

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

2000 CLINTON TAILWATER
 6 ACRES
 REGION 3, DISTRICT 10

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: 283/693 = 40.8%

NUMBER OF INTERVIEWS: 1251

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					
	HOLIDAY	13	0-43 (240%)	2	0-7 (240%)	29%
	TOTAL	13	0-43 (240%)	2	0-7 (240%)	29%
SHORE	WEEKDAY	6469	5619-7318 (13%)	1113	967-1260 (13%)	20%
	HOLIDAY	8418	7686-9150 (9%)	1449	1323-1575 (9%)	43%
	TOTAL	14887	13765-16008 (8%)	2562	2369-2755 (8%)	33%
BOAT & SHORE	WEEKDAY	6469	5619-7318 (13%)	1113	967-1260 (13%)	20%
	HOLIDAY	8430	7698-9163 (9%)	1451	1325-1577 (9%)	43%
	TOTAL	14899	13777-16021 (8%)	2564	2371-2758 (8%)	33%

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

# HARVESTED	95% CI		#/HOUR	95% CI	#/HA	#/ACRE	SPECIES
2391	1884-2898	(21%)	.057	.041-.073 (28%)	1016.94	411.55	All species
23	3-43	(86%)	.001	.000-.001 (103%)	9.73	3.94	Bigmouth buffalo
1	0-4	(245%)	.000	.000-.000 (236%)	0.48	0.19	Black bullhead
4	0-12	(175%)	.000	.000-.000 (221%)	1.78	0.72	Black crappie
330	133-527	(60%)	.008	.001-.015 (84%)	140.31	56.78	Bluegill
123	69-177	(44%)	.002	.001-.004 (52%)	52.37	21.20	Carp
728	521-936	(28%)	.023	.010-.037 (59%)	309.73	125.34	Channel catfish
25	4-46	(84%)	.001	.000-.001 (101%)	10.65	4.31	Flathead catfish
625	443-806	(29%)	.011	.007-.016 (37%)	265.65	107.51	Freshwater drum
9	0-21	(121%)	.000	.000-.000 (120%)	3.97	1.61	Green sunfish
			****	NOT RECORDED ****			Gizzard shad
5	0-13	(149%)	.000	.000-.001 (198%)	2.26	0.91	Largemouth bass
5	0-24	(430%)	.000	.000-.000 (430%)	1.94	0.79	River carpsucker
193	99-288	(49%)	.005	.003-.008 (46%)	82.26	33.29	Striped bass hybrid
			****	NOT RECORDED ****			Shortnose gar
5	0-24	(430%)	.000	.000-.000 (430%)	1.94	0.79	Shorthead redhorse
			****	NOT RECORDED ****			Smallmouth bass
14	0-38	(161%)	.000	.000-.000 (111%)	6.13	2.48	Striped bass
4	0-10	(173%)	.000	.000-.000 (226%)	1.62	0.65	Tiger muskie
6	0-15	(137%)	.000	.000-.000 (171%)	2.75	1.11	Walleye
248	8-489	(97%)	.004	.000-.008 (102%)	105.66	42.76	White bass
31	0-62	(99%)	.000	.000-.001 (92%)	13.27	5.37	White crappie
5	0-13	(157%)	.000	.000-.000 (170%)	2.11	0.85	White sucker
			****	NOT RECORDED ****			Yellow bullhead

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

KG HARVESTED	95% CI		KG/HOUR	95% CI	KG/HA	AVE KG	SPECIES
883	702-1065	(21%)	.023	.017-.030 (28%)	375.65	0.369	All species
67	2-131	(96%)	.001	.000-.003 (134%)	28.38	2.916	Bigmouth buffalo
0	0-0	(245%)	.000	.000-.000 (245%)	0.05	0.107	Black bullhead
1	0-2	(172%)	.000	.000-.000 (219%)	0.37	0.209	Black crappie
28	1-56	(96%)	.001	.000-.002 (124%)	12.11	0.086	Bluegill
51	26-77	(50%)	.001	.000-.002 (65%)	21.87	0.418	Carp
196	139-253	(29%)	.007	.002-.012 (76%)	83.43	0.269	Channel catfish
26	0-53	(103%)	.000	.000-.001 (135%)	11.06	1.038	Flathead catfish
200	128-272	(36%)	.003	.002-.004 (34%)	85.06	0.320	Freshwater drum
1	0-1	(127%)	.000	.000-.000 (123%)	0.26	0.064	Green sunfish
			****	NOT RECORDED ****			Gizzard shad
4	0-12	(203%)	.000	.000-.000 (178%)	1.74	0.769	Largemouth bass
6	0-79	(1271%)	.000	.000-.001 (1271%)	2.45	1.260	River carpsucker
227	136-319	(40%)	.008	.004-.012 (50%)	96.71	1.176	Striped bass hybrid
			****	NOT RECORDED ****			Shortnose gar
2	0-13	(430%)	.000	.000-.000 (430%)	1.01	0.521	Shorthead redhorse
			****	NOT RECORDED ****			Smallmouth bass
5	0-15	(182%)	.000	.000-.000 (131%)	2.28	0.372	Striped bass
17	0-47	(179%)	.000	.000-.001 (235%)	7.22	4.466	Tiger muskie
2	0-6	(159%)	.000	.000-.000 (232%)	1.05	0.381	Walleye
41	5-77	(87%)	.001	.000-.001 (94%)	17.43	0.165	White bass
4	0-8	(98%)	.000	.000-.000 (124%)	1.80	0.136	White crappie
3	0-9	(187%)	.000	.000-.000 (207%)	1.37	0.652	White sucker
			****	NOT RECORDED ****			Yellow bullhead

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

LB HARVESTED	95% CI		LB/HOUR	95% CI	LB/ACRE	AVE LB	SPECIES
1947	1547-2347	(21%)	.051	.037-.066 (28%)	335.15	0.814	All species
147	5-289	(96%)	.003	.000-.006 (134%)	25.32	6.429	Bigmouth buffalo
0	0-1	(236%)	.000	.000-.000 (245%)	0.05	0.235	Black bullhead
2	0-5	(172%)	.000	.000-.000 (219%)	0.33	0.460	Black crappie
63	3-123	(96%)	.002	.000-.004 (124%)	10.80	0.190	Bluegill
113	57-170	(50%)	.002	.001-.004 (65%)	19.52	0.921	Carp
432	307-558	(29%)	.015	.004-.027 (76%)	74.44	0.594	Channel catfish
57	0-116	(103%)	.001	.000-.002 (135%)	9.87	2.289	Flathead catfish
441	283-599	(36%)	.007	.005-.009 (34%)	75.89	0.706	Freshwater drum
1	0-3	(127%)	.000	.000-.000 (123%)	0.23	0.142	Green sunfish
			****	NOT RECORDED ****			Gizzard shad
9	0-27	(203%)	.000	.000-.001 (178%)	1.55	1.696	Largemouth bass
13	0-67	(430%)	.000	.000-.002 (1271%)	2.18	2.779	River carpsucker
501	299-703	(40%)	.018	.009-.027 (50%)	86.29	2.592	Striped bass hybrid
			****	NOT RECORDED ****			Shortnose gar
5	0-72	(1271%)	.000	.000-.000 (430%)	0.90	1.148	Shorthead redhorse
			****	NOT RECORDED ****			Smallmouth bass
12	0-33	(182%)	.000	.000-.000 (131%)	2.03	0.820	Striped bass
37	0-104	(179%)	.001	.000-.003 (235%)	6.44	9.847	Tiger muskie
5	0-14	(159%)	.000	.000-.000 (232%)	0.93	0.839	Walleye
90	12-169	(87%)	.002	.000-.003 (94%)	15.55	0.364	White bass
9	0-19	(98%)	.000	.000-.000 (124%)	1.61	0.300	White crappie
7	0-20	(187%)	.000	.000-.000 (207%)	1.22	1.437	White sucker
			****	NOT RECORDED ****			Yellow bullhead

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
10170	8674-11665 (15%)	.309	.254-.363 (18%)	4325.161	750.37	All species
178	114-241 (36%)	.009	.002-.015 (72%)	75.62	30.60	Bigmouth buffalo
28	0-65 (134%)	.001	.000-.002 (131%)	11.78	4.77	Black bullhead
430	67-793 (84%)	.032	.001-.062 (97%)	182.77	73.97	Black crappie
2314	1615-3013 (30%)	.058	.042-.074 (28%)	984.28	398.33	Bluegill
397	288-506 (27%)	.012	.007-.018 (46%)	168.84	68.33	Carp
2387	1834-2940 (23%)	.076	.049-.104 (36%)	1015.21	410.85	Channel catfish
31	8-54 (73%)	.001	.000-.002 (98%)	13.37	5.41	Flathead catfish
2452	1948-2955 (21%)	.060	.046-.073 (22%)	1042.68	421.97	Freshwater drum
44	0-98 (125%)	.003	.000-.008 (202%)	18.51	7.49	Green sunfish
1	0-4 (245%)	.000	.000-.000 (236%)	0.48	0.19	Gizzard shad
149	85-212 (43%)	.005	.002-.008 (68%)	63.23	25.59	Largemouth bass
9	0-25 (175%)	.001	.000-.002 (233%)	3.93	1.59	River carpsucker
452	261-643 (42%)	.014	.008-.020 (44%)	192.16	77.77	Striped bass hybrid
173	92-253 (47%)	.007	.002-.011 (69%)	73.51	29.75	Shortnose gar
5	0-24 (430%)	.000	.000-.000 (430%)	1.94	0.79	Shorthead redhorse
11	0-49 (351%)	.000	.000-.000 (341%)	4.57	1.85	Smallmouth bass
91	15-168 (84%)	.003	.000-.008 (165%)	38.78	15.69	Striped bass
40	2-78 (95%)	.002	.000-.004 (93%)	17.13	6.93	Tiger muskie
18	3-33 (82%)	.000	.000-.001 (83%)	7.71	3.12	Walleye
662	197-1126 (70%)	.016	.002-.031 (87%)	281.35	113.86	White bass
250	91-408 (64%)	.008	.000-.019 (137%)	106.12	42.95	White crappie
11	0-22 (99%)	.000	.000-.001 (137%)	4.63	1.87	White sucker
27	0-74 (177%)	.000	.000-.001 (147%)	11.42	4.62	Yellow bullhead

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

KG CAUGHT	95% CI		KG/HOUR	95% CI	KG/HA	AVE KG	SPECIES
2462	2124-2801	(14%)	.087	.069-.104 (20%)	1047.30	0.242	All species
395	256-535	(35%)	.017	.007-.027 (57%)	168.19	2.224	Bigmouth buffalo
2	0-5	(172%)	.000	.000-.000 (162%)	0.84	0.072	Black bullhead
36	3-68	(92%)	.002	.000-.005 (133%)	15.14	0.083	Black crappie
112	78-147	(31%)	.003	.002-.004 (41%)	47.71	0.048	Bluegill
170	118-222	(31%)	.005	.003-.008 (44%)	72.35	0.428	Carp
334	257-412	(23%)	.011	.006-.016 (49%)	142.22	0.140	Channel catfish
27	0-54	(100%)	.001	.000-.001 (117%)	11.41	0.854	Flathead catfish
536	407-665	(24%)	.012	.009-.016 (28%)	228.08	0.219	Freshwater drum
2	0-3	(114%)	.000	.000-.000 (195%)	0.68	0.037	Green sunfish
0	0-0	(245%)	.000	.000-.000 (236%)	0.04	0.084	Gizzard shad
57	16-98	(73%)	.002	.000-.005 (136%)	24.21	0.383	Largemouth bass
21	0-59	(186%)	.002	.000-.008 (251%)	8.73	2.223	River carpsucker
397	252-542	(36%)	.017	.008-.025 (51%)	168.84	0.879	Striped bass hybrid
61	28-93	(54%)	.003	.000-.005 (96%)	25.77	0.351	Shortnose gar
2	0-13	(430%)	.000	.000-.000 (430%)	1.01	0.521	Shorthead redhorse
3	0-9	(236%)	.000	.000-.000 (231%)	1.14	0.249	Smallmouth bass
56	0-111	(100%)	.002	.000-.007 (182%)	23.61	0.609	Striped bass
107	3-210	(97%)	.005	.000-.012 (135%)	45.43	2.653	Tiger muskie
6	0-11	(92%)	.000	.000-.000 (97%)	2.42	0.314	Walleye
116	25-208	(78%)	.003	.001-.004 (76%)	49.52	0.176	White bass
16	7-24	(54%)	.000	.000-.001 (109%)	6.63	0.062	White crappie
4	0-10	(146%)	.000	.000-.000 (124%)	1.76	0.380	White sucker
4	0-11	(196%)	.000	.000-.000 (155%)	1.57	0.137	Yellow bullhead

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

LB CAUGHT	95% CI		LB/HOUR	95% CI	LB/ACRE	AVE LB	SPECIES
5429	4682-6175	(14%)	.191	.152-.230 (20%)	934.40	0.534	All species
872	564-1180	(35%)	.039	.016-.061 (57%)	150.06	4.903	Bigmouth buffalo
4	0-12	(172%)	.000	.000-.000 (162%)	0.75	0.158	Black bullhead
78	6-151	(92%)	.005	.000-.011 (133%)	13.51	0.183	Black crappie
247	171-324	(31%)	.007	.004-.009 (41%)	42.57	0.107	Bluegill
375	260-490	(31%)	.012	.007-.017 (44%)	64.55	0.945	Carp
737	567-907	(23%)	.024	.012-.036 (49%)	126.89	0.309	Channel catfish
59	0-118	(100%)	.001	.000-.002 (117%)	10.18	1.882	Flathead catfish
1182	898-1466	(24%)	.027	.019-.034 (28%)	203.50	0.482	Freshwater drum
4	0-8	(114%)	.000	.000-.001 (195%)	0.61	0.081	Green sunfish
0	0-1	(245%)	.000	.000-.000 (236%)	0.04	0.186	Gizzard shad
125	34-217	(73%)	.005	.000-.012 (136%)	21.60	0.844	Largemouth bass
45	0-129	(186%)	.005	.000-.018 (251%)	7.79	4.901	River carpsucker
875	556-1195	(36%)	.037	.018-.056 (51%)	150.64	1.937	Striped bass hybrid
134	61-206	(54%)	.006	.000-.012 (96%)	22.99	0.773	Shortnose gar
5	0-72	(1271%)	.000	.000-.000 (430%)	0.90	1.148	Shorthead redhorse
6	0-20	(236%)	.000	.000-.000 (231%)	1.02	0.550	Smallmouth bass
122	1-244	(100%)	.005	.000-.014 (182%)	21.06	1.342	Striped bass
236	7-464	(97%)	.011	.000-.026 (135%)	40.53	5.849	Tiger muskie
13	1-24	(92%)	.000	.000-.000 (97%)	2.16	0.693	Walleye
257	56-458	(78%)	.006	.001-.010 (76%)	44.18	0.388	White bass
34	16-53	(54%)	.001	.000-.002 (109%)	5.92	0.138	White crappie
9	0-22	(146%)	.000	.000-.001 (124%)	1.57	0.838	White sucker
8	0-24	(196%)	.000	.000-.000 (155%)	1.40	0.302	Yellow bullhead

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

	MEAN	95% CI	MIN	MAX	#SAMPLES
HOURS PER COMPLETED TRIP*					
BOAT	2.7 ***	undefined ***	2.7	2.7	1
SHORE	2.4	2.3-2.5 (5%)	0.2	10.0	719
BOAT & SHORE	2.4	2.3-2.5 (5%)	0.2	10.0	720
MILES TRAVELED	28.2	27.0-29.5 (4%)	2	180	982
SUCCESS RATING (1-10)	2.7	2.5-2.8 (5%)	1	10	975

*194 samples were from split interviews of completed trips.
69.6% of all 1035 interviews were completed trips.

ILLEGAL HARVEST: Clerk noted 6 out of 1035 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	2									
SHORE INTERVIEWS	347	394	180	84	16	6	4		2	

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

588 (56.8%)	ANY	All species
8 (0.8%)	BLC	Black crappie
12 (1.2%)	BLG	Bluegill
4 (0.4%)	CAP	Carp
8 (0.8%)	CAT	Unidentified catfish
152 (14.7%)	CCF	Channel catfish
4 (0.4%)	CRP	Crappie spp.
1 (0.1%)	FRD	Freshwater drum
23 (2.2%)	LMB	Largemouth bass
139 (13.4%)	SBH	Striped bass hybrid (Wiper)
2 (0.2%)	SMB	Smallmouth bass
33 (3.2%)	STB	Striped bass
11 (1.1%)	TGM	Tiger muskie
41 (4.0%)	WAE	Walleye
5 (0.5%)	WHB	White bass
4 (0.4%)	WHC	White crappie

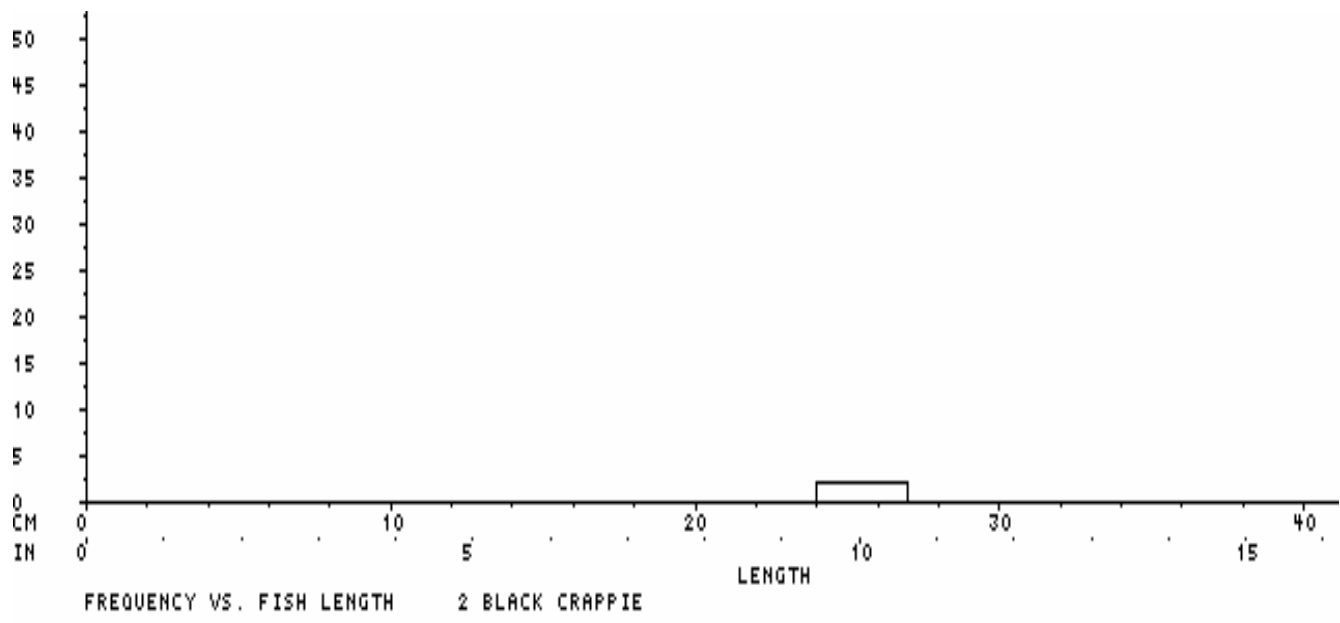


Figure 1. Clinton Lake Tailwater 2000 day creel 3/15 through 10/31. Length-frequency histogram of black crappie harvested by all anglers.

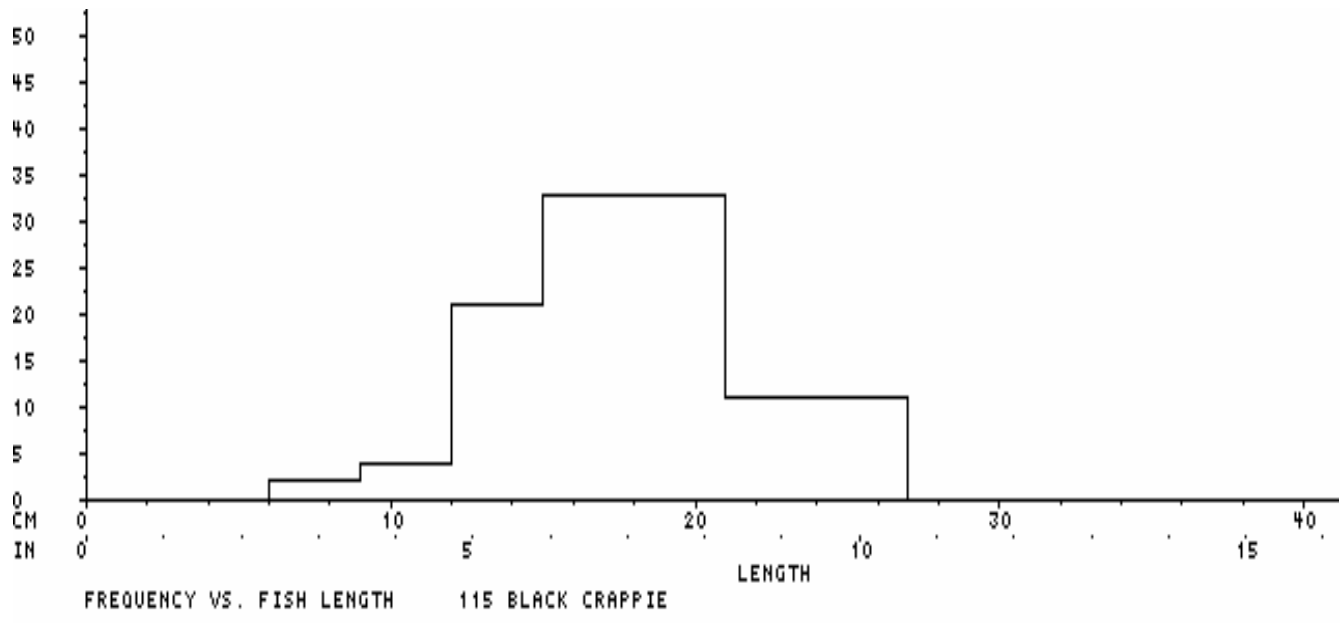


Figure 2. Clinton Lake Tailwater 2000 day creel 3/15 through 10/31. Length-frequency histogram of black crappie released by all anglers.

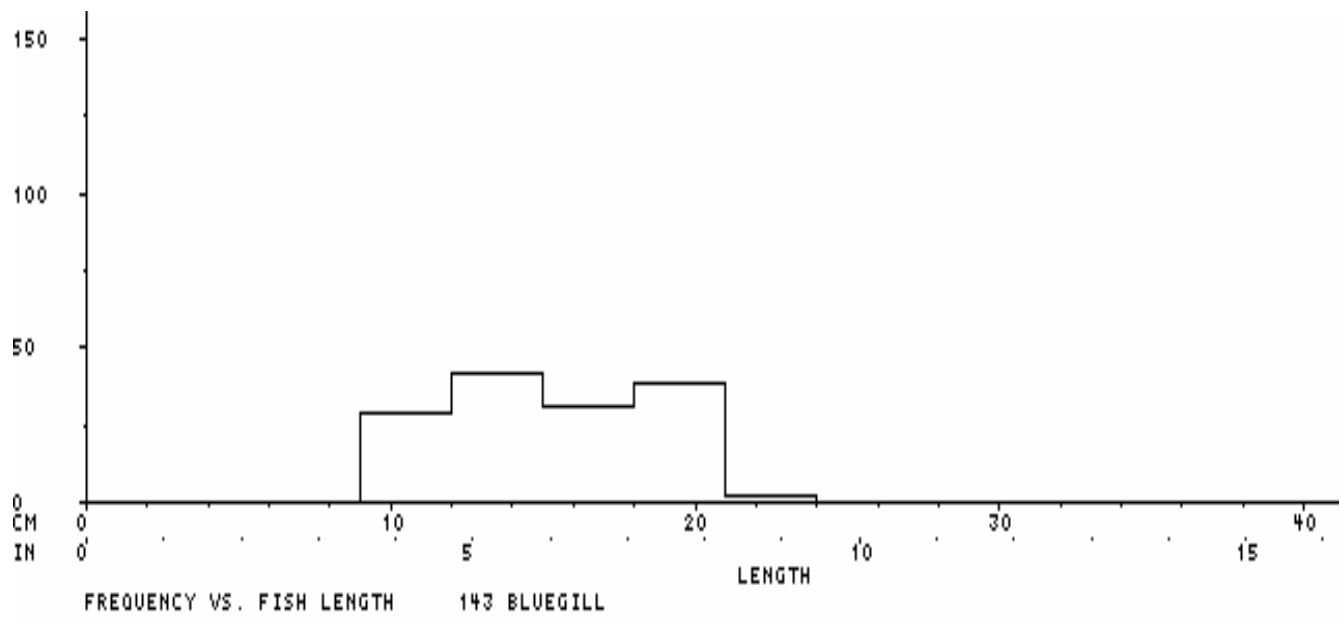


Figure 3. Clinton Lake Tailwater 2000 day creel 3/15 through 10/31. Length-frequency histogram of bluegill harvested by all anglers.

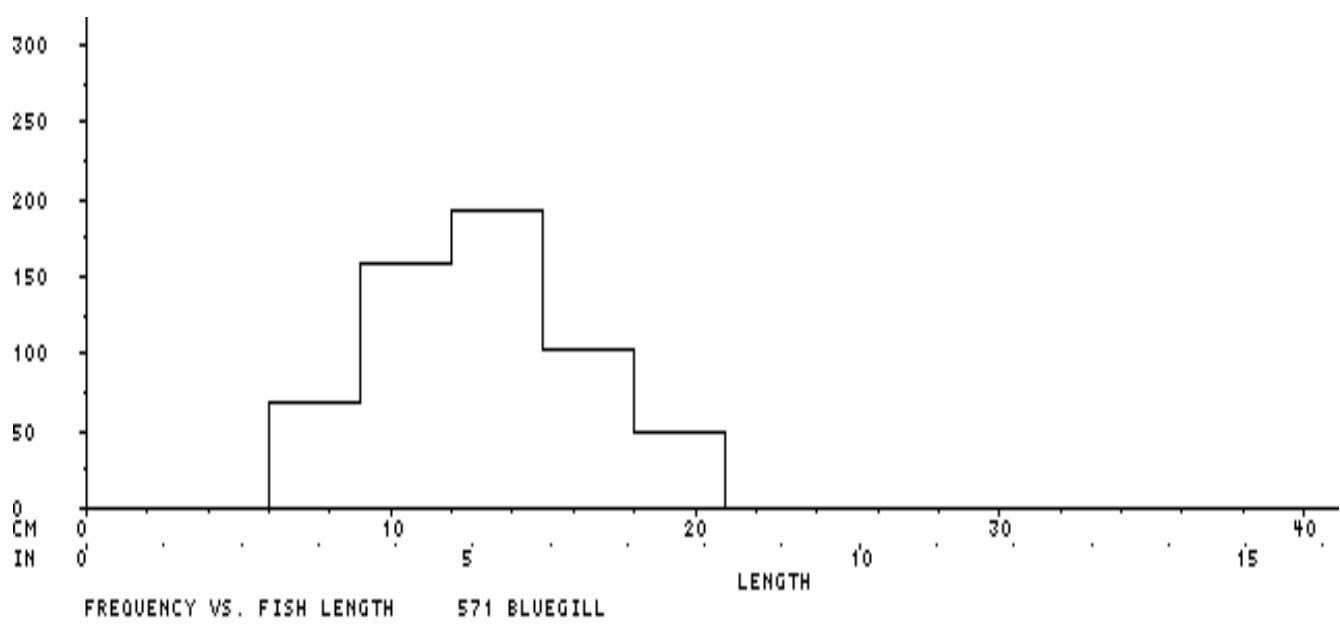


Figure 4. Clinton Lake Tailwater 2000 day creel 3/15 through 10/31. Length-frequency histogram of bluegill released by all anglers.

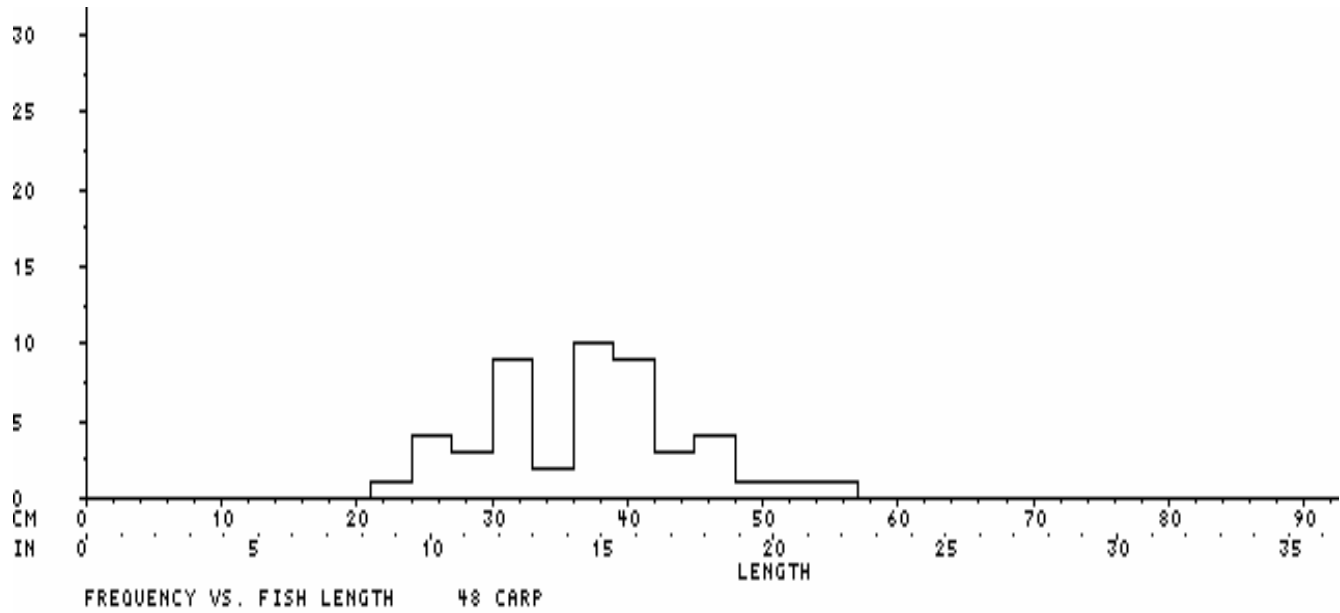


Figure 5. Clinton Lake Tailwater 2000 day creel 3/15 through 10/31. Length-frequency histogram of carp harvested by all anglers.

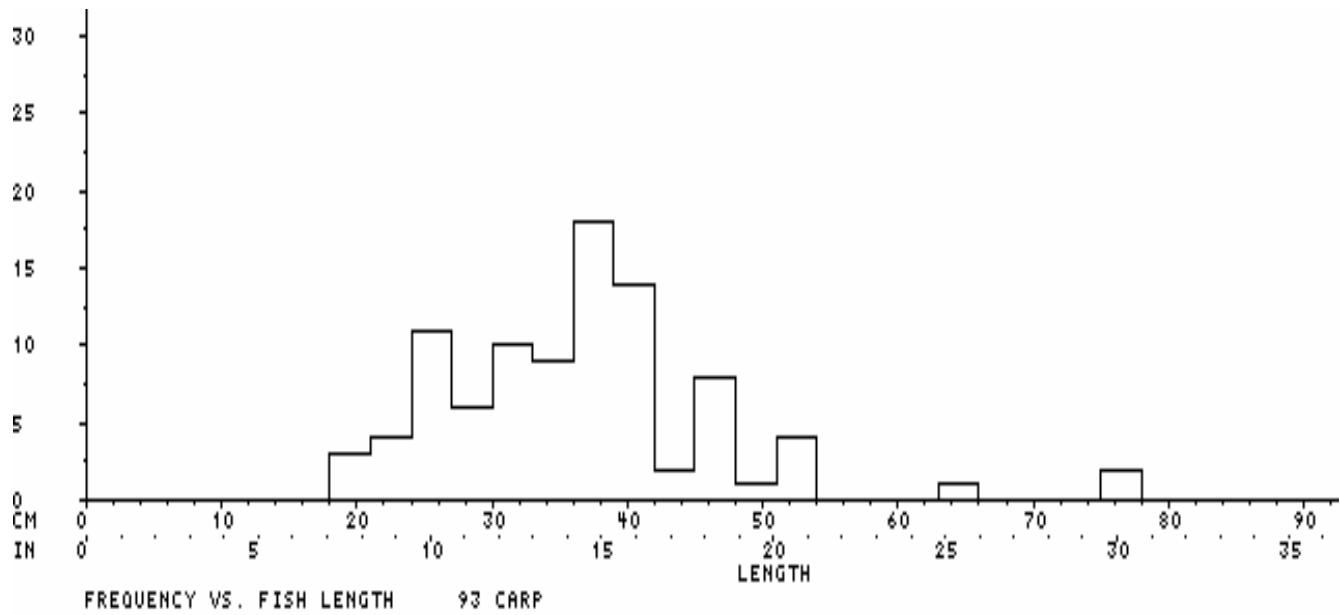


Figure 6. Clinton Lake Tailwater 2000 day creel 3/15 through 10/31. Length-frequency histogram of carp released by all anglers.

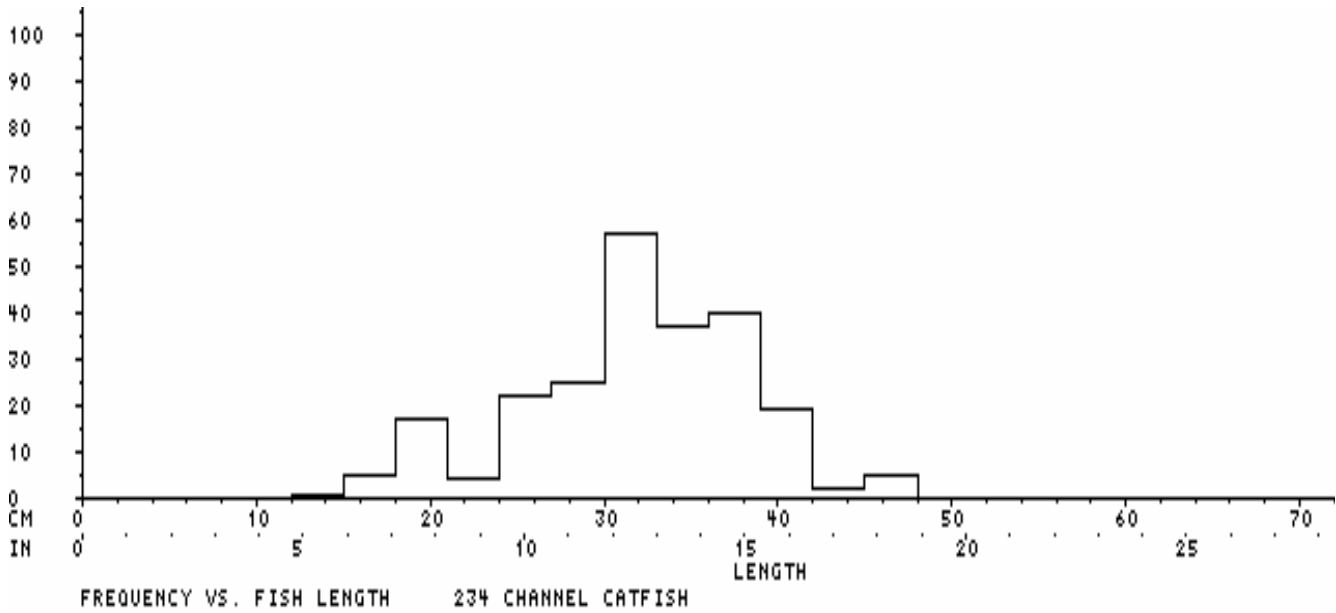


Figure 7. Clinton Lake Tailwater 2000 day creel 3/15 through 10/31. Length-frequency histogram of channel catfish harvested by all anglers.

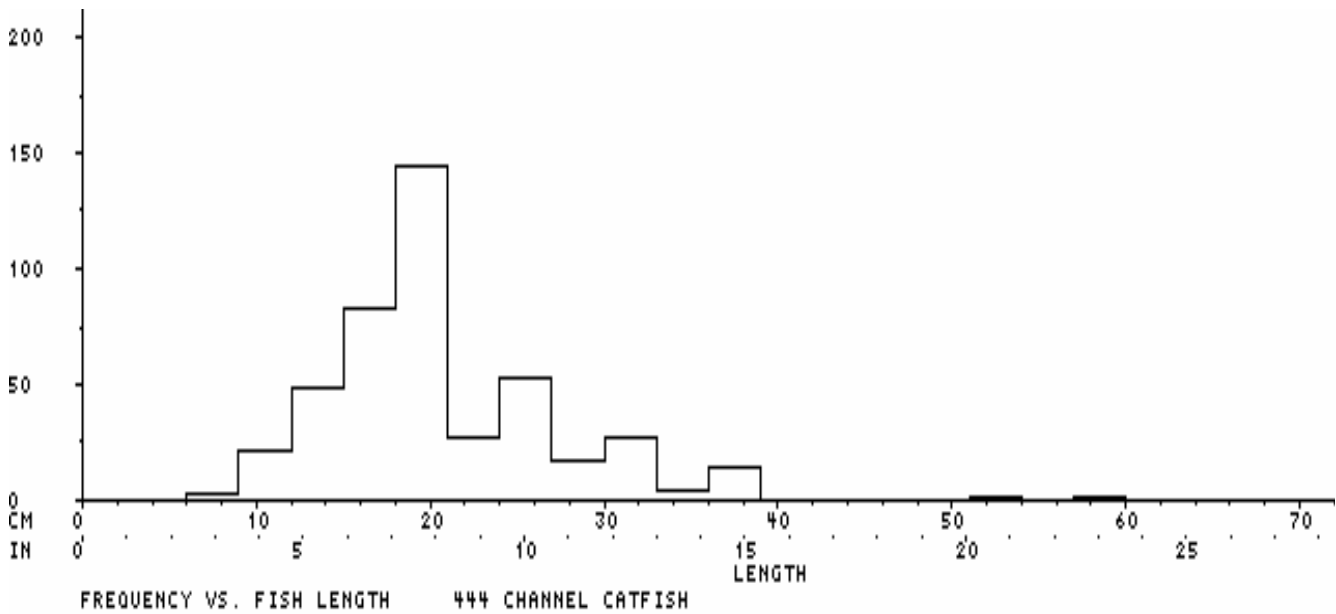


Figure 8. Clinton Lake Tailwater 2000 day creel 3/15 through 10/31. Length-frequency histogram of channel catfish released by all anglers. Note the difference in scale from Figure 7.

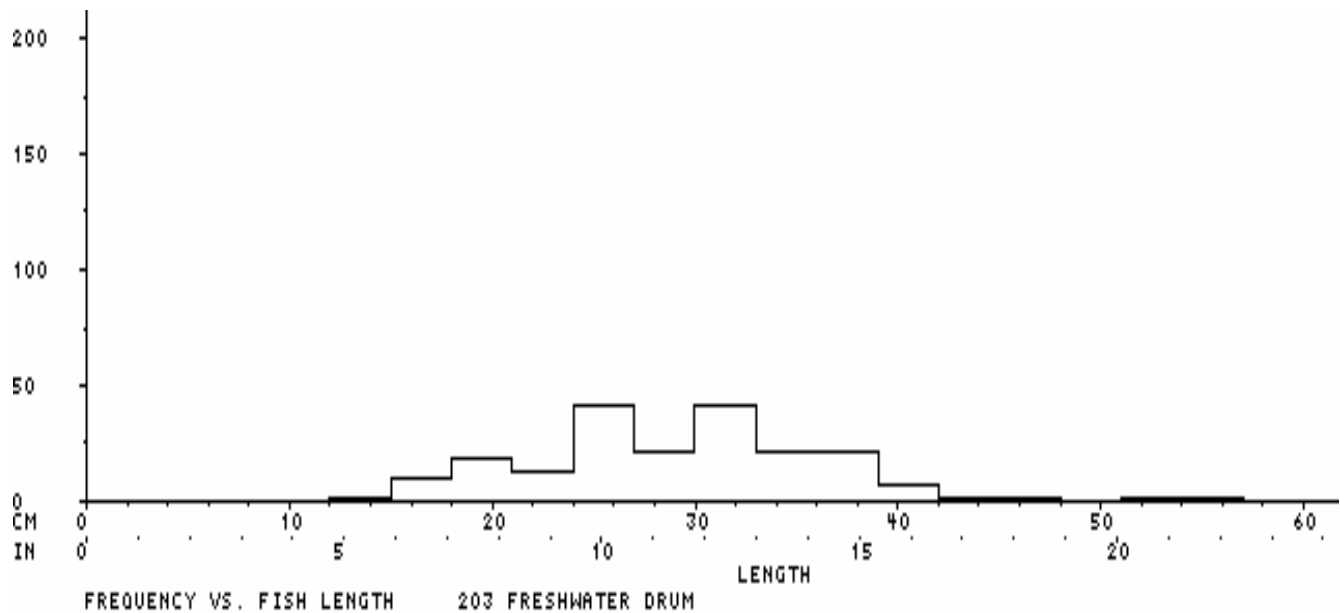


Figure 9. Clinton Lake Tailwater 2000 day creel 3/15 through 10/31. Length-frequency histogram of freshwater drum harvested by all anglers.

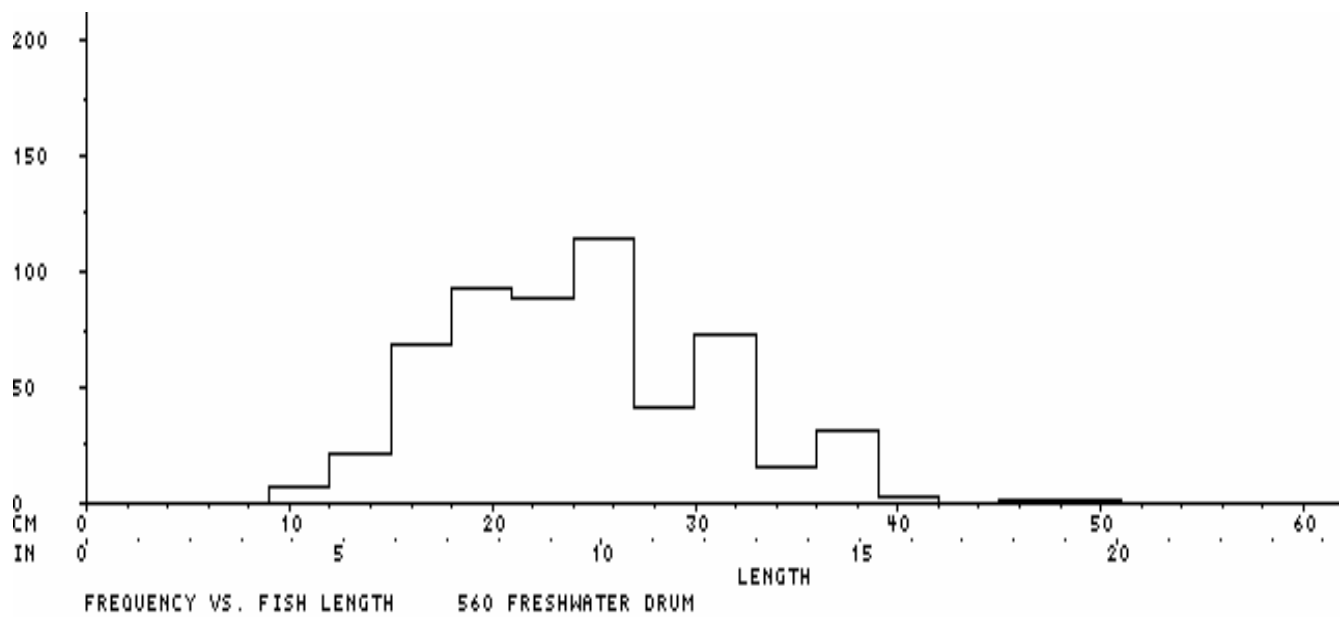


Figure 10. Clinton Lake Tailwater 2000 day creel 3/15 through 10/31. Length-frequency histogram of freshwater drum released by all anglers.

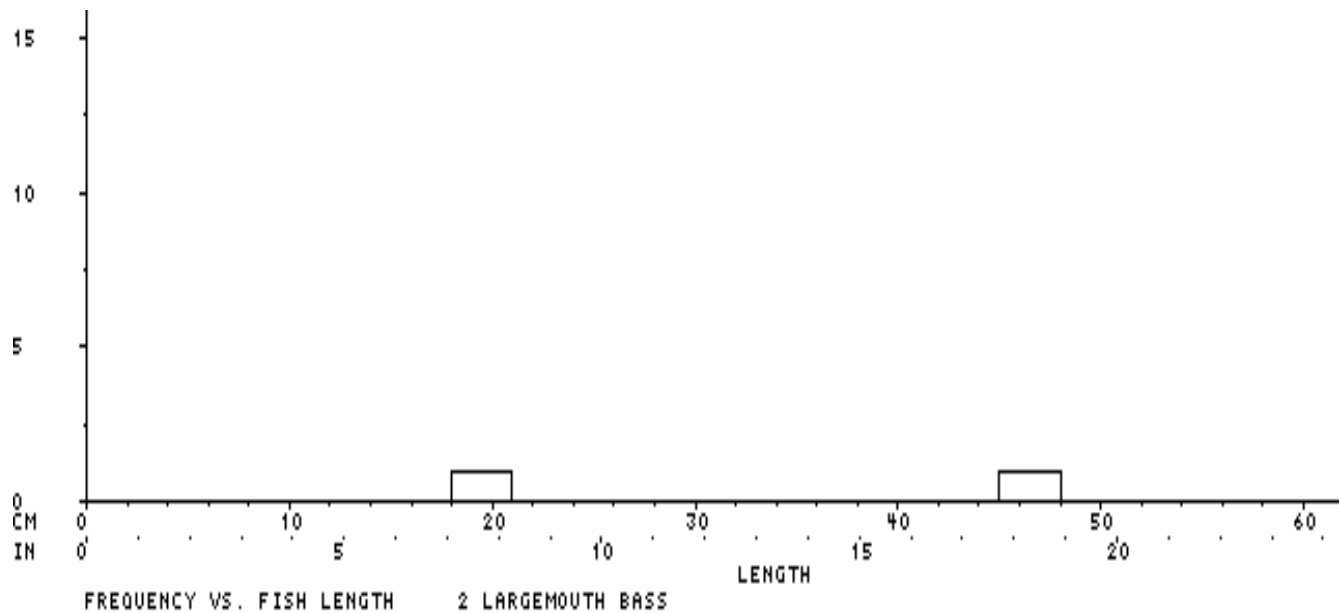


Figure 11. Clinton Lake Tailwater 2000 day creel 3/15 through 10/31. Length-frequency histogram of largemouth bass harvested by all anglers.

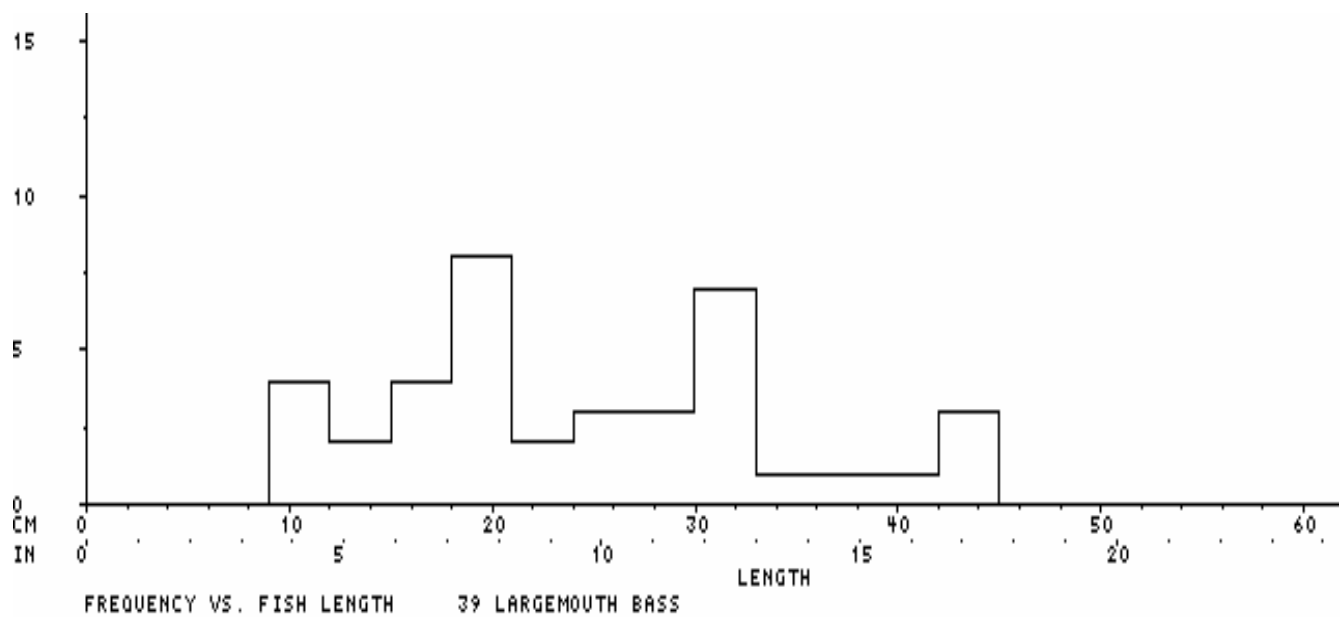


Figure 12. Clinton Lake Tailwater 2000 day creel 3/15 through 10/31. Length-frequency histogram of largemouth bass released by all anglers.

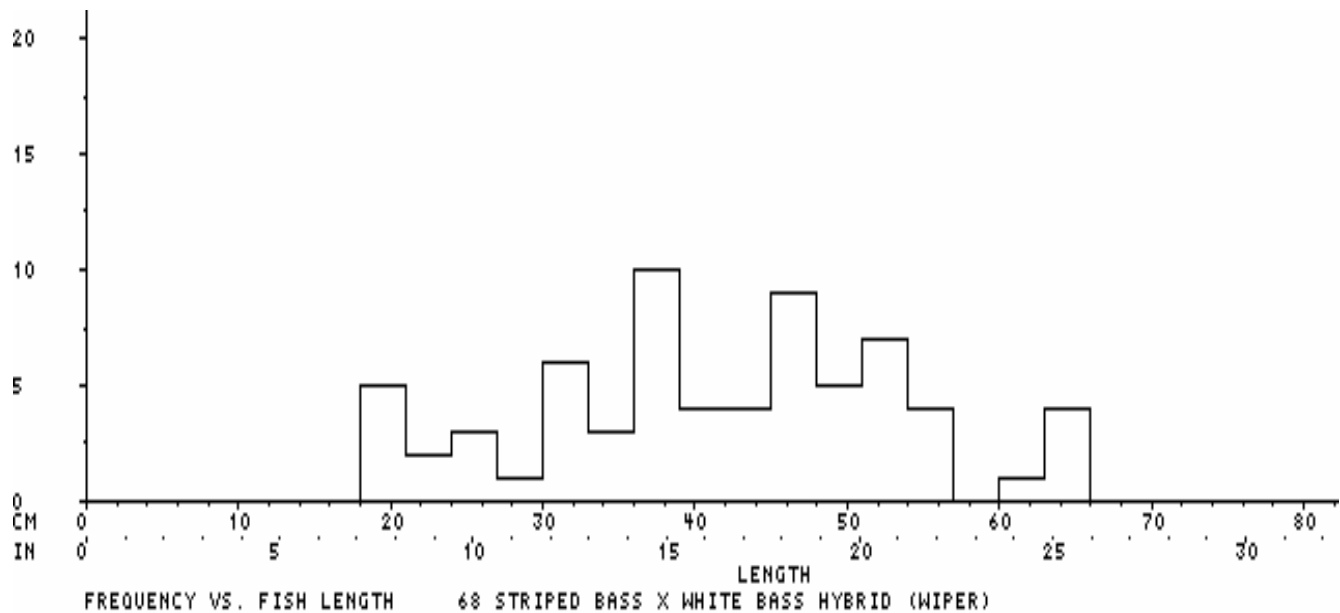


Figure 13. Clinton Lake Tailwater 2000 day creel 3/15 through 10/31. Length-frequency histogram of striped bass hybrid harvested by all anglers.

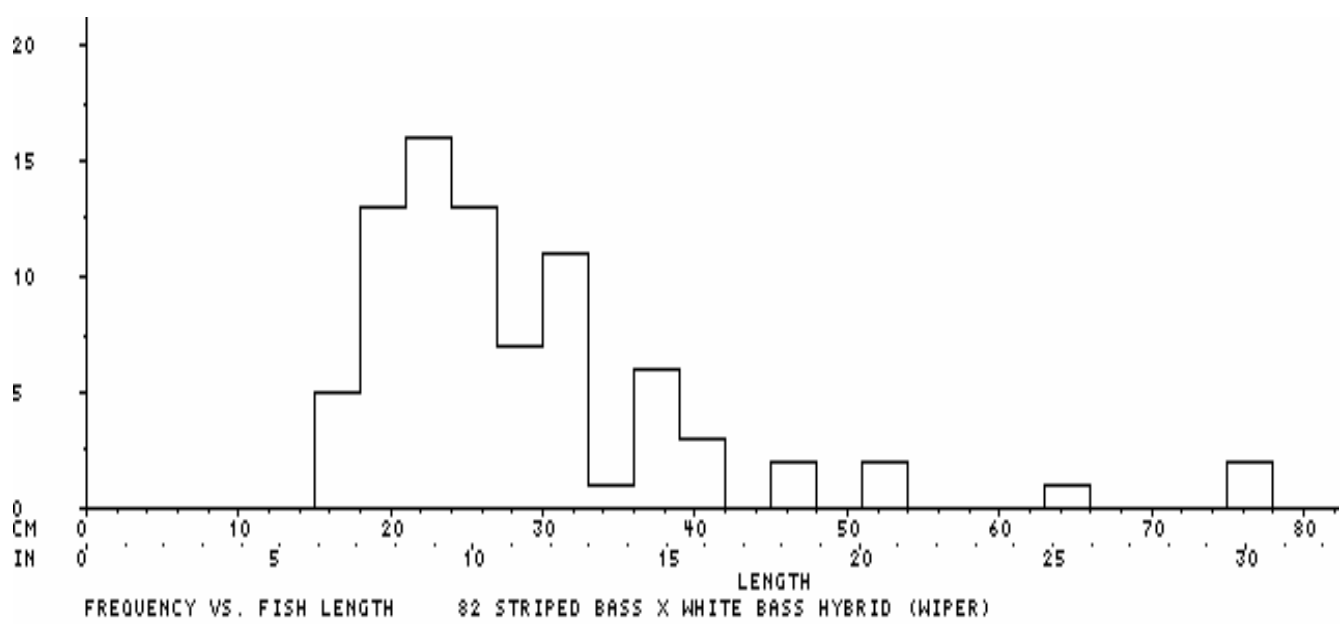


Figure 14. Clinton Lake Tailwater 2000 day creel 3/15 through 10/31. Length-frequency histogram of striped bass hybrid released by all anglers.

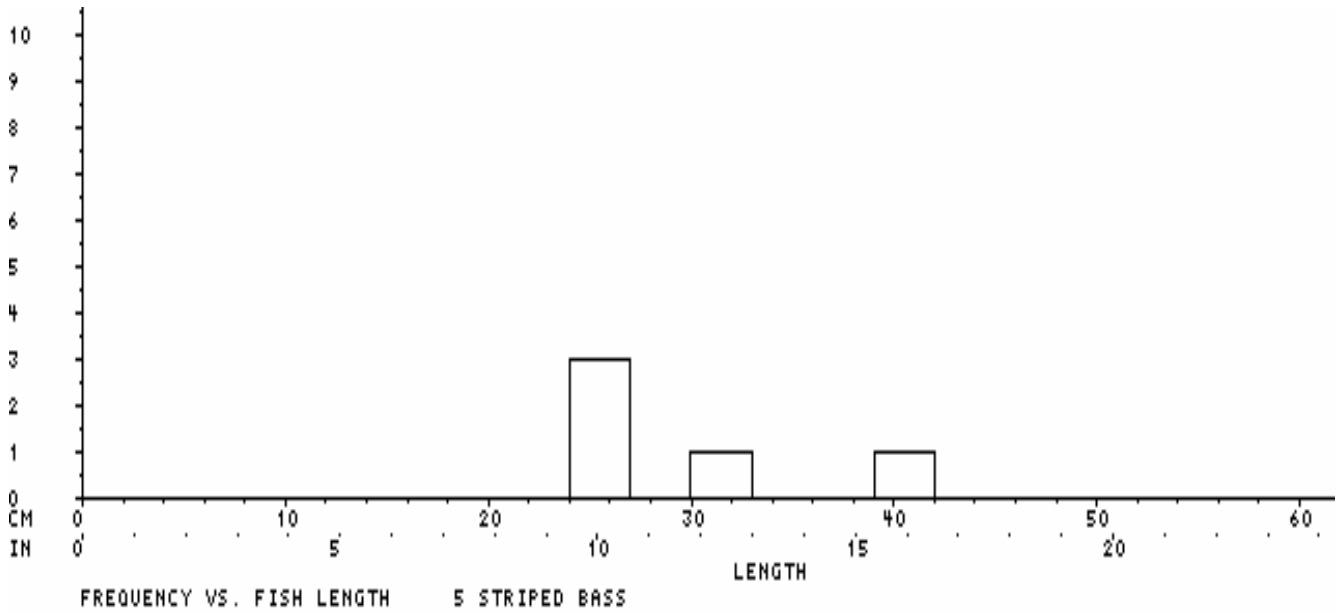


Figure 15. Clinton Lake Tailwater 2000 day creel 3/15 through 10/31. Length-frequency histogram of striped bass harvested by all anglers.

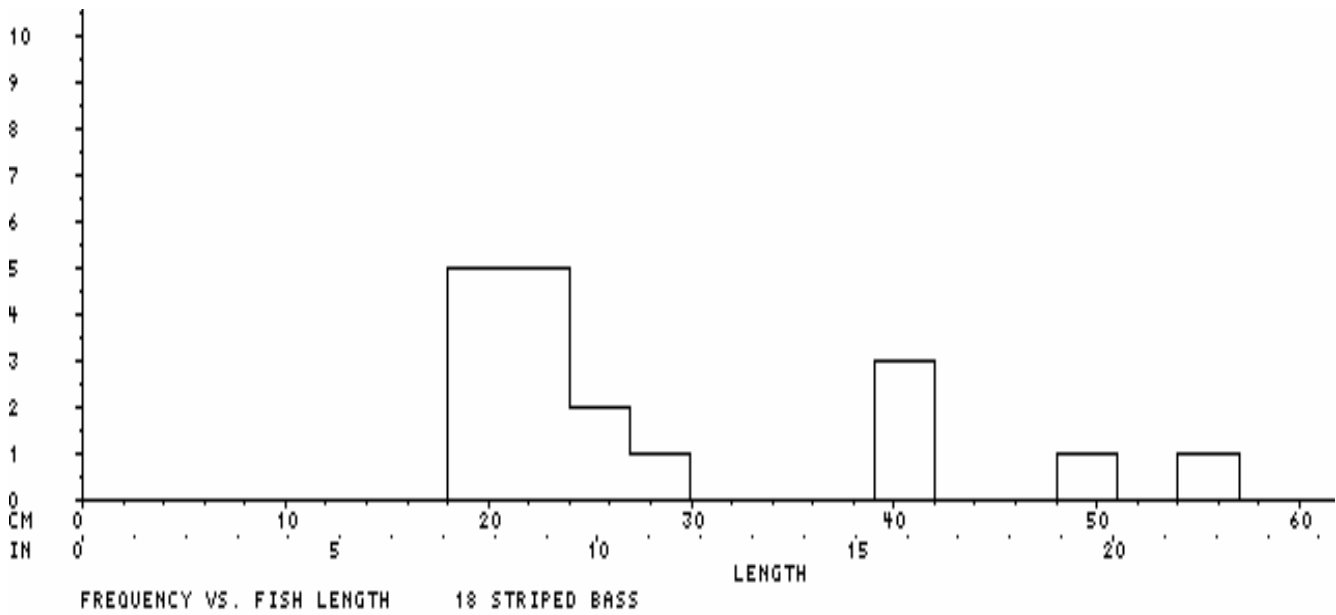


Figure 16. Clinton Lake Tailwater 2000 day creel 3/15 through 10/31. Length-frequency histogram of striped bass released by all anglers.

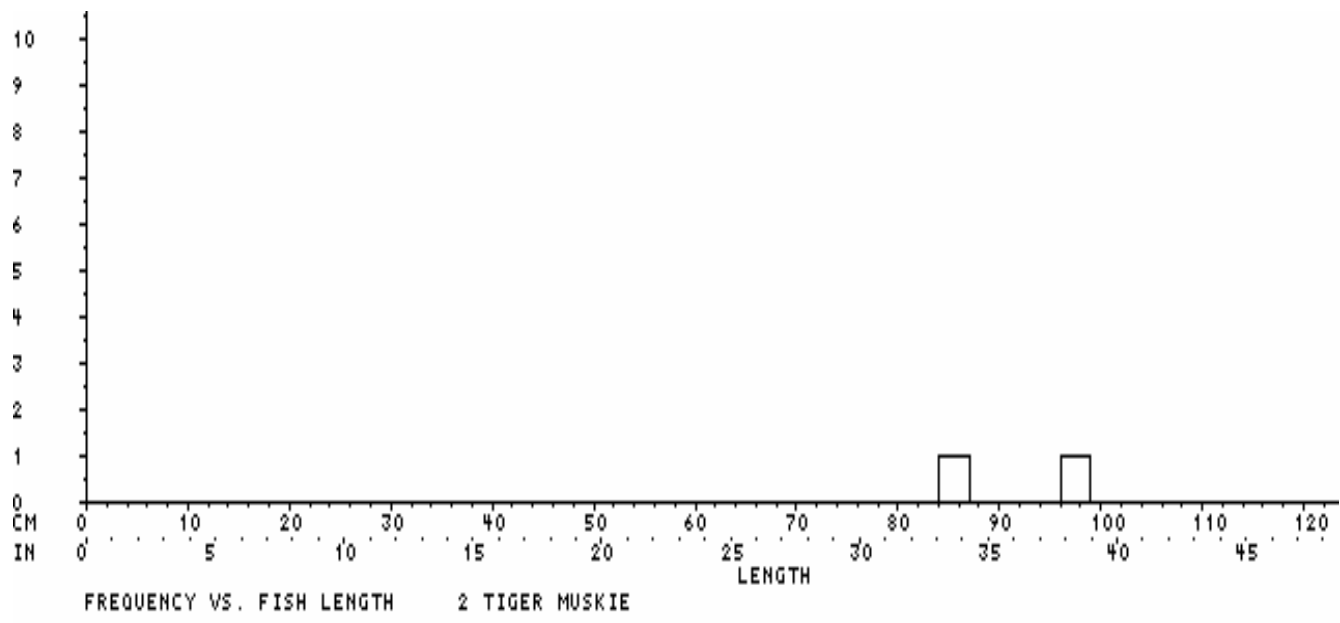


Figure 17. Clinton Lake Tailwater 2000 day creel 3/15 through 10/31. Length-frequency histogram of tiger muskie harvested by all anglers.

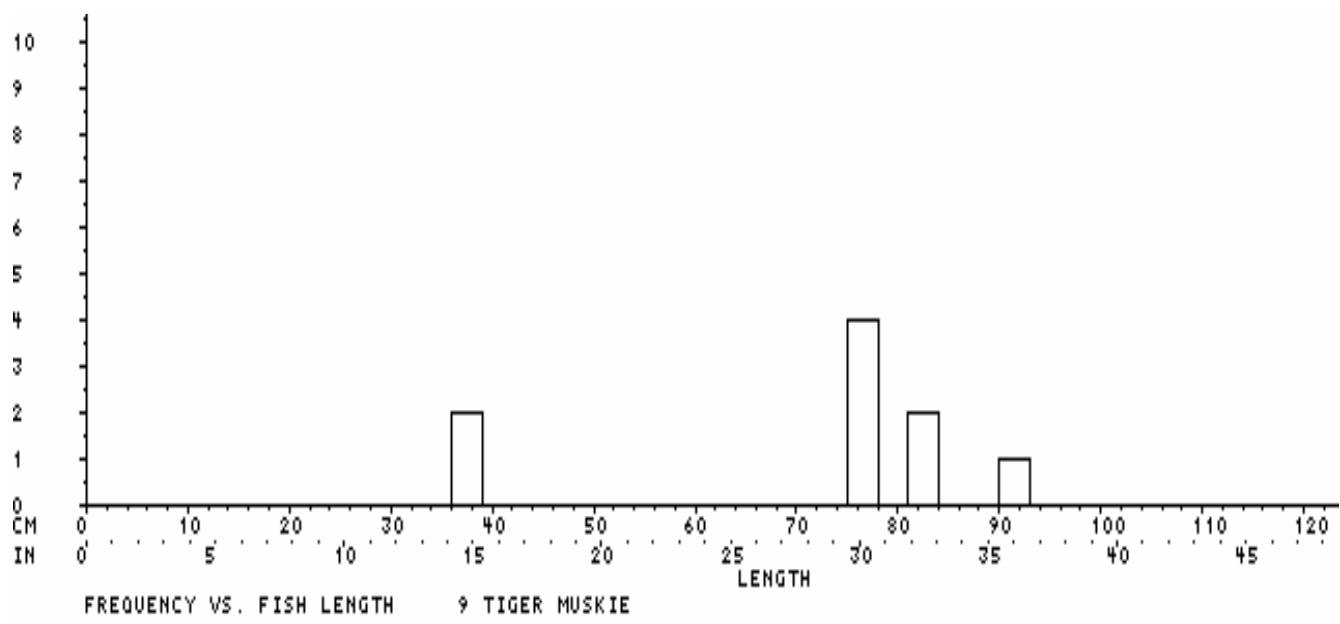


Figure 18. Clinton Lake Tailwater 2000 day creel 3/15 through 10/31. Length-frequency histogram of tiger muskie released by all anglers.

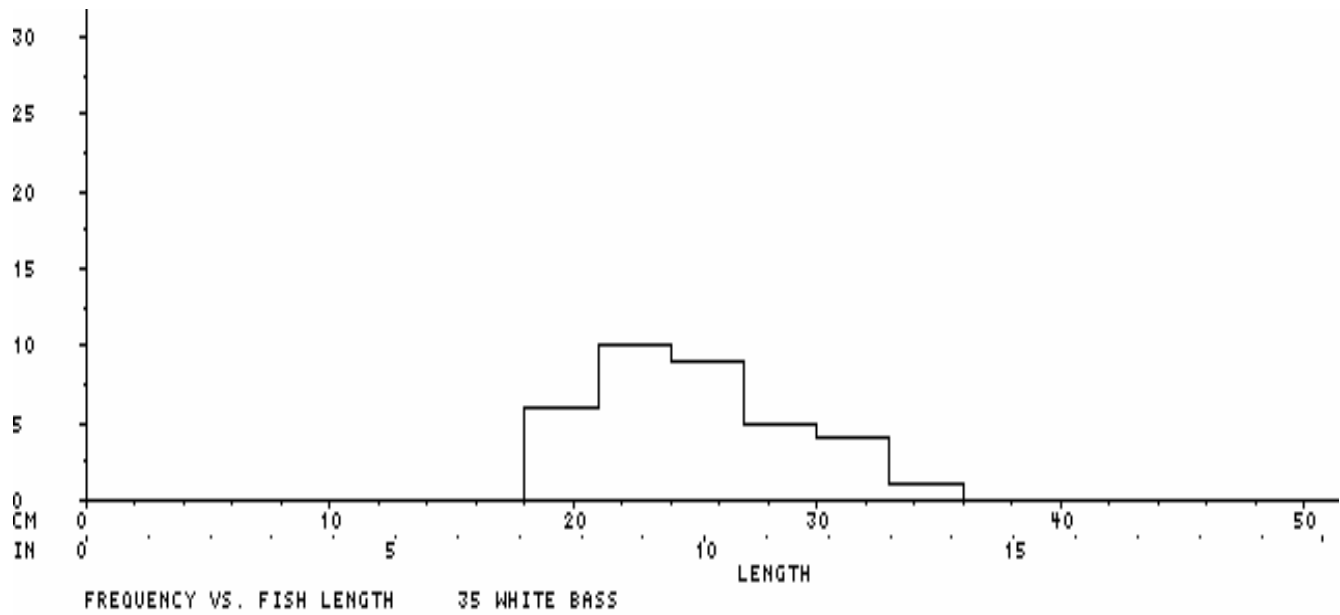


Figure 19. Clinton Lake Tailwater 2000 day creel 3/15 through 10/31. Length-frequency histogram of white bass harvested by all anglers.

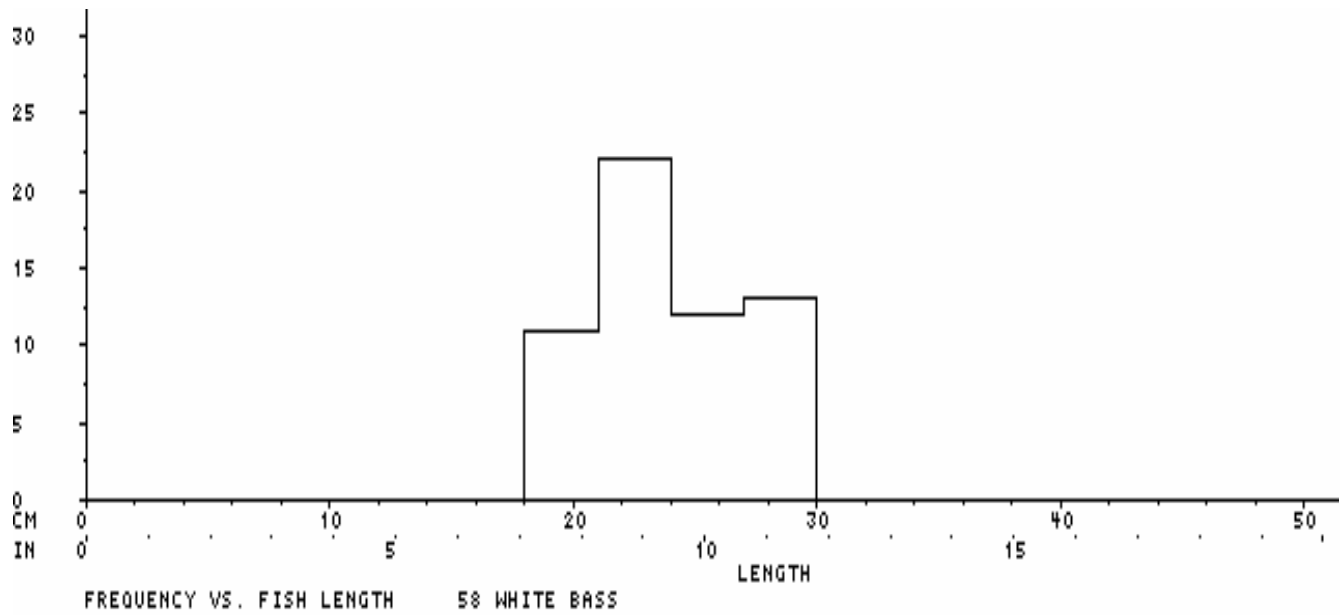


Figure 20. Clinton Lake Tailwater 2000 day creel 3/15 through 10/31. Length-frequency histogram of white bass released by all anglers.

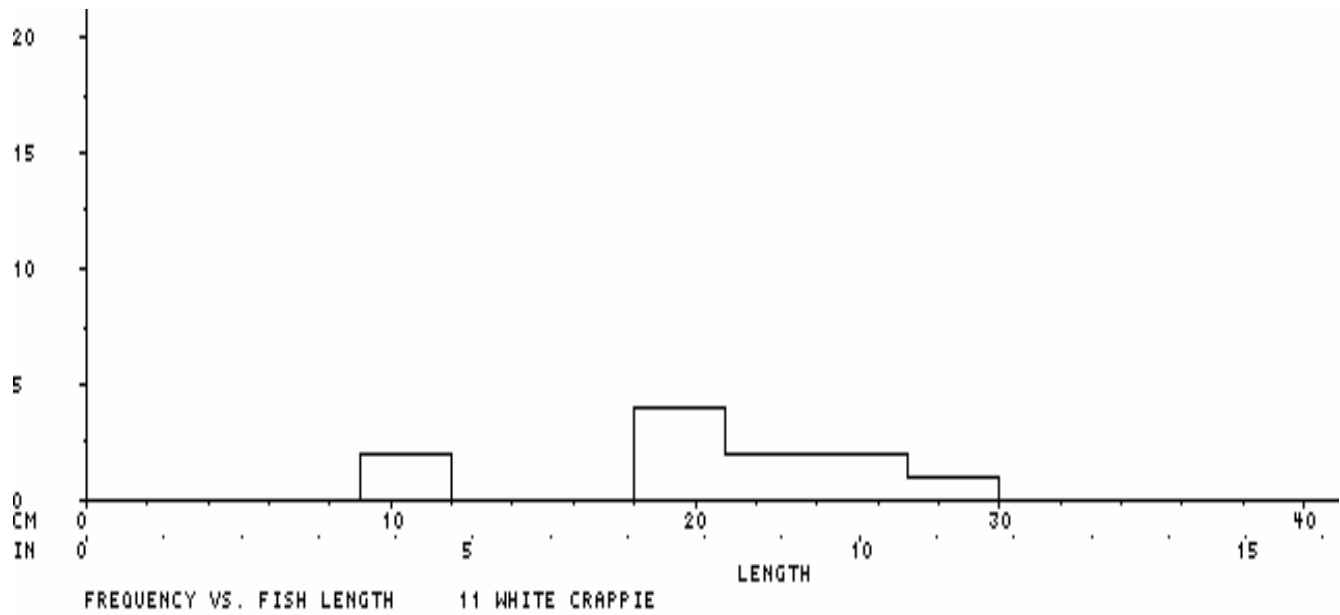


Figure 21. Clinton Lake Tailwater 2000 day creel 3/15 through 10/31. Length-frequency histogram of white crappie harvested by all anglers.

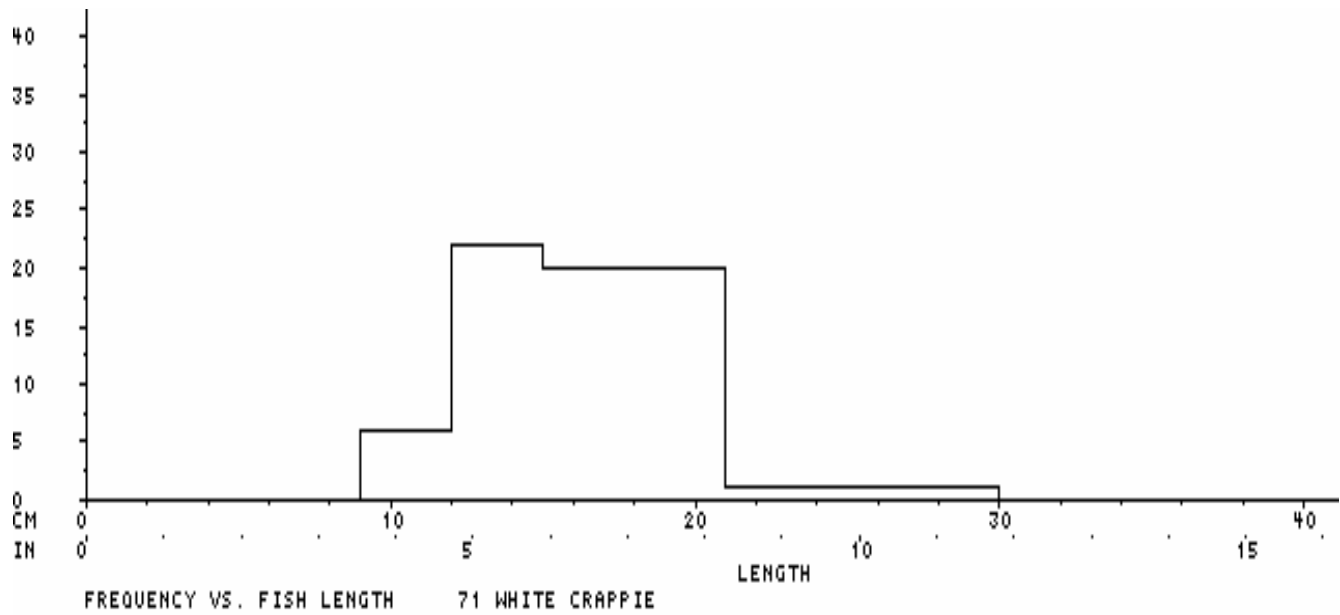


Figure 22. Clinton Lake Tailwater 2000 day creel 3/15 through 10/31. Length-frequency histogram of white crappie released by all anglers. Note the difference in scale from Figure 21.