



Caddo Lake Fish Consumption Advisory 1995-2005

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Caddo Lake Fish Consumption Advisory Time Line

1992

- Louisiana and Arkansas discovered elevated mercury levels in fish from the Ouachita River.
- Louisiana issued a fish consumption advisory for the Ouachita River, July 1992.

1993

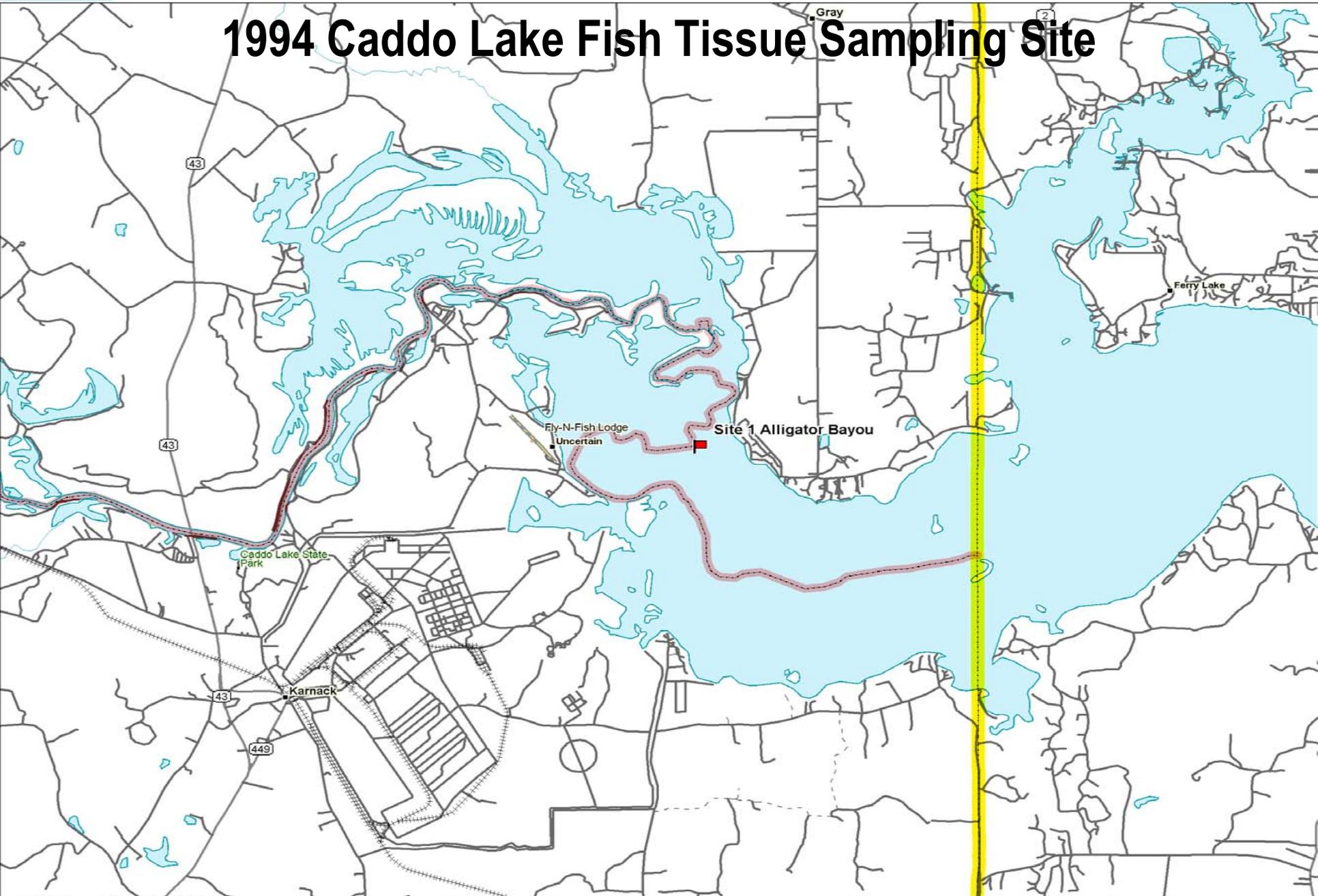
- Arkansas issued fish consumption advisories for the Ouachita River.
- TDH reviewed historical fish and shellfish tissue mercury data from Texas water bodies.
- Louisiana found elevated mercury levels (> 0.5 mg/kg) in largemouth bass from Caddo Lake (Segment 0401) and Toledo Bend Reservoir (Segment 0504) Fall, 1993.

1994

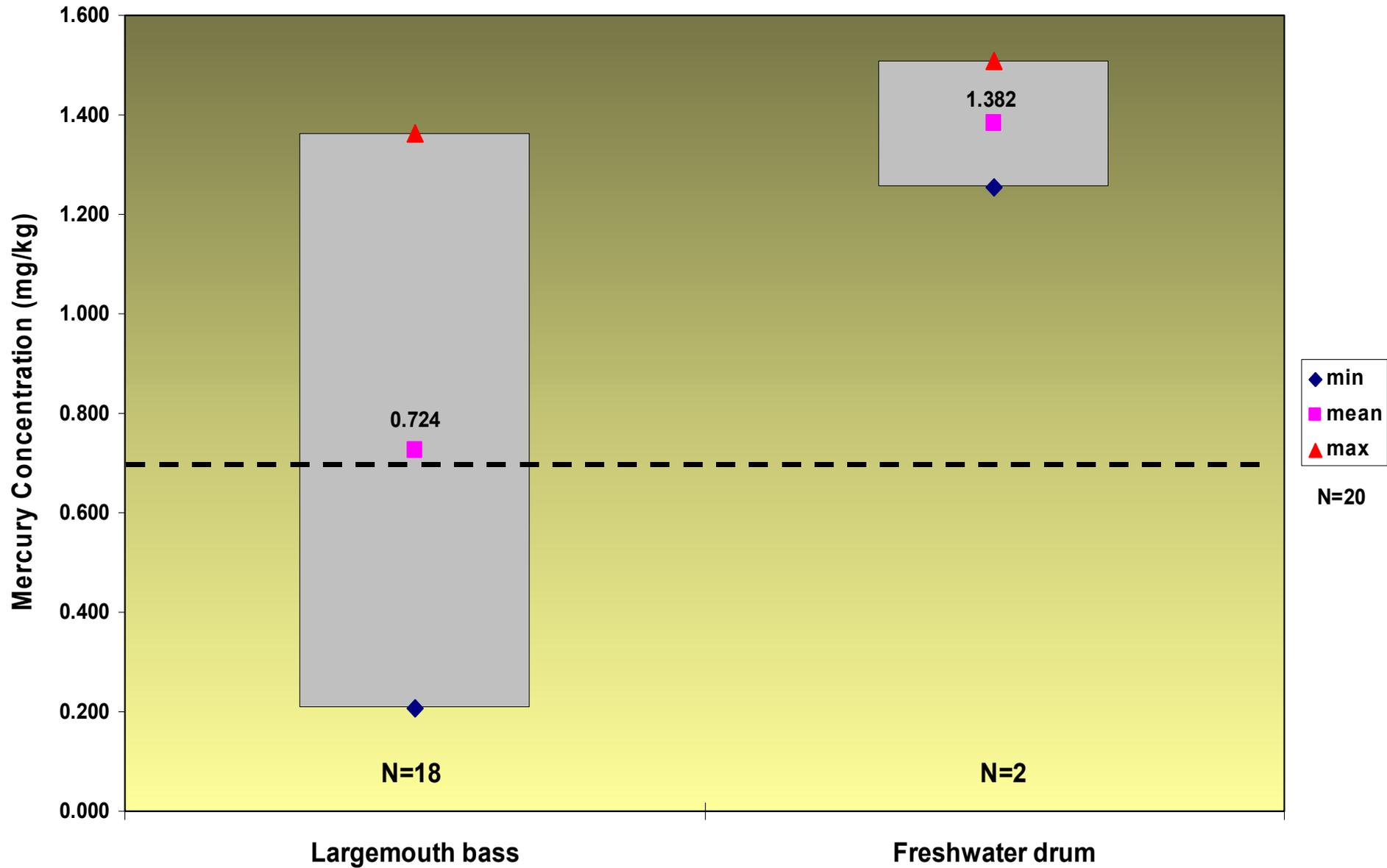
- The Texas Department of Health collected 18 largemouth bass and 2 freshwater drum from Caddo Lake (August 2004).



1994 Caddo Lake Fish Tissue Sampling Site



1994 Caddo Lake Fish Tissue Mercury Levels



1995

- TDH issued a fish consumption advisory for Caddo Lake (ADV-11, Jan. 30, 1995).
- TDH collected fish from several East Texas water bodies including Caddo Lake (34 fish), Spring 1995.
- TDH issued fish consumption advisories for 4 East Texas water bodies and modified the Caddo Lake advisory (ADV-12, Nov. 2, 1995).



Caddo Lake

Fish Consumption Advisory

ADV-11 Issued January 30, 1995

● Contaminant of Concern

- Mercury

● Species Affected

- Largemouth bass and freshwater drum

● Consumption Advice

- No consumption of largemouth bass over 18 inches.
- No consumption of freshwater drum.
- Children under six and women of child bearing age should limit consumption of largemouth bass under 14 inches to one meal (8 ounces women, 4 ounces children) per month.

1995 Caddo Lake Fish Sampling

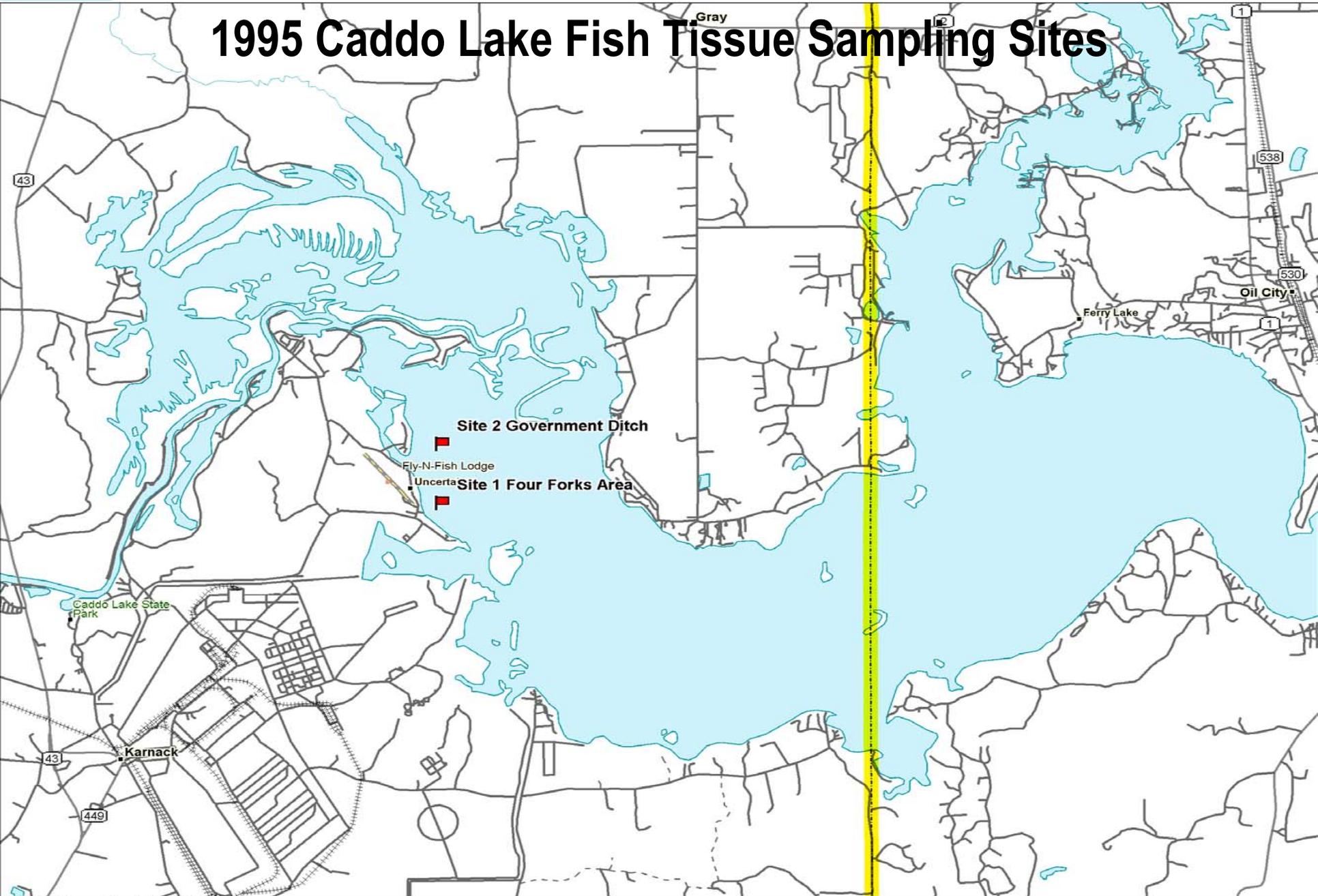
● Target Species

- Thirty four (34) fish comprised of nine (9) species were collected including largemouth bass, freshwater drum, white bass, channel catfish, crappie, spotted sucker, chain pickerel, redear sunfish, and yellow bullhead.

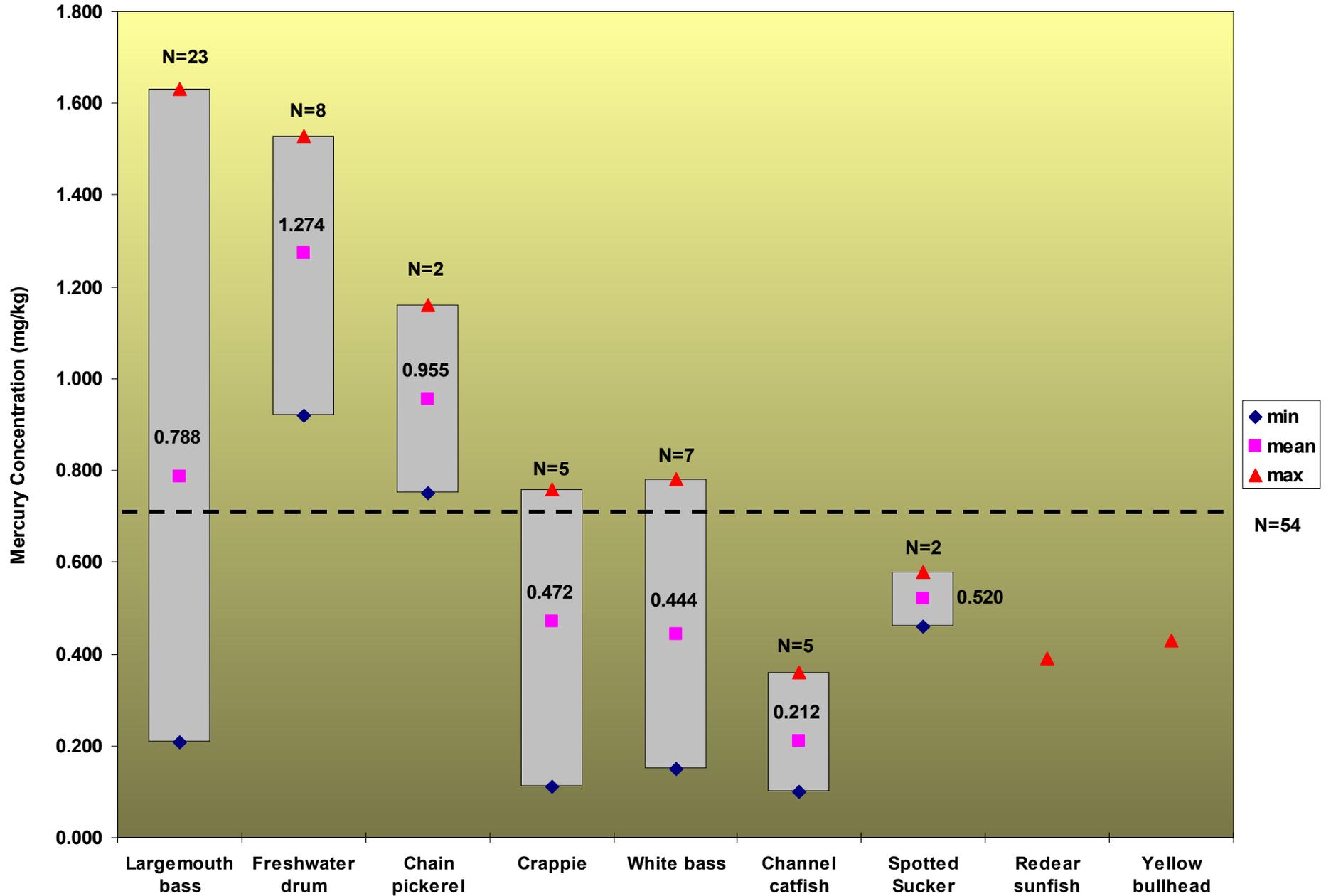
● Sample Site Selection

- Site 1 Four Forks Area
- Site 2 Government Ditch

1995 Caddo Lake Fish Tissue Sampling Sites



1994-1995 Caddo Lake Fish Tissue Mercury Concentrations



2004 Caddo Lake Fish/Frog Sampling

As part of the TDH Mercury Exposure Investigation

● Target Species

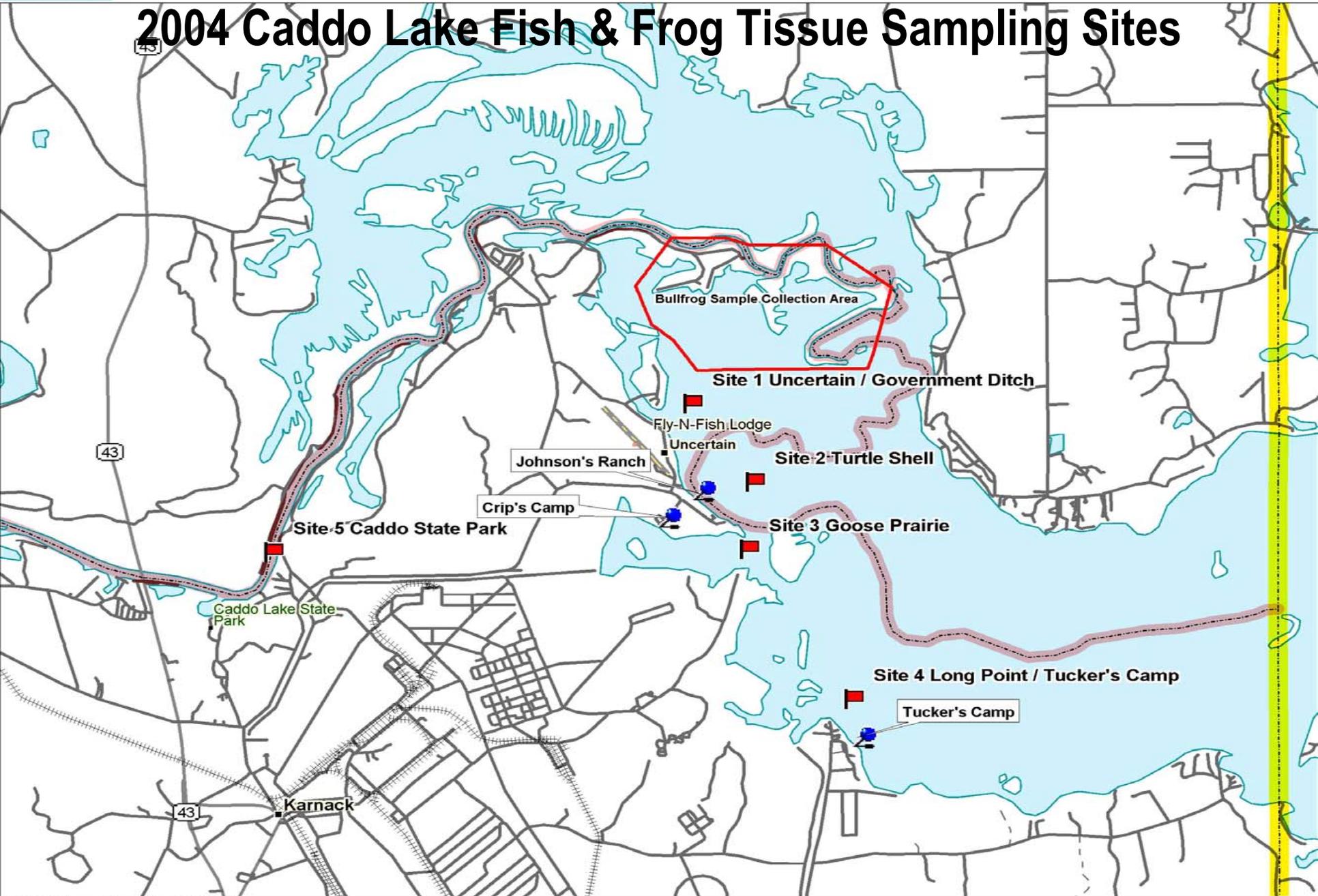
- Crappie
- Sunfish sp. (bluegill, redear, and warmouth)
- Channel catfish
- Flathead catfish
- Largemouth bass
- Bullfrog
- Freshwater drum
- White bass
- Spotted gar
- Chain pickerel

2004 Caddo Lake Fish/Frog Sampling

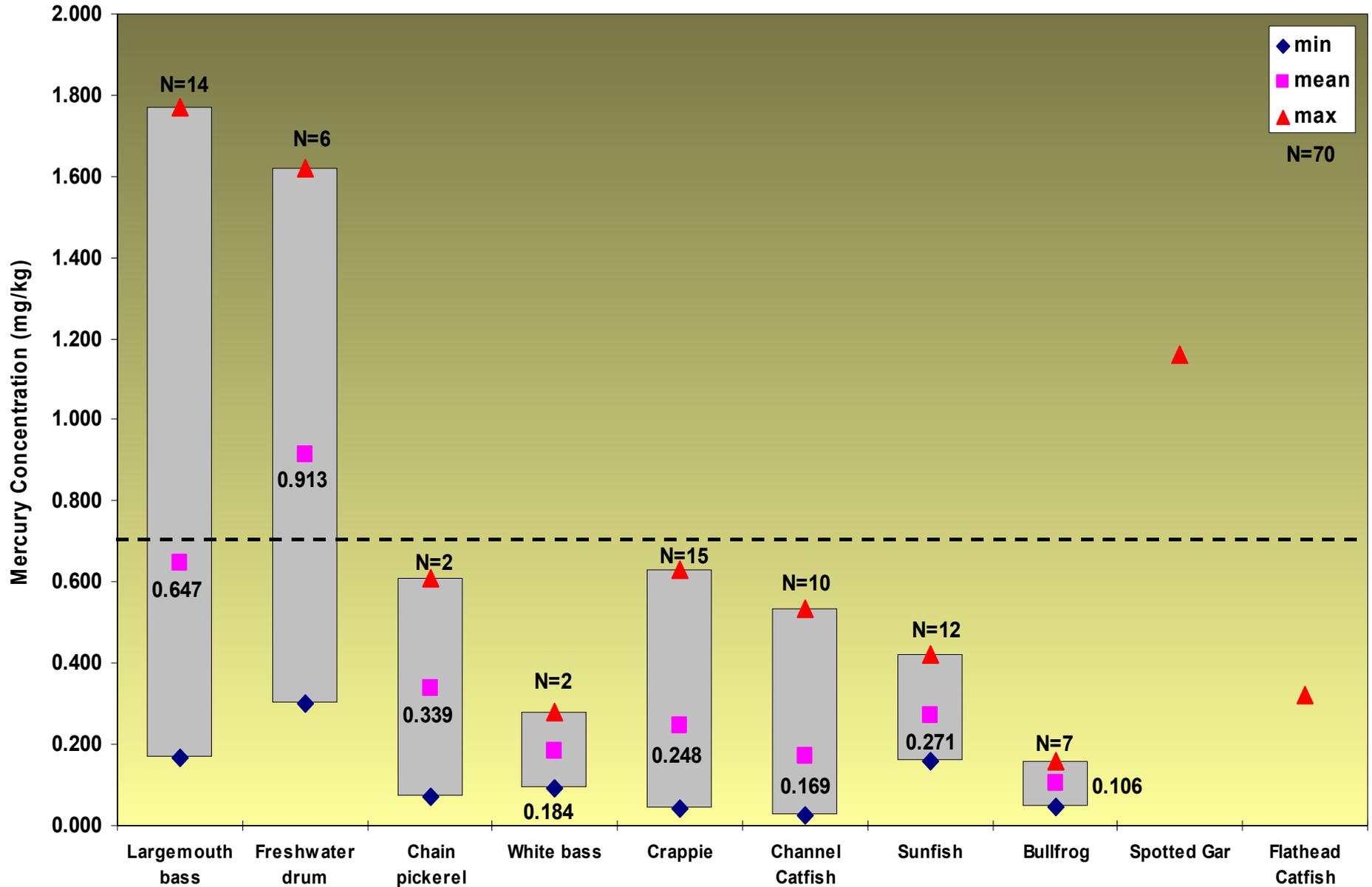
● Sample Site Selection

- Site 1 Uncertain / Government Ditch
- Site 2 Turtle Shell
- Site 3 Goose Prairie
- Site 4 Long Point / Tucker's Camp
- Site 5 Caddo Lake SP

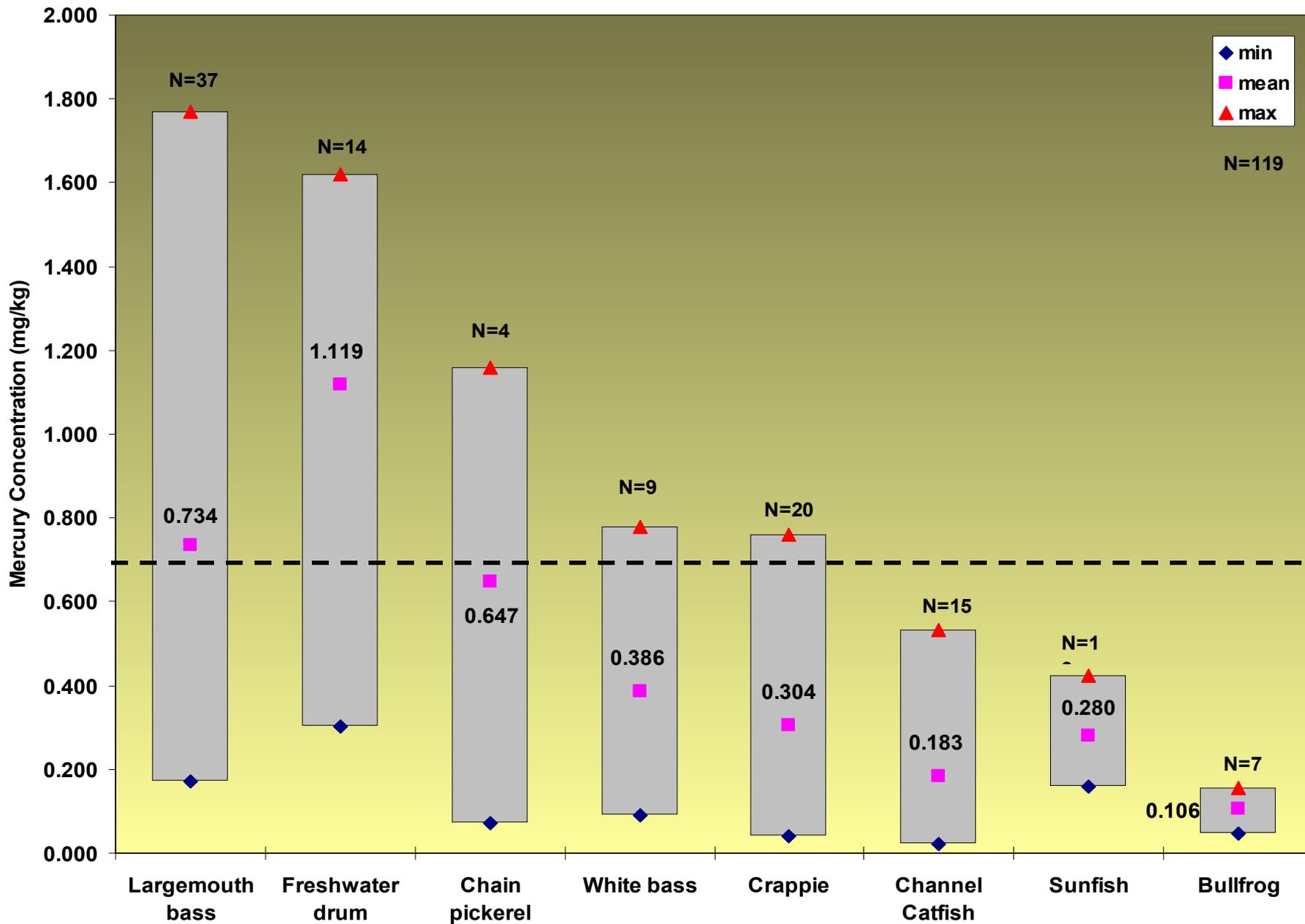
2004 Caddo Lake Fish & Frog Tissue Sampling Sites



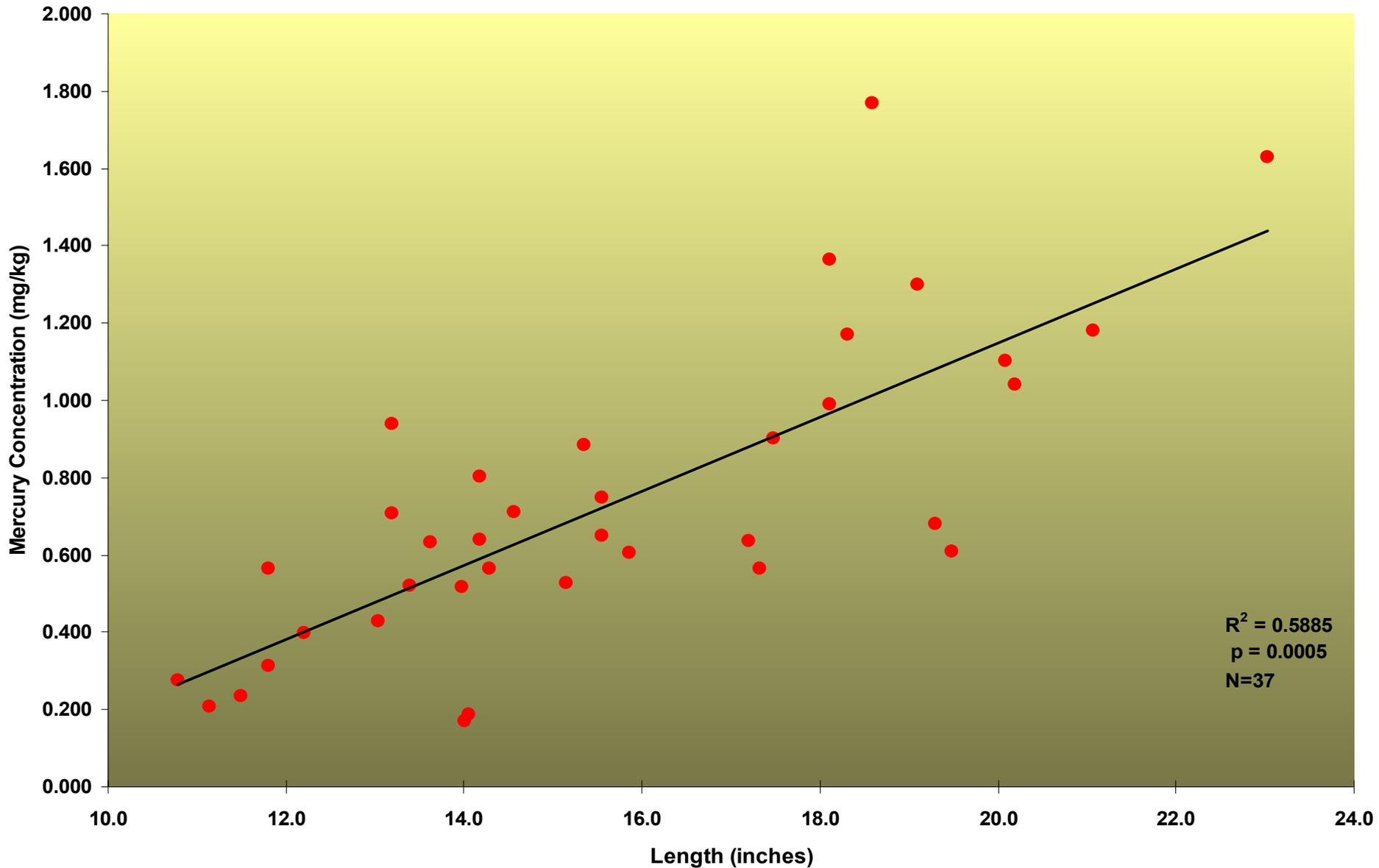
2004 Caddo Lake Fish Tissue Mercury Concentrations



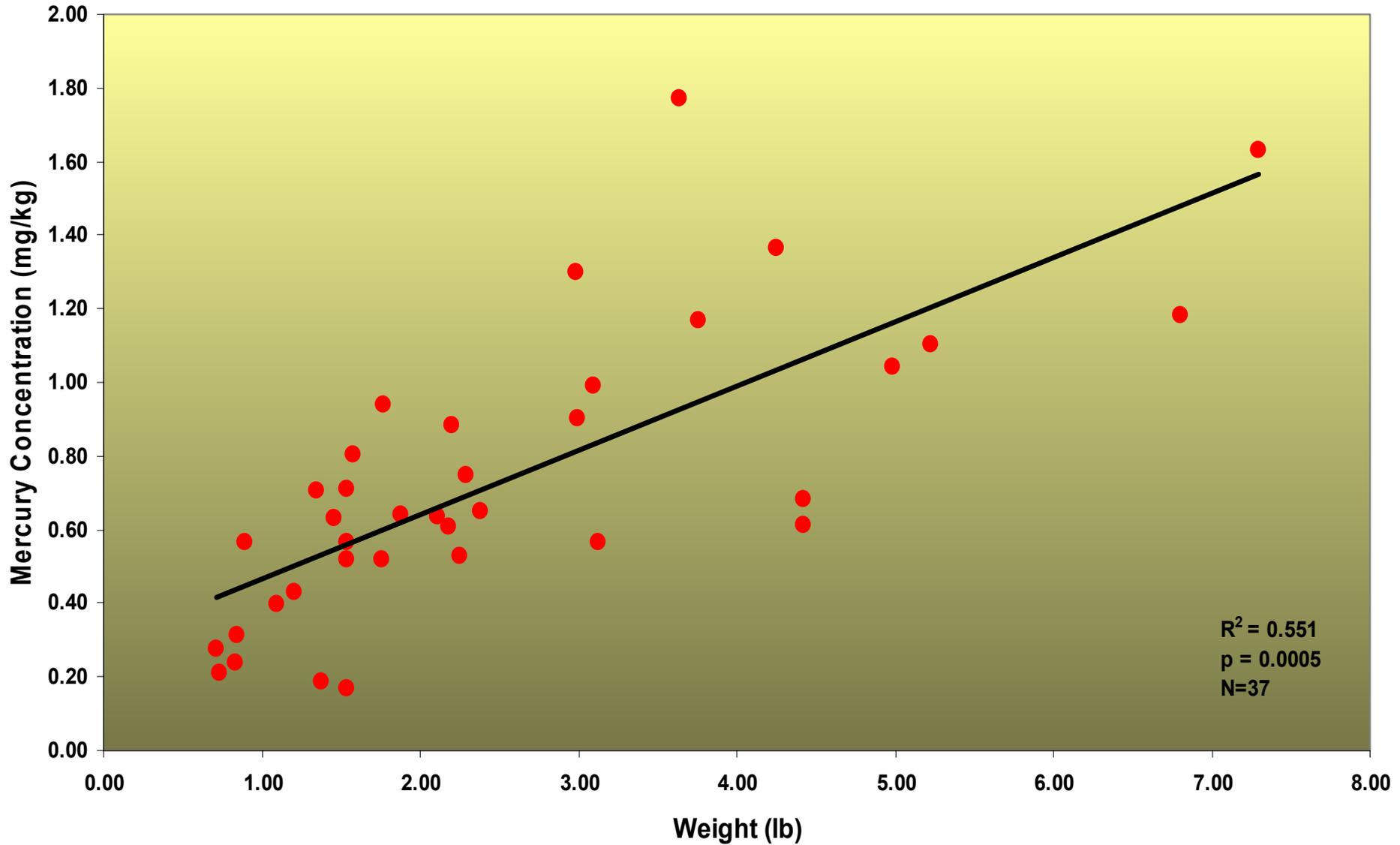
1994-2004 Caddo Lake Fish Tissue Mercury Concentrations



Relationship between Largemouth Bass Length and Mercury Concentration 1994-2004



Relationship Between Largemouth Bass Weight and Mercury Concentration 1994-2004



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