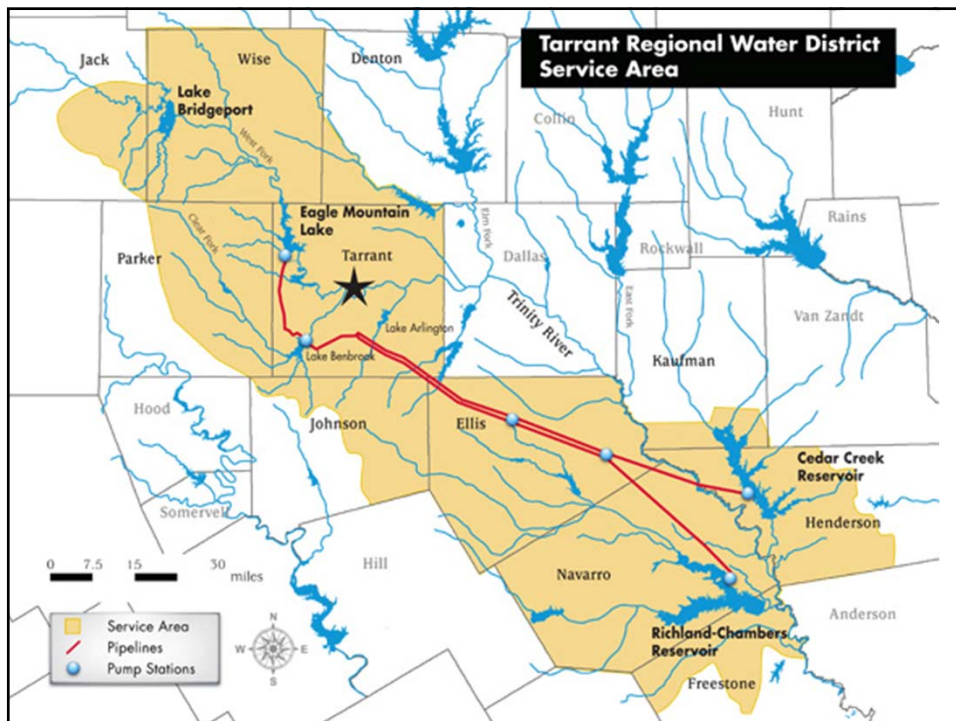


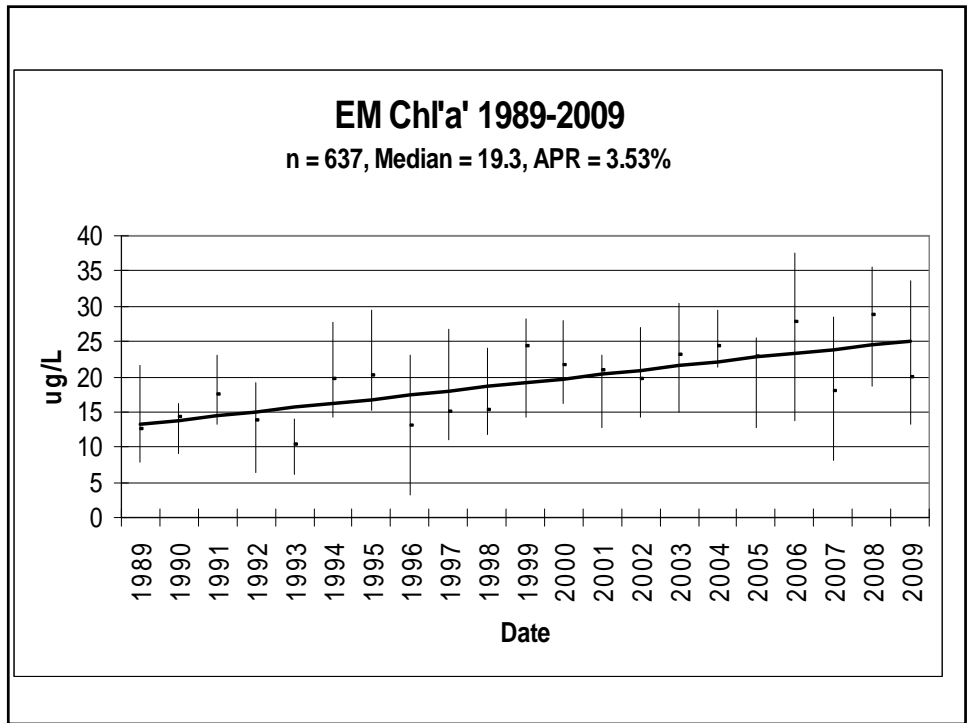
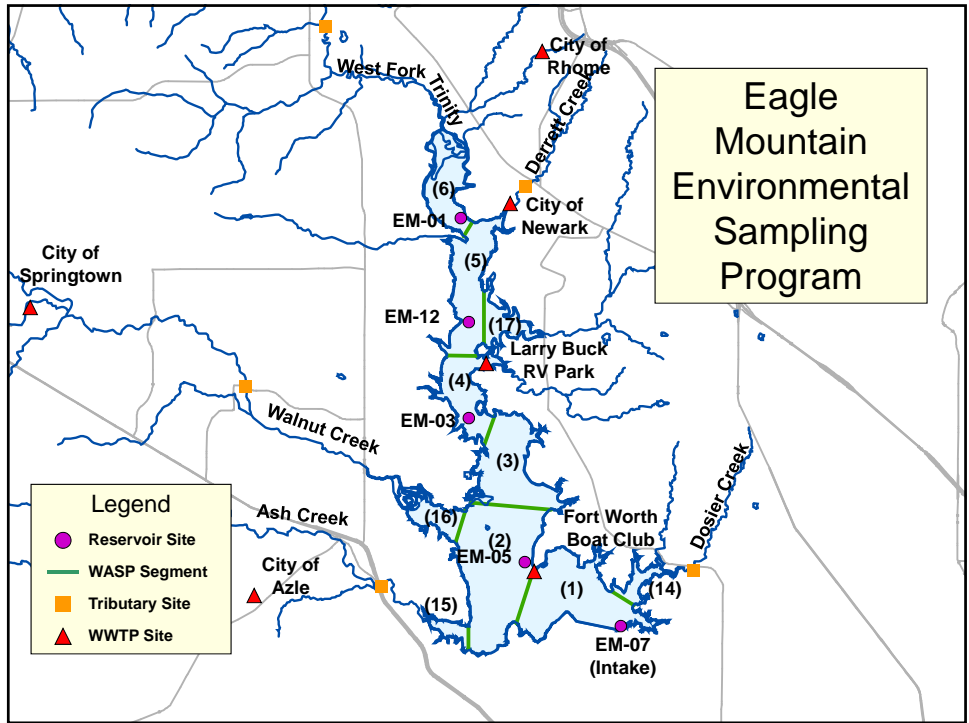
North Central Texas Water Quality Project



Eagle Mountain Lake and Watershed

David Waidler
Texas AgriLife Research
Watershed Coordinator
North Central Texas Water Quality Project





Eagle Mountain Watershed

- Watershed size – 860 square-miles
- Lake Surface area - 8702-acres
- Lake Conservation Storage - 182,505 ac/ft (1 acre foot= 325,851 gallons)



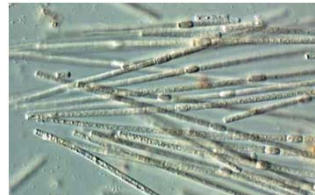
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Eagle Mountain Lake Water Quality -

Reservoir

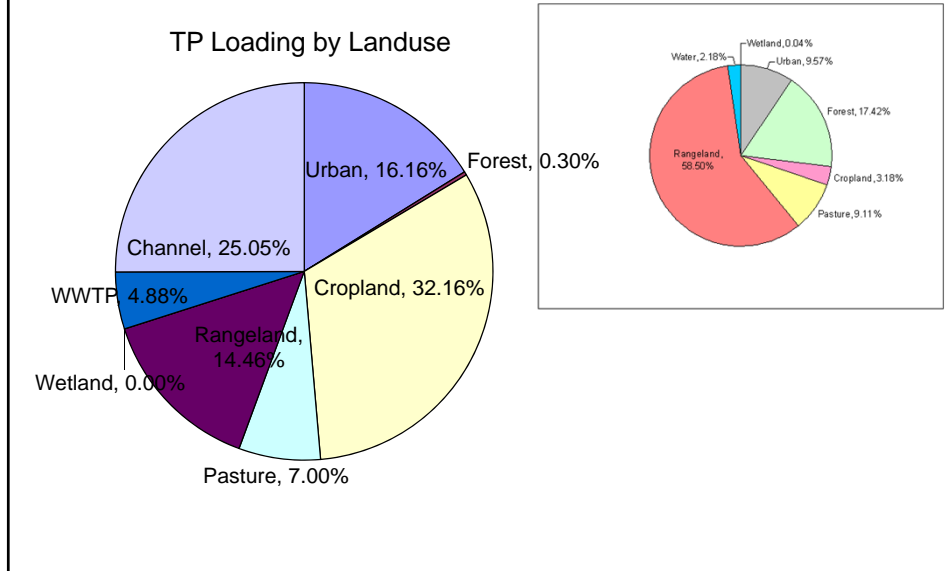
- High pH
- Sediment
- Use Concerns
 - Depressed Dissolved Oxygen
 - Aquatic Life Use Concern
 - Ammonia, Orthophosphorus, Total Phosphorus, Nitrite
 - Nutrient Enrichment Concern
 - Excessive Algal Growth, Chlorophyll-*a*
 - Algal Growth Concern



Watershed

- Texas Water Quality Inventory- Clean Water Act 303(d) Listing for
 - Bacteria (Upper West Fork Trinity below Bridgeport Dam)
 - Standards are currently under review

TP Loading by Landuse



North Central Texas



Water Quality Project

Watershed Protection Planning for Eagle Mountain Lake

- Analysis of point and non-point source pollutant sources utilizing local knowledge, ground surveys, and computer modeling.
- Planning Guided by 30% Reservoir Phosphorus Reduction Goal.
- Follows USEPA 9 Element Guidelines for watershed planning.
- Sub-watershed and site specific best management practice selection and implementation to reach stated pollutant reduction goal.
- Economic assessment of proposed management solutions.
- Management scenarios vetted through computer modeling
- Targeted Education and Outreach Programming.
- Monitoring of results to ensure success.

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Water Quality Project



Partners in Watershed Planning

