

OKLAHOMA DEPARTMENT OF WILDLIFE CONSERVATION



FISH MANAGEMENT SURVEY REPORT

SCOTT KING

2025

EXECUTIVE SUMMARY

Trap netting was conducted in fall of 2025 to evaluate the status of the crappie fishery. Scott King is dominated by white crappie, with black crappie comprising only 6% of the population in the 2025 survey (N = 9 of 148). Overall catch rate of white crappie was significantly lower in 2025 (7.2 fish/net-night) compared to the previous four surveys ranging from 2012 - 2022. However, catch rate of white crappie > 10 inches has remained relatively stable in recent surveys (Table 1, Figure 1). The crappie population in 2025 was primarily age-0 and age-1 crappie (2025 and 2024 year classes, respectively) comprising 86% of the total. This indicates that recruitment in 2022 and 2023 may have been below average. No fish older than age-3 were collected in this survey. Length frequency and Proportional Stock Density (PSD) metrics are included in Figure 2 and Table 2, respectively.

Crappie growth rates in 2025 were the highest recorded with age-2 crappie averaging 12.8 inches (Table 3, Figure 3). This increased growth is exceptional and well above the relatively slow average growth documented at Scott King in past surveys. If this growth rate continues, the strong age-0 and age-1 year classes will quickly reach preferred and memorable size categories.

Mortality estimates (Table 4) for crappie at Scott King are highly variable and may not accurately reflect overall mortality rates.

Table 1. Effort, overall fish per net night (CPUE), variability, relative weights (Wr), and CPUE by size groups of white crappie collected by trap netting from Scott King.

Year	Net-nights	# Fish	Total CPUE	Range (U/L 95% CI)	RSE	Net-nights needed RSE = 20	Wr	CPUE < 5 in	CPUE ≥ 5 in	CPUE ≥ 10 in
2008	10	88	8.8	±3.5	20.3	10	94	0.7	8.2	0.5
2012	10	131	15.0	±6.3	21.5	12	90	0.6	14.4	0.8
2015	10	322	33.5	±11.4	17.4	8	92	6.6	26.9	1.7
2019	10	233	22.7	±10.0	22.4	13	89	3.6	19.1	1.9
2022	20	313	16.0	±5.7	18.3	17	92	5.4	10.7	3.2
2025	20	139	7.2	±2.8	19.5	19	95	3.2	4.1	1.5

Figure 1. Fish per net night (CPUE) trend data for white crappie and white crappie greater than 10 inches collected by trap netting from Scott King. Error bars represent standard error estimates.

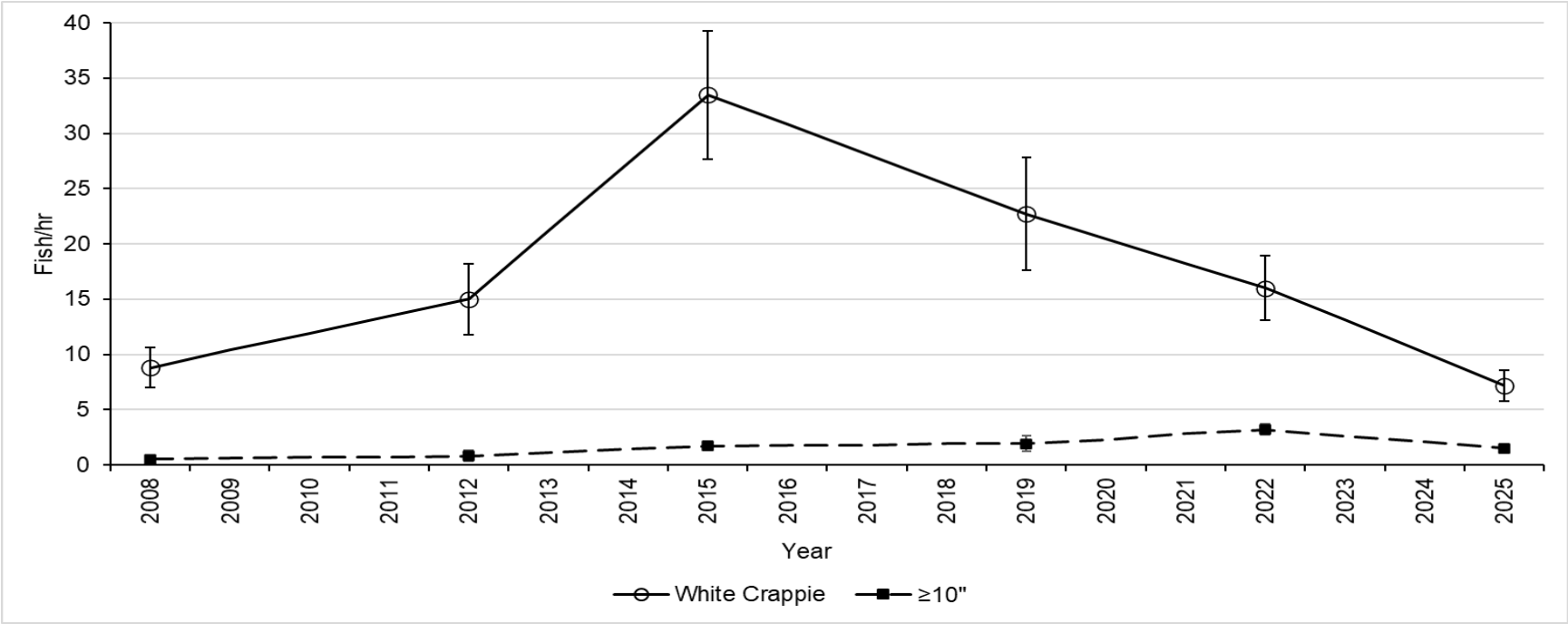


Figure 2. 2025 length frequency distribution for white crappie collected by trap netting at Scott King. N = 139.

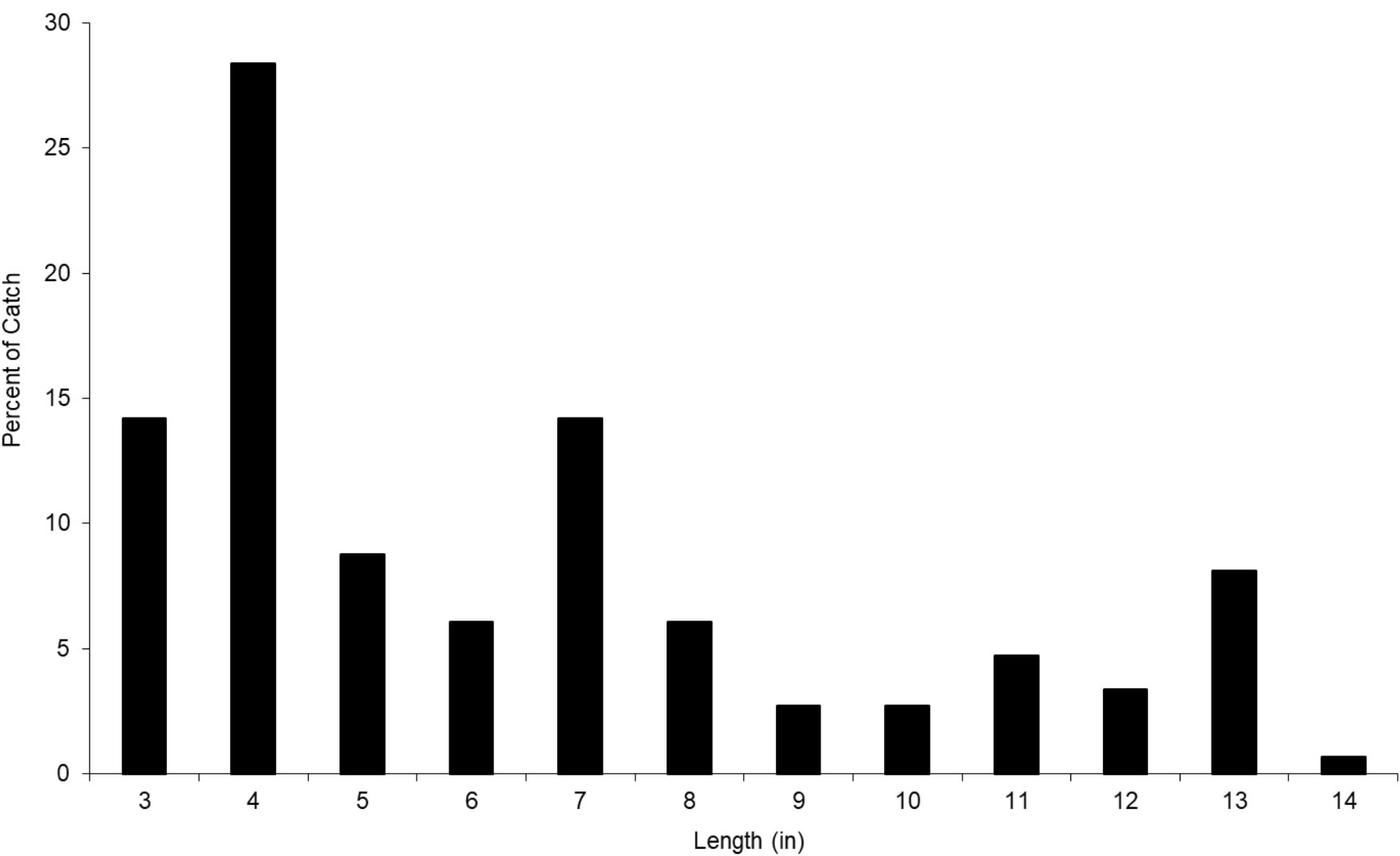


Table 2. Proportional Stock Density (PSD) categories and PSD metrics and variability for white crappie collected by trap netting from Scott King.

Category	Stock	Quality	Preferred	Memorable	Trophy
Size (in)	5.1	7.9	9.8	11.8	15.0

Year	PSD	Range (U/L 95% CI)	PSD-P	Range (U/L 95% CI)	PSD-M	Range (U/L 95% CI)	PSD-T	Range (U/L 95% CI)
2008	15	±11	6	±8	1	±4	-	-
2012	25	±11	6	±5	2	±4	-	-
2015	10	±5	7	±4	3	±3	-	-
2019	43	±10	10	±6	2	±2	-	-
2022	88	±7	33	±9	13	±7	-	-
2025	63	±16	41	±16	27	±14	-	-

Table 3. Number of white crappie, mean length at age, and variability of white crappie collected by trap netting from Scott King.

Year	# Aged	# Fish with Length-Age Key	Age-1 (N)	Range (U/L 95% CI)	Age-2 (N)	Range (U/L 95% CI)	Age-3 (N)	Range (U/L 95% CI)	Age-4 (N)	Range (U/L 95% CI)	Age-5 (N)	Range (U/L 95% CI)
2008	66	81	5.7 (14)	±0.1	6.6 (37)	±0.1	7.0 (11)	±0.4	8.1 (15)	±0.8	9.6 (3)	±1.0
2012	87	126	6.1 (80)	±0.1	7.8 (17)	±0.2	8.9 (28)	±0.5	12.0 (1)	-	-	-
2015	78	258	6.8 (248)	±0.1	11.9 (6)	±0.1	14.3 (2)	±0.2	13.6 (2)	±0.4	-	-
2019	158	197	6.7 (68)	±0.1	8.0 (73)	±0.3	8.1 (8)	±0.3	9.3 (48)	±0.5	-	-
2022	122	313	8.7 (157)	±0.2	11.5 (14)	±0.5	11.8 (30)	±0.4	12.1 (2)	±0.1	13.6 (2)	±0.5
2025	79	139	8.6 (46)	±0.5	12.8 (17)	±0.6	13.9 (2)	±1.0	-	-	-	-

Figure 3. 2025 Length at age data for white crappie collected from Scott King by fall trap netting.

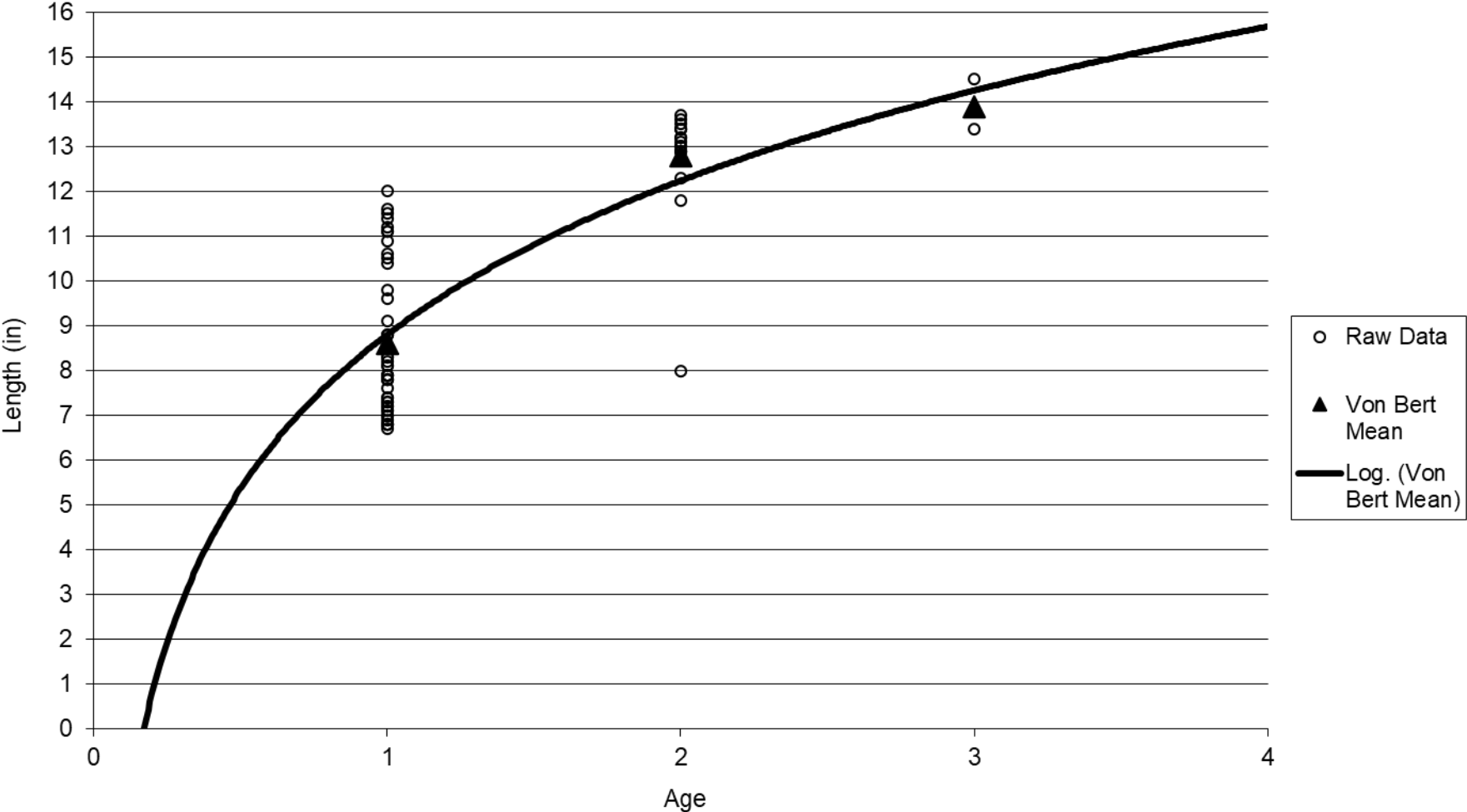


Table 4. Mortality estimates, variability, and maximum observed age of white crappie collected by trap netting from Scott King.

Year	Annual Mortality	Lower 95% CI	Upper 95% CI	Observed Max Age
2008	53.4	10	75	6
2012	61.6	-108	92	4
2015	88.2	-94	99	6
2019	21.6	-89793392	100	5
2022	64.4	0	87	7
2025	61.4	5	84	3