

ILLINOIS NATURAL HISTORY SURVEY
 CENTER FOR AQUATIC ECOLOGY
 2000 CREEL SURVEY RESULTS

2000 CARLYLE LAKE
 22202 ACRES
 REGION 0, DISTRICT 0

STRATIFICATION SUMMARY:

Day creel only.
 Results cover 03/15/2000 through 10/31/2000
 Year periods stratified.
 Fishing modes (boat vs. shore) stratified.
 Day types (weekday vs. weekend/holiday) stratified.
 Day periods (morning, midday, and afternoon) stratified.

SAMPLING RATIO: 451/693 = 65.1%

NUMBER OF INTERVIEWS: 2941

Table 1. Total fishing effort, by fishing mode and day type.

FISHING MODE	DAYTYPE	ANGLER-HOURS	95% CI	HOURS/ACRE	95% CI	% EFF
BOAT	WEEKDAY	39673	33768-45578 (15%)	2	2-2	(15%) 7%
	HOLIDAY	36214	29306-43122 (19%)	2	1-2	(19%) 14%
	TOTAL	75888	66800-84975 (12%)	3	3-4	(12%) 10%
SHORE	WEEKDAY	13684	10735-16634 (22%)	1	0-1	(22%) 6%
	HOLIDAY	11719	9541-13897 (19%)	1	0-1	(19%) 15%
	TOTAL	25403	21737-29070 (14%)	1	1-1	(14%) 10%
BOAT & SHORE	WEEKDAY	53357	46757-59958 (12%)	2	2-3	(12%) 6%
	HOLIDAY	47933	40690-55176 (15%)	2	2-2	(15%) 14%
	TOTAL	101291	91491-111090 (10%)	5	4-5	(10%) 10%

Table 2. Total fishing harvest and harvest rates, in numbers of fish.

# HARVESTED	95% CI	#/HOUR	95% CI	#/HA	#/ACRE	SPECIES
101696	84862-118531 (17%)	.562	.470-.653 (16%)	11.32	4.58	All species
		****	NOT RECORDED ****			Bigmouth buffalo
		****	NOT RECORDED ****			Black buffalo
63	6-119 (90%)	.000	.000-.001 (118%)	0.01	0.00	Black crappie
3188	1756-4620 (45%)	.014	.007-.021 (52%)	0.35	0.14	Bluegill
94	0-191 (103%)	.001	.000-.002 (185%)	0.01	0.00	Carp
19566	16158-22974 (17%)	.137	.088-.186 (36%)	2.18	0.88	Channel catfish
30	0-90 (206%)	.000	.000-.000 (205%)	0.00	0.00	Crappie spp.
143	21-265 (85%)	.000	.000-.001 (97%)	0.02	0.01	Flathead catfish
56	12-100 (78%)	.000	.000-.000 (88%)	0.01	0.00	Freshwater drum
289	39-540 (87%)	.001	.000-.001 (89%)	0.03	0.01	Green sunfish
		****	NOT RECORDED ****			Gizzard shad
374	168-580 (55%)	.002	.001-.003 (68%)	0.04	0.02	Largemouth bass
9	0-28 (213%)	.000	.000-.000 (214%)	0.00	0.00	Longear sunfish
39	0-88 (126%)	.000	.000-.000 (119%)	0.00	0.00	Redear sunfish
20	0-60 (206%)	.000	.000-.000 (206%)	0.00	0.00	Sauger
6	0-17 (196%)	.000	.000-.000 (196%)	0.00	0.00	Striped bass x Whit
		****	NOT RECORDED ****			Shortnose gar
7	0-23 (213%)	.000	.000-.000 (214%)	0.00	0.00	Walleye
45	2-88 (95%)	.000	.000-.000 (108%)	0.01	0.00	Warmouth
56389	41066-71713 (27%)	.303	.224-.382 (26%)	6.28	2.54	White bass
21379	15629-27129 (27%)	.104	.081-.126 (22%)	2.38	0.96	White crappie
		****	NOT RECORDED ****			Yellow bullhead
		****	NOT RECORDED ****			Yellow bass

Table 3. Total fishing harvest and harvest rates, in kilograms.

KG HARVESTED	95% CI	KG/HOUR	95% CI	KG/HA	AVE KG	SPECIES
31160	26933-35388 (14%)	.171	.147-.195 (14%)	3.47	0.306	All species
		****	NOT RECORDED ****			Bigmouth buffalo
		****	NOT RECORDED ****			Black buffalo
19	2-36 (91%)	.000	.000-.000 (125%)	0.00	0.302	Black crappie
211	118-305 (44%)	.001	.000-.001 (50%)	0.02	0.066	Bluegill
122	0-273 (125%)	.001	.000-.002 (193%)	0.01	1.293	Carp
11452	9459-13444 (17%)	.071	.054-.088 (24%)	1.27	0.585	Channel catfish
7	0-20 (206%)	.000	.000-.000 (206%)	0.00	0.226	Crappie spp.
350	0-773 (121%)	.001	.000-.003 (130%)	0.04	2.452	Flathead catfish
21	2-40 (92%)	.000	.000-.000 (84%)	0.00	0.368	Freshwater drum
20	3-37 (84%)	.000	.000-.000 (85%)	0.00	0.069	Green sunfish
		****	NOT RECORDED ****			Gizzard shad
295	130-459 (56%)	.001	.000-.002 (64%)	0.03	0.787	Largemouth bass
1	0-2 (213%)	.000	.000-.000 (213%)	0.00	0.074	Longear sunfish
3	0-6 (117%)	.000	.000-.000 (124%)	0.00	0.066	Redear sunfish
112	0-342 (206%)	.000	.000-.001 (206%)	0.01	5.715	Sauger
6	0-18 (196%)	.000	.000-.000 (196%)	0.00	1.061	Striped bass x Whit
		****	NOT RECORDED ****			Shortnose gar
4	0-14 (213%)	.000	.000-.000 (213%)	0.00	0.608	Walleye
7	0-14 (99%)	.000	.000-.000 (109%)	0.00	0.151	Warmouth
12549	9364-15735 (25%)	.066	.049-.082 (25%)	1.40	0.223	White bass
5983	4329-7636 (28%)	.030	.023-.036 (23%)	0.67	0.280	White crappie
		****	NOT RECORDED ****			Yellow bullhead
		****	NOT RECORDED ****			Yellow bass

Table 4. Total fishing harvest and harvest rates, in pounds.

LB HARVESTED	95% CI	LB/HOUR	95% CI	LB/ACRE	AVE LB	SPECIES
68697	59376-78018 (14%)	.378	.325-.431 (14%)	3.09	0.676	All species
		****	NOT RECORDED ****			Bigmouth buffalo
		****	NOT RECORDED ****			Black buffalo
42	4-80 (91%)	.000	.000-.001 (125%)	0.00	0.667	Black crappie
466	260-672 (44%)	.002	.001-.003 (50%)	0.02	0.146	Bluegill
268	0-603 (125%)	.002	.000-.005 (193%)	0.01	2.850	Carp
25247	20854-29639 (17%)	.157	.119-.194 (24%)	1.14	1.290	Channel catfish
15	0-45 (206%)	.000	.000-.000 (205%)	0.00	0.498	Crappie spp.
772	0-1705 (121%)	.003	.000-.007 (130%)	0.03	5.405	Flathead catfish
46	4-88 (92%)	.000	.000-.000 (84%)	0.00	0.811	Freshwater drum
44	7-81 (84%)	.000	.000-.000 (85%)	0.00	0.152	Green sunfish
		****	NOT RECORDED ****			Gizzard shad
649	287-1012 (56%)	.003	.001-.005 (64%)	0.03	1.735	Largemouth bass
1	0-5 (214%)	.000	.000-.000 (214%)	0.00	0.163	Longear sunfish
6	0-12 (117%)	.000	.000-.000 (124%)	0.00	0.145	Redear sunfish
247	0-754 (206%)	.001	.000-.003 (206%)	0.01	12.599	Sauger
13	0-39 (196%)	.000	.000-.000 (196%)	0.00	2.338	Striped bass x Whit
		****	NOT RECORDED ****			Shortnose gar
10	0-31 (214%)	.000	.000-.000 (213%)	0.00	1.341	Walleye
15	0-30 (99%)	.000	.000-.000 (109%)	0.00	0.333	Warmouth
27667	20643-34691 (25%)	.145	.109-.181 (25%)	1.25	0.491	White bass
13190	9545-16835 (28%)	.065	.050-.080 (23%)	0.59	0.617	White crappie
		****	NOT RECORDED ****			Yellow bullhead
		****	NOT RECORDED ****			Yellow bass

Table 5. Total fishing catch and catch rates, in numbers of fish.
Catch includes both harvested and released fish.

# CAUGHT	95% CI	#/HOUR	95% CI	#/HA	#/ACRE	SPECIES
178928	151336-206520 (15%)	.947	.817-1.077 (14%)	19.91	8.06	All species
105	0-291 (177%)	.001	.000-.002 (192%)	0.01	0.00	Bigmouth buffalo
21	0-64 (206%)	.000	.000-.000 (206%)	0.00	0.00	Black buffalo
70	12-128 (83%)	.000	.000-.001 (108%)	0.01	0.00	Black crappie
7067	4733-9401 (33%)	.035	.022-.047 (37%)	0.79	0.32	Bluegill
223	96-351 (57%)	.001	.000-.003 (90%)	0.02	0.01	Carp
23000	19242-26758 (16%)	.160	.111-.209 (31%)	2.56	1.04	Channel catfish
30	0-90 (206%)	.000	.000-.000 (205%)	0.00	0.00	Crappie spp.
143	21-265 (85%)	.000	.000-.001 (97%)	0.02	0.01	Flathead catfish
1843	1334-2352 (28%)	.011	.005-.016 (50%)	0.21	0.08	Freshwater drum
289	39-540 (87%)	.001	.000-.001 (89%)	0.03	0.01	Green sunfish
18	0-44 (141%)	.000	.000-.001 (199%)	0.00	0.00	Gizzard shad
12169	9592-14746 (21%)	.048	.033-.062 (31%)	1.35	0.55	Largemouth bass
9	0-28 (213%)	.000	.000-.000 (214%)	0.00	0.00	Longear sunfish
39	0-88 (126%)	.000	.000-.000 (119%)	0.00	0.00	Redear sunfish
145	0-354 (143%)	.001	.000-.001 (149%)	0.02	0.01	Sauger
6	0-17 (196%)	.000	.000-.000 (196%)	0.00	0.00	Striped bass x Whit
29	0-69 (139%)	.000	.000-.000 (144%)	0.00	0.00	Shortnose gar
7	0-23 (213%)	.000	.000-.000 (214%)	0.00	0.00	Walleye
91	28-154 (69%)	.001	.000-.001 (99%)	0.01	0.00	Warmouth
92318	68269-116367 (26%)	.487	.369-.604 (24%)	10.27	4.16	White bass
39288	31062-47515 (21%)	.194	.158-.230 (18%)	4.37	1.77	White crappie
187	53-321 (72%)	.001	.000-.001 (76%)	0.02	0.01	Yellow bullhead
1830	869-2791 (53%)	.008	.004-.011 (45%)	0.20	0.08	Yellow bass

Table 6. Total fishing catch and catch rates, in kilograms.

KG CAUGHT	95% CI		KG/HOUR	95% CI		KG/HA	AVE KG	SPECIES
44512	38984-50040	(12%)	.231	.203-.259	(12%)	4.95	0.249	All species
51	0-166	(222%)	.000	.000-.001	(212%)	0.01	0.491	Bigmouth buffalo
89	0-273	(206%)	.000	.000-.001	(206%)	0.01	4.249	Black buffalo
20	3-38	(86%)	.000	.000-.000	(117%)	0.00	0.290	Black crappie
371	236-505	(36%)	.002	.001-.002	(40%)	0.04	0.052	Bluegill
211	44-377	(79%)	.001	.000-.003	(122%)	0.02	0.943	Carp
12074	10041-14107	(17%)	.075	.058-.092	(23%)	1.34	0.525	Channel catfish
7	0-20	(206%)	.000	.000-.000	(206%)	0.00	0.226	Crappie spp.
350	0-773	(121%)	.001	.000-.003	(130%)	0.04	2.452	Flathead catfish
638	433-844	(32%)	.004	.002-.006	(54%)	0.07	0.346	Freshwater drum
20	3-37	(84%)	.000	.000-.000	(85%)	0.00	0.069	Green sunfish
2	0-4	(141%)	.000	.000-.000	(199%)	0.00	0.084	Gizzard shad
7268	5778-8759	(21%)	.027	.019-.034	(29%)	0.81	0.597	Largemouth bass
1	0-2	(213%)	.000	.000-.000	(213%)	0.00	0.074	Longear sunfish
3	0-6	(117%)	.000	.000-.000	(124%)	0.00	0.066	Redear sunfish
315	0-867	(175%)	.001	.000-.003	(182%)	0.04	2.165	Sauger
6	0-18	(196%)	.000	.000-.000	(196%)	0.00	1.061	Striped bass x Whit
8	0-20	(140%)	.000	.000-.000	(141%)	0.00	0.280	Shortnose gar
4	0-14	(213%)	.000	.000-.000	(213%)	0.00	0.608	Walleye
13	3-22	(73%)	.000	.000-.000	(106%)	0.00	0.140	Warmouth
15373	11573-19173	(25%)	.082	.062-.101	(24%)	1.71	0.167	White bass
7519	5696-9342	(24%)	.037	.030-.045	(21%)	0.84	0.191	White crappie
50	8-92	(83%)	.000	.000-.000	(93%)	0.01	0.269	Yellow bullhead
119	59-180	(51%)	.001	.000-.001	(48%)	0.01	0.065	Yellow bass

Table 7. Total fishing catch and catch rates, in pounds.

LB CAUGHT	95% CI	LB/HOUR	95% CI	LB/ACRE	AVE LB	SPECIES
98132	85945-110320 (12%)	.509	.448-.570 (12%)	4.42	0.548	All species
113	0-365 (222%)	.000	.000-.001 (212%)	0.01	1.082	Bigmouth buffalo
197	0-602 (206%)	.001	.000-.002 (206%)	0.01	9.367	Black buffalo
45	6-83 (86%)	.000	.000-.001 (117%)	0.00	0.640	Black crappie
817	521-1113 (36%)	.004	.002-.005 (40%)	0.04	0.116	Bluegill
464	97-832 (79%)	.003	.000-.007 (122%)	0.02	2.080	Carp
26619	22137-31101 (17%)	.165	.127-.203 (23%)	1.20	1.157	Channel catfish
15	0-45 (206%)	.000	.000-.000 (205%)	0.00	0.498	Crappie spp.
772	0-1705 (121%)	.003	.000-.007 (130%)	0.03	5.405	Flathead catfish
1407	954-1860 (32%)	.008	.004-.013 (54%)	0.06	0.763	Freshwater drum
44	7-81 (84%)	.000	.000-.000 (85%)	0.00	0.152	Green sunfish
3	0-8 (141%)	.000	.000-.000 (199%)	0.00	0.186	Gizzard shad
16024	12739-19309 (21%)	.059	.042-.076 (29%)	0.72	1.317	Largemouth bass
1	0-5 (214%)	.000	.000-.000 (214%)	0.00	0.163	Longear sunfish
6	0-12 (117%)	.000	.000-.000 (124%)	0.00	0.145	Redear sunfish
694	0-1912 (175%)	.002	.000-.007 (182%)	0.03	4.773	Sauger
13	0-39 (196%)	.000	.000-.000 (196%)	0.00	2.338	Striped bass x Whit
18	0-43 (140%)	.000	.000-.000 (141%)	0.00	0.617	Shortnose gar
10	0-31 (214%)	.000	.000-.000 (213%)	0.00	1.341	Walleye
28	8-49 (73%)	.000	.000-.000 (106%)	0.00	0.309	Warmouth
33891	25513-42269 (25%)	.180	.136-.224 (24%)	1.53	0.367	White bass
16577	12558-20596 (24%)	.082	.065-.099 (21%)	0.75	0.422	White crappie
111	19-203 (83%)	.000	.000-.001 (93%)	0.00	0.594	Yellow bullhead
263	130-397 (51%)	.001	.001-.002 (48%)	0.01	0.144	Yellow bass

Table 8. Hours per completed trip and supplementary questions for all trips.

	MEAN	95% CI		MIN	MAX	#SAMPLES
HOURS PER COMPLETED TRIP*						
BOAT	4.0	3.8-4.2	(5%)	1.0	12.0	489
SHORE	2.2	1.9-2.6	(14%)	0.2	8.8	88
BOAT & SHORE	3.7	3.5-3.9	(5%)	0.2	12.0	577
MILES TRAVELED	43.1	40.6-45.6	(6%)	1	1500	2315
SUCCESS RATING (1-10)	3.4	3.3-3.5	(3%)	1	10	2309

*279 samples were from split interviews of completed trips.
21.7% of all 2654 interviews were completed trips.

ILLEGAL HARVEST: Clerk noted 3 out of 2654 interviews with illegal harvests.

Table 9. Frequency distribution of angler party size for all interviews.

PARTY SIZE:	1	2	3	4	5	6	7	8	9	10+
BOAT INTERVIEWS	309	1424	82	9	1					
SHORE INTERVIEWS	282	338	116	76	4	11	2			

Table 10. Number of interviews (and %) per species sought for all interviews.

342 (12.9%)	ANY	All species
1 (0.0%)	CAP	Carp
9 (0.3%)	CCF	Channel catfish
650 (24.5%)	CRP	Crappie spp.
568 (21.4%)	LMB	Largemouth bass
1 (0.0%)	WAE	Walleye
429 (16.2%)	WHB	White bass
19 (0.7%)	WHC	White crappie

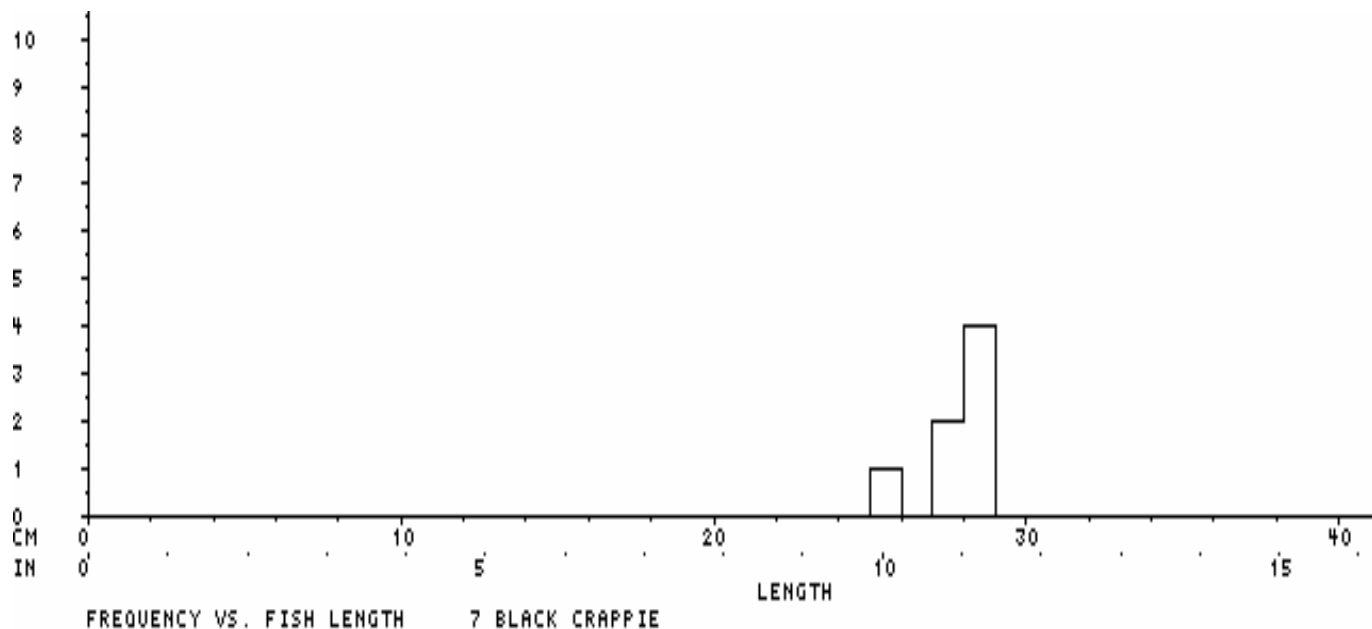


Figure 1. Carlyle Lake 2000 day creel 3/15 through 10/31. Length-frequency histogram of black crappie harvested by all anglers.

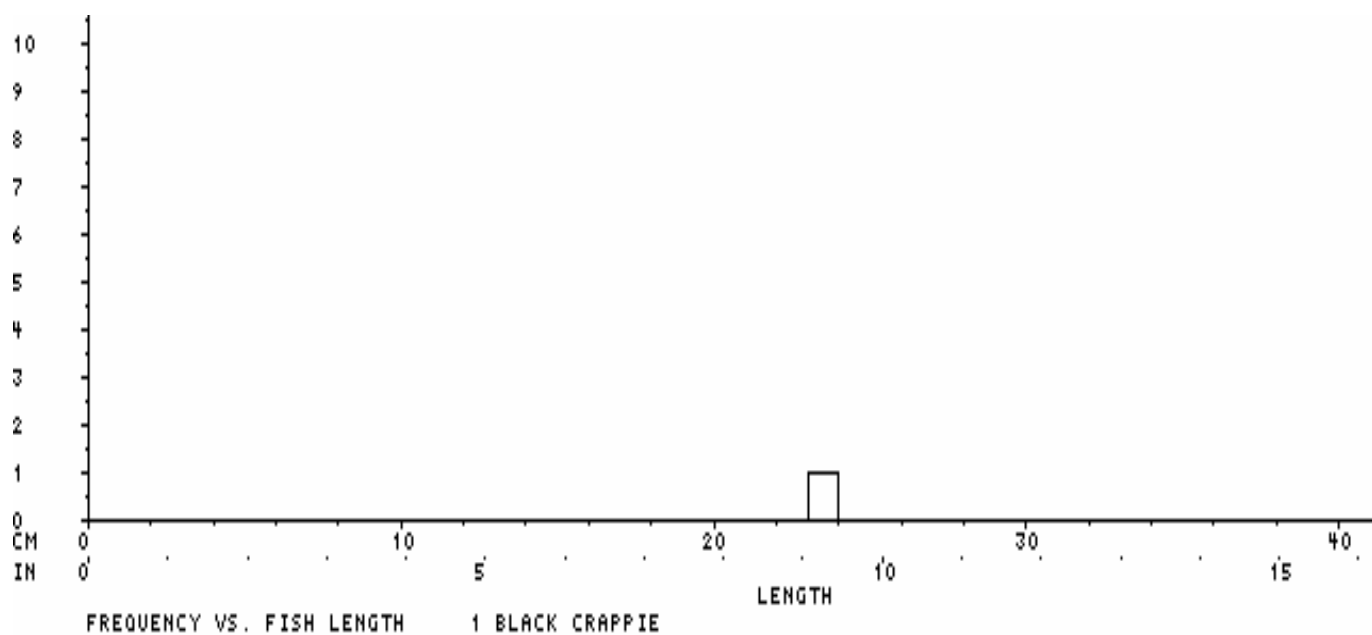


Figure 2. Carlyle Lake 2000 day creel 3/15 through 10/31. Length-frequency histogram of black crappie released by all anglers.

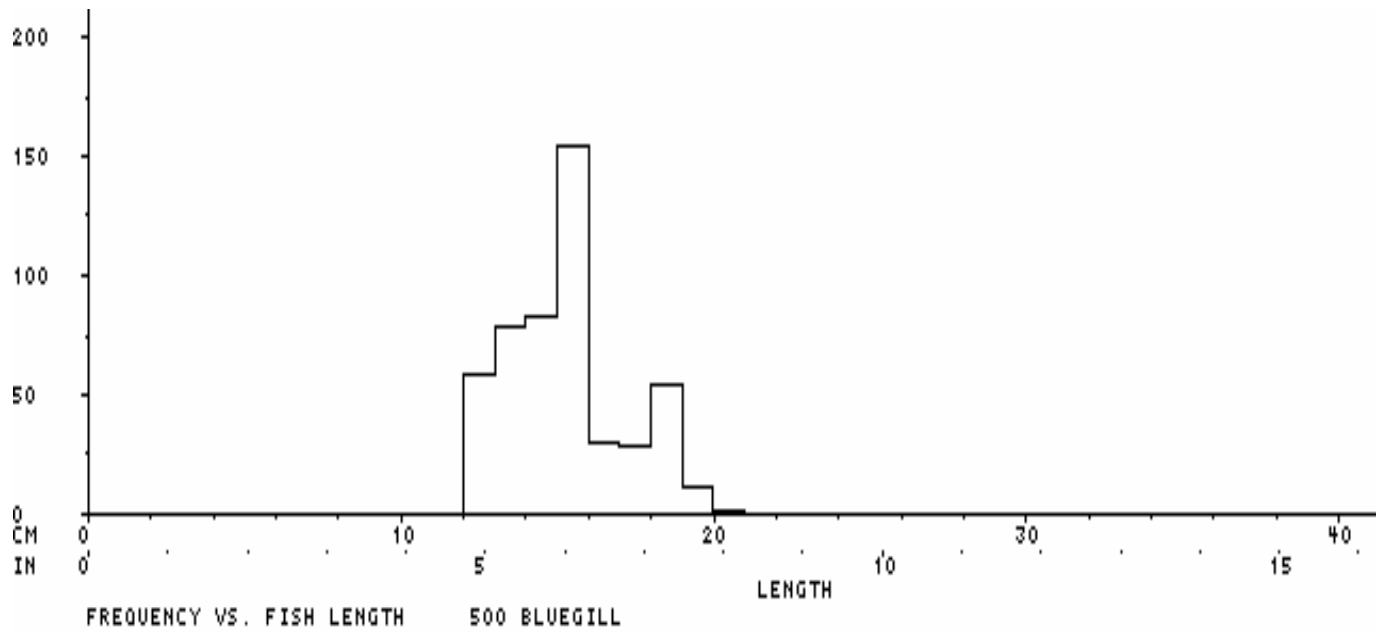


Figure 3. Carlyle Lake 2000 day creel 3/15 through 10/31. Length-frequency histogram of bluegill harvested by all anglers.

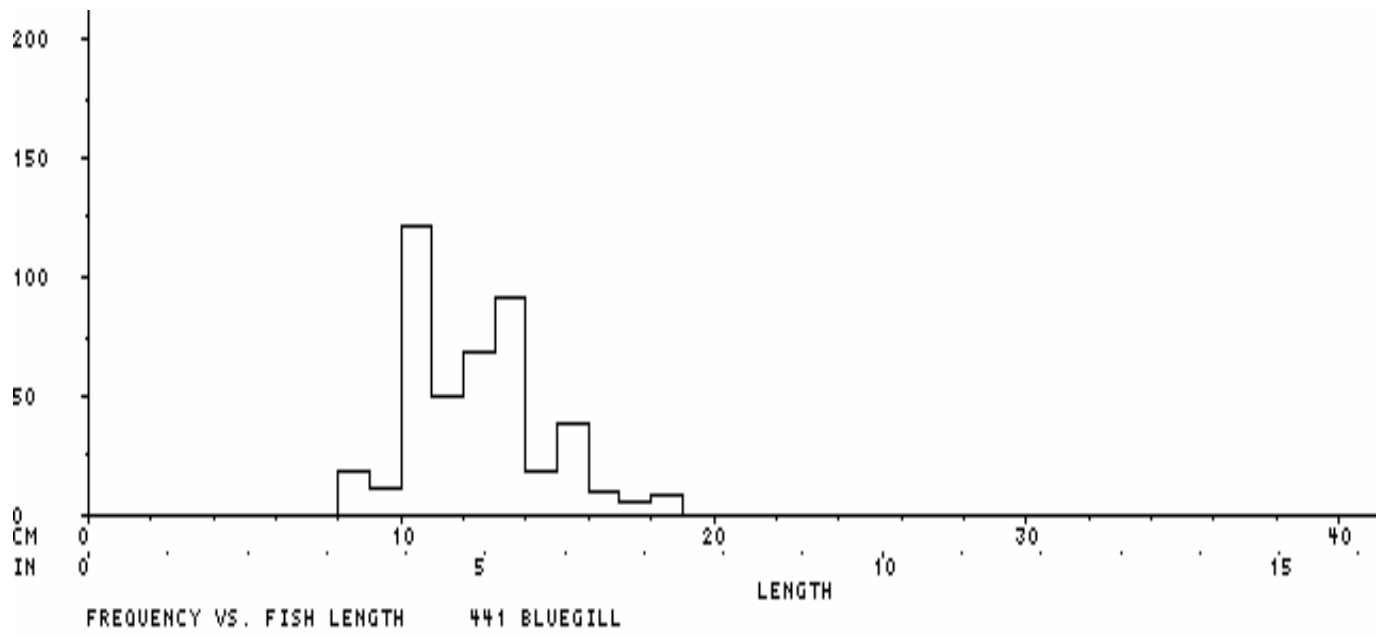


Figure 4. Carlyle Lake 2000 day creel 3/15 through 10/31. Length-frequency histogram of bluegill released by all anglers.

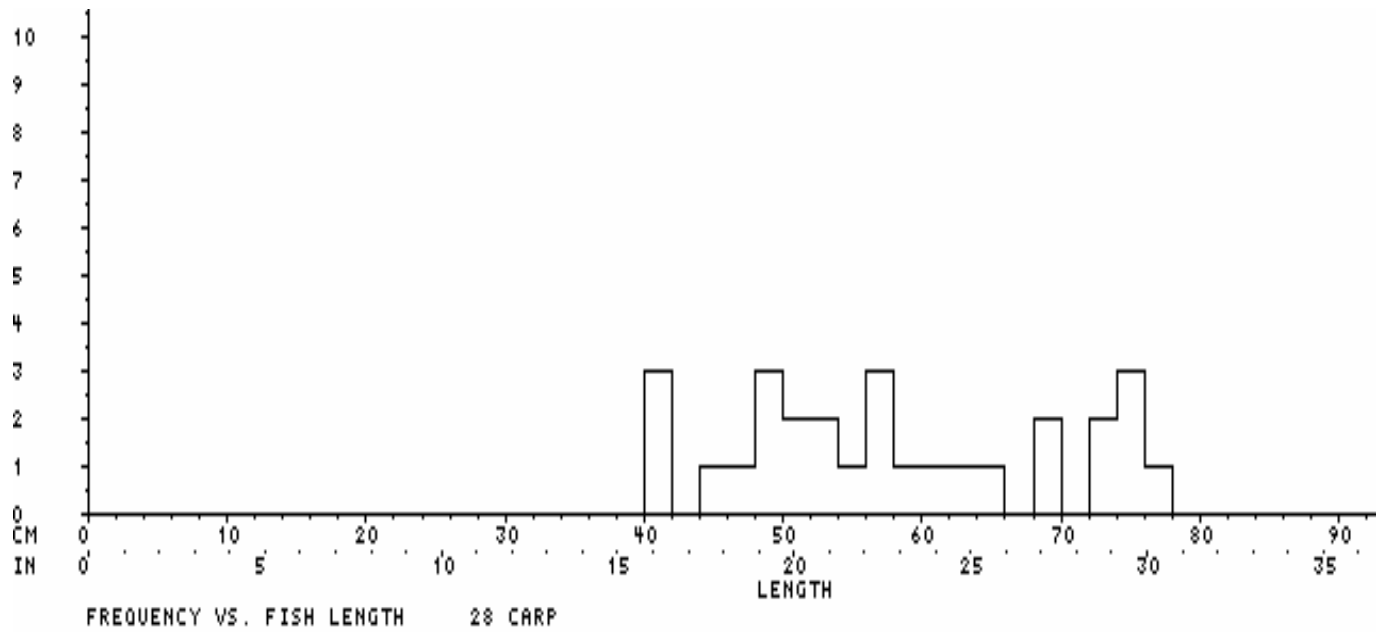


Figure 5. Carlyle Lake 2000 day creel 3/15 through 10/31. Length-frequency histogram of carp harvested by all anglers.

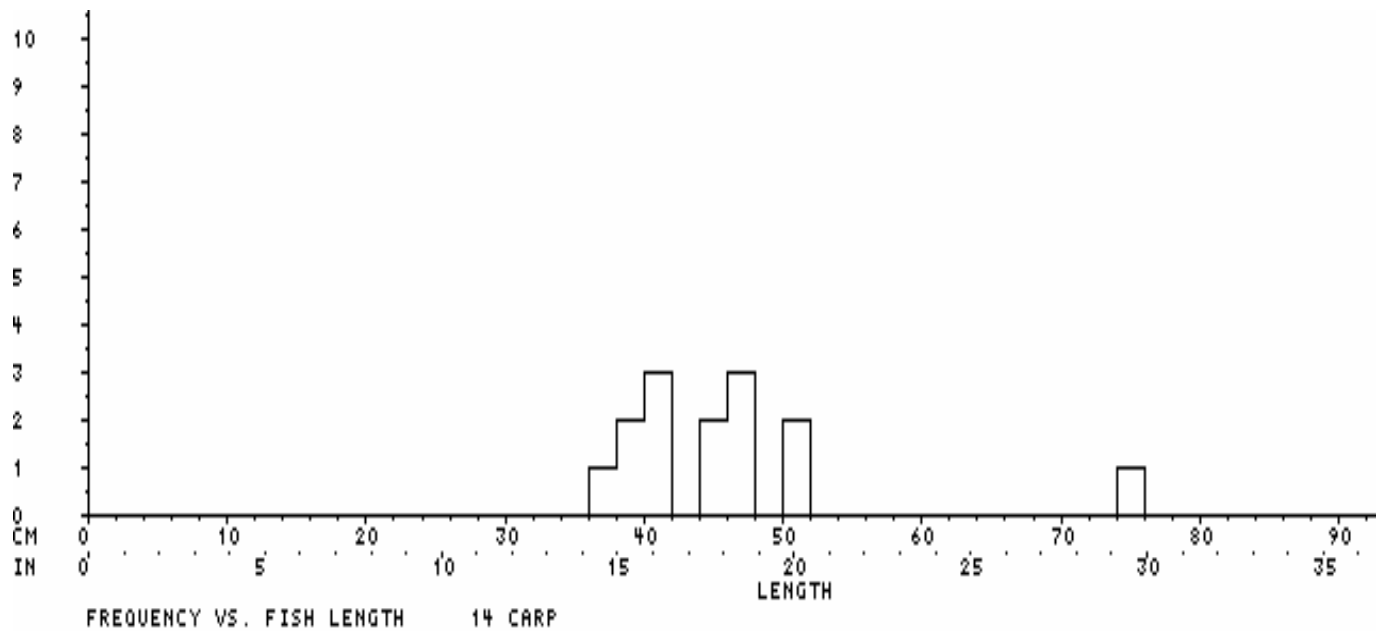


Figure 6. Carlyle Lake 2000 day creel 3/15 through 10/31. Length-frequency histogram of carp released by all anglers.

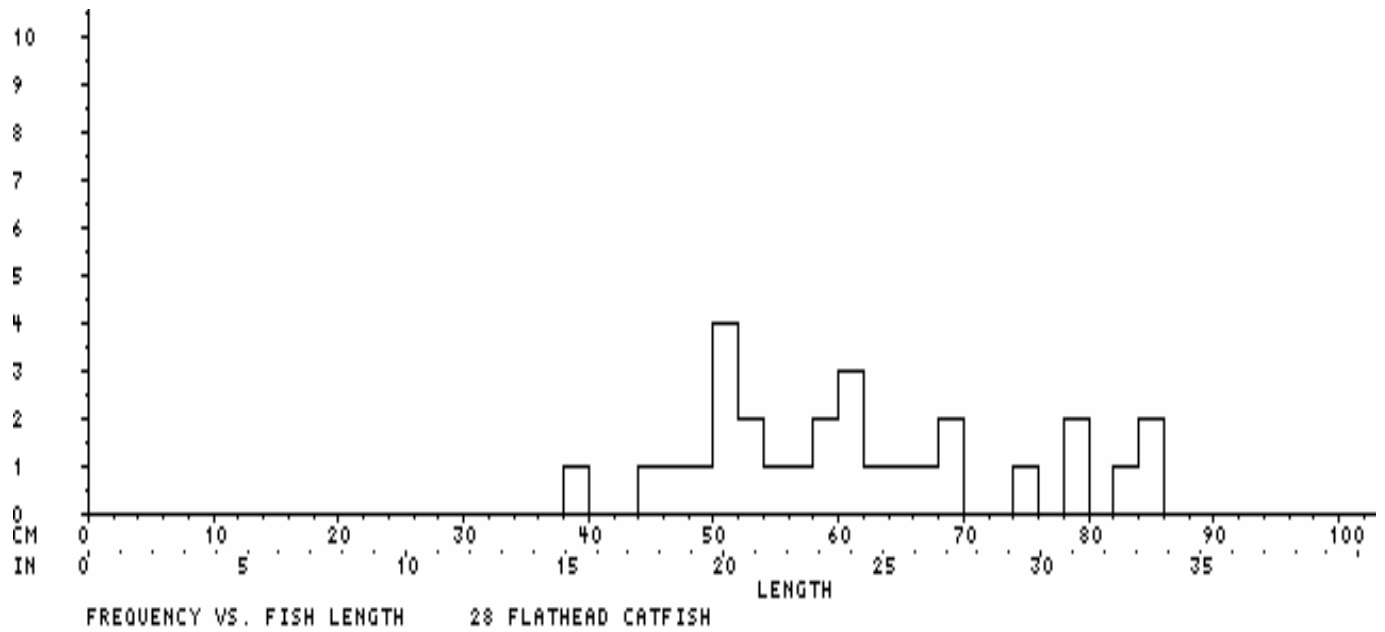


Figure 7. Carlyle Lake 2000 day creel 3/15 through 10/31. Length-frequency histogram of flathead catfish harvested by all anglers.

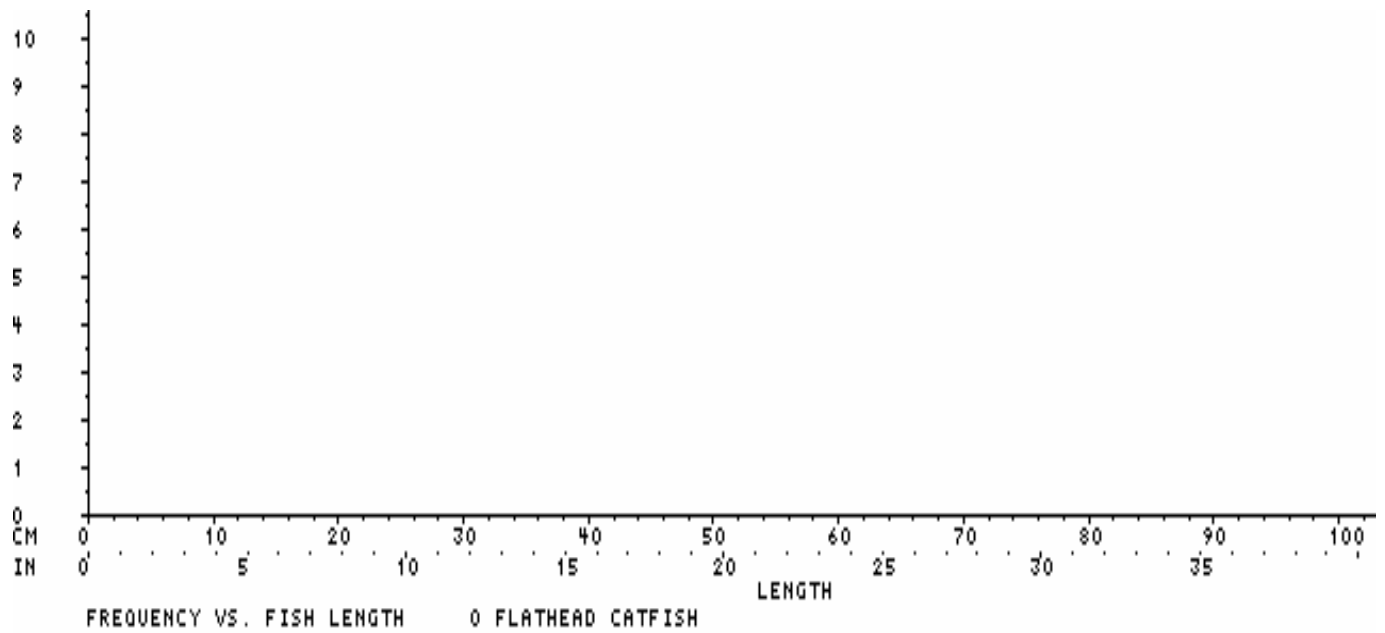


Figure 8. Carlyle Lake 2000 day creel 3/15 through 10/31. Length-frequency histogram of flathead catfish released by all anglers.

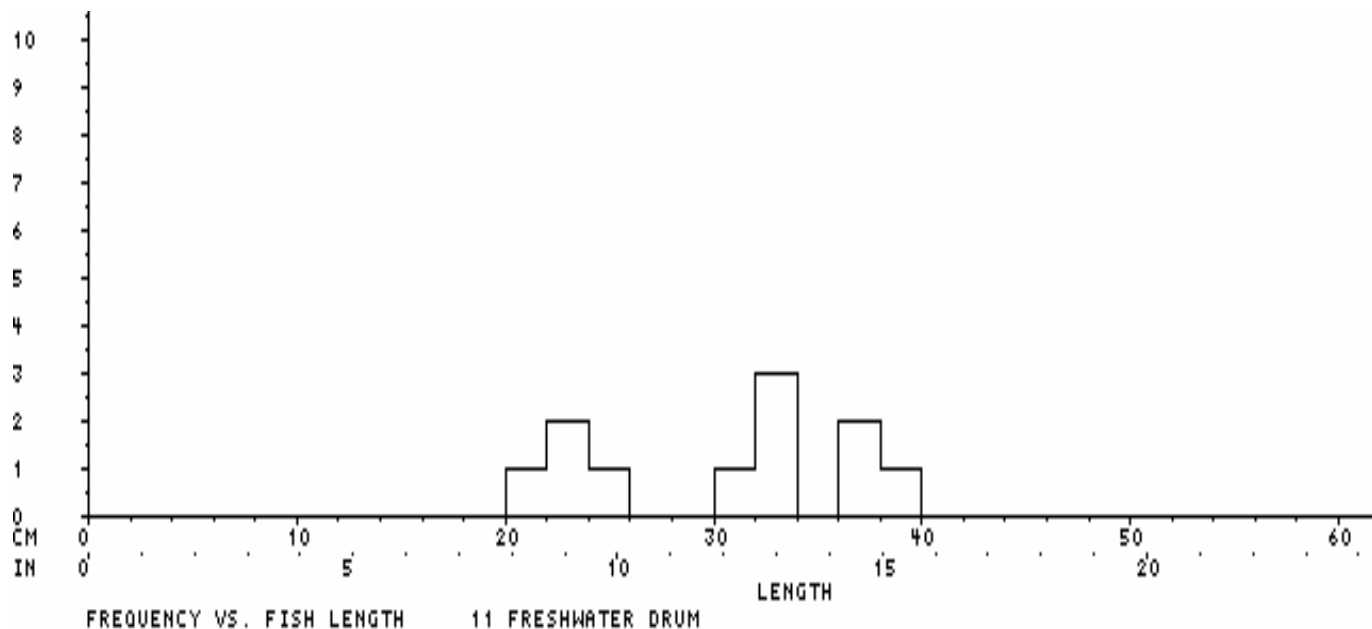


Figure 9. Carlyle Lake 2000 day creel 3/15 through 10/31. Length-frequency histogram of freshwater drum harvested by all anglers.

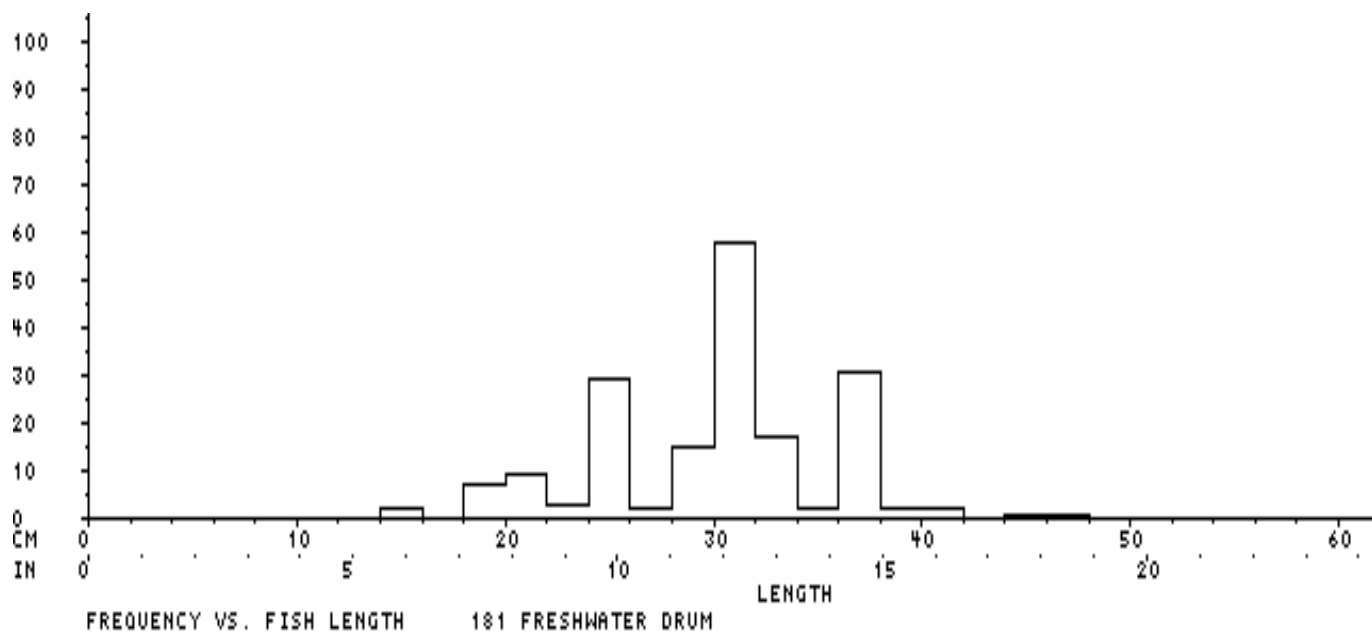


Figure 10. Carlyle Lake 2000 day creel 3/15 through 10/31. Length-frequency histogram of freshwater drum released by all anglers. Note the difference in scale from Figure 9.

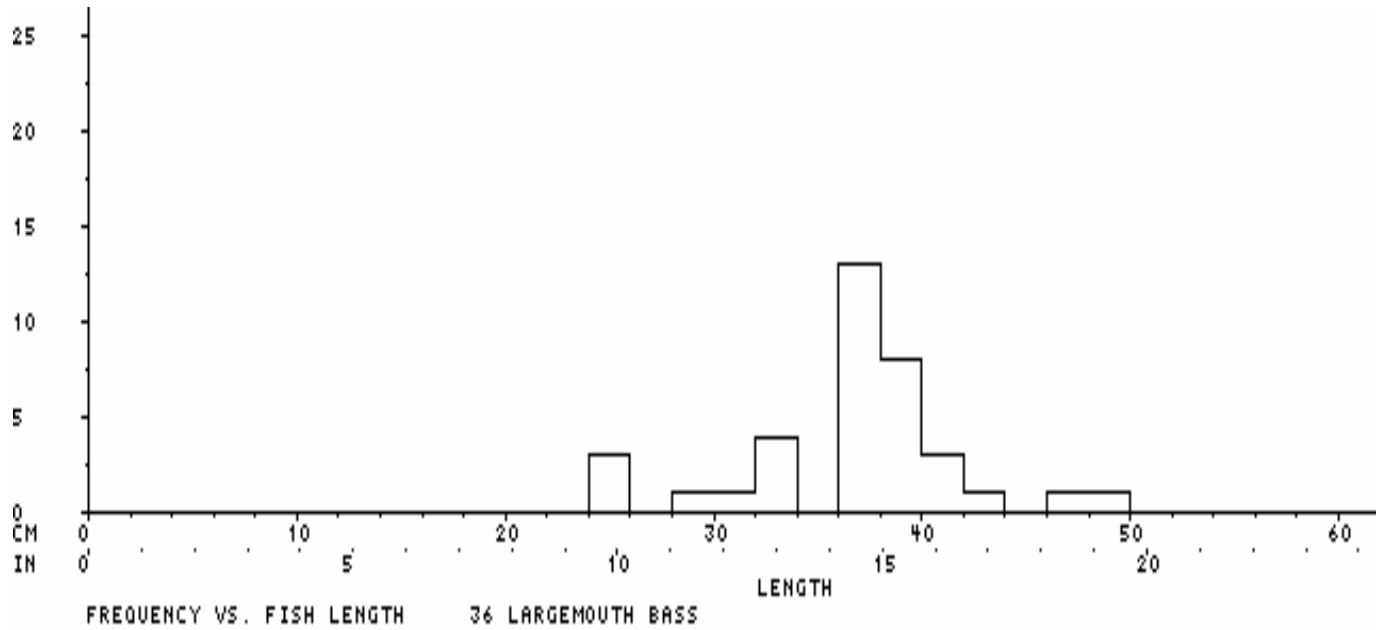


Figure 11. Carlyle Lake 2000 day creel 3/15 through 10/31. Length-frequency histogram of largemouth bass harvested by all anglers.

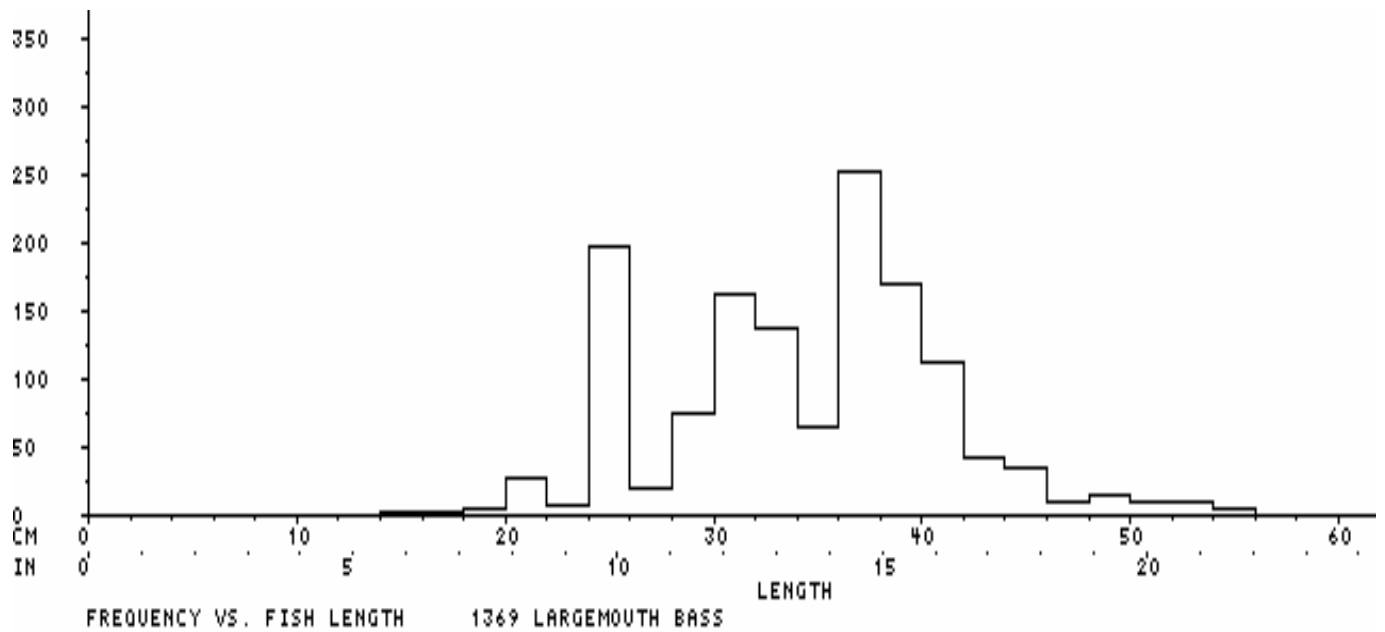


Figure 12. Carlyle Lake 2000 day creel 3/15 through 10/31. Length-frequency histogram of largemouth bass released by all anglers. Note the difference in scale from Figure 11.

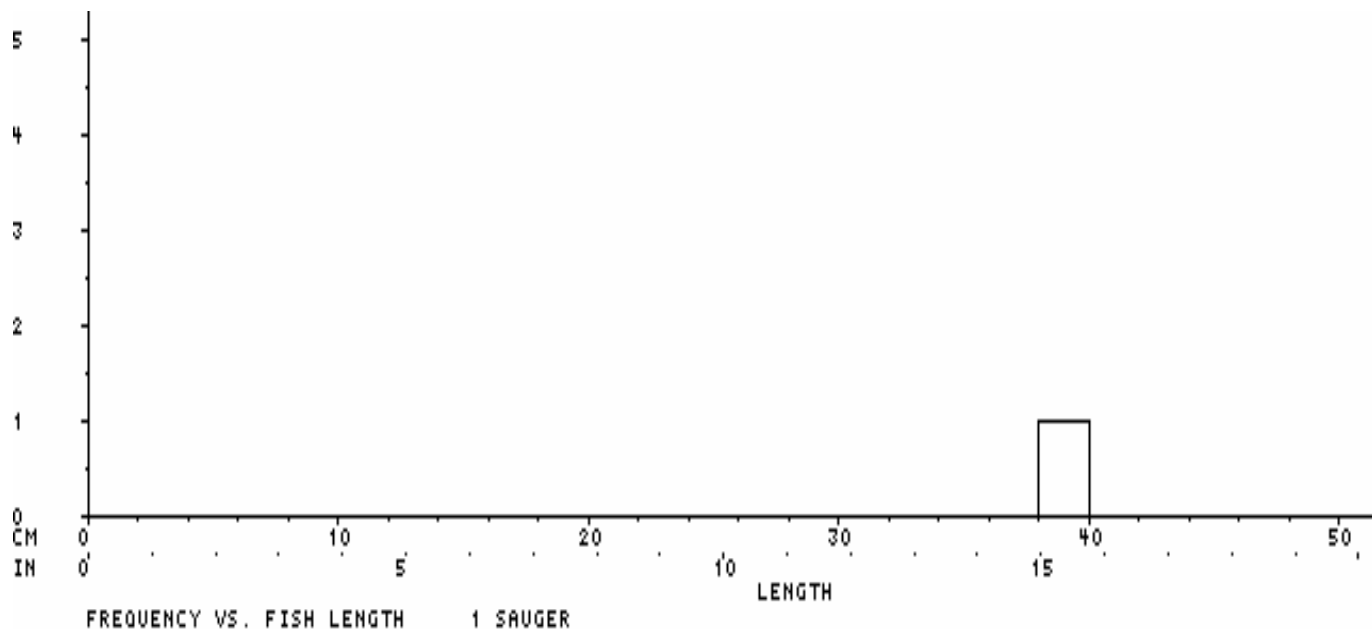


Figure 13. Carlyle Lake 2000 day creel 3/15 through 10/31. Length-frequency histogram of sauger harvested by all anglers.

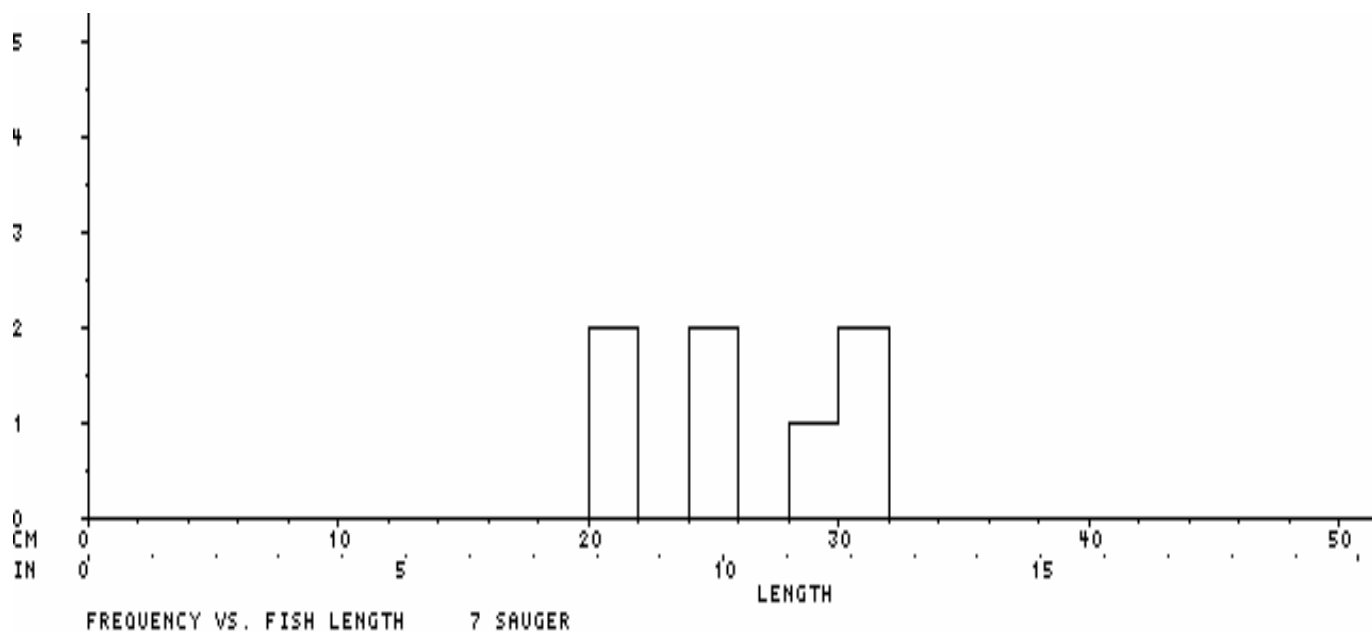


Figure 14. Carlyle Lake 2000 day creel 3/15 through 10/31. Length-frequency histogram of sauger released by all anglers.

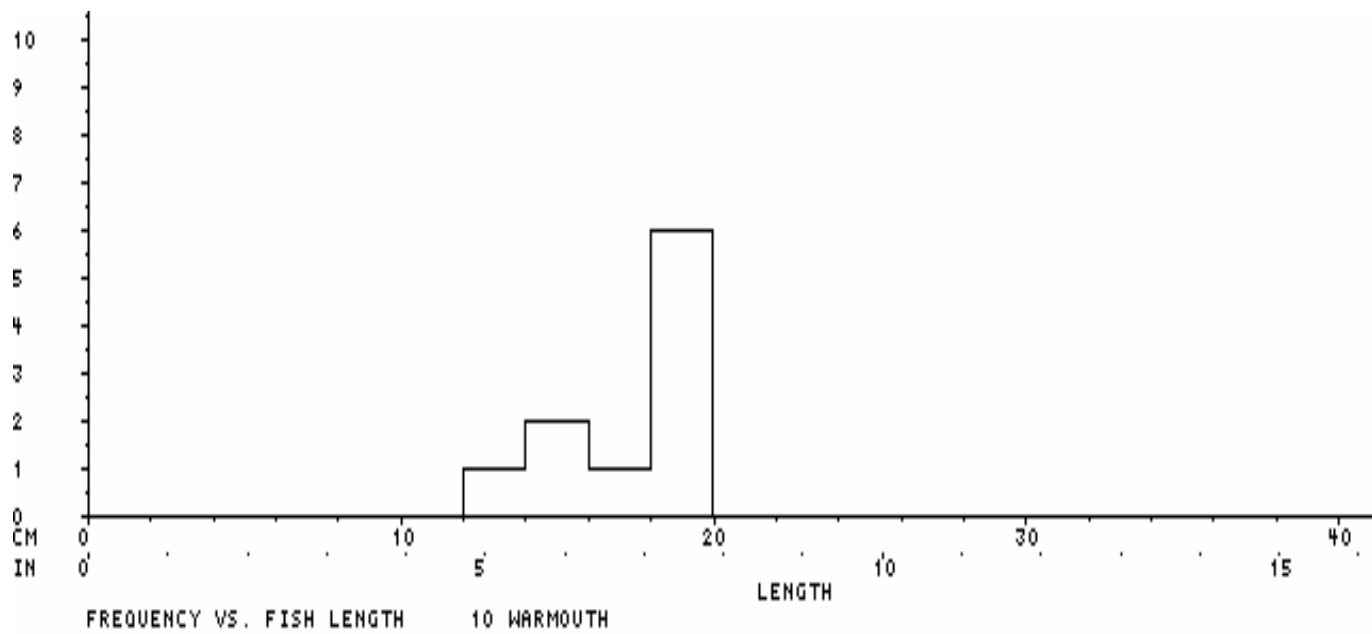


Figure 15. Carlyle Lake 2000 day creel 3/15 through 10/31. Length-frequency histogram of warmouth harvested by all anglers.

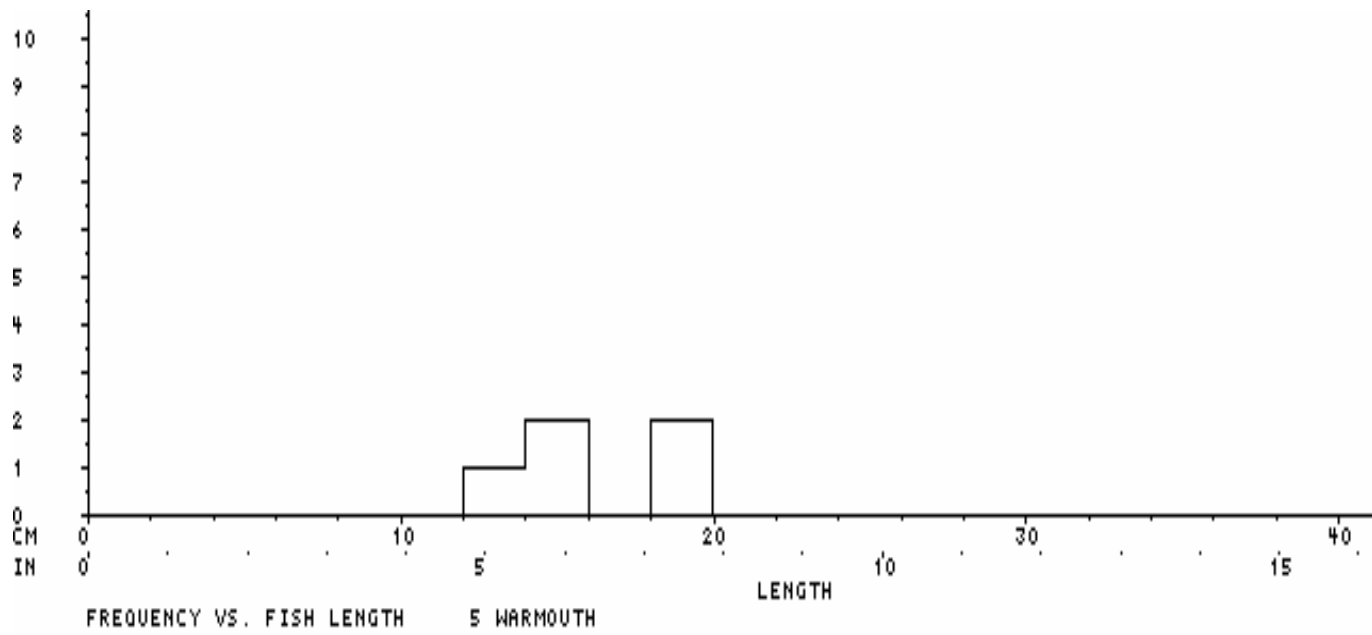


Figure 16. Carlyle Lake 2000 day creel 3/15 through 10/31. Length-frequency histogram of warmouth released by all anglers.

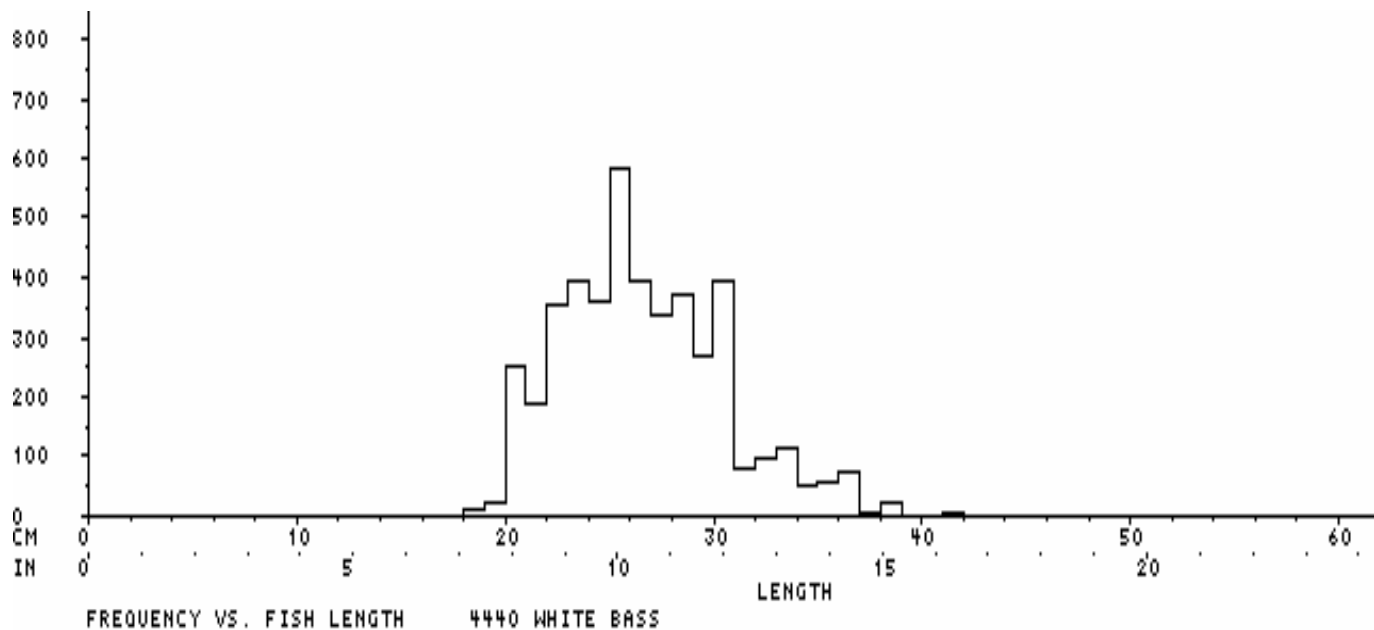


Figure 17. Carlyle Lake 2000 day creel 3/15 through 10/31. Length-frequency histogram of white bass harvested by all anglers.

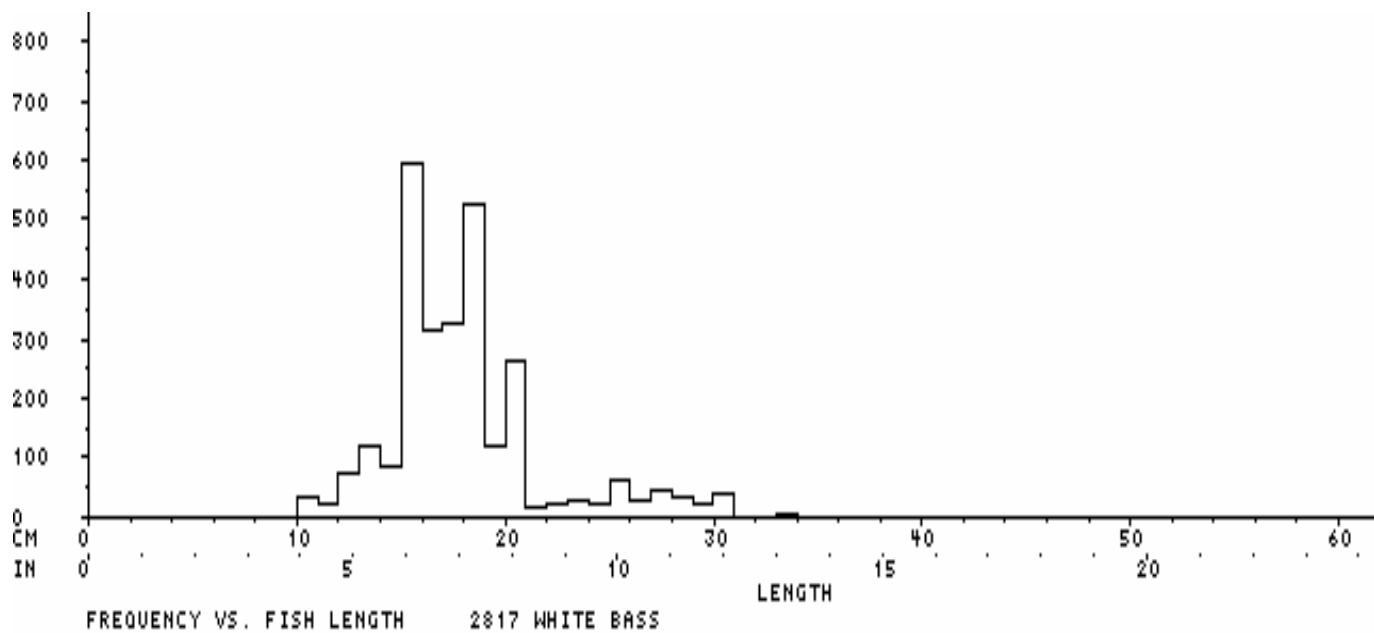


Figure 18. Carlyle Lake 2000 day creel 3/15 through 10/31. Length-frequency histogram of white bass released by all anglers.

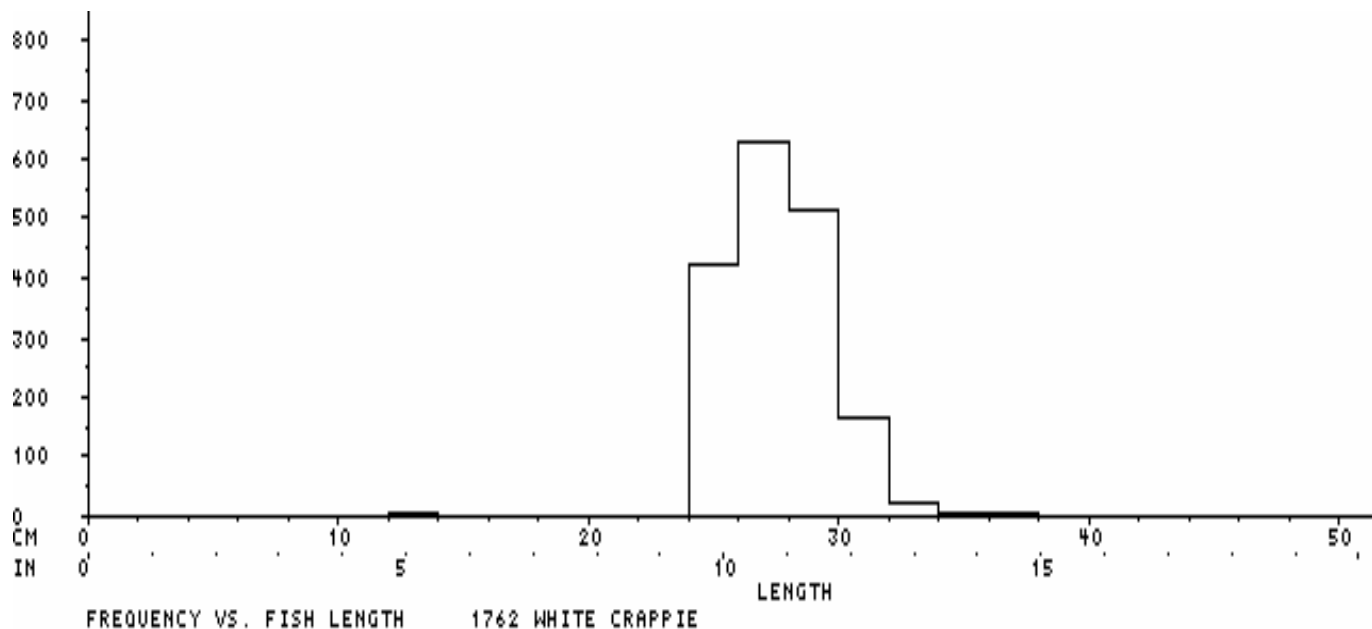


Figure 19. Carlyle Lake 2000 day creel 3/15 through 10/31. Length-frequency histogram of white crappie harvested by all anglers.

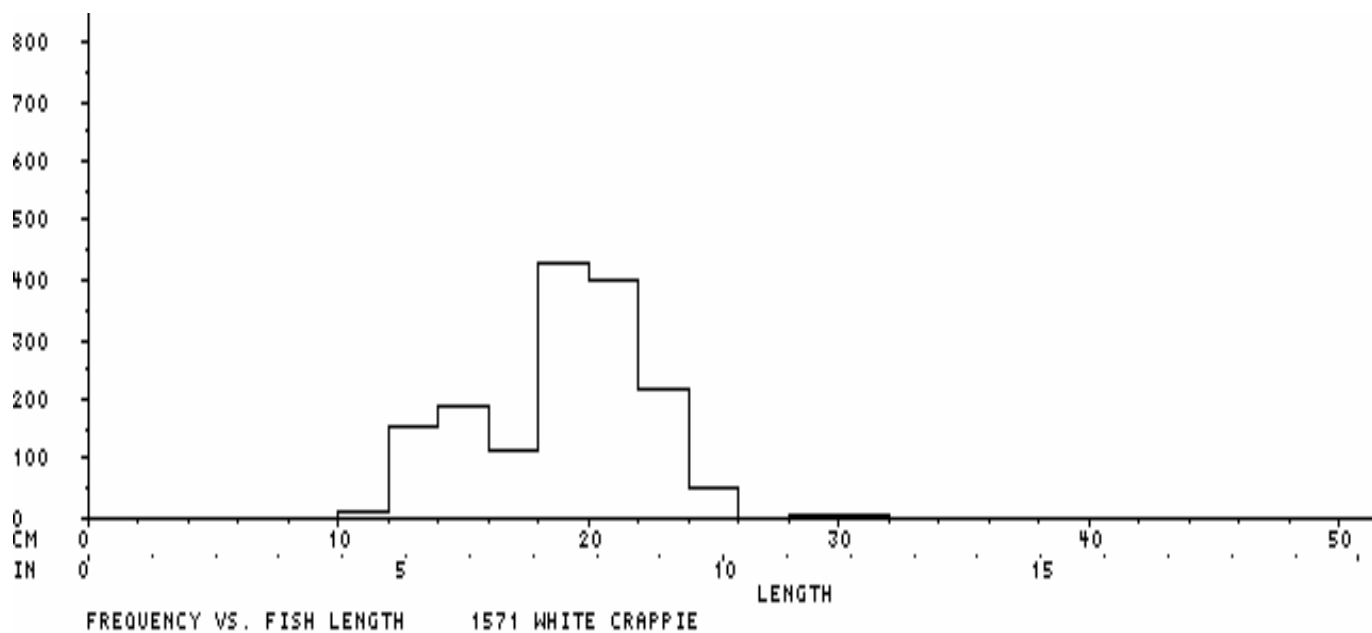


Figure 20. Carlyle Lake 2000 day creel 3/15 through 10/31. Length-frequency histogram of white crappie released by all anglers.

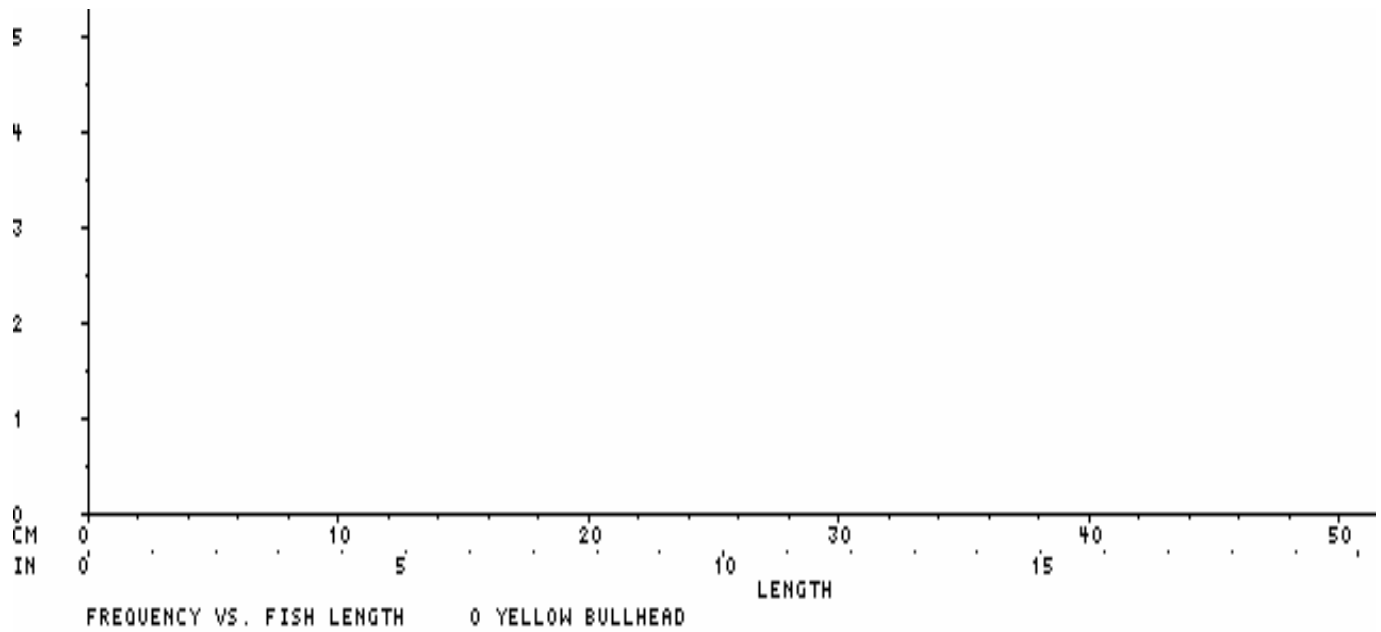


Figure 21. Carlyle Lake 2000 day creel 3/15 through 10/31. Length-frequency histogram of yellow bullhead harvested by all anglers.

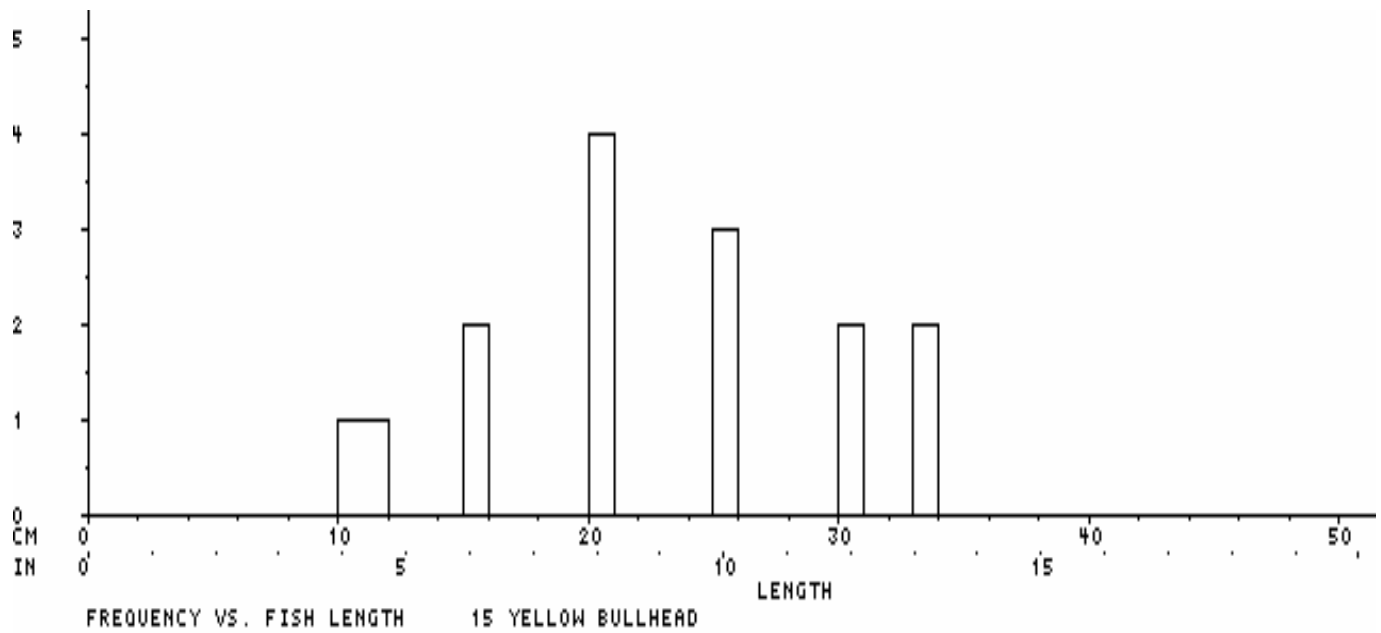


Figure 22. Carlyle Lake 2000 day creel 3/15 through 10/31. Length-frequency histogram of yellow bullhead released by all anglers.