

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

2000 SILVER LAKE
 65 ACRES
 REGION 2, DISTRICT 6

STRATIFICATION SUMMARY:

Day creel only.
 Results cover **04/01/2000 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: 290/642 = 45.2%

NUMBER OF INTERVIEWS: 3388

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	4509	3636-5382 (19%)	69	56-83 (19%)	15%
	HOLIDAY	6507	5601-7412 (14%)	100	86-114 (14%)	31%
	TOTAL	11015	9758-12273 (11%)	169	150-189 (11%)	24%
SHORE	WEEKDAY	15231	13238-17224 (13%)	234	204-265 (13%)	15%
	HOLIDAY	17346	15139-19554 (13%)	267	233-301 (13%)	26%
	TOTAL	32578	29603-35552 (9%)	501	455-547 (9%)	21%
BOAT & SHORE	WEEKDAY	19740	17564-21916 (11%)	304	270-337 (11%)	15%
	HOLIDAY	23853	21467-26239 (10%)	367	330-404 (10%)	27%
	TOTAL	43593	40364-46822 (7%)	671	621-720 (7%)	22%

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

# HARVESTED	95% CI		#/HOUR	95% CI	#/HA	#/ACRE	SPECIES
13577	11283-15870	(17%)	.347	.264-.430 (24%)	516.12	208.87	All species
8	0-43	(430%)	.000	.000-.000 (318%)	0.31	0.13	Bluegill x Green
310	53-568	(83%)	.006	.002-.010 (72%)	11.79	4.77	Black crappie
9390	7348-11432	(22%)	.253	.182-.324 (28%)	356.97	144.46	Bluegill
			****	NOT RECORDED ****			Carp
57	20-94	(65%)	.002	.000-.005 (118%)	2.16	0.87	Channel catfish
67	7-128	(90%)	.001	.000-.001 (88%)	2.55	1.03	Green sunfish
848	624-1073	(26%)	.029	.019-.038 (33%)	32.25	13.05	Largemouth bass
			****	NOT RECORDED ****			Northern pike
2762	1856-3669	(33%)	.043	.033-.054 (24%)	105.01	42.50	Rainbow trout
			****	NOT RECORDED ****			Smallmouth bass
6	0-19	(220%)	.000	.000-.000 (218%)	0.22	0.09	Walleye
73	0-170	(132%)	.012	.000-.039 (225%)	2.78	1.13	White crappie
55	0-114	(110%)	.001	.000-.004 (139%)	2.07	0.84	Yellow perch

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

KG HARVESTED	95% CI		KG/HOUR	95% CI	KG/HA	AVE KG	SPECIES
3046	2537-3555	(17%)	.079	.061-.096 (22%)	115.79	0.224	All species
1	0-3	(318%)	.000	.000-.000 (318%)	0.03	0.091	Bluegill x Green
48	6-90	(87%)	.001	.000-.001 (74%)	1.84	0.156	Black crappie
1006	777-1234	(23%)	.027	.018-.036 (32%)	38.24	0.107	Bluegill
			****	NOT RECORDED ****			Carp
110	35-186	(68%)	.005	.000-.010 (112%)	4.19	1.944	Channel catfish
5	1-8	(80%)	.000	.000-.000 (86%)	0.17	0.068	Green sunfish
582	422-743	(28%)	.023	.014-.033 (40%)	22.13	0.686	Largemouth bass
			****	NOT RECORDED ****			Northern pike
1271	838-1705	(34%)	.020	.015-.025 (27%)	48.34	0.460	Rainbow trout
			****	NOT RECORDED ****			Smallmouth bass
3	0-8	(218%)	.000	.000-.000 (218%)	0.10	0.439	Walleye
15	0-35	(133%)	.002	.000-.008 (225%)	0.58	0.208	White crappie
4	0-9	(108%)	.000	.000-.000 (158%)	0.17	0.082	Yellow perch

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

LB HARVESTED	95% CI		LB/HOUR	95% CI	LB/ACRE	AVE LB	SPECIES
6715	5593-7837	(17%)	.173	.135-.211 (22%)	103.30	0.495	All species
2	0-7	(318%)	.000	.000-.000 (318%)	0.03	0.200	Bluegill x Green
107	14-199	(87%)	.002	.000-.003 (74%)	1.64	0.344	Black crappie
2218	1714-2721	(23%)	.060	.041-.079 (32%)	34.12	0.236	Bluegill
			****	NOT RECORDED ****			Carp
243	77-409	(68%)	.010	.000-.022 (112%)	3.74	4.286	Channel catfish
10	2-18	(80%)	.000	.000-.000 (86%)	0.15	0.149	Green sunfish
1283	929-1637	(28%)	.051	.031-.072 (40%)	19.74	1.513	Largemouth bass
			****	NOT RECORDED ****			Northern pike
2803	1848-3759	(34%)	.044	.032-.056 (27%)	43.12	1.015	Rainbow trout
			****	NOT RECORDED ****			Smallmouth bass
6	0-18	(218%)	.000	.000-.000 (218%)	0.09	0.968	Walleye
34	0-78	(133%)	.005	.000-.018 (225%)	0.52	0.458	White crappie
10	0-20	(108%)	.000	.000-.001 (158%)	0.15	0.180	Yellow perch

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
47642	40089-55194 (16%)	1.157	.967-1.347 (16%)	1811.12	732.95	All species
29	2-57 (93%)	.001	.000-.001 (124%)	1.12	0.45	Bluegill x Green
1446	839-2052 (42%)	.027	.014-.039 (47%)	54.97	22.24	Black crappie
28620	21239-36000 (26%)	.619	.457-.782 (26%)	1088.00	440.31	Bluegill
15	0-30 (98%)	.001	.000-.002 (160%)	0.58	0.24	Carp
84	38-129 (54%)	.003	.000-.006 (96%)	3.17	1.28	Channel catfish
461	294-627 (36%)	.005	.003-.007 (45%)	17.51	7.09	Green sunfish
13394	11580-15209 (14%)	.427	.338-.516 (21%)	509.18	206.06	Largemouth bass
6	0-14 (147%)	.000	.000-.000 (193%)	0.22	0.09	Northern pike
3018	2059-3978 (32%)	.047	.036-.058 (23%)	114.75	46.44	Rainbow trout
139	42-237 (70%)	.003	.000-.005 (110%)	5.29	2.14	Smallmouth bass
29	1-58 (98%)	.000	.000-.001 (100%)	1.12	0.45	Walleye
259	54-464 (79%)	.021	.000-.049 (127%)	9.85	3.99	White crappie
141	64-219 (55%)	.003	.001-.006 (71%)	5.37	2.17	Yellow perch

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

KG CAUGHT	95% CI	KG/HOUR	95% CI	KG/HA	AVE KG	SPECIES
7935	7002-8869 (12%)	.219	.182-.257 (17%)	301.67	0.167	All species
2	0-4 (107%)	.000	.000-.000 (150%)	0.08	0.074	Bluegill x Green
188	100-275 (46%)	.004	.002-.006 (54%)	7.13	0.130	Black crappie
2093	1639-2546 (22%)	.049	.038-.061 (23%)	79.55	0.073	Bluegill
14	0-29 (108%)	.001	.000-.002 (165%)	0.54	0.919	Carp
127	48-206 (62%)	.005	.000-.010 (108%)	4.82	1.518	Channel catfish
27	16-37 (40%)	.000	.000-.000 (47%)	1.02	0.058	Green sunfish
4019	3397-4640 (15%)	.134	.102-.166 (24%)	152.77	0.300	Largemouth bass
11	0-27 (145%)	.000	.000-.001 (199%)	0.42	1.926	Northern pike
1366	908-1823 (34%)	.021	.016-.027 (26%)	51.91	0.452	Rainbow trout
29	3-54 (90%)	.001	.000-.002 (150%)	1.09	0.206	Smallmouth bass
12	0-24 (104%)	.000	.000-.000 (106%)	0.45	0.401	Walleye
38	7-69 (82%)	.003	.000-.009 (170%)	1.43	0.145	White crappie
12	6-18 (53%)	.000	.000-.001 (94%)	0.45	0.085	Yellow perch

2000 SILVER LAKE

DAY CREEL

04/01/2000 - 10/31/2000

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

LB CAUGHT	95% CI	LB/HOUR	95% CI	LB/ACRE	AVE LB	SPECIES
17494	15437-19552 (12%)	.484	.401-.566 (17%)	269.15	0.367	All species
5	0-10 (107%)	.000	.000-.000 (150%)	0.07	0.162	Bluegill x Green
414	221-606 (46%)	.008	.004-.012 (54%)	6.37	0.286	Black crappie
4614	3614-5613 (22%)	.109	.083-.135 (23%)	70.98	0.161	Bluegill
31	0-65 (108%)	.002	.000-.004 (165%)	0.48	2.026	Carp
280	106-453 (62%)	.011	.000-.022 (108%)	4.30	3.347	Channel catfish
59	35-82 (40%)	.001	.000-.001 (47%)	0.91	0.128	Green sunfish
8859	7490-10229 (15%)	.296	.225-.367 (24%)	136.30	0.661	Largemouth bass
24	0-59 (145%)	.001	.000-.002 (199%)	0.37	4.246	Northern pike
3011	2001-4020 (34%)	.047	.035-.059 (26%)	46.32	0.997	Rainbow trout
63	6-120 (90%)	.001	.000-.003 (150%)	0.97	0.453	Smallmouth bass
26	0-53 (104%)	.000	.000-.001 (106%)	0.40	0.884	Walleye
83	15-151 (82%)	.007	.000-.020 (170%)	1.28	0.320	White crappie
26	12-40 (53%)	.001	.000-.001 (94%)	0.41	0.187	Yellow perch

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

	MEAN	95% CI	MIN	MAX	#SAMPLES
HOURS PER COMPLETED TRIP*					
BOAT	3.0	2.8-3.2 (7%)	0.6	13.0	314
SHORE	2.0	1.8-2.1 (8%)	0.4	8.7	337
BOAT & SHORE	2.5	2.3-2.6 (6%)	0.4	13.0	651
MILES TRAVELED	13.2	12.8-13.6 (3%)	1	107	2728
SUCCESS RATING (1-10)	4.7	4.6-4.8 (2%)	1	10	2723

*164 samples were from split interviews of completed trips.
20.2% of all 3221 interviews were completed trips.

ILLEGAL HARVEST: Clerk noted 29 out of 3221 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	199	263	87	18	9					
SHORE INTERVIEWS	1538	642	268	102	43	24	8	11	2	7

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

1186 (36.8%)	ANY	All species
50 (1.6%)	BLC	Black crappie
325 (10.1%)	BLG	Bluegill
2 (0.1%)	CAP	Carp
12 (0.4%)	CAT	Unidentified catfish
59 (1.8%)	CCF	Channel catfish
1 (0.0%)	CRP	Crappie spp.
1 (0.0%)	GSF	Green sunfish
998 (31.0%)	LMB	Largemouth bass
3 (0.1%)	NOP	Northern pike
510 (15.8%)	RBT	Rainbow trout
8 (0.2%)	SMB	Smallmouth bass
63 (2.0%)	WAE	Walleye
2 (0.1%)	WHC	White crappie
1 (0.0%)	YEP	Yellow perch

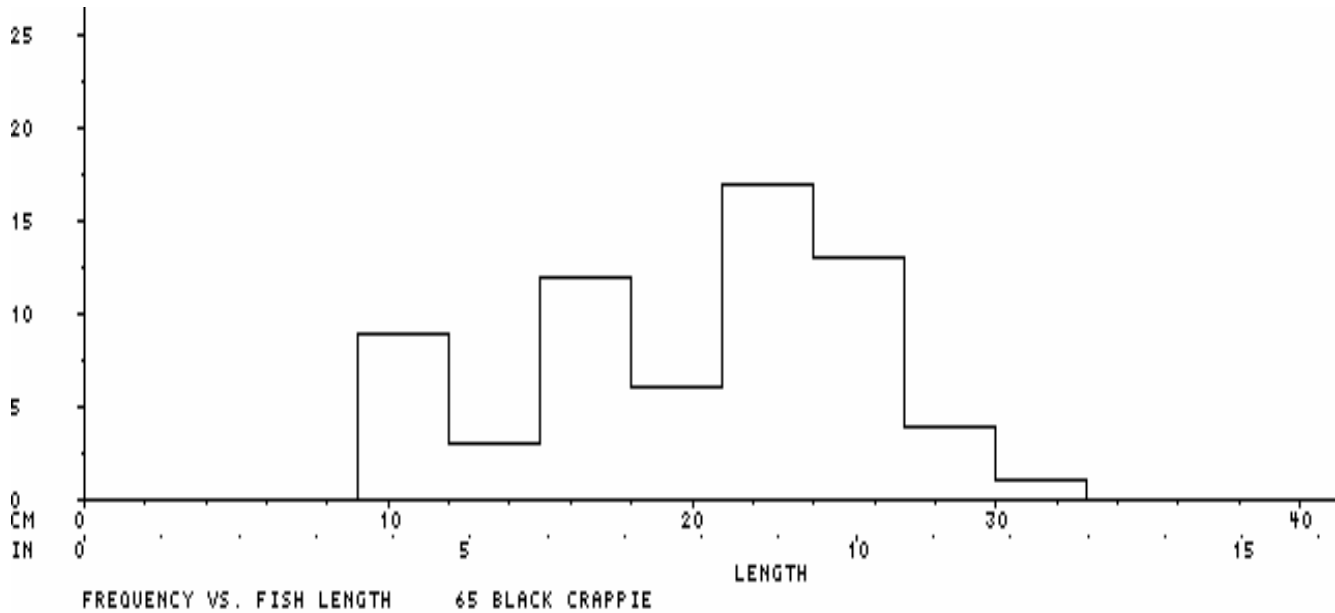


Figure 1. Silver Lake 2000 day creel 4/1 through 10/31. Length-frequency histogram of black crappie harvested by all anglers.

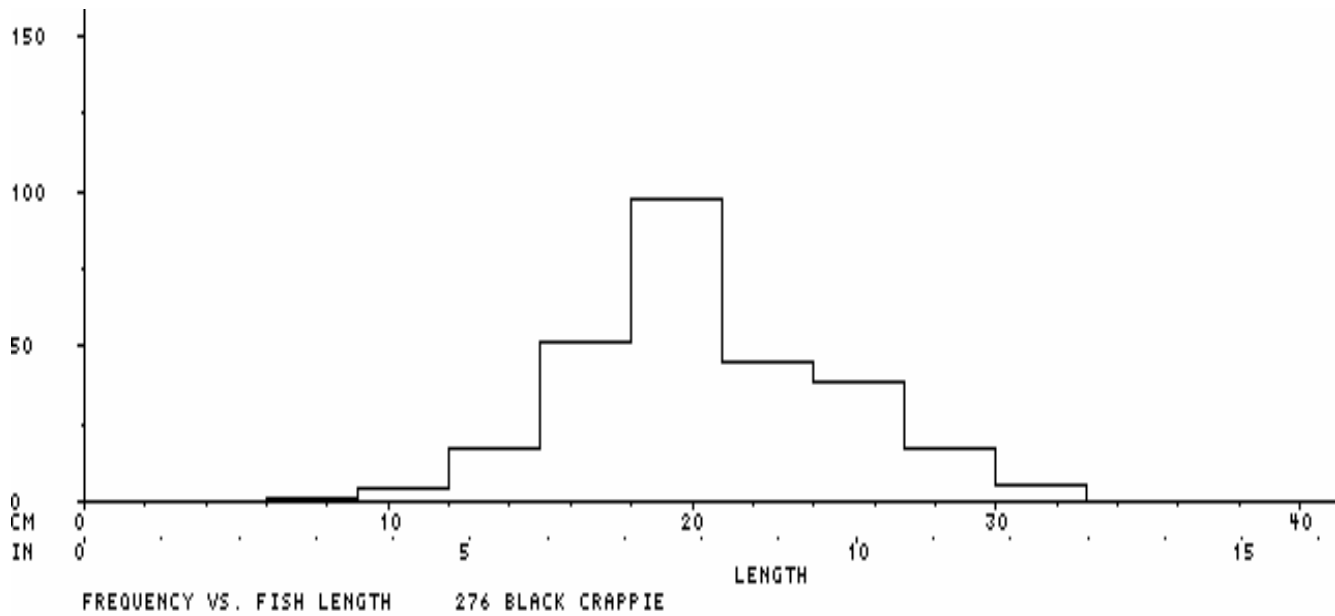


Figure 2. Silver Lake 2000 day creel 4/1 through 10/31. Length-frequency histogram of black crappie released by all anglers. Note the difference in scale from Figure 1.

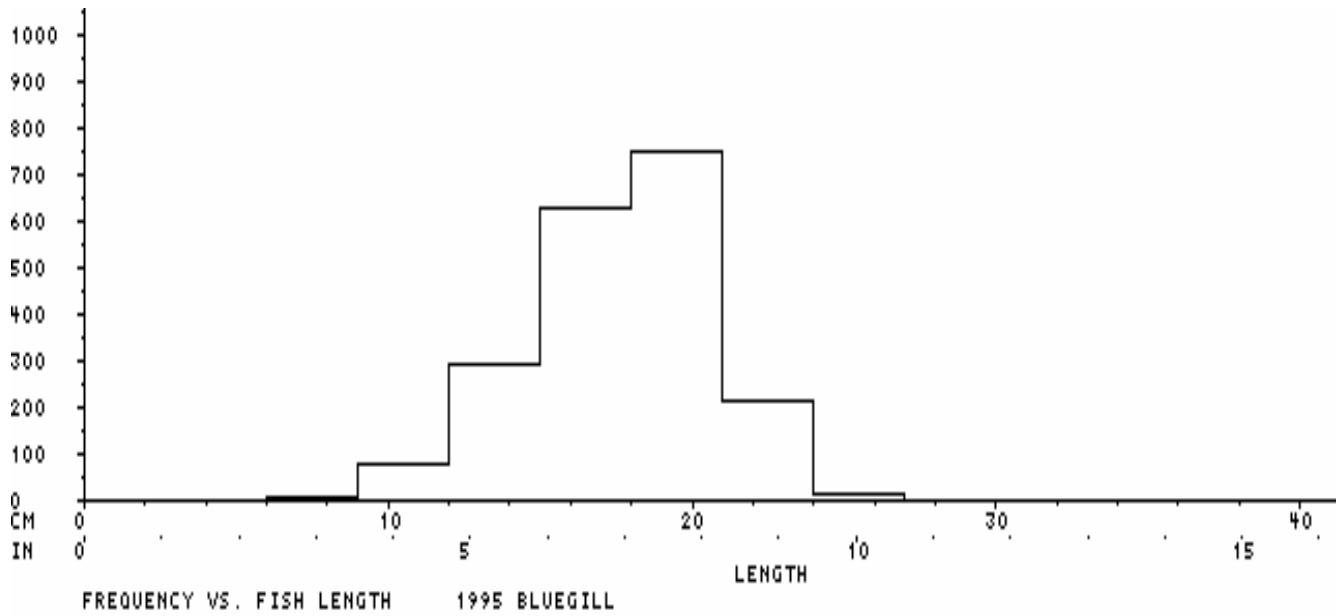


Figure 3. Silver Lake 2000 day creel 4/1 through 10/31. Length-frequency histogram of bluegill harvested by all anglers.

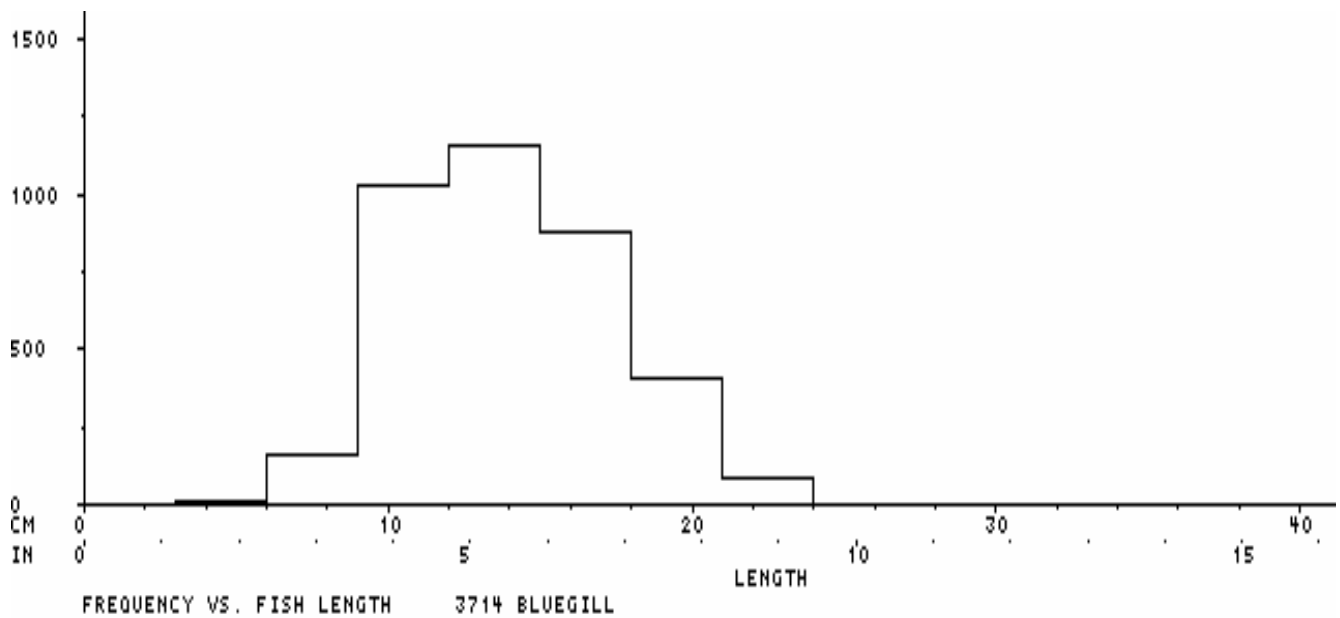


Figure 4. Silver Lake 2000 day creel 4/1 through 10/31. Length-frequency histogram of bluegill released by all anglers. Note the difference in scale from Figure 3.

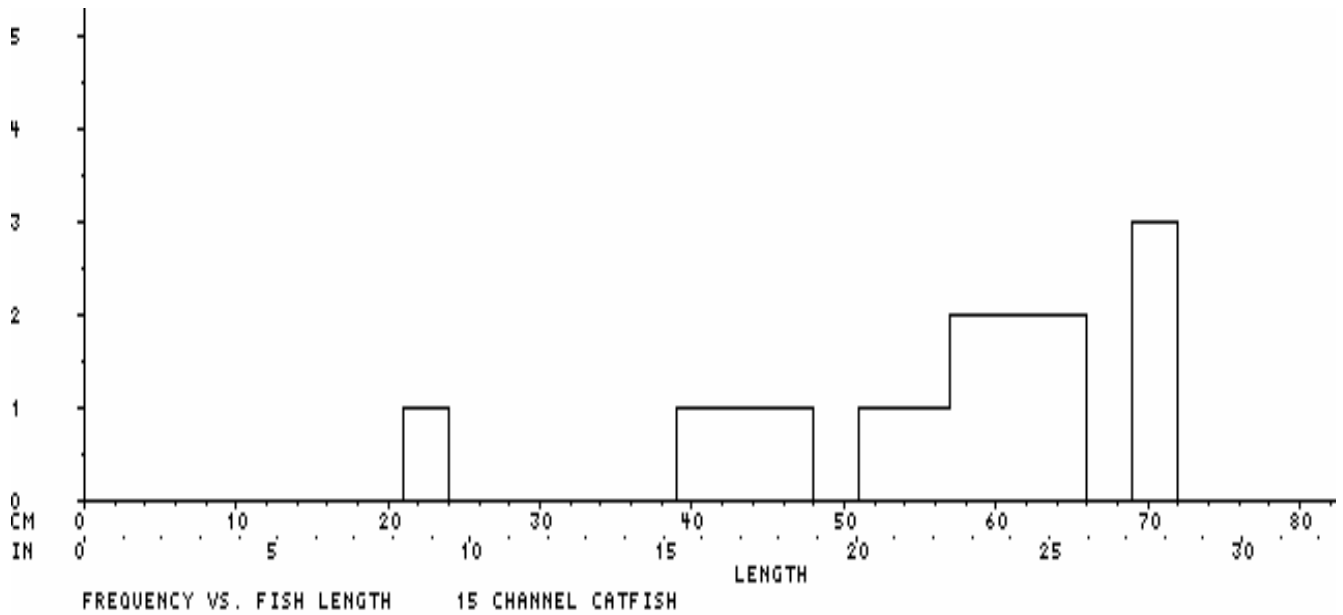


Figure 5. Silver Lake 2000 day creel 4/1 through 10/31. Length-frequency histogram of channel catfish harvested by all anglers.

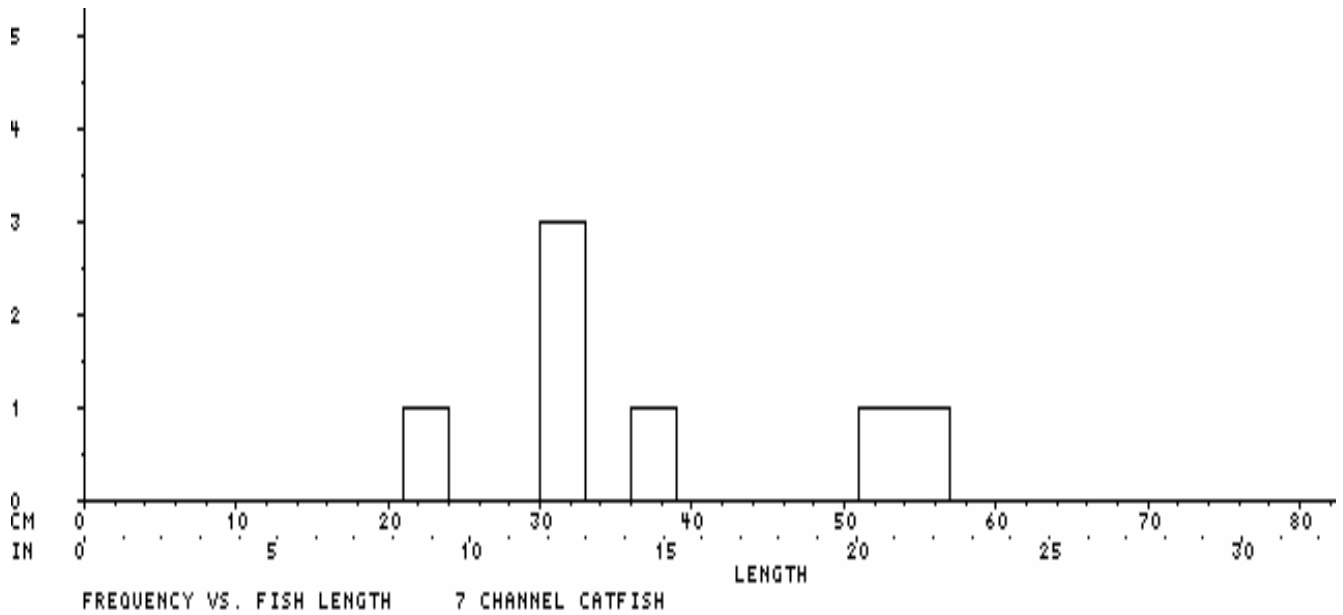


Figure 6. Silver Lake 2000 day creel 4/1 through 10/31. Length-frequency histogram of channel catfish released by all anglers.

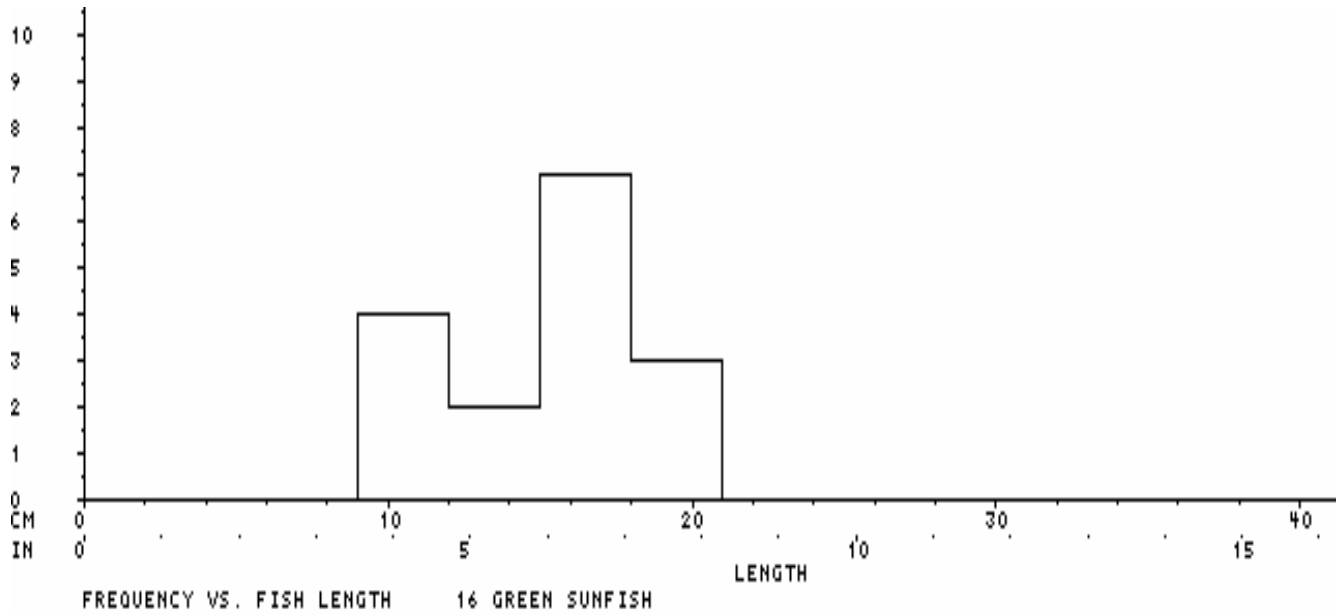


Figure 7. Silver Lake 2000 day creel 4/1 through 10/31. Length-frequency histogram of green sunfish harvested by all anglers.

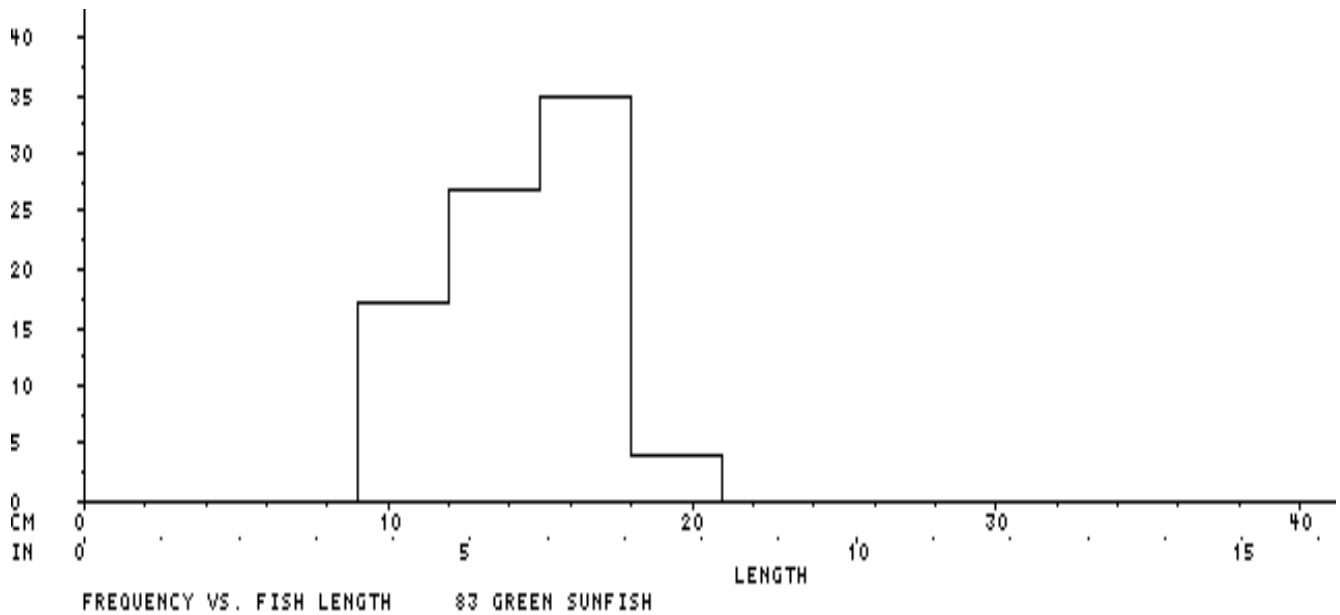


Figure 8. Silver Lake 2000 day creel 4/1 through 10/31. Length-frequency histogram of green sunfish released by all anglers. Note the difference in scale from Figure 7.

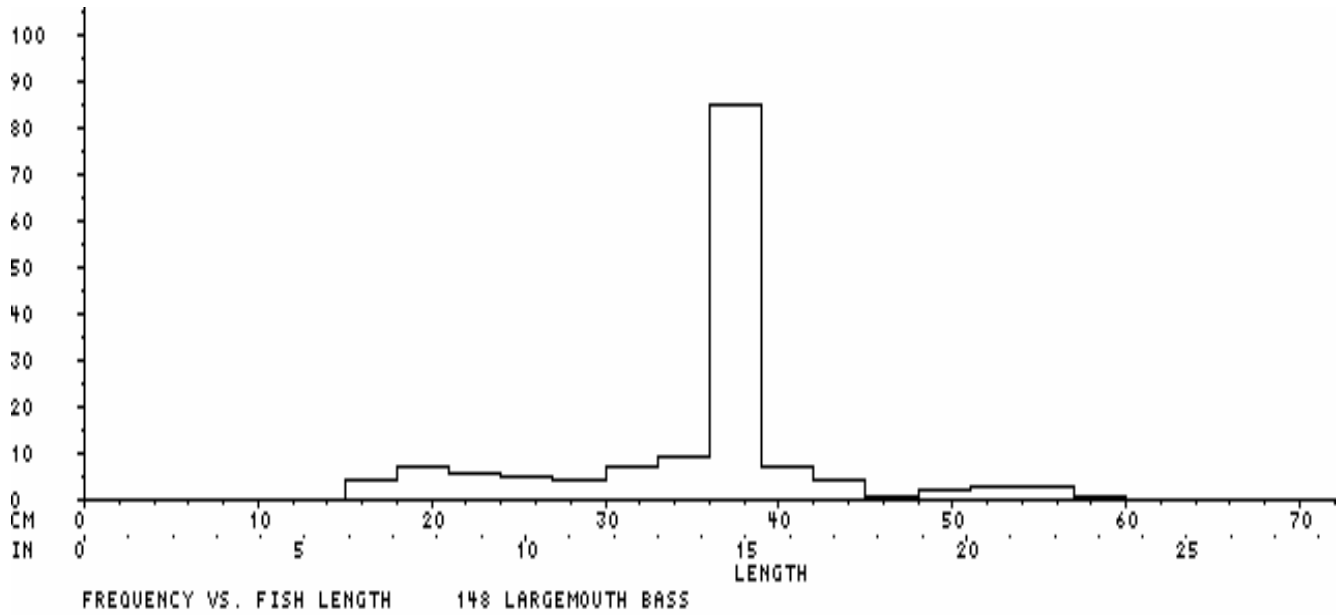


Figure 9. Silver Lake 2000 day creel 4/1 through 10/31. Length-frequency histogram of largemouth bass harvested by all anglers.

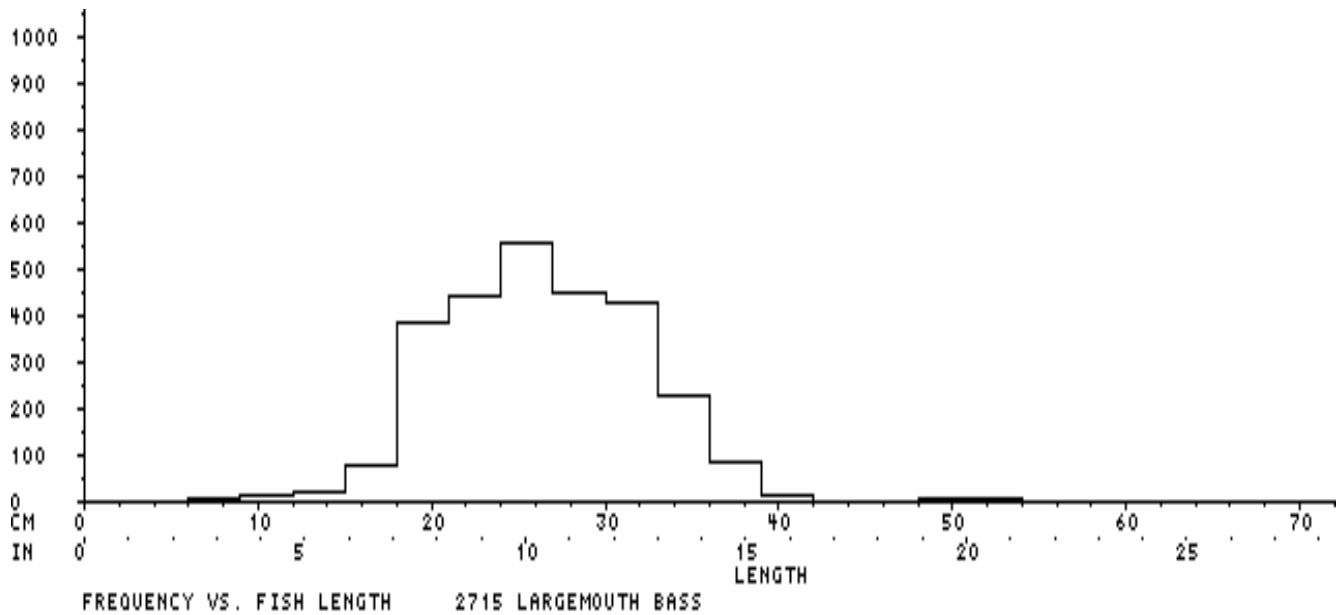


Figure 10. Silver Lake 2000 day creel 4/1 through 10/31. Length-frequency histogram of largemouth bass released by all anglers. Note the difference in scale from Figure 9.

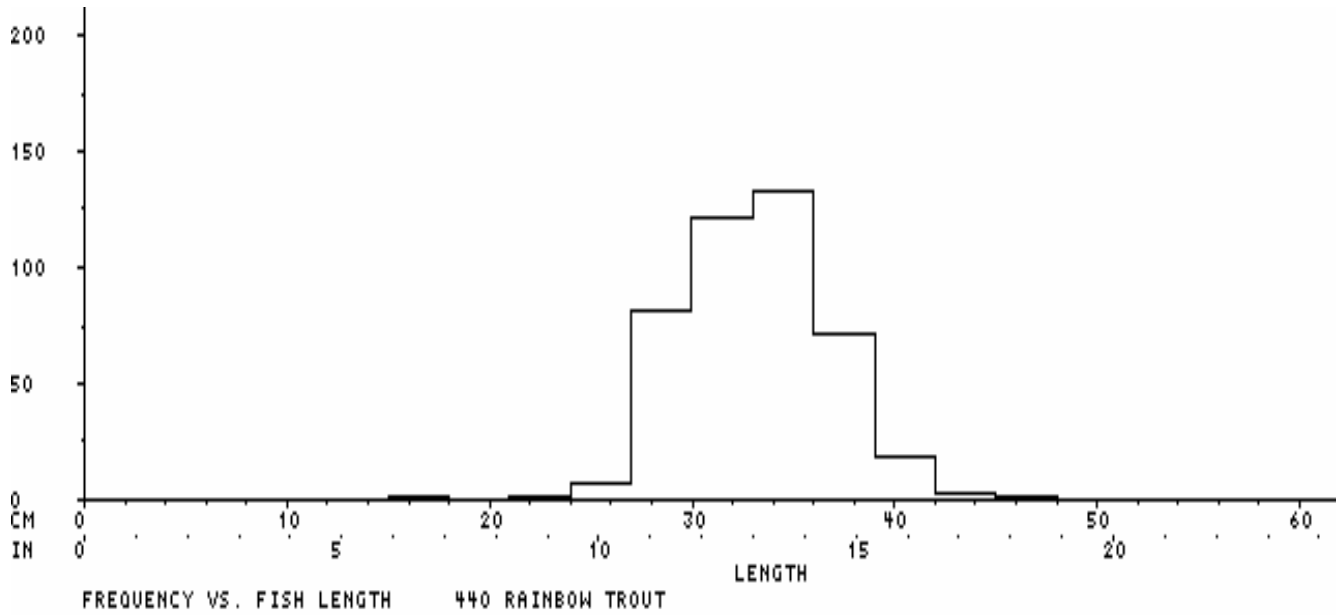


Figure 11. Silver Lake 2000 day creel 4/1 through 10/31. Length-frequency histogram of rainbow trout harvested by all anglers.

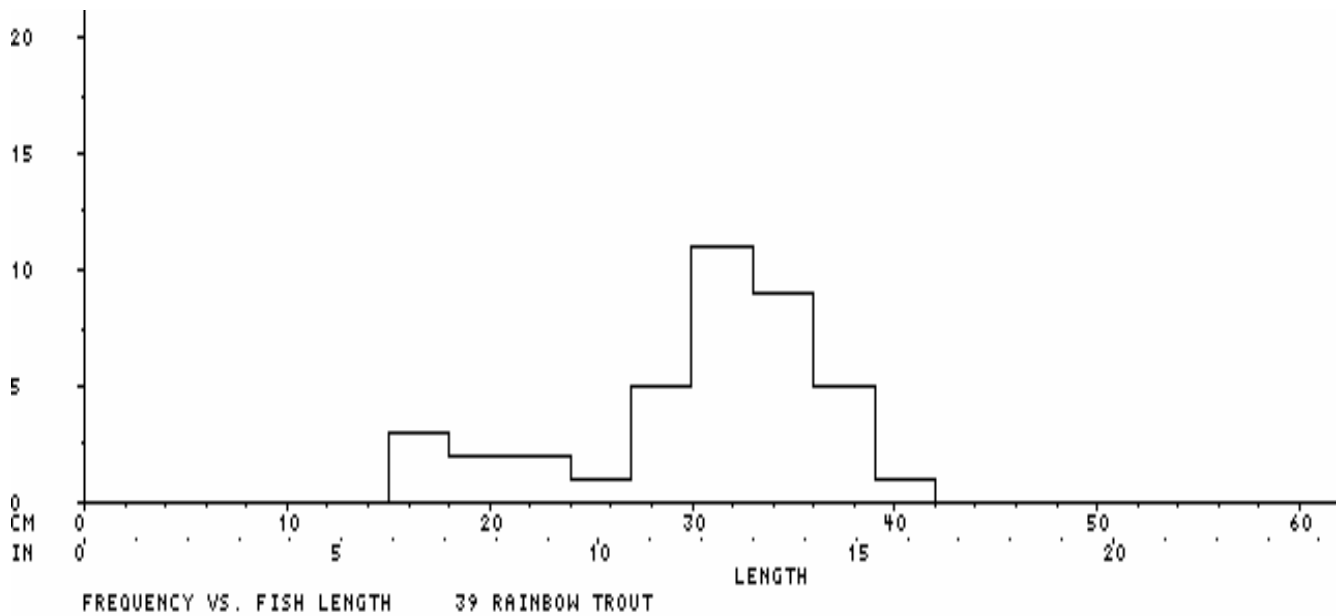


Figure 12. Silver Lake 2000 day creel 4/1 through 10/31. Length-frequency histogram of rainbow trout released by all anglers. Note the difference in scale from Figure 11.

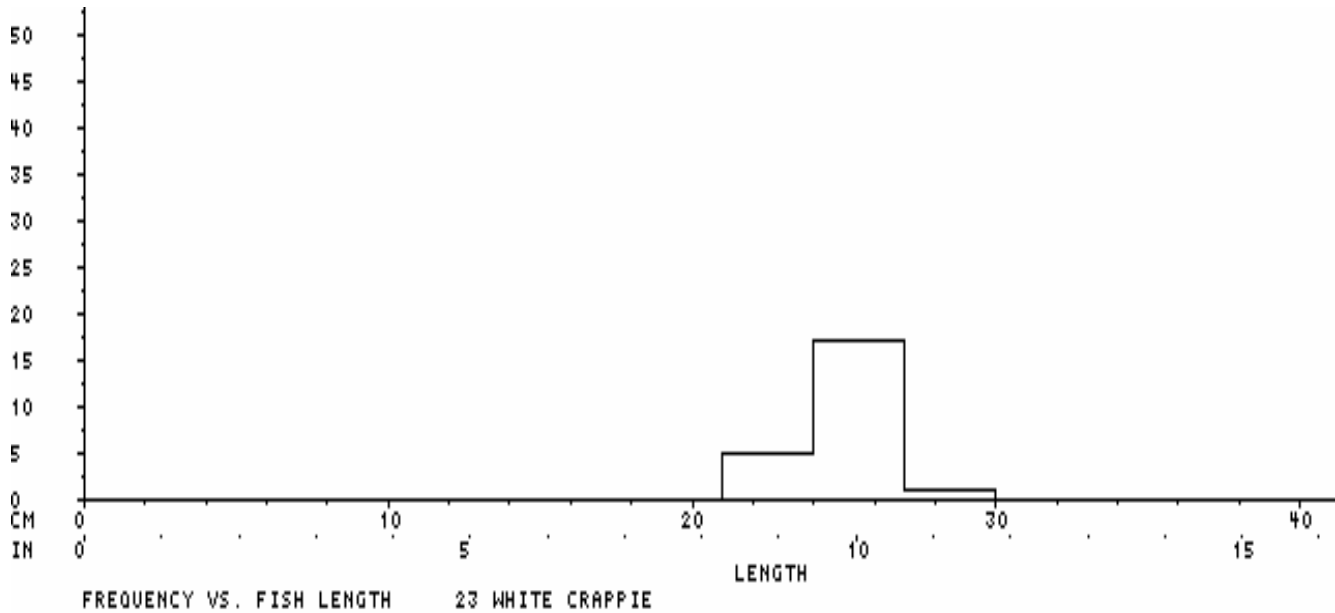


Figure 13. Silver Lake 2000 day creel 4/1 through 10/31. Length-frequency histogram of white crappie harvested by all anglers.

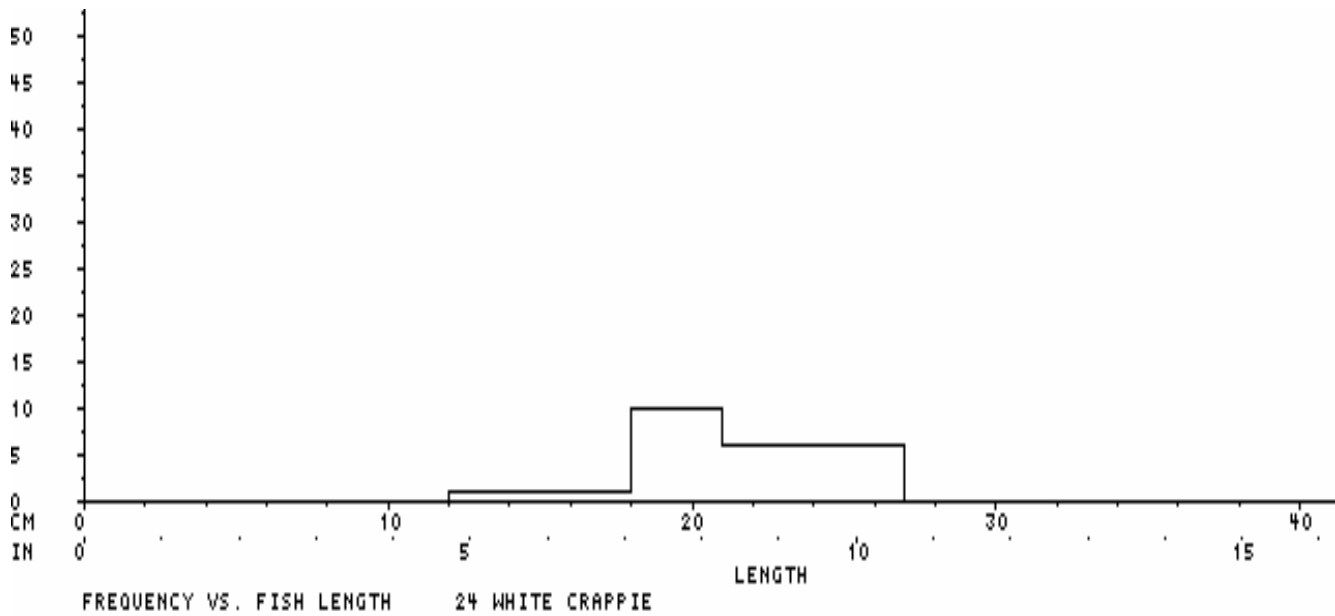


Figure 14. Silver Lake 2000 day creel 4/1 through 10/31. Length-frequency histogram of white crappie released by all anglers.

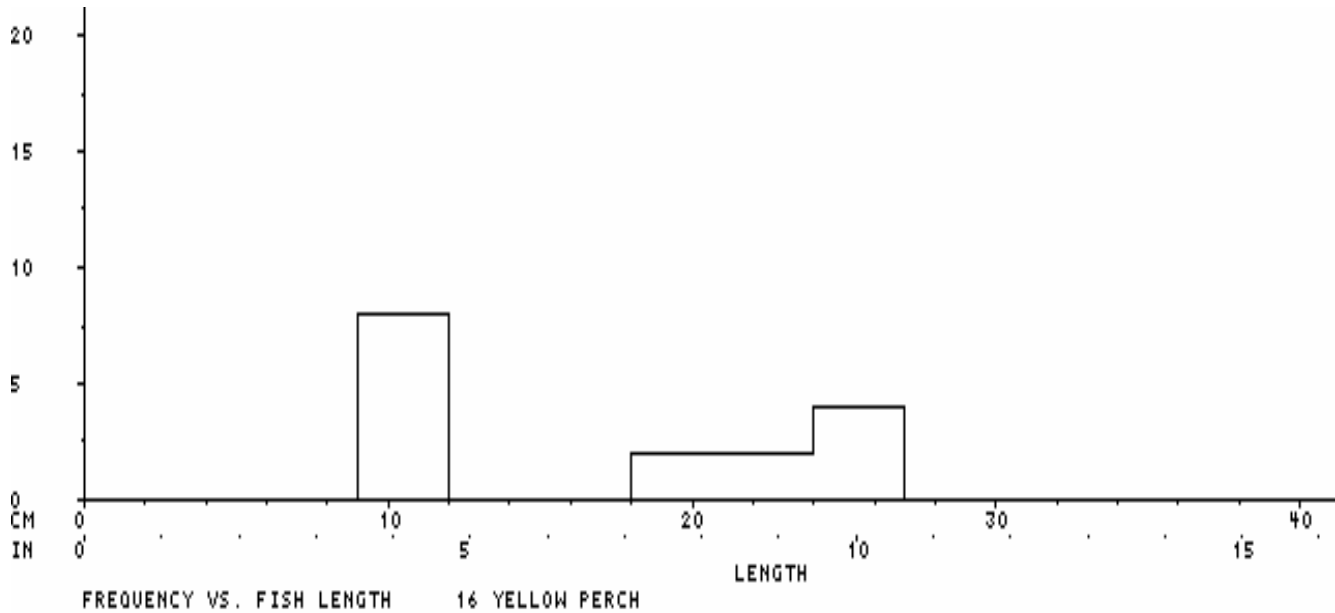


Figure 15. Silver Lake 2000 day creel 4/1 through 10/31. Length-frequency histogram of yellow perch harvested by all anglers.

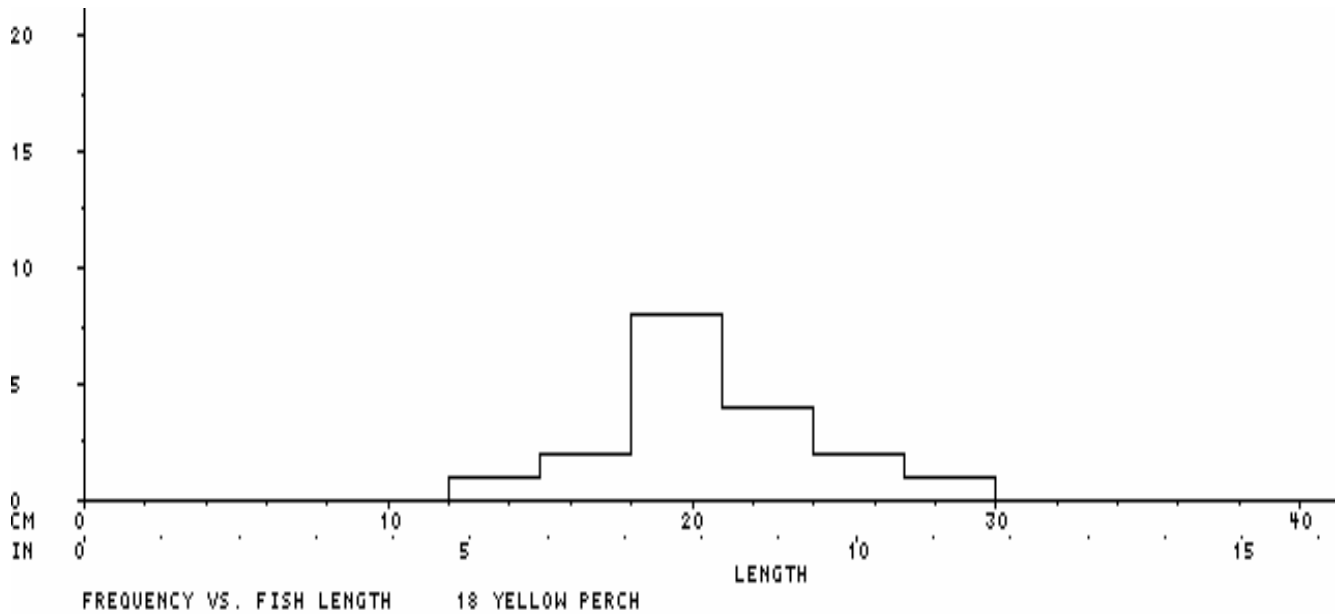


Figure 16. Silver Lake 2000 day creel 4/1 through 10/31. Length-frequency histogram of yellow perch released by all anglers.