

ILLINOIS NATURAL HISTORY SURVEY
 CENTER FOR AQUATIC ECOLOGY
 1999 CREEL SURVEY RESULTS

1999 LAKE MCLEANSBORO
 75 ACRES
 REGION 5, DISTRICT 20

STRATIFICATION SUMMARY:

Day creel only.
 Results cover 03/15/1999 through 10/31/1999
 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: 310/693 = 44.7%

NUMBER OF INTERVIEWS: 380

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	617	402-831 (35%)	8	5-11 (35%)	26%
	HOLIDAY	1323	590-2057 (55%)	18	8-27 (55%)	47%
	TOTAL	1940	1181-2699 (39%)	26	16-36 (39%)	40%
SHORE	WEEKDAY	1521	1078-1963 (29%)	20	14-26 (29%)	17%
	HOLIDAY	1074	791-1357 (26%)	14	11-18 (26%)	27%
	TOTAL	2595	2086-3104 (20%)	35	28-41 (20%)	21%
BOAT & SHORE	WEEKDAY	2137	1659-2615 (22%)	28	22-35 (22%)	19%
	HOLIDAY	2398	1620-3175 (32%)	32	22-42 (32%)	38%
	TOTAL	4535	3671-5398 (19%)	60	49-72 (19%)	29%

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

# HARVESTED	95% CI		#/HOUR	95% CI	#/HA	#/ACRE	SPECIES
2108	1591-2626	(25%)	.212	.157-.268 (26%)	69.46	28.11	All species
			****	NOT RECORDED	****		Black crappie
550	233-868	(58%)	.055	.017-.093 (69%)	18.13	7.34	Bluegill
1008	730-1286	(28%)	.114	.079-.150 (31%)	33.21	13.44	Channel catfish
6	0-15	(154%)	.001	.000-.002 (186%)	0.20	0.08	Flathead catfish
2	0-7	(236%)	.001	.000-.002 (236%)	0.07	0.03	Grass carp
48	0-100	(110%)	.006	.000-.015 (160%)	1.57	0.64	Largemouth bass
62	9-115	(85%)	.005	.001-.010 (80%)	2.04	0.83	Redear sunfish
413	106-720	(74%)	.022	.007-.037 (69%)	13.60	5.50	White crappie
20	0-56	(187%)	.009	.000-.026 (198%)	0.65	0.26	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
727	541-914	(26%)	.087	.058-.115 (33%)	23.97	0.345	All species
			****	NOT RECORDED	****		Black crappie
52	24-80	(54%)	.006	.001-.010 (77%)	1.71	0.094	Bluegill
436	305-566	(30%)	.050	.031-.070 (39%)	14.35	0.432	Channel catfish
62	0-163	(162%)	.009	.000-.026 (192%)	2.04	10.324	Flathead catfish
17	0-59	(245%)	.006	.000-.021 (245%)	0.57	8.600	Grass carp
55	2-107	(97%)	.006	.000-.015 (137%)	1.80	1.161	Largemouth bass
14	2-26	(84%)	.001	.000-.002 (78%)	0.46	0.228	Redear sunfish
84	6-163	(93%)	.004	.001-.007 (81%)	2.77	0.204	White crappie
8	0-24	(182%)	.004	.000-.011 (196%)	0.28	0.440	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
1604	1193-2014	(26%)	.191	.127-.255 (33%)	21.38	0.761	All species
			****	NOT RECORDED	****		Black crappie
114	53-176	(54%)	.012	.003-.022 (77%)	1.52	0.208	Bluegill
960	673-1247	(30%)	.111	.068-.154 (39%)	12.80	0.953	Channel catfish
137	0-358	(162%)	.020	.000-.058 (192%)	1.82	22.760	Flathead catfish
38	0-131	(245%)	.014	.000-.046 (236%)	0.51	18.959	Grass carp
120	4-237	(97%)	.014	.000-.033 (137%)	1.60	2.559	Largemouth bass
31	5-56	(84%)	.003	.001-.005 (78%)	0.41	0.502	Redear sunfish
185	12-359	(93%)	.009	.002-.016 (81%)	2.47	0.450	White crappie
18	0-52	(182%)	.008	.000-.024 (196%)	0.25	0.970	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
3931	2714-5148	(31%)	.363	.275-.450 (24%)	129.53	52.42	All species
61	0-225	(271%)	.009	.000-.036 (317%)	2.00	0.81	Black crappie
790	412-1168	(48%)	.094	.044-.145 (53%)	26.03	10.53	Bluegill
1169	873-1465	(25%)	.138	.100-.176 (28%)	38.52	15.59	Channel catfish
6	0-15	(154%)	.001	.000-.002 (186%)	0.20	0.08	Flathead catfish
2	0-7	(236%)	.001	.000-.002 (236%)	0.07	0.03	Grass carp
436	265-607	(39%)	.047	.029-.065 (39%)	14.36	5.81	Largemouth bass
71	17-125	(76%)	.007	.002-.012 (71%)	2.35	0.95	Redear sunfish
1335	229-2442	(83%)	.054	.016-.091 (70%)	43.99	17.80	White crappie
23	0-60	(160%)	.010	.000-.027 (183%)	0.77	0.31	Yellow bullhead
38	0-125	(226%)	.003	.000-.009 (226%)	1.26	0.51	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
1277	995-1559	(22%)	.141	.105-.177 (26%)	42.07	0.325	All species
27	0-106	(297%)	.004	.000-.018 (318%)	0.88	0.447	Black crappie
67	36-98	(46%)	.008	.003-.012 (60%)	2.20	0.085	Bluegill
478	344-612	(28%)	.056	.037-.075 (34%)	15.75	0.409	Channel catfish
62	0-163	(162%)	.009	.000-.026 (192%)	2.04	10.324	Flathead catfish
17	0-59	(245%)	.006	.000-.021 (245%)	0.57	8.600	Grass carp
410	244-577	(41%)	.044	.025-.064 (45%)	13.52	0.944	Largemouth bass
17	5-30	(71%)	.002	.000-.004 (87%)	0.57	0.246	Redear sunfish
185	30-339	(84%)	.007	.002-.011 (67%)	6.09	0.138	White crappie
10	0-25	(159%)	.004	.000-.011 (183%)	0.32	0.422	Yellow bullhead
4	0-12	(223%)	.000	.000-.001 (226%)	0.12	0.099	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
2815	2193-3438	(22%)	.310	.230-.389 (26%)	37.54	0.716	All species
59	0-235	(297%)	.009	.000-.039 (318%)	0.79	0.985	Black crappie
147	79-215	(46%)	.017	.007-.027 (60%)	1.96	0.186	Bluegill
1054	758-1350	(28%)	.123	.081-.165 (34%)	14.06	0.902	Channel catfish
137	0-358	(162%)	.020	.000-.058 (192%)	1.82	22.760	Flathead catfish
38	0-131	(245%)	.014	.000-.046 (236%)	0.51	18.959	Grass carp
905	538-1272	(41%)	.098	.054-.142 (45%)	12.07	2.080	Largemouth bass
38	11-66	(71%)	.005	.001-.009 (87%)	0.51	0.542	Redear sunfish
407	67-748	(84%)	.015	.005-.025 (67%)	5.43	0.305	White crappie
21	0-55	(159%)	.009	.000-.025 (183%)	0.29	0.930	Yellow bullhead
8	0-27	(226%)	.001	.000-.002 (226%)	0.11	0.219	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	4.1	3.8-4.5	(8%)	1.0	8.0	127
SHORE	2.5	2.3-2.7	(8%)	0.5	8.0	125
BOAT & SHORE	3.3	3.1-3.5	(7%)	0.5	8.0	252
MILES TRAVELED	6.3	4.6-8.0	(27%)	1	200	251
SUCCESS RATING (1-10)	5.3	5.0-5.6	(5%)	1	10	279

*72 samples were from split interviews of completed trips.

81.8% of all 308 interviews were completed trips.

ILLEGAL HARVEST: Clerk noted 0 out of 308 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	78	53	6							
SHORE INTERVIEWS	110	57	4							

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

2 (0.6%)	ANY	All species
1 (0.3%)	BLC	Black crappie
30 (9.7%)	BLG	Bluegill
144 (46.8%)	CCF	Channel catfish
31 (10.1%)	CRP	Crappie spp.
3 (1.0%)	FCF	Flathead catfish
62 (20.1%)	LMB	Largemouth bass
6 (1.9%)	RSF	Redear sunfish
29 (9.4%)	WHC	White crappie

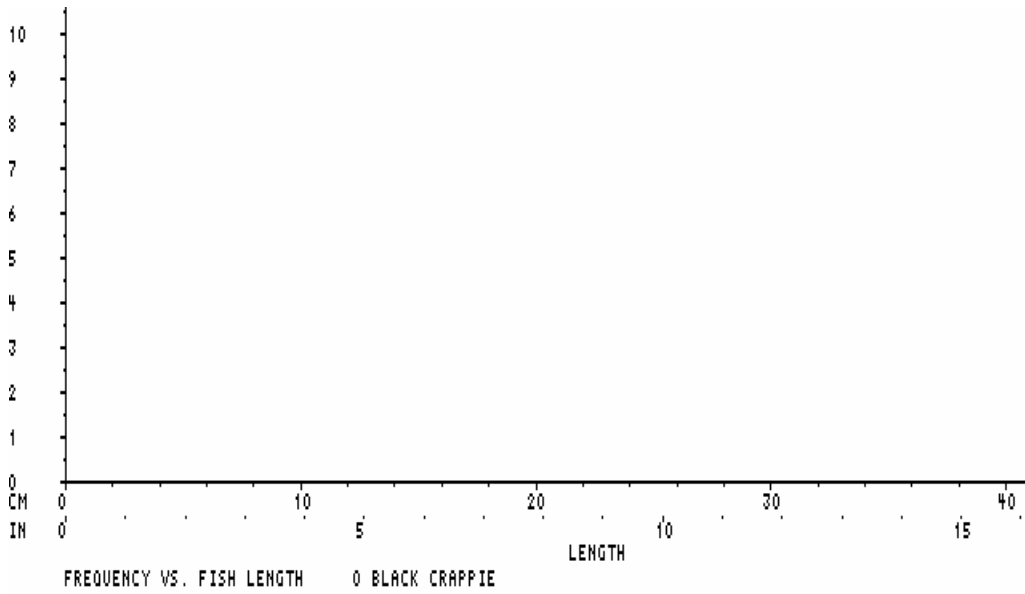


Figure 1. Lake McLeansboro 1999 day creel 3/15 through 10/31. Length-frequency histogram of black crappie harvested by all anglers.

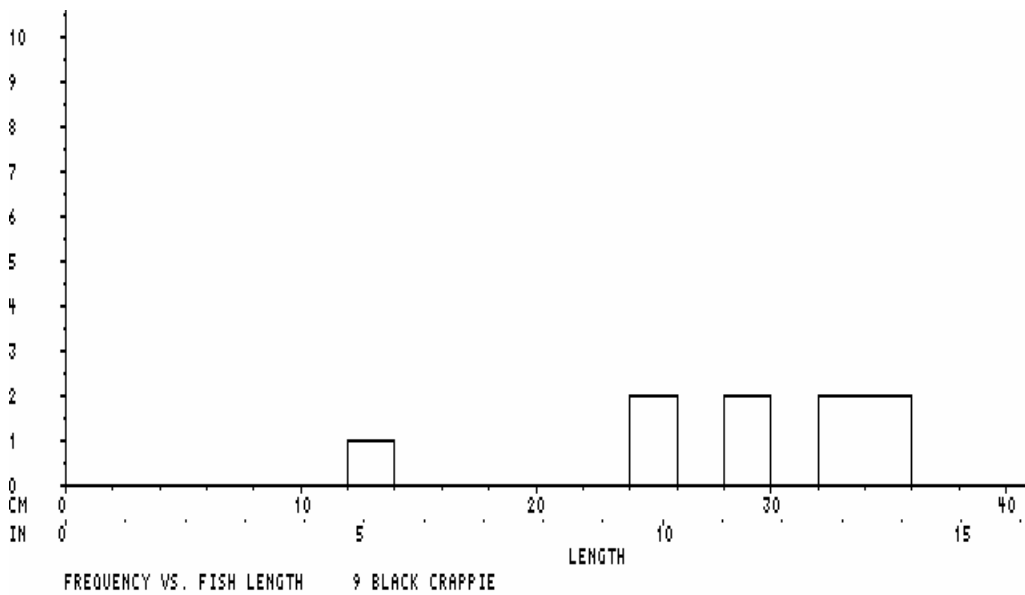


Figure 2. Lake McLeansboro 1999 day creel 3/15 through 10/31. Length-frequency histogram of black crappie released by all anglers.

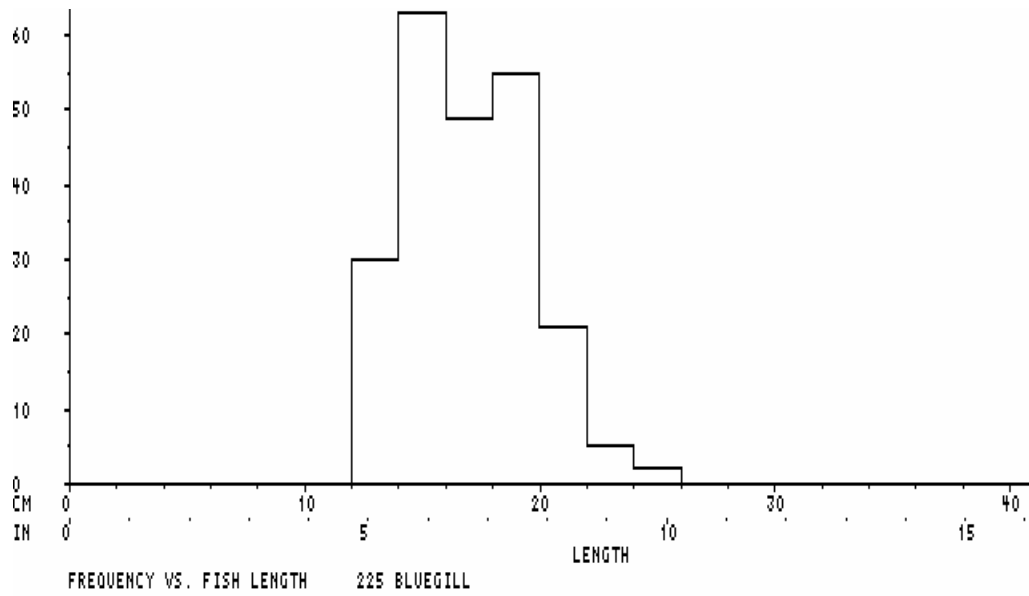


Figure 3. Lake McLeansboro 1999 day creel 3/15 through 10/31. Length-frequency histogram of bluegill harvested by all anglers.

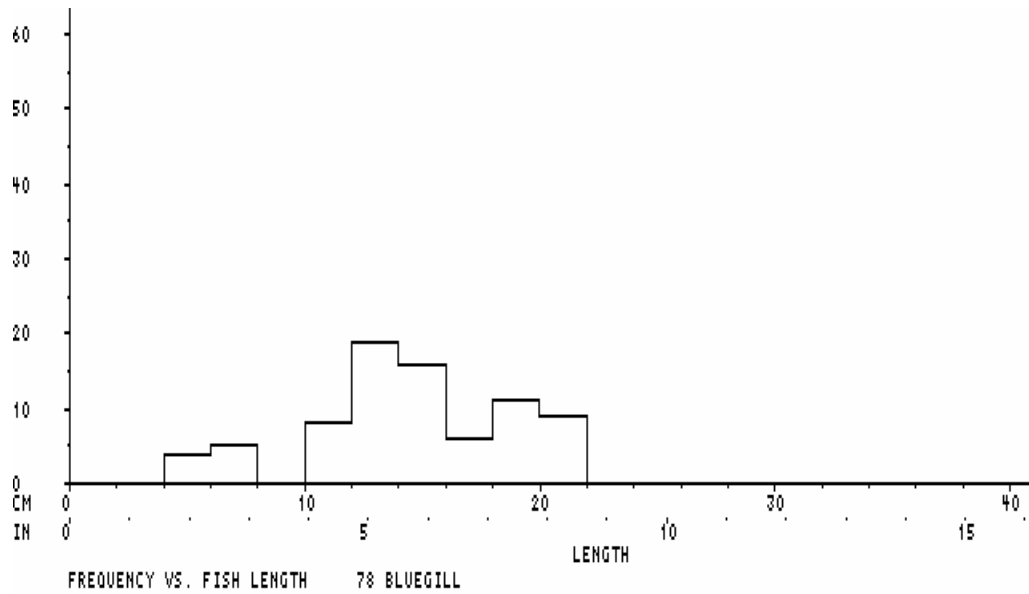


Figure 4. Lake McLeansboro 1999 day creel 3/15 through 10/31. Length-frequency histogram of bluegill released by all anglers.

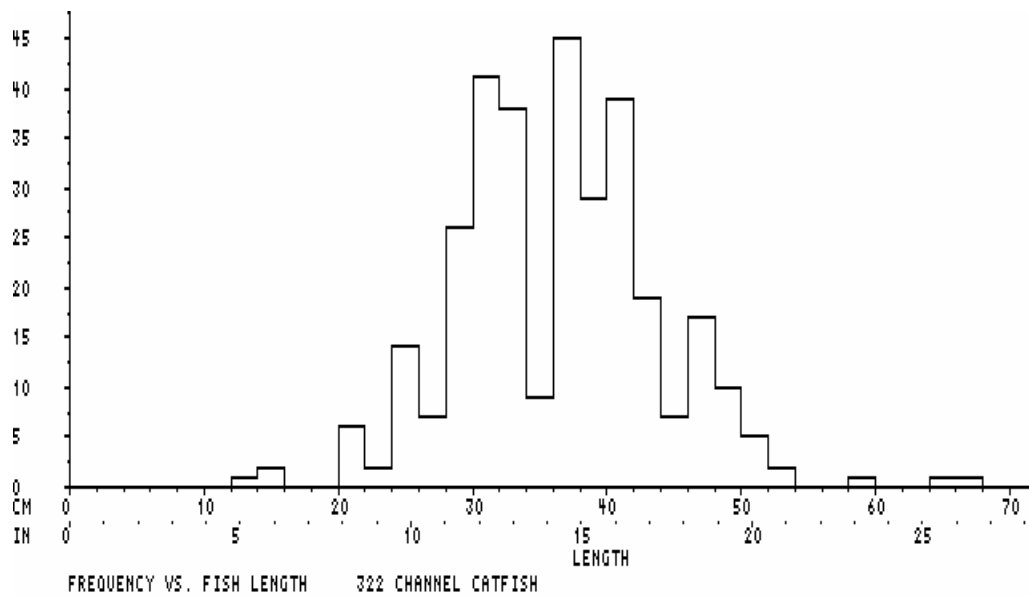


Figure 5. Lake McLeansboro 1999 day creel 3/15 through 10/31. Length-frequency histogram of channel catfish harvested by all anglers.

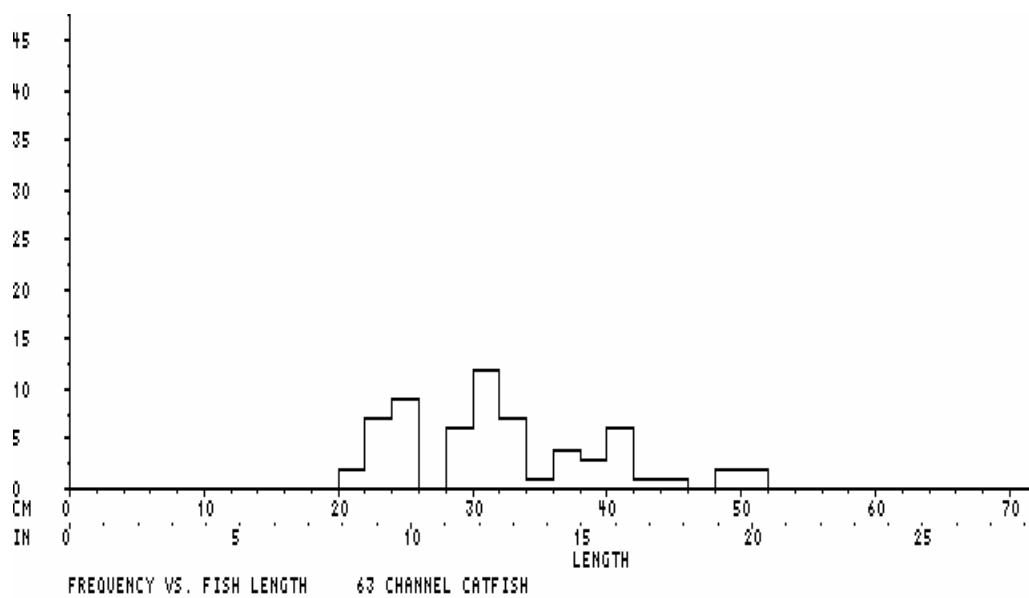


Figure 6. Lake McLeansboro 1999 day creel 3/15 through 10/31. Length-frequency histogram of channel catfish released by all anglers.

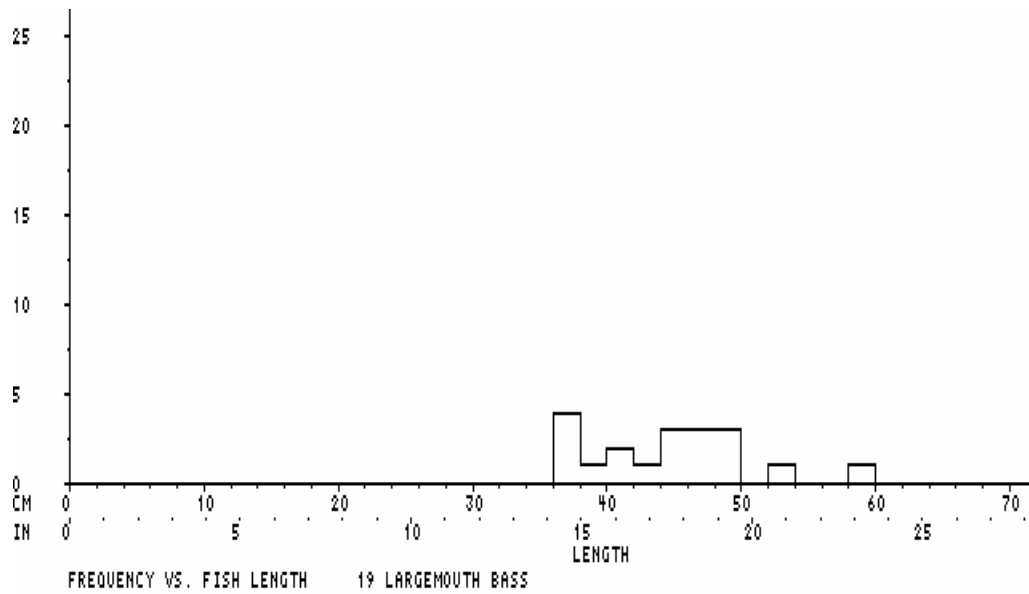


Figure 7. Lake McLeansboro 1999 day creel 3/15 through 10/31. Length-frequency histogram of largemouth bass harvested by all anglers.

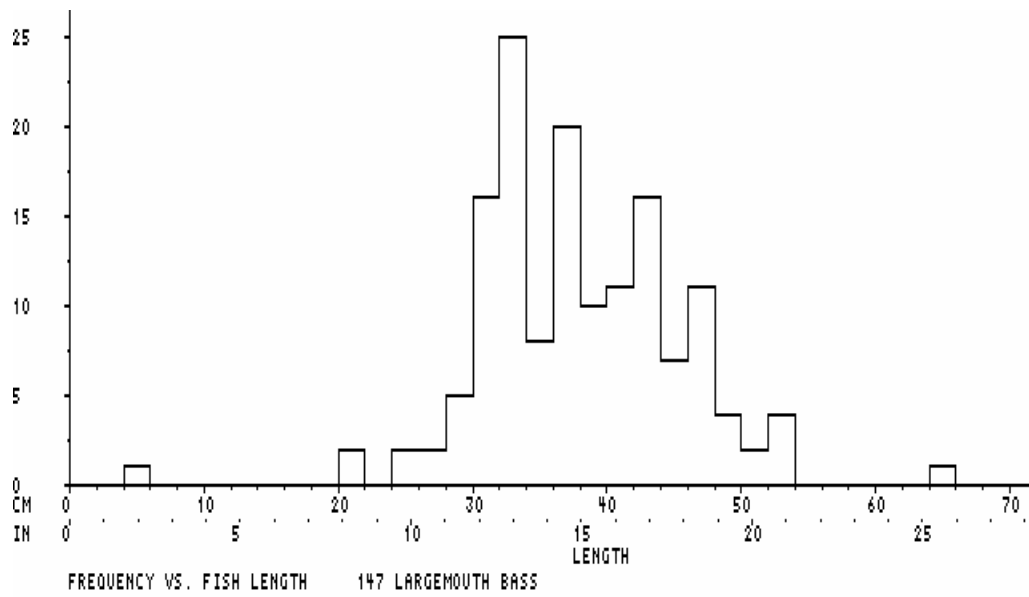


Figure 8. Lake McLeansboro 1999 day creel 3/15 through 10/31. Length-frequency histogram of largemouth bass released by all anglers.

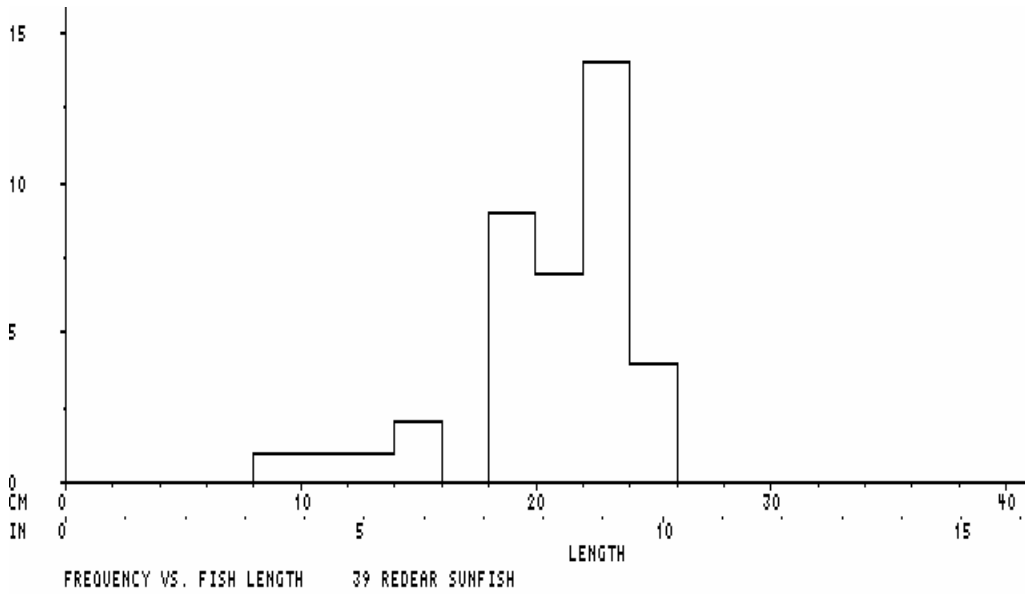


Figure 9. Lake McLeansboro 1999 day creel 3/15 through 10/31. Length-frequency histogram of reardear sunfish harvested by all anglers.

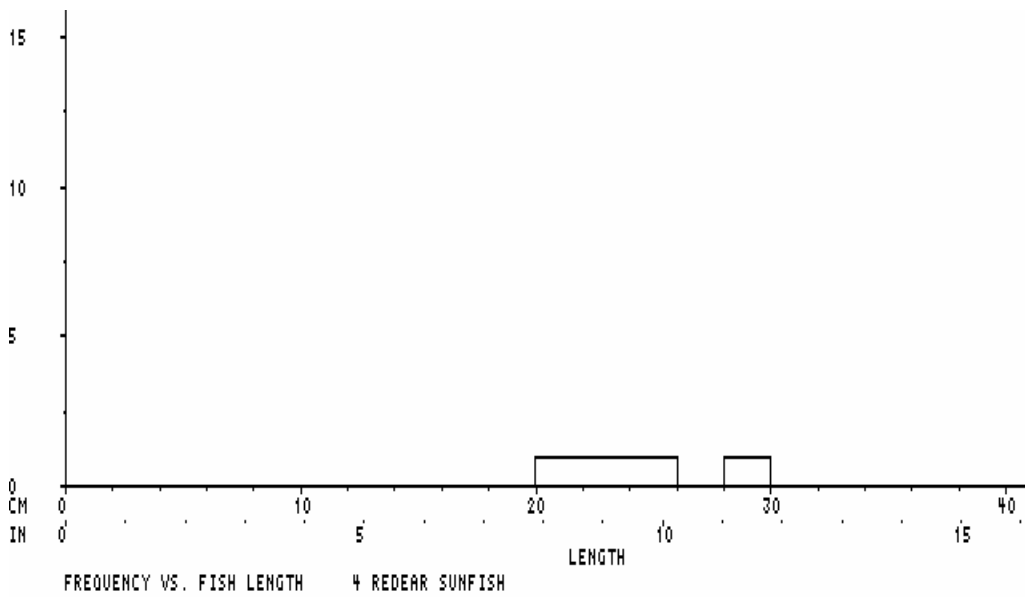


Figure 10. Lake McLeansboro 1999 day creel 3/15 through 10/31. Length-frequency histogram of reardear sunfish released by all anglers.

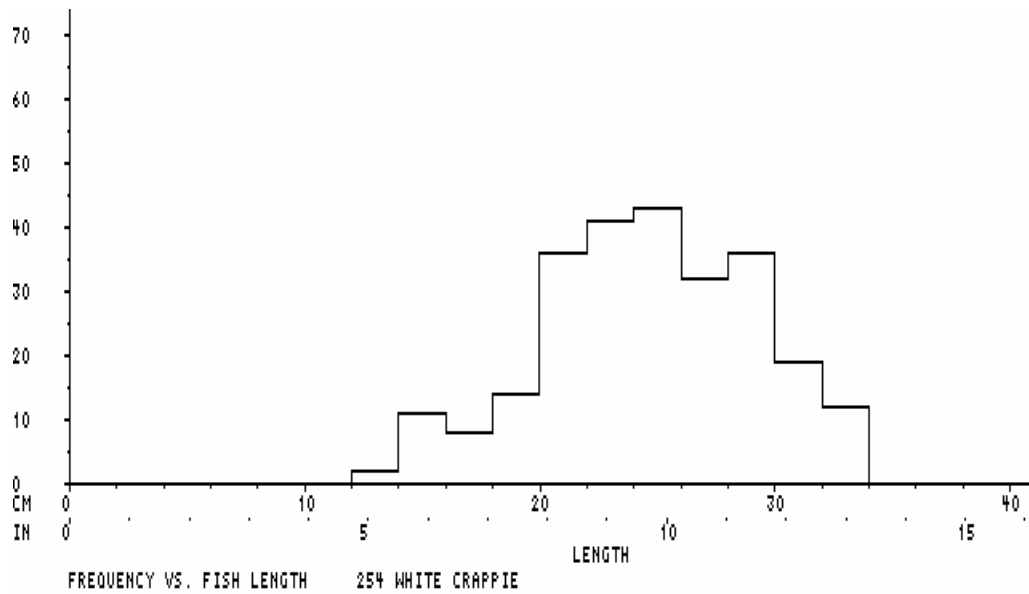


Figure 11. Lake McLeansboro 1999 day creel 3/15 through 10/31. Length-frequency histogram of white crappie harvested by all anglers.

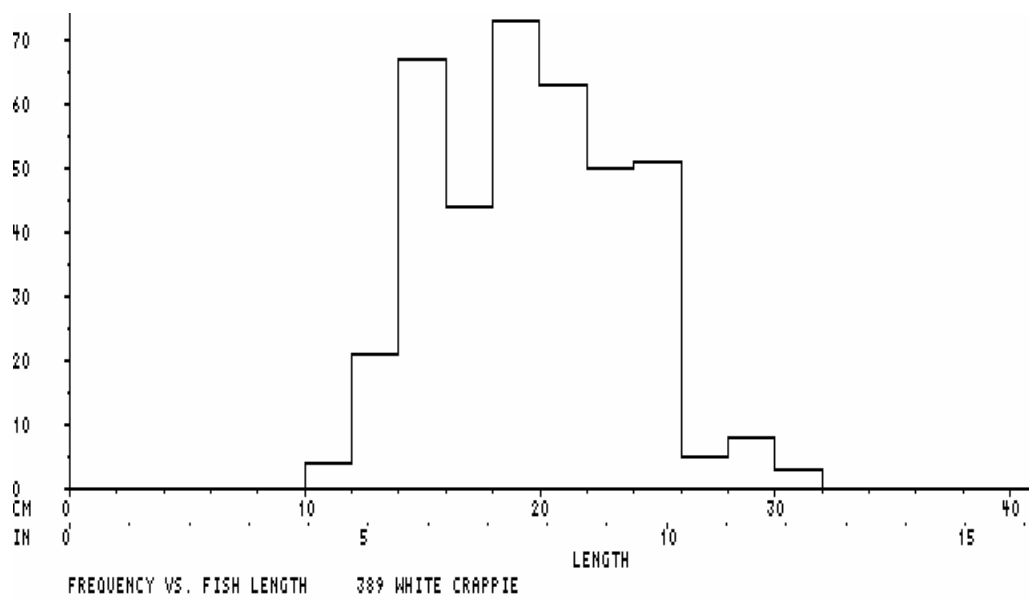


Figure 12. Lake McLeansboro 1999 day creel 3/15 through 10/31. Length-frequency histogram of white crappie released by all anglers.