

PERFORMANCE REPORT

As Required by

FEDERAL AID IN SPORT FISH RESTORATION ACT

TEXAS

FEDERAL AID PROJECT F-30-R-29

STATEWIDE FRESHWATER FISHERIES MONITORING AND MANAGEMENT PROGRAM

2004 Survey Report

**Pauline Reservoir**

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## EXECUTIVE SUMMARY

Low water levels at Pauline Reservoir prevented surveys with trap nets and electrofishing in 2004 and gill nets in 2005. This report summarizes the general history of the reservoir.

**Reservoir Description:** Pauline Reservoir is a 600 acre impoundment located five miles east of Quanah in Hardeman County, Texas. The reservoir was created in 1910 by impounding Wanderers Creek, a tributary of the Prairie Dog Town Fork of the Red River. It was totally renovated in 1963. It is owned and operated by West Texas Utilities Company to provide cooling water for its power generating facility and for recreation. The reservoir is relatively shallow and has experienced heavy siltation. The area has experienced an extended drought from about April 1998 through May 2004. Recent rains have not been enough to refill the reservoir to allow boat access. Angler and boat access is adequate when water levels are at normal pool. There are no handicap specific facilities. Habitat consisted primarily of nondescript shorelines with sparse areas of native emergent and flooded terrestrial vegetation. The reservoir experienced a severe *Prymnesium parvum* kill in spring 2005.

### Management Strategies

- The reservoir will be restocked to re-establish populations of sport species when water levels increase to sufficient levels. Stocking of palmetto bass will be discontinued due to limited angler access and use of the species.

### Status of Management Actions from 2001 (Munger 2001)

**ISSUE 1** Palmetto bass stocking is needed to maintain an adequate abundance of this non-reproducing species. The current stocking regime of 10 fish/acre/year has resulted in fish having lower than desired condition indices.

#### MANAGEMENT STRATEGIES

1. Stock palmetto bass fingerlings at 5 fish/acre every other year.

**ACTION:** Inapplicable due to recent *P. parvum* kill. Stocking of palmetto bass will be re-evaluated when the reservoir regains adequate water levels.

### Literature Cited

Munger, C. 2001. Statewide freshwater fisheries monitoring and management program survey report for: Pauline Reservoir, 2000-2001. Texas Parks and Wildlife Department, Federal Aid In Sport Fish Restoration, Grant F-30-R, Performance Report, Austin.

**APPENDIX A**

Proposed sampling schedule for Pauline Reservoir. Trap net and electrofishing surveys are conducted in the fall and gill net surveys are conducted in the spring. The letter S indicates standard sampling and R is requested removal of standard sampling.

Year	Electrofishing	Trap Net	Gill Net	Report
Fall 2005 – Spring 2006				
Fall 2006 – Spring 2007			R	
Fall 2007 – Spring 2008				
Fall 2008 – Spring 2009	S	S	S	S