# Feral Hogs in a Watershed Context

**Tina Hendon** 

TRWD Watershed Program Manager



# Tarrant Regional Water District

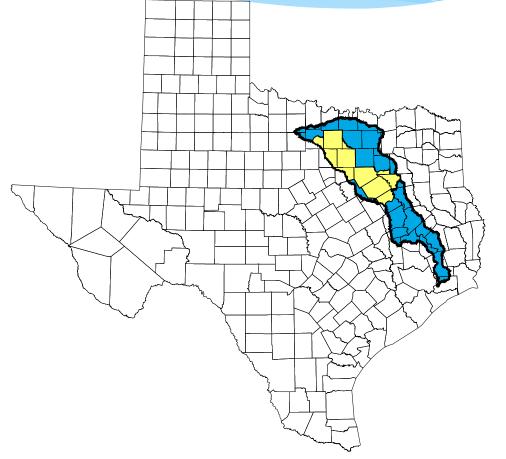
**Located in the Trinity River basin** 

#### Authorized in 1924 for

- Flood Protection
- Water Supply

#### Today...

- Eleven county service area
- > 2 million people
- > 30 wholesale customers





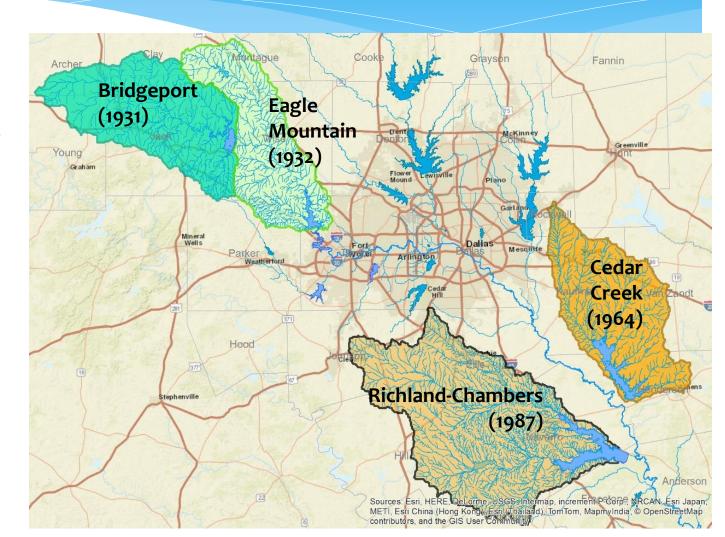
# **TRWD Reservoir Development**

#### **4 Major Reservoirs**

#### Watersheds

>5,000 mi<sup>2</sup>

>5,500 stream mi.



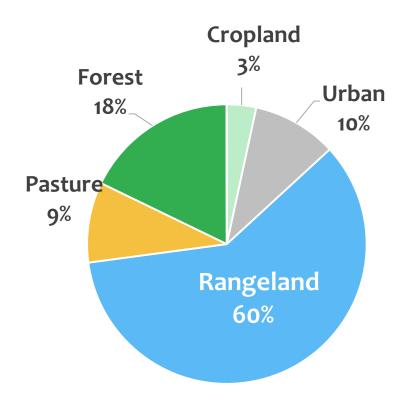


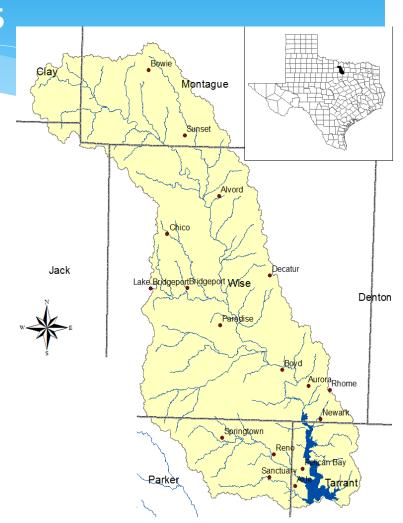
# Eagle Mountain Lake Watershed

Watershed (sq mi) 859

Streams (mi) 975

#### **Land Use**

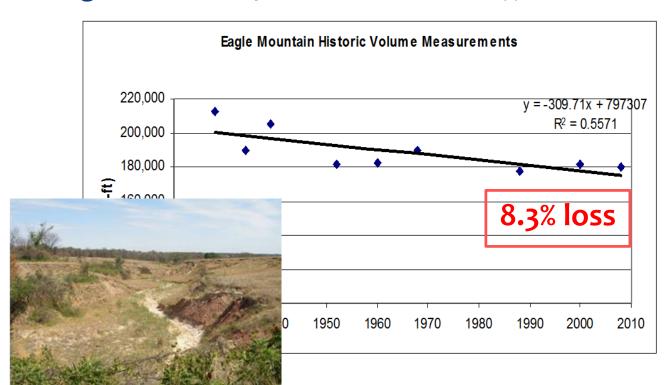


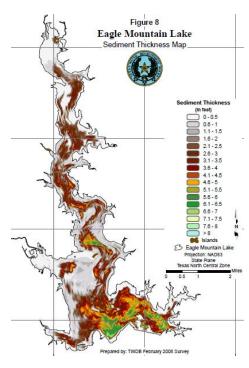




# Water Resource Challenges Threats to Drinking Water Supplies

Sedimentation and water quality changes caused by stormwater <u>runoff</u> and <u>erosion</u>.





## Water Resource Challenges

### **Water Quality - Eutrophication**

#### 20 Yr Trend Study of Chlorophyl-a

Lake	Median (u/gL)	<b>↑</b> Trend (%APR)
Arlington	27.5	6.23
Cedar Crk	20.0	3.60
Eagle Mtn	18.8	2.84
Richland	11.4	2.70
Benbrook	16.7	2.48
Bridgeport	3.5	1.79



# **Protecting Water Quality**

**Watershed Protection Plans** 

#### Stakeholder driven process

Source and load modeling

- Landscape
- ✓ Instream
- ✓ Reservoir

BMPs and Education/Outreach

**Economic Analysis** 

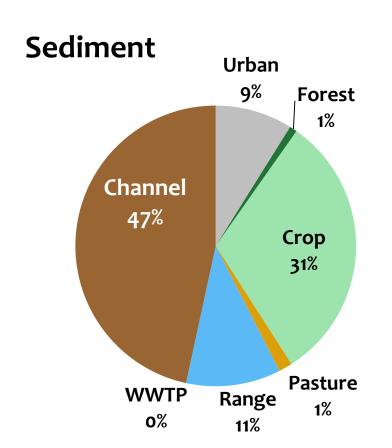
Implementation Plan

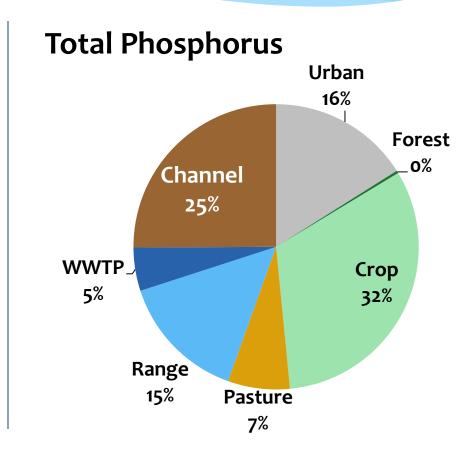
- ✓ Schedule
- ✓ Milestones

Acceptance of plan by State and EPA may open opportunities for future funding.

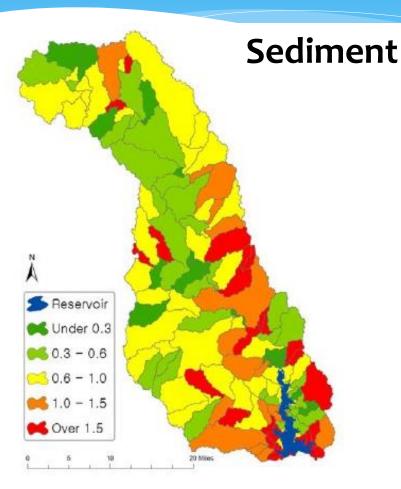
### **Eagle Mountain Lake**

#### Sources of loads to the lake:

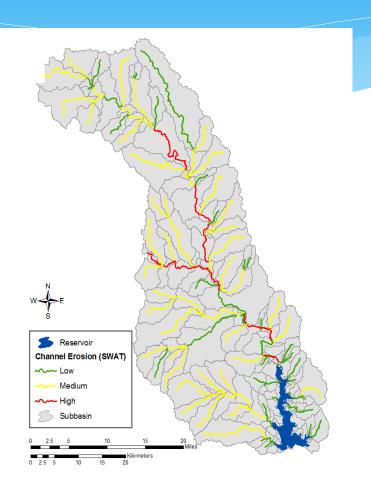




### **Eagle Mountain Lake**

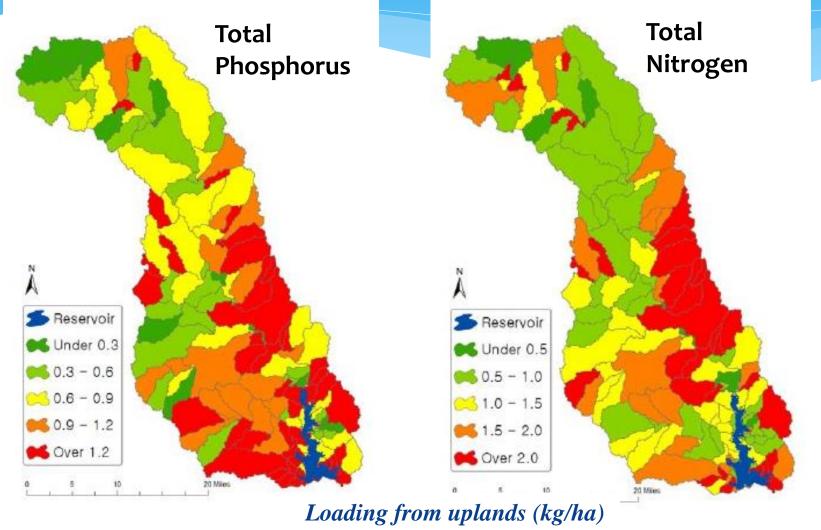


Load from uplands (tons/ha)



Relative loading from channel reaches

### **Eagle Mountain Lake**



### **Eagle Mountain Lake**

#### **SELECT Analysis**

Density: 20 acres per animal

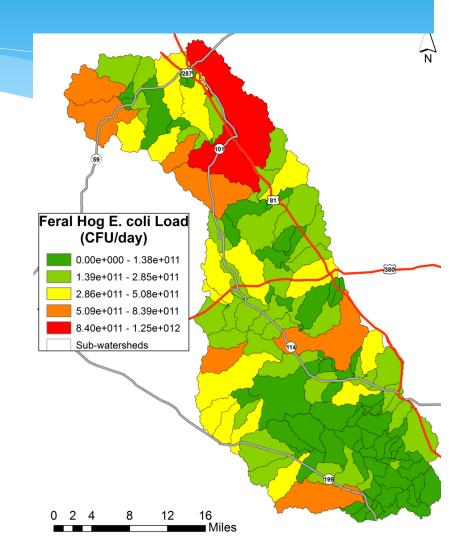
Estimated Population: 4,814

"Home Territory" Land Uses

**Mixed Forest** 

**Deciduous Forest** 

**Evergreen Forest** 



### Feral Hogs – Equal Opportunity Destroyers

#### **Agricultural Land**





**Urban Areas** 





**Stream Channels** 





