

SURVEY REPORT
OKLAHOMA DEPARTMENT OF WILDLIFE CONSERVATION



FISH MANAGEMENT SURVEY AND RECOMMENDATIONS
FOR
ENID WATERWORKS
2025

SURVEY REPORT

State: Oklahoma

Project Title: Enid Waterworks Fish Management Survey Report

Period Covered: 2017-2025

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ENID WATERWORKS

ABSTRACT

Enid Waterworks was sampled in 2025 for channel catfish using tandem baited hoop nets. Results from this survey showed that there is a small population of channel catfish due to low catch per unit effort (CPUE) values and low number of individuals collected.

INTRO

Enid Waterworks is located in Garfield County and owned by the City of Enid. It is managed as a Close To Home Fishing Area through a cooperative agreement between the City of Enid and the Oklahoma Department of Wildlife Conservation. Enid Waterworks has a surface area of 2.9 surface acres and a shoreline length of 0.36 mi.

Waterworks is open to fishing and is stocked with channel catfish and hybrid sunfish (Appendix 1).

Enid Waterworks was sampled by means of baited tandem hoop nets for channel catfish in the summer of 2025.

RESULTS

Channel Catfish

Channel catfish were surveyed in the summer of 2025 at Enid Waterworks. The surveys were conducted following Standard Sampling Procedures for Fisheries Management. Tandem hoop net surveys were conducted by setting six stations of three net nights each totaling 18 net nights. Each station was three hoop nets set in tandem with the bridle end tied to the cod end. Each of these three nets was baited with a whole bar of Zoat soap or cheese bait (400g). This bait was first placed in a 0.9 kg plastic sample jar with 25-30 6 mm holes in it. The largest hoop on these nets was 0.8 meters and the net itself was approximately 3.4 meters long.

In 2025, the catch per unit effort (CPUE) value for channel catfish was 2.65. This low CPUE value demonstrates that the channel catfish population in Enid Waterworks was low. The statewide average CPUE value for channel catfish hoop net surveys in Oklahoma is CPUE=4.27. The CPUE value from the 2025 survey was lower than the statewide average CPUE value (Table 1).

The proportional size distribution (PSD) value was low at Enid Waterworks. With a value of PSD=50, half of individuals collected from the survey were of favorable size for anglers to interact with. The statewide average PSD value for channel catfish collected in hoop net surveys is PSD=24. This value of PSD=24 is lower than the recorded value of PSD=50 in 2025 (Table 2).

Mean length at age follows the trend of fish having larger length values at older ages (Table 3).

Length frequency figures show that there is a higher frequency of mid-sized individuals collected (Figure 1). The sample size for the survey was small and there is only one year of data limiting the analysis that can be accurately conducted.

It is recommended that additional surveys on Enid Waterworks be conducted, and channel catfish stocking be continued

Table 1: Total number (No), catch per unit effort (CPUE) by size group of Channel Catfish collected in hoop net surveys from Enid Waterworks.

		Total CPUE	Stock 280mm	Quality 410mm
Year	No	CPUE	CPUE	CPUE
2025	24	2.65	1.32	1.32

Table 2: Proportional Size Distribution (PSD) for channel catfish collected from Enid Waterworks hoop net surveys.

Year	PSD
2025	50

Table 3: Mean total length at age (mm) for channel catfish collected from Enid Waterworks hoop net surveys.

Year	Age 2	Age 3	Age 4	Age 5	L inf
2025	297.50	380.50	433.75	434.00	468.628

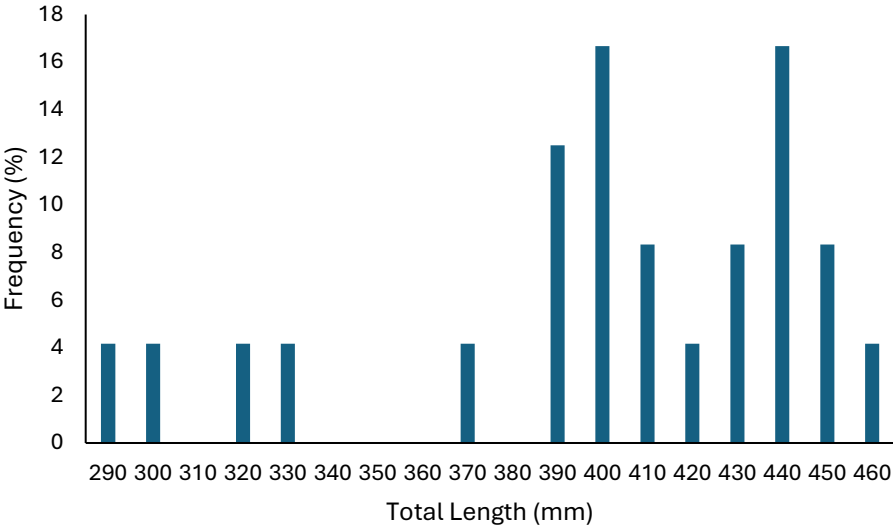


Figure 1: Channel Catfish Length Frequencies for Enid Waterworks in 2025.

Year	Species	Number	Size (mm)
2025	Hybrid Sunfish	500	177.8
	Hybrid Sunfish	541	127
2024	Channel Catfish	300	317.5
	Hybrid Sunfish	500	177.8
2023	Hybrid Sunfish	500	127
2022	Hybrid Sunfish	500	171.45
2021	Channel Catfish	70	457.2-609.6
2020	Channel Catfish	3,400	50.8
	Hybrid Sunfish	250	177.8

2019	Channel Catfish	1,665	154.94
	Hybrid Sunfish	266	127
	Hybrid Sunfish	200	152.4
2018	Channel Catfish	200	381

APPENDIX 1