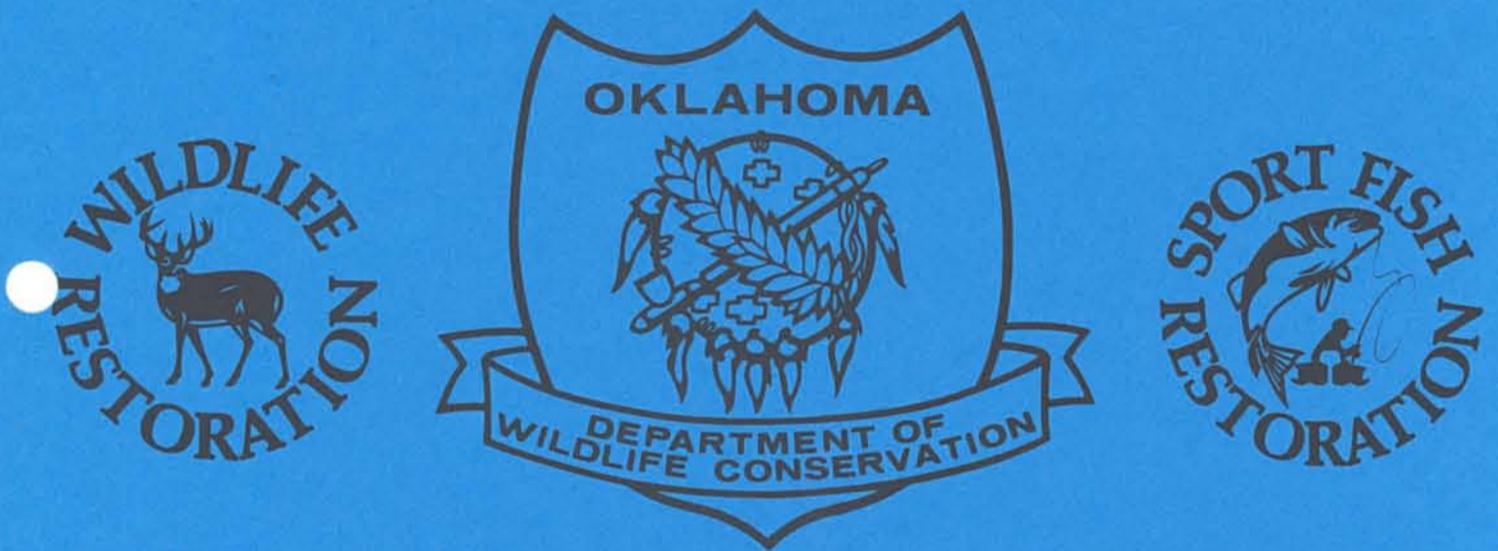


SURVEY REPORT
OKLAHOMA FISHERIES MANAGEMENT



FISH MANAGEMENT SURVEY AND RECOMMENDATIONS

FOR

Haskell

1997

Introduction
Performance Report

State: Oklahoma

Project No. F-44

Project Title: Oklahoma Fisheries Management Program

Study Title: Surveys and Recommendations - Haskell City Lake

Period Covered: 1 January 1997 - 31 December 1997

LAKE HASKELL

ABSTRACT

Lake Haskell was sampled by spring electrofishing in 1997 to determine fish population trends. Largemouth bass abundance was acceptable, (C/f = 49.00). Bluegill sunfish were high in abundance (C/f = 102.00).

Recommendations include stocking 900 Channel catfish and fall gillnetting in 1998 to determine success of past Channel catfish stocking.

Introduction

Lake Haskell impounds Coal Creek, within the city limits of Haskell in Muskogee County, Oklahoma (Fig. 1). Haskell City Lake covers 8.1 surface hectares and was constructed by the City of Haskell for water supply. Lake Haskell has a mean depth of 3.05 meters and a maximum of 9.15 meters, a secchi disc of approximately 33 cm in the main pool in August, any turbidity is primarily from plankton. Fish habitat consists primarily of fallen trees with the upper reaches virtually covered with emergent vegetation.

Several departmental stockings have been made to this date (Table 1.). A concrete boat ramp was built with the help of federal aid money. Haskell City Lake was sampled in 1997 by spring electrofishing to evaluate largemouth bass and bluegill sunfish populations.

Results

Largemouth bass

1. Largemouth bass abundance from 1997 spring electrofishing (C/f =49.00 Table 2), was above the minimum acceptable value for a quality fishery (C/f = 40).
2. The abundance of Largemouth bass below 200 mm was satisfactory, while abundance of Largemouth bass larger than 200mm was less than satisfactory (Table 2).
3. Body condition values, (Wr), were fair or acceptable for

smaller length groups but were unsatisfactory for larger length groups.

Bluegill

1. Bluegill abundance from 1997 spring electrofishing ($C/f = 102.00$), was above the minimum acceptable value for a quality forage supply (Table 3).
2. Abundance of intermediate size Bluegill decreased from the last survey while the Wr 's of that length group increased to acceptable limits.

Recommendations

Fish Stocking

1. Stock Channel catfish at a rate of 60 per hectare for a total of 900 catfish.

Fish Surveys

1. Fall gillnet in 1998 to determine survival of stocked Channel catfish.

Prepared by Gary L. Peterson

Gary L. Peterson

Fisheries Technician III

Approved by JOE BOON

Assistant Chief of Fisheries

Table 1. Species, number and size of fish stocked in Haskell City Lake.

DATE	SPECIES	NUMBER	SIZE
1982	Channel Catfish	390	10"
1982	Channel Catfish	1700	3"
1983	Channel Catfish	850	6"
1984	Channel Catfish	3000	3"
1985	Channel Catfish	1008	4"
1986	Channel Catfish	900	10"
1987	Channel Catfish	2000	8"
1989	Channel Catfish	2000	3"
1990	Channel Catfish	2250	9"
1992	Channel Catfish	1400	5"
1997	Channel Catfish	900	7"

Table 2. Total number (No.), catch rates (C/f), and relative weights (W_r) by size groups of largemouth bass collected by spring electrofishing from Haskell City Lake. Numbers in parentheses represent acceptable C/f values for a quality fishery. Acceptable W_r values are ≥ 90 .

Year	No.	Total (≥ 40)		<200 mm (15-45)		200-299 mm (15-30)		≥ 300 mm (≥ 15)		≥ 356 mm (≥ 10)	
		C/f	W_r	C/f	W_r	C/f	W_r	C/f	W_r	C/f	W_r
1993	68	68.00	91	32.00	97	24.00	12.00	87	5.00	90	
1997	49	49.00	87	32.00	96	9.00	8.00	80	2.00	79	

Table 3 Total number (No.), catch rates (C/f), by size groups of bluegill collected by spring electrofishing from Haskell City Lake. Numbers in parentheses represent acceptable C/f values for a quality fishery.

Year	Total	<75 mm		75-149 mm		≥150 mm		
	(≥45)	C/f	(≥10)	W _r	C/f	W _r	C/f	W _r
1993	122	122.00	15.00	--	99.00	86	8.00	89
1997	102	102.00	33.00	--	55.00	97	14.00	95

