zebra Mussel Populations

Montague, Cooke, Grayson, Fannin Young, Jack, Wise, Denton, Collin Stephens, Palo Pinto, Parker, Tarrant, Dallas, Rockwall Hood, Kaufman

Major Reservoirs Included

- Arlington
- Benbrook
- Bridgeport
- Bonham
- Daniel
- Eagle Mountain
- Graham
- Granbury
- Grapevine
- Hubbard Creek
- Joe Pool
- Lavon

- Lewisville
- Mineral Wells
- Moss
- Mountain Creek
- Nocona
- Possum Kingdom
- Ray Hubbard
- Ray Roberts
- Texoma
- White Rock
- Worth

Impacts to Anglers and Boaters

- Draining must occur before travel to or from access areas
- Live fish cannot be transported in water from water body where caught
- Live bait personally caught can only be used where caught
- No off-site tournament weigh-ins if transporting live fish

Next Steps

- Use available resources to publicize proposed changes
- Conduct public meetings in DFW Texoma area



Thank You!