

SURVEY REPORT
OKLAHOMA DEPARTMENT OF WILDLIFE CONSERVATION



FISH MANAGEMENT SURVEY AND RECOMMENDATIONS
FOR
ENID MEADOWLAKE
2025

SURVEY REPORT

State: Oklahoma

Project Title: Enid Meadowlake Fish Management Survey Report

Period Covered: 2017-2025

Prepared by: Dalton Norris

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ENID MEADOWLAKE

ABSTRACT

Enid Meadowlake was sampled in 2025 for channel catfish using tandem baited hoop nets. Results from this survey showed a high catch per unit effort (CPUE) with a good size distribution of individuals collected.

INTRO

Enid Meadowlake 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 Meadowlake has a surface area of 8.5 surface acres and a shoreline length of 1 mile.

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

Enid Meadowlake 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 Meadowlake. 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 34.89. This high CPUE value demonstrates that the channel catfish population in Enid Meadowlake was high. 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=48, just under 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 nets surveys is PSD=24. This value of PSD=24 is lower than the recorded value of PSD=48 in 2025 (Table 2).

Length frequency figures show that there is a higher frequency of smaller and mid-sized individuals collected but demonstrate a good length distribution (Figure 1).

It is recommended that additional surveys on Enid Meadowlake be conducted and annual stocking continue.

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

		Total CPUE	Substock <280mm	Stock 410mm	Quality 610mm	Preferred 710mm
Year	No	CPUE	CPUE	CPUE	CPUE	CPUE
2025	314	34.89	14.89	10.33	9.22	0.44

Table 2: Proportional Size Distribution (PSD) and Proportional Size Distribution of Preferred (PSD-P) for channel catfish collected from Enid Meadowlake hoop net surveys.

Year	PSD	PSD-P
2025	48	2

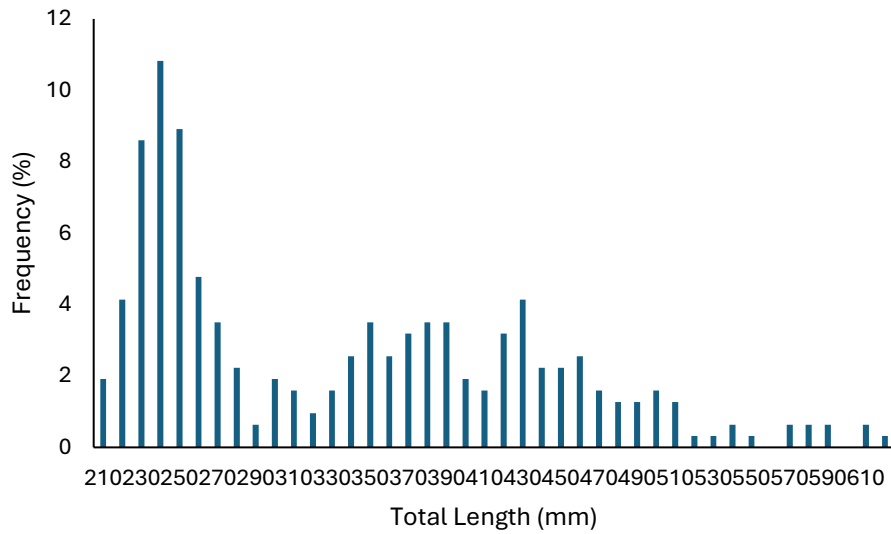


Figure 1: Channel Catfish Length Frequencies for Enid Meadowlake in 2025.

Year	Species	Number	Size (mm)
2025	Hybrid Sunfish	500	177.8
2024	Channel Catfish	500	317.5
	Hybrid Sunfish	500	177.8
2023	Channel Catfish	400	304.8
	Hybrid Sunfish	500	127
2022	Channel Catfish	525	254
	Hybrid Sunfish	500	171.45
2021	Channel Catfish	75	457.2-609.6
	Channel Catfish	530	228.6
2020	Channel Catfish	6,800	50.8
	Hybrid Sunfish	500	177.8
	Hybrid Sunfish	500	152.4
2019	Channel Catfish	1,665	154.94
	Hybrid Sunfish	322	127
	Hybrid Sunfish	287	152.4
2018	Hybrid Sunfish	250	177.8
2017	Channel Catfish	221	355.6
	Hybrid Sunfish	600	152.4
	Hybrid Sunfish	475	127-177.8

Bluegill Sunfish	300	88.9
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APPENDIX 1