

**Biodiversity  
Round Table**

**November 8, 1994**

**Caddo Lake Institute**

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CADDO LAKE SCHOLARS PROGRAM

BIO-DIVERSITY UPDATE ROUNDTABLE

November 8, 1994

Preliminary Draft AGENDA (Rev. 1 1/1/94)

(to be revised based on respondents' suggestions)

Tuesday, 11/8/94 11:00 to 4:30 Phillips Dining Room  
(ETBU Student Center) Marshall, Texas

(11:00 Roundtable Panelists pre-lunch Planning Meeting)  
(12:00 Panelists lunch served)

1:00 Welcome, Introductions, Scope. Dwight K. Shellman, Jr., Caddo Lake Institute, Inc.  
and Dr. Roy Darville, Chair ETBU Biology Department.

(Panelists time below will include clarifying colloquy with other panelists and invited guests)

1:15 Dr. Carroll Cordes, NBS - Relevance of Caddo Lake Bio-diversity Resource  
Investigations.

1:30 Dr. James Ingold, LSUS, Species Museum/Literature Searches program and schedule

1:50 Dr. Mack Hardy, LSUS, Bird and reptile investigations in progress at LHAAP and  
in the ecosystem.

2:00 Tom Cloud, USFWS, 1993 RC-1 & Ramsar Research Findings as to species.  
communities and linkages.

2:20 Virginia Burkett, NBS, LHAAP, Harrison Bayou Bio-diversity Reconnaissance.

2:30 (Break)

3:00 Douglas Hine, NBS Contractor, Botanical Investigations Status

3:20 Mike Ryan, TPWD, Local Fisheries Bio-diversity

3:40 Charles Muller (or delegate) TPWD, Mammals.

4:00 Cong. Chapman's office/TPWD Basin Bio-diversity Inventory Status.

4:10 Colloquy by Panelists and Guests: presenters' topics, needs. supportive roles of  
Caddo Lake Institute and Scholars projects, including future State of Caddo Lake  
Ecosystem Symposium.

4:30 (Adjourn)

(Panelists who wish are invited to dinner as guests of the Caddo Lake Institute. Inc.)

TOPICS(TYPICAL) draft:

- (1) What are the bio-diversity resources and opportunities and issues of the Caddo Lake Ecosystem, including the Ramsar Wetlands and LHAAP?
- (2) Biota known to be present, or which are or should be under active investigation;
- (3) Which (of these) are actually or probably present on the Longhorn or Ramsar sites;
- (4) What other biological concerns should be considered by agencies which will assess the efforts of toxics or toxic remediation at Longhorn or in the management of Ramsar Wetlands?
- (5) What other literature, lists or investigators should be consulted as to biota not adequately investigated or addressed to date?
- (6) How can the Caddo Lake Institute or the Caddo Lake Scholars Program stimulate or support research, investigation, conservation or local ecological education based upon these local bio-diversity resources.

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**THE CADDO LAKE INSTITUTE, INC.  
BIODIVERSITY ROUNDTABLE  
NOVEMBER 8, 1994**

**TABLE OF CONTENTS**

**RAMSAR OVERVIEW**

1 U.S. Fish and Wildlife Service, Southwest Region. 1993. A Proposal for Designation of Protected Areas at Caddo Lake, Cypress Bayou Basin, Texas as Wetlands of International Importance. U.S. Fish and Wildlife Service: Albuquerque, N.M.

2. Ramsar Bureau. 1994. Ramsar Newsletter. No. 19, August 1994

3. Dan Angel. 1993. Caddo Lake Scholars College Consortium "Presidents' Letter" to Hon. Bruce Babbitt, May 3, 1993, by President Dan Angel, Stephen F. Austin State University. (One of three such letters; others by President Bob Riley of East Texas Baptist University, April 2, 1993 and President David Beckley of Wiley College, April 7, 1993).

**ECOSYSTEM BIODIVERSITY CHARACTERIZATIONS**

1. Tom Cloud and Russell Watson. 1991. Planning Aid Report, Red River Waterway, Shreveport to Daingerfield Reach. U.S. Fish and Wildlife Service: Arlington, TX and Vicksburg, MS. January, 1991.

2. Robert M. Short. 1993. Letter to Colonel Stephenson W. Paige, U.S. Army Corps of Engineers, Vicksburg, MS. U.S.F.W.S. Habitat evaluations on Daingerfield Reach based on cover types and habitat suitability indices. U.S.F.W.S. Ecological Services, Arlington, TX. May 19, 1993.

3 U.S. Fish and Wildlife Service. 1993. Caddo Lake: A Unique Wetland Ecosystem, A Delineation of Resource Category 1 Habitat Under the U.S.F.W.S. Mitigation Policy. With Table 1 appendix, The Caddo Lake Project Rare Plant and Animal Species and Natural Communities Compiled by Tom Hayes, Texas Nature Conservancy.

4. Daniel Gregg, 1993. A Waterfowl Technical Appendix for the Red River Waterway Shreveport to Daingerfield Reach Reevaluation Study. U.S. Fish and Wildlife Service: Atlanta, GA. May, 1993.

5. U.S. Army Corps of Engineers. 1994. Aquatic Resources, Appendix 6. Red River Waterway Project Shreveport, LA to Daingerfield, TX Reach Reevaluation Study In-Progress Review.

## **SPECIES LISTS**

### **PHYTOPLANKTON**

1. Table 14. Checklist of Zooplankton by region for Caddo Lake.  
Source: C.M. Crowley. 1993. A Study of the Ecological Integrity of Caddo Lake, Texas and Louisiana. Stephen F. Austin State University.

### **VASCULAR PLANTS**

1. Douglas N. Hine and James E. Van Kley. 1994. Preliminary Checklist of the Vascular Plants of Caddo Lake State Park and Wildlife Management Area. Stephen F. Austin State University.

2 Roy Darville and Greg Brock. 1994. Aquatic Vegetation of Caddo Lake, Texas. East Texas Baptist University. Summary of data from Inland Fisheries Division of Texas Parks and Wildlife Department.

### **FUNGI**

## ZOOPLANKTON

1. Table 14. Checklist of Zooplankton by Region for Caddo Lake.

Source: C.M. Crowley. 1993. A Study of the Ecological Integrity of Caddo Lake, Texas and Louisiana. Stephen F. Austin State University.

## AQUATIC INVERTEBRATES

1. Table 10. Checklist and Regional Mean Count of Benthic Macroinvertebrates by Region for Caddo Lake. C. M. Crowley. 1993. A Study of the Ecological Integrity of Caddo Lake, Texas and Louisiana. Stephen F. Austin State University.

2. Mussel Survey: Red River Waterway Shreveport, LA, to Dainger field, TX, Reach Reevaluation Study In-Progress Review. 1992. U.S. Army Corps of Engineers, Vicksburg, District.

## TERRESTRIAL INVERTEBRATES

## FISH

1. Roy Darville and Greg Brock. 1994. Fish Inventory of Caddo Lake, 1953 - 1993. East Texas Baptist University. Summary of data from Inland Fisheries Division of Texas Parks and Wildlife Department.

2. Table 6-I. Habitat Guilds for Cypress and Twelvemile Bayou Fishes, Based on Preferred Velocities and Spawning Substrate. Appendix 6 aquatic resources, Red River Waterway Shreveport, LA, to Daingerfield field, TX, reevaluation in-progress, page 6  
2. U.S. Army Corps of Engineers (included in Ecosystem Overview).

3. Table 6-2 Relative Abundance of Cypress Bayou and Twelvemile Bayou Fishes, April - August 1992. Appendix 6 aquatic resources, Red River Waterway Shreveport, LA, to Daingerfield, TX, reevaluation in-progress, pages 6-I 9 -- 6-21. U.S. Army Corps of Engineers (included in Ecosystem Overview).

## AMPHIBIANS

## REPTILES

## BIRDS

1. Dorothy Metzler, compiler. 1994. Field Checklist of Birds of Caddo Lake, Including Caddo Lake State Park and Wildlife Management Area.
- 2 Table 3. Mid-winter Waterfowl Survey for Northeast Texas. A Waterfowl Technical Appendix for the Red River Waterway Shreveport to Daingerfield Reach Reevaluation Study by Daniel Gregg, Fish & Wildlife Biologist, USFWS, Southeastern Region, May, 1993, page 13 (included in Ecosystem Overview)
3. Table 4. Mid-winter Waterfowl Survey for Louisiana. A Waterfowl Technical Appendix for the Red River Waterway Shreveport to Daingerfield Reach Reevaluation Study by Daniel Gregg, Fish & Wildlife Biologist, USFWS, Southeastern Region, May, 1993, page 14 (included in Ecosystem Overview)
- 4 Table 5. Waterfowl Harvest Survey, 1982 - 1992 (Pineywoods, Texas Geographical Unit). A Waterfowl Technical Appendix for the Red River Waterway Shreveport to Daingerfield Reach Reevaluation Study by Daniel Gregg, Fish & Wildlife Biologist, USFWS, Southeastern Region, May, 1993, page 15 (included in Ecosystem Overview)

## MAMMALS

## RARE PLANT AND ANIMAL SPECIES AND NATURAL COMMUNITIES

1. Tom Hayes. 1991. The Caddo Lake Project: Rare Plant and Animal Species and Natural Communities. Texas Nature Conservancy. Appended as Table 1 to Caddo Lake, A Unique Wetland Ecosystem: A Delineation of Resource Category 1 Habitat under the U.S. Fish and Wildlife Service Mitigation Policy. U.S. Fish & Wildlife Service, Ecological Services, Arlington, TX. April 1993.

## BIODIVERSITY RESEARCH PLANS