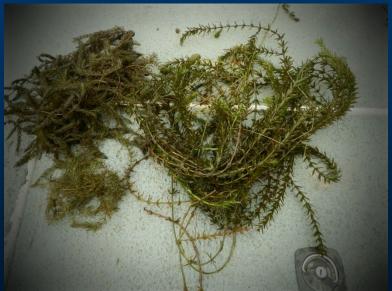
# nvasive Exotic Aquatic and Wetland Species Update

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

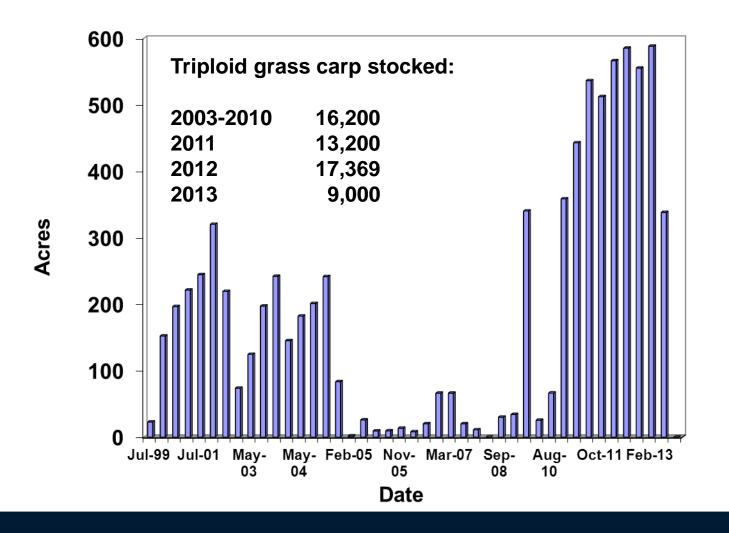


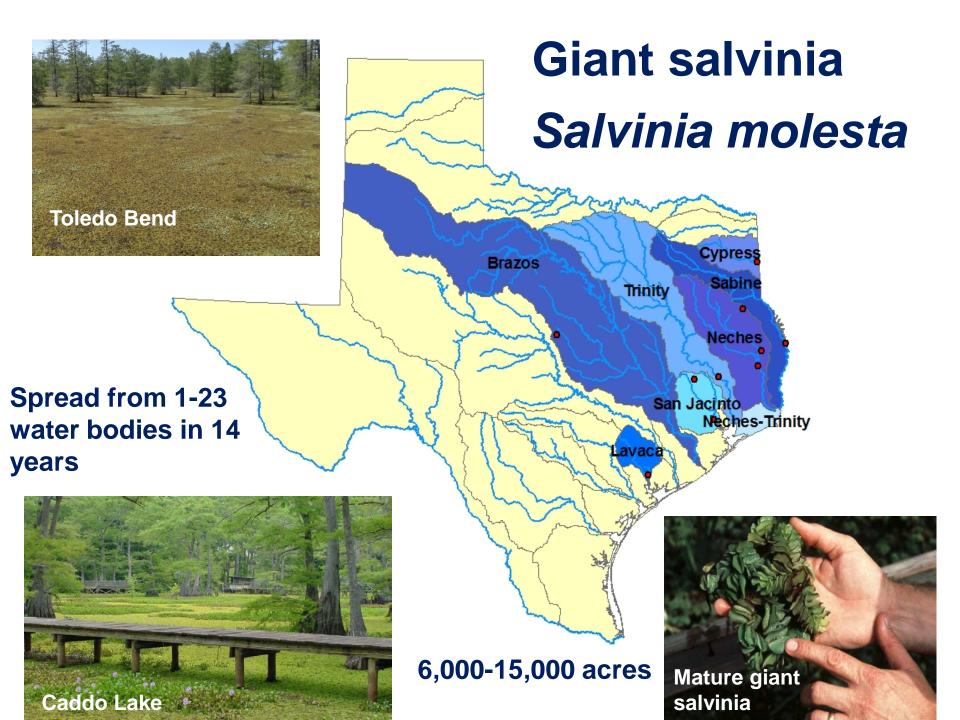






## Hydrilla in Lake Austin





# **Giant salvinia and Caddo Lake**

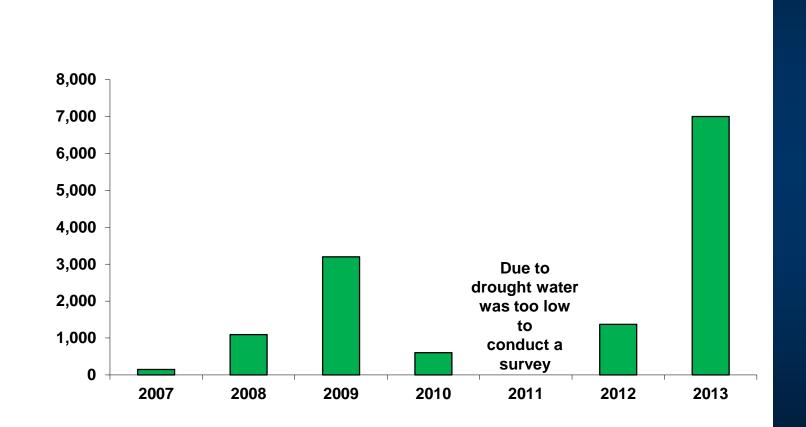












## **Toledo Bend & Caddo Lake**

- 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



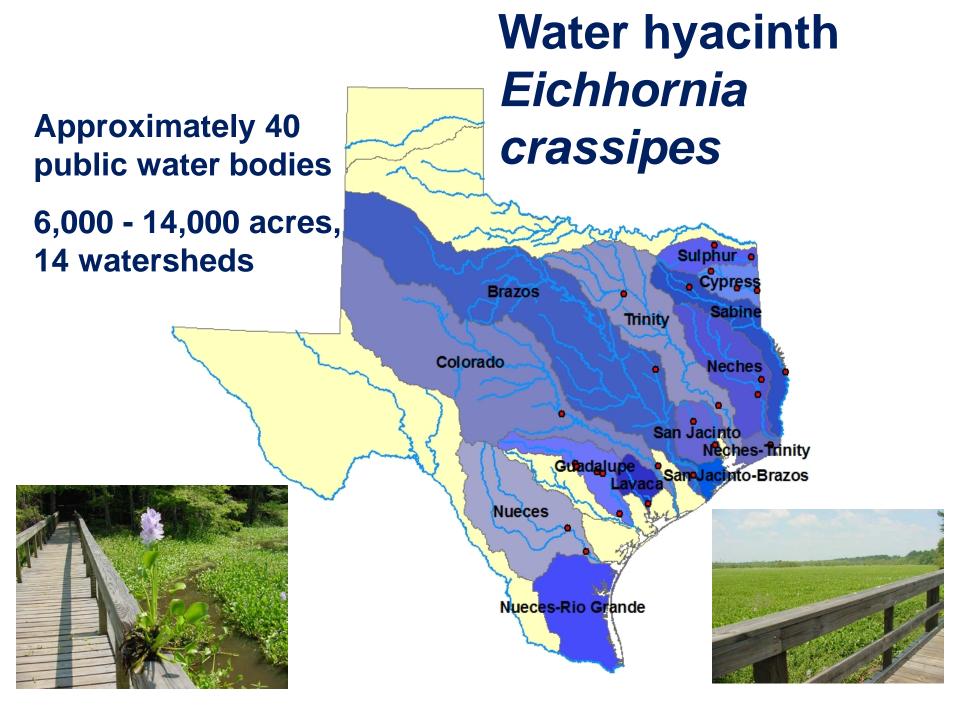


# **Toledo Bend & Caddo Lake**

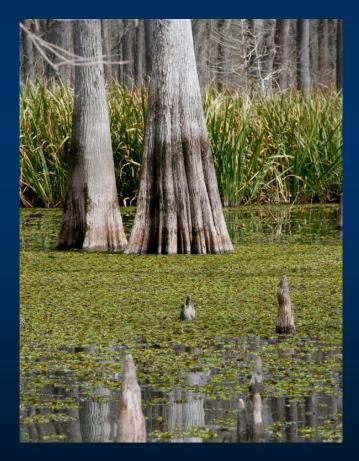
- Currently, \$450,000 budgeted for FY14 (about 32% of the total \$1.3 million aquatic invasive species budget for Texas
- Cost of treating the <u>current</u> acreage (<u>not</u> <u>including the rest of the state</u>) would range from ~\$845,000 to \$2,175,000







# **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

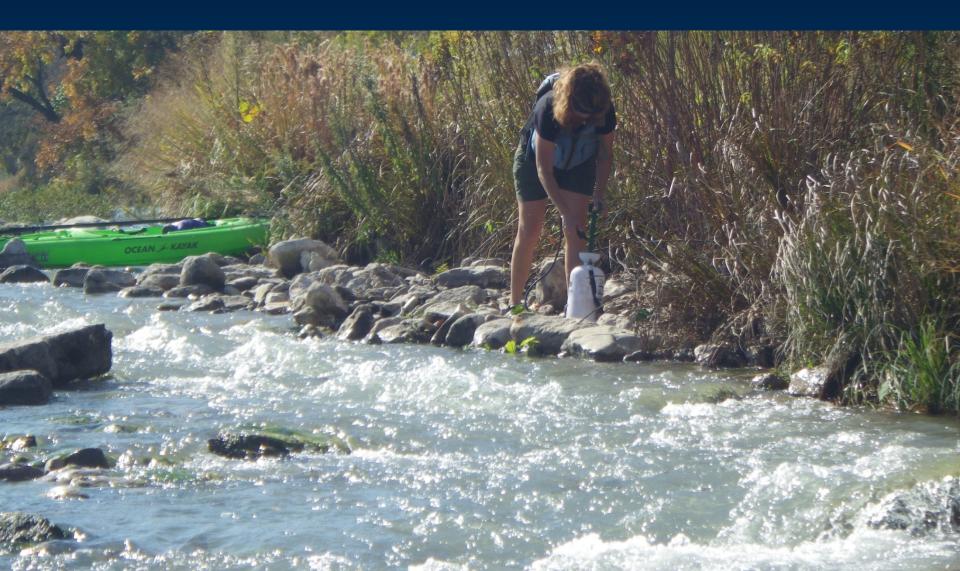
Telegraph



#### July 7, 2012 Post-Treatment Results



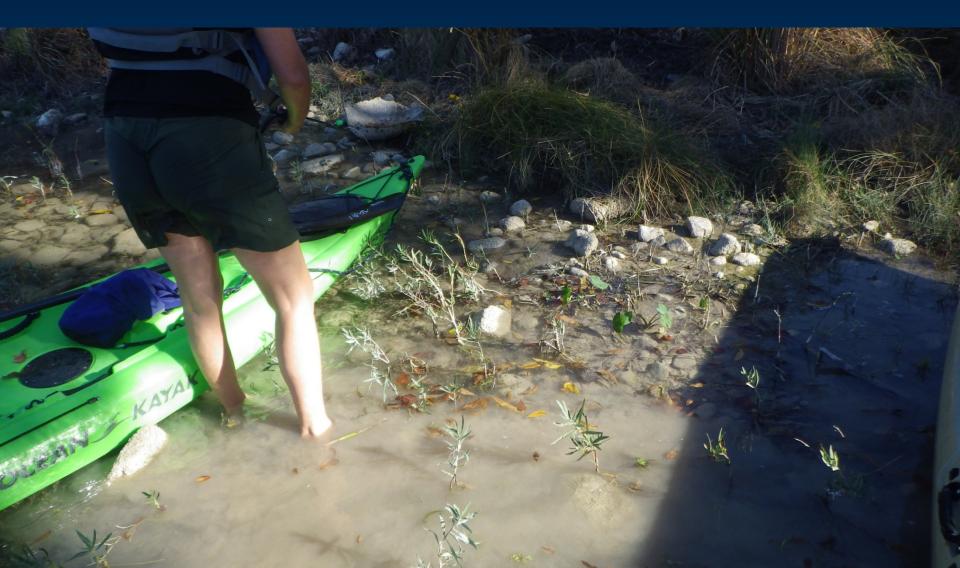
#### **Hand-Held Herbicide Sprayers**



## November 8, 2012 10 Treatment Sites

Telegraph

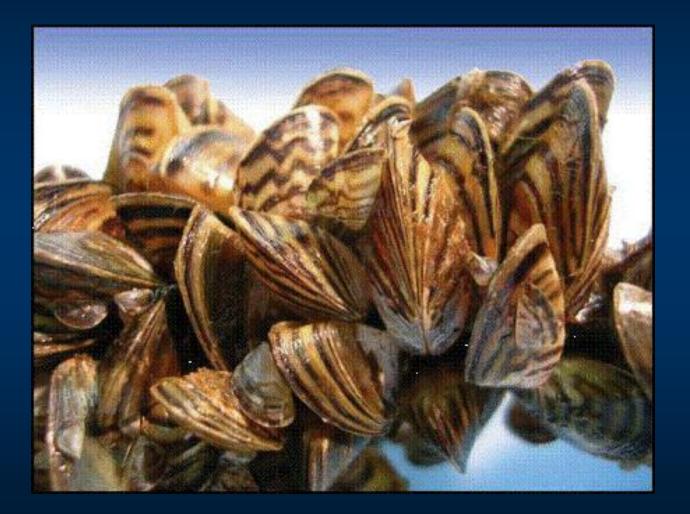
#### November 12, 2012 Treatment



## **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!