

ILLINOIS NATURAL HISTORY SURVEY
 CENTER FOR AQUATIC ECOLOGY
 1998 CREEL SURVEY RESULTS

1998 NEWTON LAKE
 1750 ACRES
 REGION 5, DISTRICT 19

STRATIFICATION SUMMARY:

Day creel only.
 Results cover **02/16/1998 through 12/31/1998**
 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: 376/957 = 39.3%

NUMBER OF INTERVIEWS: 5142

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	41179	37435-44923 (9%)	24	21-26 (9%)	14%
	HOLIDAY	48155	44794-51515 (7%)	28	26-29 (7%)	37%
	TOTAL	89334	84303-94365 (6%)	51	48-54 (6%)	26%
SHORE	WEEKDAY	5723	4853-6593 (15%)	3	3-4 (15%)	0%
	HOLIDAY	7122	5892-8352 (17%)	4	3-5 (17%)	1%
	TOTAL	12845	11424-14266 (11%)	7	7-8 (11%)	1%
BOAT & SHORE	WEEKDAY	46902	43059-50746 (8%)	27	25-29 (8%)	12%
	HOLIDAY	55277	51734-58820 (6%)	32	30-34 (6%)	32%
	TOTAL	102179	96952-107407 (5%)	58	55-61 (5%)	23%

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

# HARVESTED	95% CI	#/HOUR	95% CI	#/HA	#/ACRE	SPECIES
6503	5139-7868 (21%)	.053	.037-.068 (29%)	9.18	3.72	All species
5	0-17 (218%)	.000	.000-.000 (218%)	0.01	0.00	Black bullhead
319	0-660 (107%)	.003	.000-.007 (128%)	0.45	0.18	Bluegill
11	0-29 (161%)	.000	.000-.000 (157%)	0.02	0.01	Carp
4255	3140-5370 (26%)	.036	.021-.051 (42%)	6.01	2.43	Channel catfish
155	16-294 (90%)	.002	.000-.003 (107%)	0.22	0.09	Green sunfish
		****	NOT RECORDED ****			Gizzard shad
1470	993-1946 (32%)	.010	.004-.016 (61%)	2.08	0.84	Largemouth bass
12	0-41 (245%)	.000	.000-.001 (245%)	0.02	0.01	Longear sunfish
		****	NOT RECORDED ****			Orangespotted sunfish
		****	NOT RECORDED ****			Pumpkinseed
		****	NOT RECORDED ****			Warmouth
275	0-953 (246%)	.001	.000-.005 (252%)	0.39	0.16	White bass
		****	NOT RECORDED ****			White crappie
1	0-4 (318%)	.000	.000-.000 (430%)	0.00	0.00	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
3988	3199-4777 (20%)	.028	.018-.038 (36%)	5.63	0.613	All species
6	0-20 (220%)	.000	.000-.000 (218%)	0.01	1.262	Black bullhead
16	0-33 (106%)	.000	.000-.000 (96%)	0.02	0.050	Bluegill
6	0-15 (157%)	.000	.000-.000 (167%)	0.01	0.584	Carp
1599	1108-2089 (31%)	.013	.007-.018 (43%)	2.26	0.376	Channel catfish
12	0-23 (101%)	.000	.000-.000 (144%)	0.02	0.075	Green sunfish
		****	NOT RECORDED ****			Gizzard shad
2232	1663-2802 (26%)	.014	.005-.023 (66%)	3.15	1.519	Largemouth bass
1	0-2 (245%)	.000	.000-.000 (236%)	0.00	0.053	Longear sunfish
		****	NOT RECORDED ****			Orangespotted sunfish
		****	NOT RECORDED ****			Pumpkinseed
		****	NOT RECORDED ****			Warmouth
117	0-411 (252%)	.001	.000-.002 (255%)	0.16	0.425	White bass
		****	NOT RECORDED ****			White crappie
0	0-2 (430%)	.000	.000-.000 (318%)	0.00	0.342	Yellow bullhead

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

LB HARVESTED	95% CI	LB/HOUR	95% CI	LB/ACRE	AVE LB	SPECIES
8793	7054-10531 (20%)	.061	.039-.083 (36%)	5.02	1.352	All species
14	0-44 (218%)	.000	.000-.000 (220%)	0.01	2.783	Black bullhead
35	0-73 (106%)	.000	.000-.001 (96%)	0.02	0.110	Bluegill
13	0-34 (162%)	.000	.000-.000 (167%)	0.01	1.287	Carp
3524	2443-4606 (31%)	.028	.016-.040 (43%)	2.01	0.828	Channel catfish
26	0-52 (101%)	.000	.000-.001 (144%)	0.01	0.166	Green sunfish
		****	NOT RECORDED ****			Gizzard shad
4921	3665-6176 (26%)	.031	.011-.052 (66%)	2.81	3.350	Largemouth bass
1	0-4 (236%)	.000	.000-.000 (245%)	0.00	0.117	Longear sunfish
		****	NOT RECORDED ****			Orangespotted sunfish
		****	NOT RECORDED ****			Pumpkinseed
		****	NOT RECORDED ****			Warmouth
257	0-907 (252%)	.001	.000-.005 (255%)	0.15	0.936	White bass
		****	NOT RECORDED ****			White crappie
1	0-4 (430%)	.000	.000-.000 (318%)	0.00	0.754	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
33498	29381-37615 (12%)	.245	.206-.283 (16%)	47.30	19.14	All species
5	0-17 (218%)	.000	.000-.000 (218%)	0.01	0.00	Black bullhead
1017	569-1465 (44%)	.009	.003-.016 (70%)	1.44	0.58	Bluegill
28	0-56 (99%)	.000	.000-.000 (120%)	0.04	0.02	Carp
7013	5183-8843 (26%)	.067	.036-.098 (46%)	9.90	4.01	Channel catfish
196	43-349 (78%)	.003	.000-.006 (106%)	0.28	0.11	Green sunfish
60	0-135 (125%)	.001	.000-.004 (214%)	0.08	0.03	Gizzard shad
24269	20772-27766 (14%)	.158	.131-.184 (17%)	34.27	13.87	Largemouth bass
14	0-42 (204%)	.000	.000-.001 (228%)	0.02	0.01	Longear sunfish
4	0-14 (236%)	.000	.000-.000 (236%)	0.01	0.00	Orangespotted sunfish
20	0-67 (243%)	.000	.000-.001 (296%)	0.03	0.01	Pumpkinseed
20	3-38 (84%)	.000	.000-.000 (95%)	0.03	0.01	Warmouth
840	0-2019 (140%)	.006	.000-.013 (115%)	1.19	0.48	White bass
11	0-38 (257%)	.000	.000-.000 (257%)	0.02	0.01	White crappie
1	0-4 (318%)	.000	.000-.000 (430%)	0.00	0.00	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
24064	20676-27453 (14%)	.151	.127-.175 (16%)	33.98	0.718	All species
6	0-20 (220%)	.000	.000-.000 (218%)	0.01	1.262	Black bullhead
44	23-64 (47%)	.000	.000-.000 (50%)	0.06	0.043	Bluegill
12	1-22 (87%)	.000	.000-.000 (113%)	0.02	0.416	Carp
1928	1420-2436 (26%)	.016	.010-.022 (39%)	2.72	0.275	Channel catfish
16	2-30 (87%)	.000	.000-.001 (140%)	0.02	0.083	Green sunfish
0	0-0 (102%)	.000	.000-.000 (196%)	0.00	0.003	Gizzard shad
21716	18413-25019 (15%)	.132	.109-.156 (18%)	30.66	0.895	Largemouth bass
1	0-3 (152%)	.000	.000-.000 (206%)	0.00	0.081	Longear sunfish
0	0-1 (236%)	.000	.000-.000 (245%)	0.00	0.071	Orangespotted sunfish
1	0-2 (173%)	.000	.000-.000 (274%)	0.00	0.032	Pumpkinseed
3	0-5 (89%)	.000	.000-.000 (95%)	0.00	0.138	Warmouth
331	0-839 (153%)	.002	.000-.005 (119%)	0.47	0.394	White bass
6	0-20 (257%)	.000	.000-.000 (278%)	0.01	0.560	White crappie
0	0-2 (430%)	.000	.000-.000 (318%)	0.00	0.342	Yellow bullhead

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

LB CAUGHT	95% CI	LB/HOUR	95% CI	LB/ACRE	AVE LB	SPECIES
53052	45582-60523 (14%)	.333	.279-.387 (16%)	30.32	1.584	All species
14	0-44 (218%)	.000	.000-.000 (220%)	0.01	2.783	Black bullhead
96	51-142 (47%)	.001	.000-.001 (50%)	0.05	0.095	Bluegill
26	3-48 (87%)	.000	.000-.000 (113%)	0.01	0.918	Carp
4251	3131-5370 (26%)	.034	.021-.048 (39%)	2.43	0.606	Channel catfish
36	5-67 (87%)	.001	.000-.001 (140%)	0.02	0.183	Green sunfish
0	0-1 (102%)	.000	.000-.000 (196%)	0.00	0.006	Gizzard shad
47876	40594-55158 (15%)	.292	.240-.344 (18%)	27.36	1.973	Largemouth bass
2	0-6 (152%)	.000	.000-.000 (206%)	0.00	0.178	Longear sunfish
1	0-2 (245%)	.000	.000-.000 (236%)	0.00	0.157	Orangespotted sunfish
1	0-4 (173%)	.000	.000-.000 (274%)	0.00	0.070	Pumpkinseed
6	1-11 (89%)	.000	.000-.000 (95%)	0.00	0.303	Warmouth
731	0-1849 (153%)	.005	.000-.011 (119%)	0.42	0.870	White bass
12	0-47 (278%)	.000	.000-.000 (257%)	0.01	1.234	White crappie
1	0-4 (430%)	.000	.000-.000 (318%)	0.00	0.754	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	5.4	5.3-5.5	(2%)	0.1	17.8	2679
SHORE	2.0	1.5-2.6	(28%)	1.0	3.6	13
BOAT & SHORE	5.3	5.2-5.4	(2%)	0.1	17.8	2692
MILES TRAVELED	55.6	53.3-57.9	(4%)	1	900	2471
SUCCESS RATING (1-10)	4.4	4.3-4.6	(2%)	1	10	2425

*2048 samples were from split interviews of completed trips.
97.9% of all 2750 interviews were completed trips.

ILLEGAL HARVEST: Clerk noted 1 out of 2750 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	769	1738	184	18	3					
SHORE INTERVIEWS	12	17	7	1		1				

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

88 (3.2%)	ANY	All species
8 (0.3%)	BLG	Bluegill
2 (0.1%)	CAP	Carp
319 (11.6%)	CCF	Channel catfish
1 (0.0%)	GSF	Green sunfish
2316 (84.2%)	LMB	Largemouth bass
1 (0.0%)	SMB	Smallmouth bass
4 (0.1%)	WHB	White bass
4 (0.1%)	WHC	White crappie

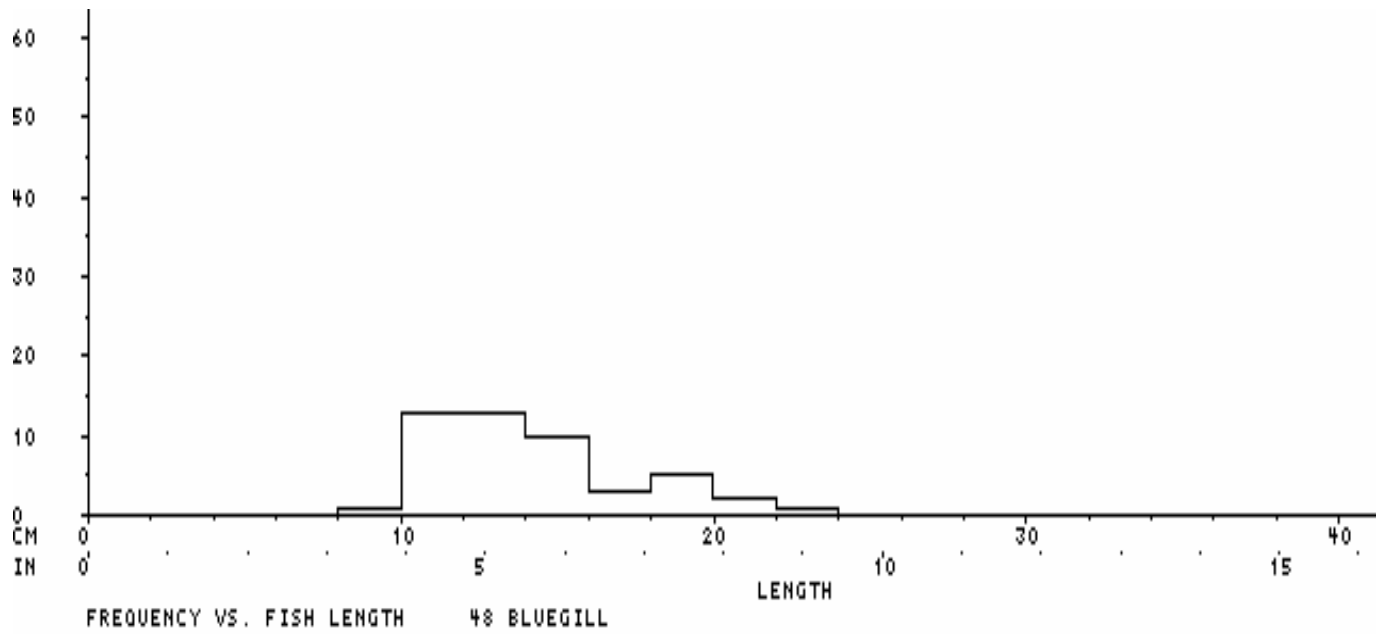


Figure 1. Newton Lake 1998 day creel 2/16 through 12/31. Length-frequency histogram of bluegill harvested by all anglers.

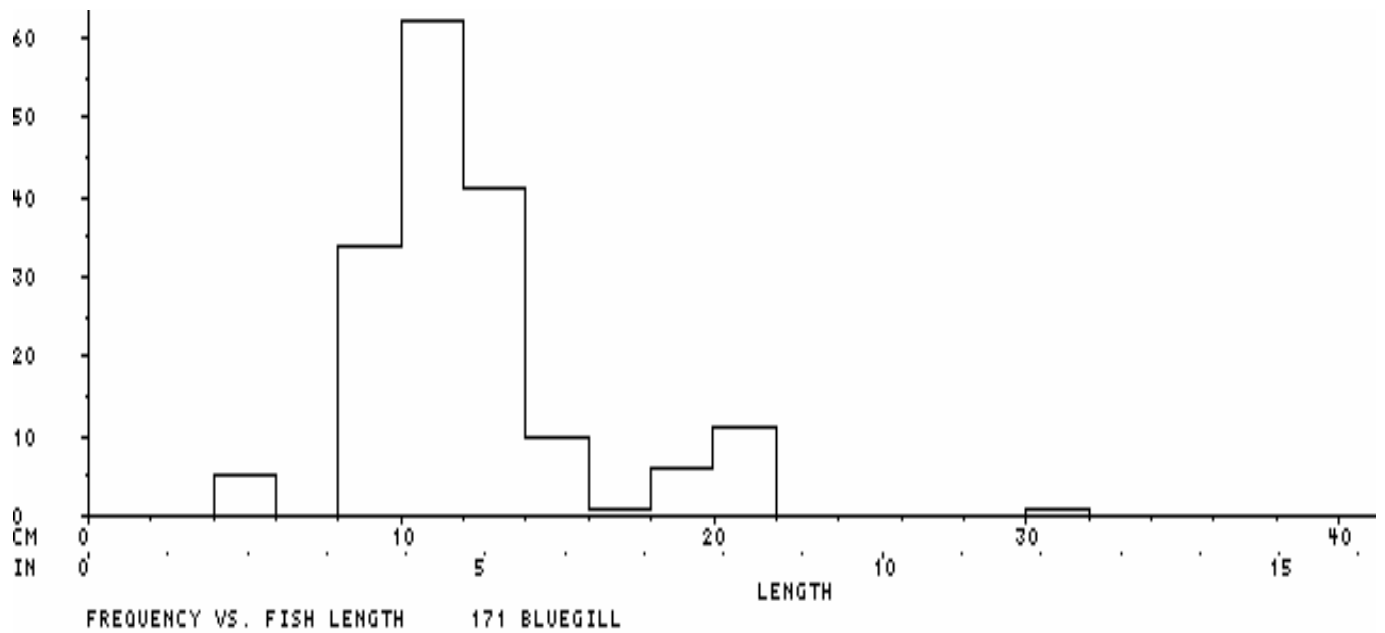


Figure 2. Newton Lake 1998 day creel 2/16 through 12/31. Length-frequency histogram of bluegill released by all anglers.

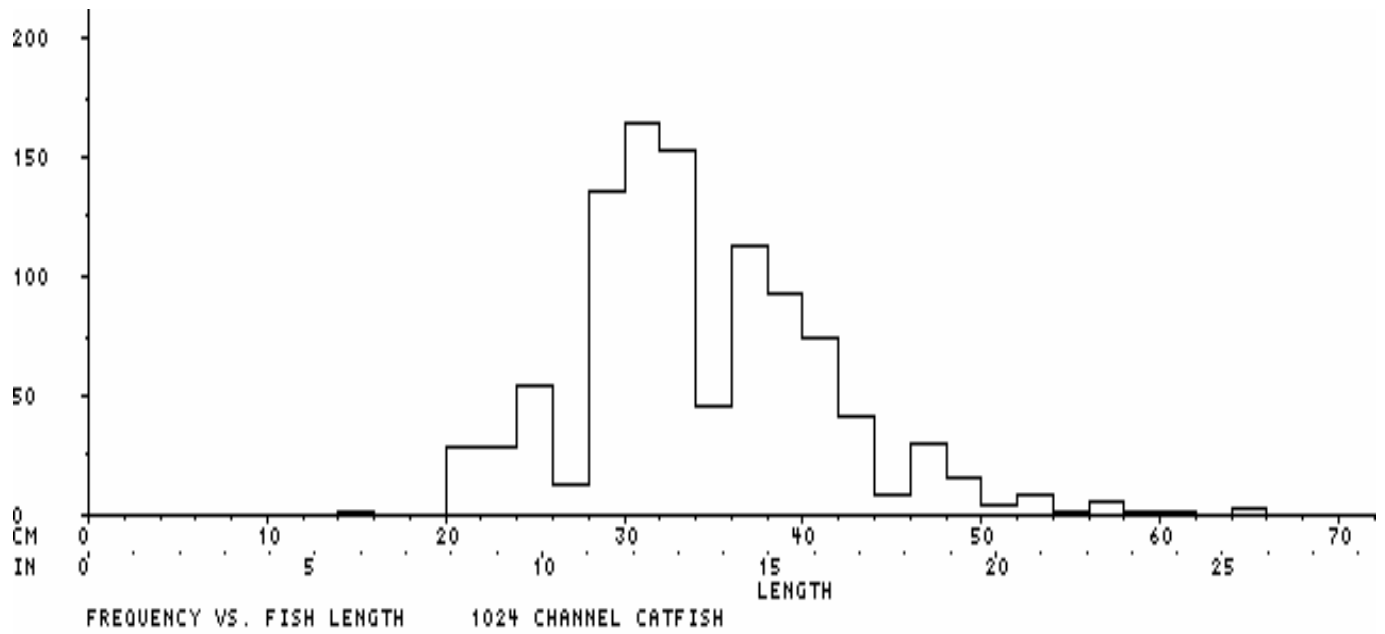


Figure 3. Newton Lake 1998 day creel 2/16 through 12/31. Length-frequency histogram of channel catfish harvested by all anglers.

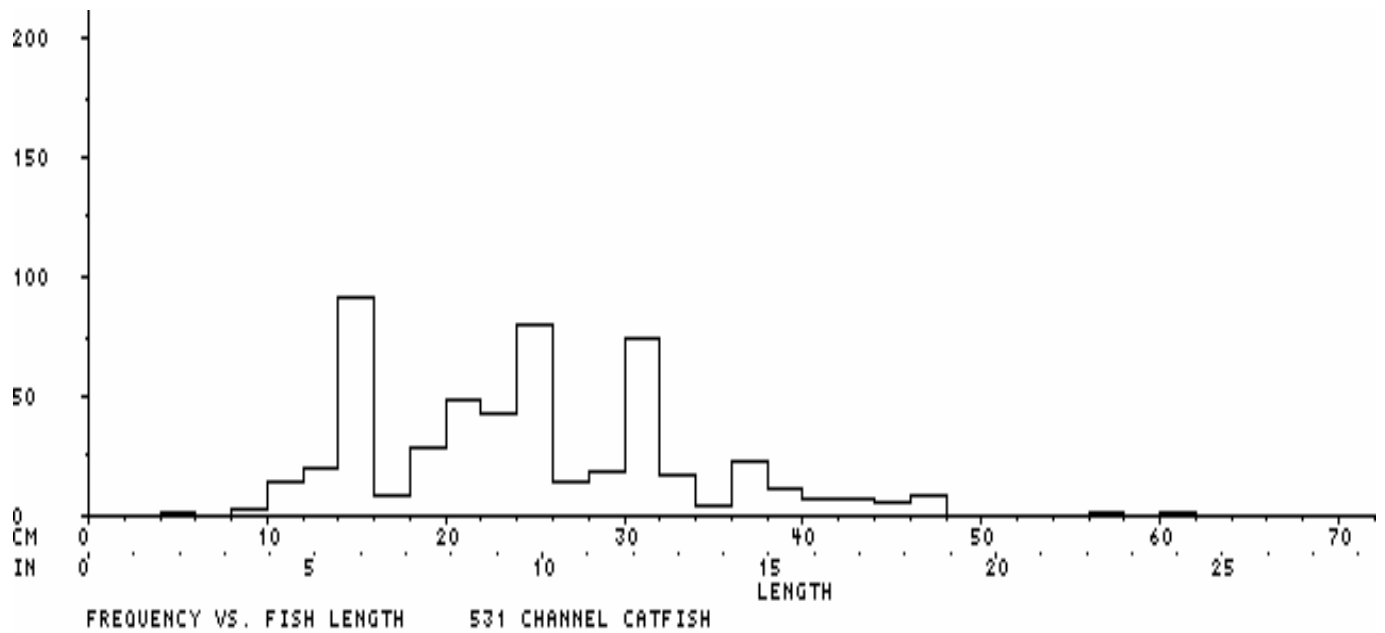


Figure 4. Newton Lake 1998 day creel 2/16 through 12/31. Length-frequency histogram of channel catfish released by all anglers.

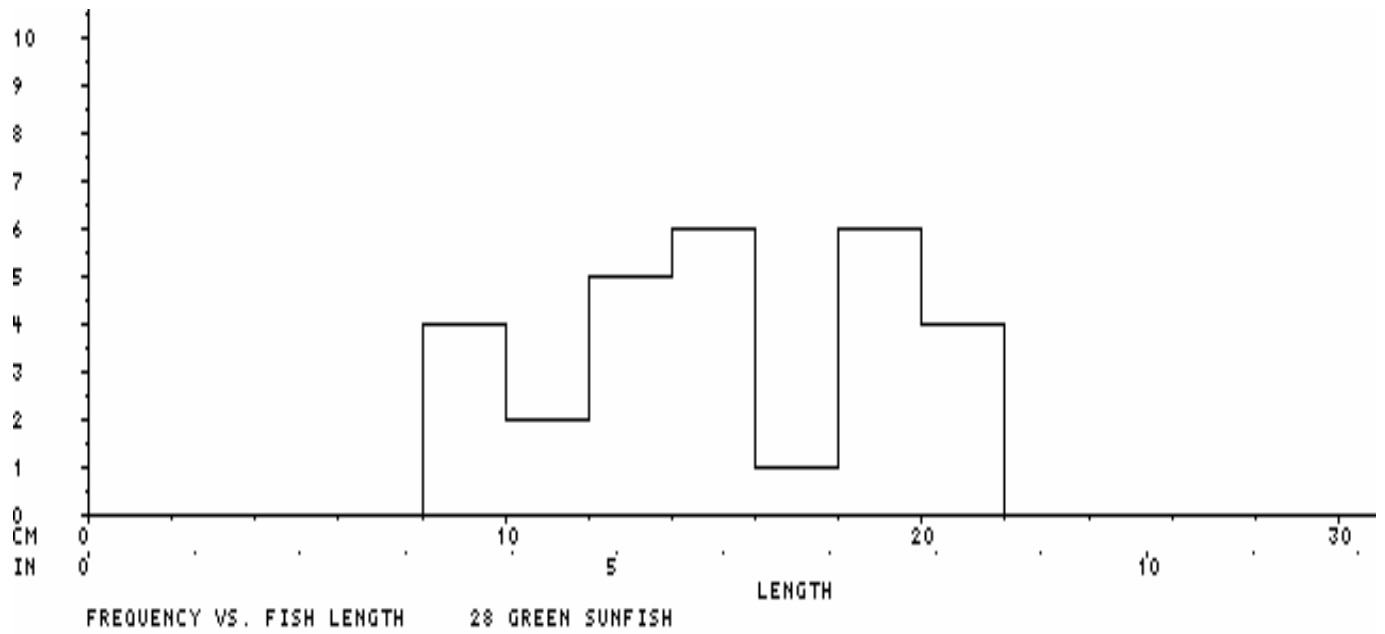


Figure 5. Newton Lake 1998 day creel 2/16 through 12/31. Length-frequency histogram of green sunfish harvested by all anglers.

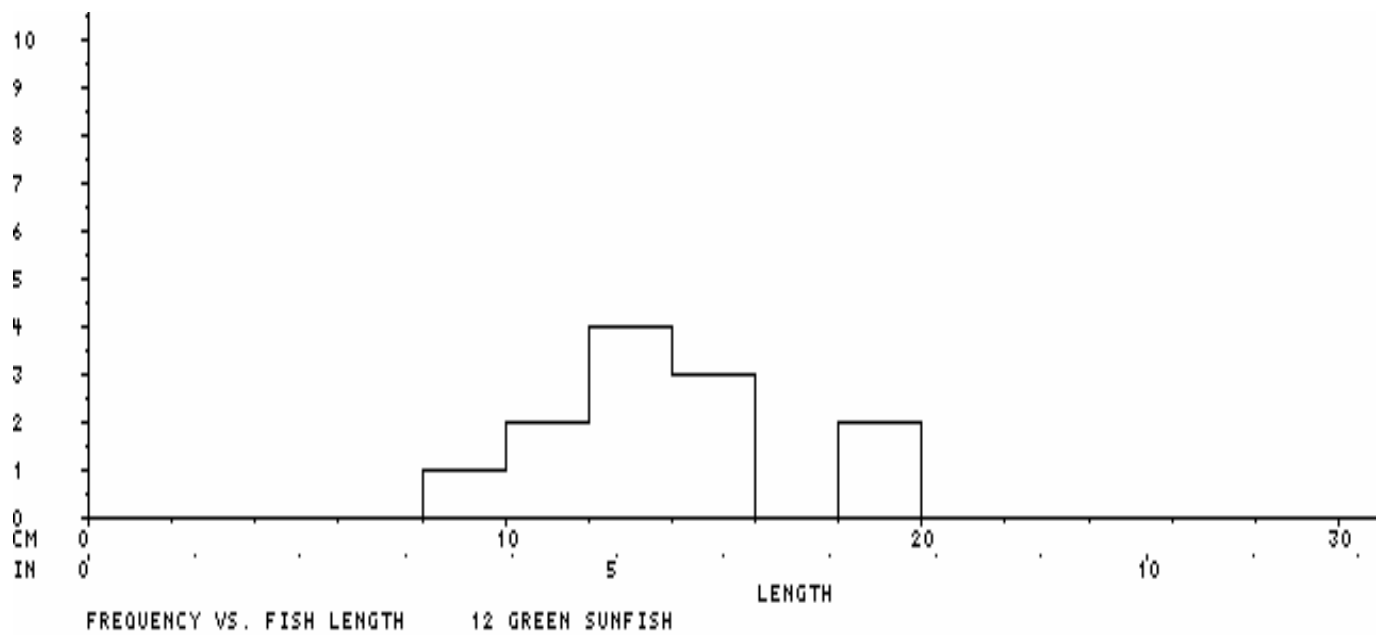


Figure 6. Newton Lake 1998 day creel 2/16 through 12/31. Length-frequency histogram of green sunfish released by all anglers.

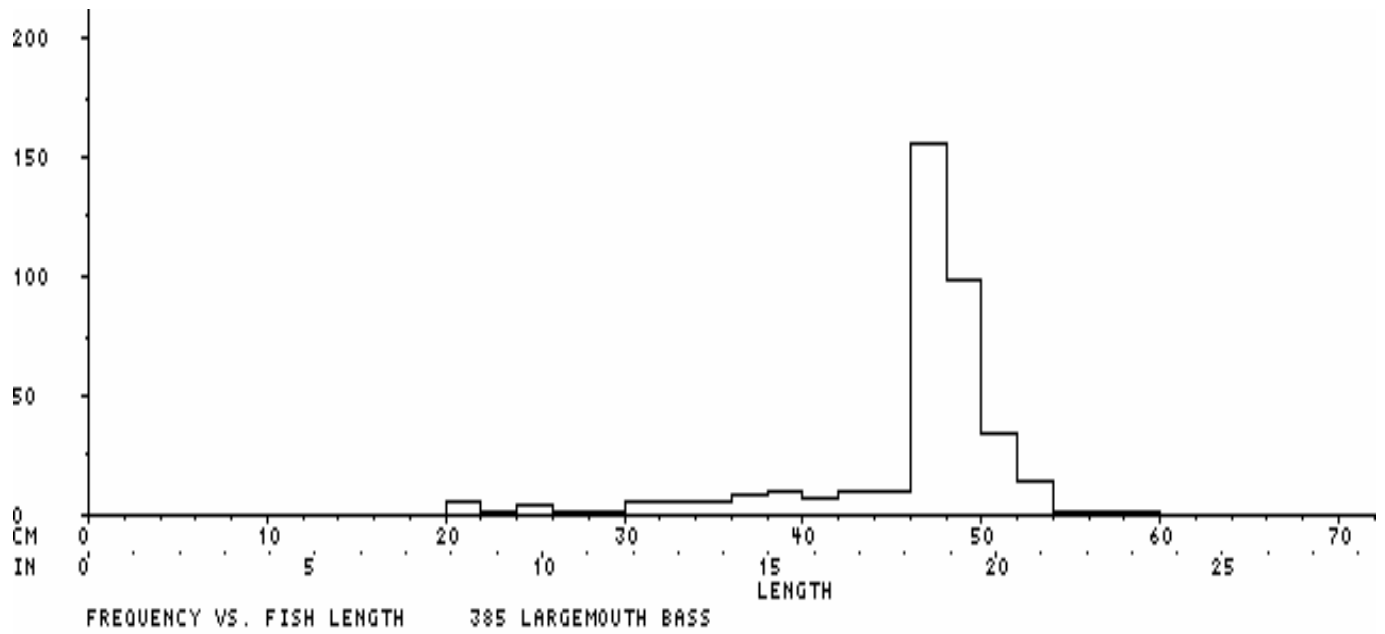


Figure 7. Newton Lake 1998 day creel 2/16 through 12/31. Length-frequency histogram of largemouth bass harvested by all anglers.

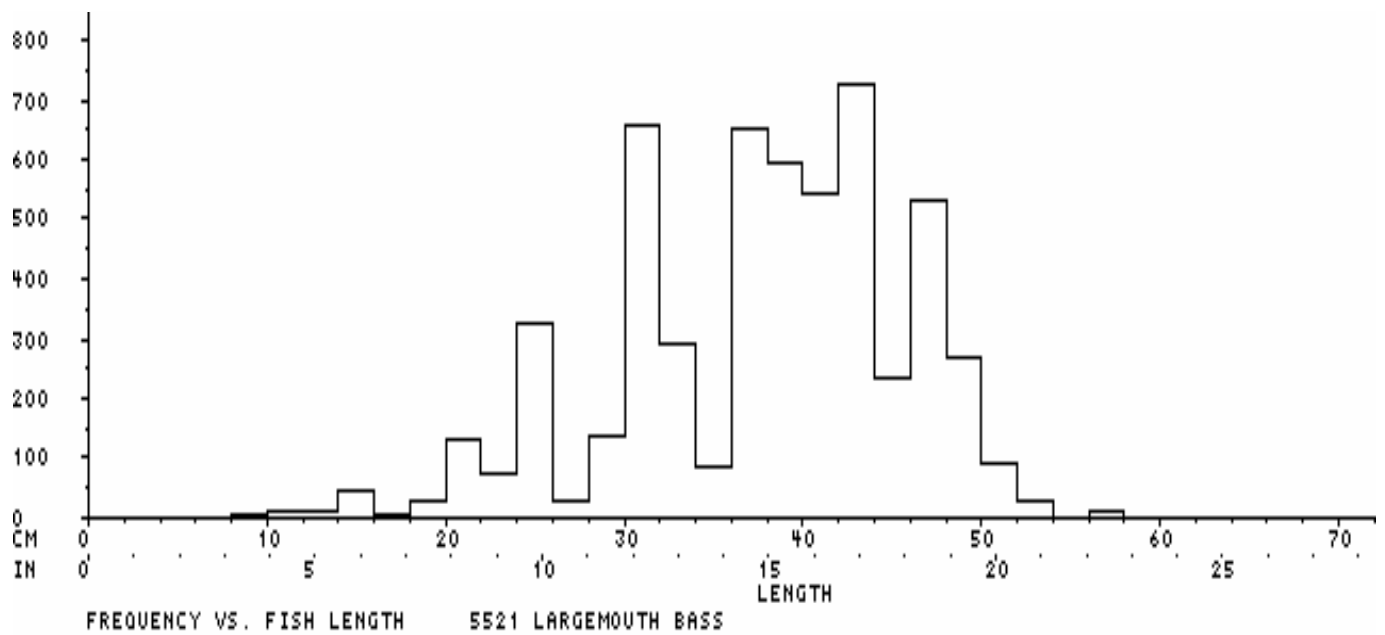


Figure 8. Newton Lake 1998 day creel 2/16 through 12/31. Length-frequency histogram of largemouth bass released by all anglers.

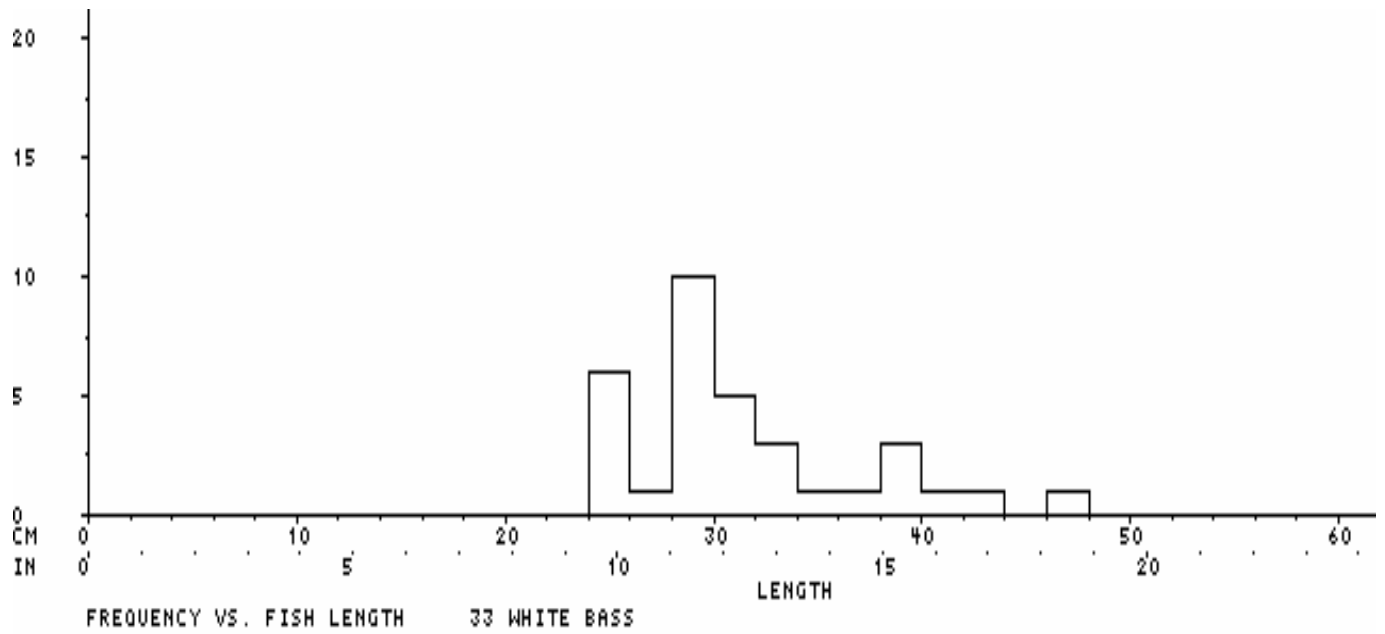


Figure 9. Newton Lake 1998 day creel 2/16 through 12/31. Length-frequency histogram of white bass harvested by all anglers.

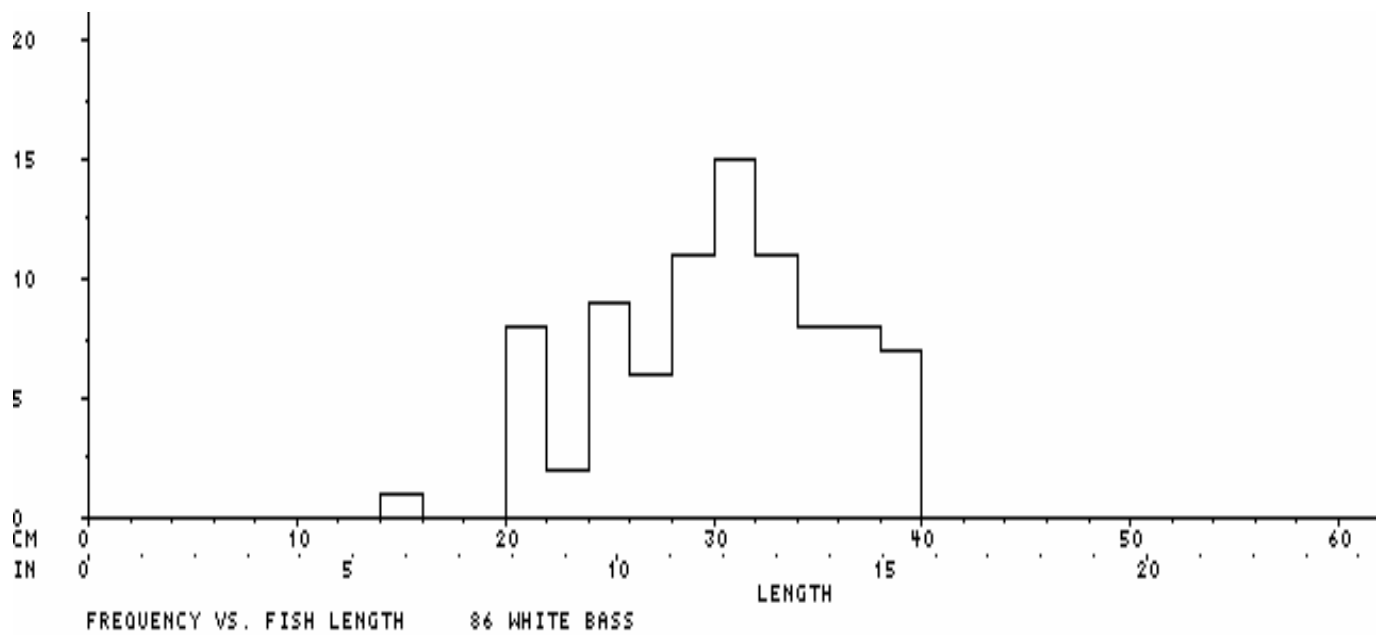


Figure 10. Newton Lake 1998 day creel 2/16 through 12/31. Length-frequency histogram of white bass released by all anglers.

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STRATIFICATION SUMMARY:

Day creel only.
 Results cover **02/16/1998 through 06/15/1998**
 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: 168/360 = 46.7%

NUMBER OF INTERVIEWS: 3023

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	23131	19887-26376 (14%)	13	11-15 (14%)	16%
	HOLIDAY	25764	23306-28222 (10%)	15	13-16 (10%)	42%
	TOTAL	48895	44825-52966 (8%)	28	26-30 (8%)	30%
SHORE	WEEKDAY	3113	2529-3697 (19%)	2	1-2 (19%)	1%
	HOLIDAY	3886	2722-5050 (30%)	2	2-3 (30%)	2%
	TOTAL	6999	5750-8249 (18%)	4	3-5 (18%)	1%
BOAT & SHORE	WEEKDAY	26244	22948-29541 (13%)	15	13-17 (13%)	14%
	HOLIDAY	29650	27000-32300 (9%)	17	15-18 (9%)	37%
	TOTAL	55895	51665-60124 (8%)	32	30-34 (8%)	26%

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

# HARVESTED	95% CI	#/HOUR	95% CI	#/HA	#/ACRE	SPECIES
3043	2302-3784 (24%)	.055	.035-.076 (37%)	4.30	1.74	All species
127	0-326 (157%)	.006	.000-.017 (186%)	0.18	0.07	Bluegill
11	0-29 (161%)	.000	.000-.001 (157%)	0.02	0.01	Carp
1958	1303-2612 (33%)	.034	.020-.049 (43%)	2.76	1.12	Channel catfish
112	0-240 (115%)	.003	.000-.006 (158%)	0.16	0.06	Green sunfish
		****	NOT RECORDED ****			Gizzard shad
835	608-1062 (27%)	.012	.000-.028 (128%)	1.18	0.48	Largemouth bass
		****	NOT RECORDED ****			Orangespotted sunfish
		****	NOT RECORDED ****			Pumpkinseed
		****	NOT RECORDED ****			Warmouth
		****	NOT RECORDED ****			White bass
1	0-4 (318%)	.000	.000-.000 (430%)	0.00	0.00	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
2255	1710-2801 (24%)	.034	.009-.060 (75%)	3.18	0.741	All species
5	0-11 (118%)	.000	.000-.001 (154%)	0.01	0.041	Bluegill
6	0-15 (157%)	.000	.000-.000 (167%)	0.01	0.584	Carp
835	445-1225 (47%)	.013	.006-.019 (50%)	1.18	0.427	Channel catfish
10	0-22 (112%)	.000	.000-.001 (182%)	0.01	0.094	Green sunfish
		****	NOT RECORDED ****			Gizzard shad
1399	1018-1779 (27%)	.021	.000-.048 (132%)	1.97	1.675	Largemouth bass
		****	NOT RECORDED ****			Orangespotted sunfish
		****	NOT RECORDED ****			Pumpkinseed
		****	NOT RECORDED ****			Warmouth
		****	NOT RECORDED ****			White bass
0	0-2 (430%)	.000	.000-.000 (318%)	0.00	0.342	Yellow bullhead

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

LB HARVESTED	95% CI		LB/HOUR	95% CI	LB/ACRE	AVE LB	SPECIES
4972	3770-6174	(24%)	.075	.019-.132 (75%)	2.84	1.634	All species
12	0-25	(118%)	.000	.000-.001 (154%)	0.01	0.091	Bluegill
13	0-34	(162%)	.000	.000-.001 (161%)	0.01	1.287	Carp
1841	981-2700	(47%)	.028	.014-.042 (50%)	1.05	0.941	Channel catfish
23	0-49	(112%)	.000	.000-.001 (182%)	0.01	0.207	Green sunfish
			****	NOT RECORDED ****			Gizzard shad
3083	2245-3922	(27%)	.046	.000-.107 (132%)	1.76	3.693	Largemouth bass
			****	NOT RECORDED ****			Orangespotted sunfish
			****	NOT RECORDED ****			Pumpkinseed
			****	NOT RECORDED ****			Warmouth
			****	NOT RECORDED ****			White bass
1	0-4	(430%)	.000	.000-.000 (318%)	0.00	0.754	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
12260	10687-13833 (13%)	.181	.143-.220 (21%)	17.31	7.01	All species
396	147-645 (63%)	.014	.000-.031 (117%)	0.56	0.23	Bluegill
16	0-34 (116%)	.000	.000-.001 (142%)	0.02	0.01	Carp
2748	1883-3613 (31%)	.048	.024-.072 (49%)	3.88	1.57	Channel catfish
143	4-281 (97%)	.006	.000-.013 (137%)	0.20	0.08	Green sunfish
31	0-105 (236%)	.003	.000-.010 (236%)	0.04	0.02	Gizzard shad
8846	7663-10028 (13%)	.109	.089-.129 (19%)	12.49	5.05	Largemouth bass
4	0-14 (236%)	.000	.000-.001 (245%)	0.01	0.00	Orangespotted sunfish
20	0-67 (243%)	.001	.000-.004 (296%)	0.03	0.01	Pumpkinseed
14	0-29 (109%)	.000	.000-.000 (99%)	0.02	0.01	Warmouth
42	0-145 (246%)	.000	.000-.000 (232%)	0.06	0.02	White bass
1	0-4 (318%)	.000	.000-.000 (430%)	0.00	0.00	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
9975	8809-11140 (12%)	.127	.098-.155 (23%)	14.08	0.814	All species
14	6-22 (56%)	.000	.000-.001 (92%)	0.02	0.035	Bluegill
10	0-19 (102%)	.000	.000-.000 (142%)	0.01	0.635	Carp
900	515-1286 (43%)	.014	.007-.020 (47%)	1.27	0.328	Channel catfish
14	0-28 (97%)	.001	.000-.002 (153%)	0.02	0.101	Green sunfish
0	0-0 (236%)	.000	.000-.000 (231%)	0.00	0.002	Gizzard shad
9015	7916-10114 (12%)	.112	.084-.140 (25%)	12.73	1.019	Largemouth bass
0	0-1 (236%)	.000	.000-.000 (245%)	0.00	0.071	Orangespotted sunfish
1	0-2 (173%)	.000	.000-.000 (274%)	0.00	0.032	Pumpkinseed
2	0-5 (102%)	.000	.000-.000 (116%)	0.00	0.165	Warmouth
18	0-63 (248%)	.000	.000-.000 (238%)	0.03	0.431	White bass
0	0-2 (430%)	.000	.000-.000 (318%)	0.00	0.342	Yellow bullhead

1998 NEWTON LAKE

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02/16/1998 - 06/15/1998

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

LB CAUGHT	95% CI	LB/HOUR	95% CI	LB/ACRE	AVE LB	SPECIES
21991	19422-24560 (12%)	.279	.216-.342 (23%)	12.57	1.794	All species
31	13-48 (56%)	.001	.000-.002 (92%)	0.02	0.078	Bluegill
21	0-42 (102%)	.000	.000-.001 (142%)	0.01	1.401	Carp
1985	1135-2835 (43%)	.030	.016-.044 (47%)	1.13	0.723	Channel catfish
32	1-62 (97%)	.001	.000-.003 (153%)	0.02	0.223	Green sunfish
0	0-0 (236%)	.000	.000-.000 (236%)	0.00	0.004	Gizzard shad
19875	17452-22297 (12%)	.246	.184-.309 (25%)	11.36	2.247	Largemouth bass
1	0-2 (245%)	.000	.000-.000 (245%)	0.00	0.157	Orangespotted sunfish
1	0-4 (173%)	.000	.000-.000 (274%)	0.00	0.070	Pumpkinseed
5	0-10 (102%)	.000	.000-.000 (116%)	0.00	0.364	Warmouth
40	0-139 (248%)	.000	.000-.000 (238%)	0.02	0.950	White bass
1	0-4 (430%)	.000	.000-.000 (318%)	0.00	0.754	Yellow bullhead

ILLINOIS NATURAL HISTORY SURVEY
 CENTER FOR AQUATIC ECOLOGY
 1998 CREEL SURVEY RESULTS

1998 NEWTON LAKE
 1750 ACRES
 REGION 5, DISTRICT 19

STRATIFICATION SUMMARY:

Day creel only.
 Results cover **06/16/1998 through 12/31/1998**
 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: 208/597 = 34.8%

NUMBER OF INTERVIEWS: 2119

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	18048	16180-19916 (10%)	10	9-11 (10%)	12%
	HOLIDAY	22391	20100-24682 (10%)	13	11-14 (10%)	31%
	TOTAL	40439	37482-43395 (7%)	23	21-25 (7%)	22%
SHORE	WEEKDAY	2610	1966-3255 (25%)	1	1-2 (25%)	0%
	HOLIDAY	3236	2703-3768 (16%)	2	2-2 (16%)	1%
	TOTAL	5846	5010-6682 (14%)	3	3-4 (14%)	1%
BOAT & SHORE	WEEKDAY	20658	18682-22634 (10%)	12	11-13 (10%)	10%
	HOLIDAY	25627	23274-27979 (9%)	15	13-16 (9%)	27%
	TOTAL	46285	43212-49357 (7%)	26	25-28 (7%)	20%

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

# HARVESTED	95% CI	#/HOUR	95% CI	#/HA	#/ACRE	SPECIES
3460	2314-4606 (33%)	.051	.028-.074 (45%)	4.89	1.98	All species
5	0-17 (218%)	.000	.000-.000 (218%)	0.01	0.00	Black bullhead
192	0-493 (156%)	.002	.000-.004 (107%)	0.27	0.11	Bluegill
		****	NOT RECORDED ****			Carp
2298	1365-3230 (41%)	.037	.014-.060 (61%)	3.24	1.31	Channel catfish
43	0-119 (174%)	.001	.000-.003 (179%)	0.06	0.02	Green sunfish
		****	NOT RECORDED ****			Gizzard shad
634	201-1068 (68%)	.009	.001-.017 (90%)	0.90	0.36	Largemouth bass
12	0-41 (245%)	.000	.000-.001 (245%)	0.02	0.01	Longear sunfish
		****	NOT RECORDED ****			Orangespotted sunfish
		****	NOT RECORDED ****			Warmouth
275	0-953 (246%)	.002	.000-.008 (252%)	0.39	0.16	White bass
		****	NOT RECORDED ****			White crappie

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

KG HARVESTED	95% CI	KG/HOUR	95% CI	KG/HA	AVE KG	SPECIES
1733	1163-2303 (33%)	.024	.014-.033 (39%)	2.45	0.501	All species
6	0-20 (220%)	.000	.000-.000 (220%)	0.01	1.262	Black bullhead
11	0-27 (151%)	.000	.000-.000 (113%)	0.02	0.056	Bluegill
		****	NOT RECORDED ****			Carp
764	425-1103 (44%)	.012	.004-.021 (68%)	1.08	0.332	Channel catfish
1	0-3 (177%)	.000	.000-.000 (165%)	0.00	0.029	Green sunfish
		****	NOT RECORDED ****			Gizzard shad
834	373-1294 (55%)	.010	.005-.015 (48%)	1.18	1.315	Largemouth bass
1	0-2 (245%)	.000	.000-.000 (245%)	0.00	0.053	Longear sunfish
		****	NOT RECORDED ****			Orangespotted sunfish
		****	NOT RECORDED ****			Warmouth
117	0-411 (252%)	.001	.000-.003 (255%)	0.16	0.425	White bass
		****	NOT RECORDED ****			White crappie

1998 NEWTON LAKE

DAY CREEL

06/16/1998 - 12/31/1998

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

LB HARVESTED	95% CI		LB/HOUR	95% CI	LB/ACRE	AVE LB	SPECIES
3820	2564-5077	(33%)	.052	.032-.072 (39%)	2.18	1.104	All species
14	0-44	(218%)	.000	.000-.001 (218%)	0.01	2.783	Black bullhead
24	0-59	(151%)	.000	.000-.000 (113%)	0.01	0.123	Bluegill
			****	NOT RECORDED ****			Carp
1684	936-2431	(44%)	.027	.009-.046 (68%)	0.96	0.733	Channel catfish
3	0-8	(177%)	.000	.000-.000 (165%)	0.00	0.064	Green sunfish
			****	NOT RECORDED ****			Gizzard shad
1838	822-2854	(55%)	.022	.011-.033 (48%)	1.05	2.898	Largemouth bass
1	0-4	(236%)	.000	.000-.000 (236%)	0.00	0.117	Longear sunfish
			****	NOT RECORDED ****			Orangespotted sunfish
			****	NOT RECORDED ****			Warmouth
257	0-907	(252%)	.002	.000-.007 (255%)	0.15	0.936	White bass
			****	NOT RECORDED ****			White crappie

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
21238	17267-25208 (19%)	.283	.226-.340 (20%)	29.99	12.14	All species
5	0-17 (218%)	.000	.000-.000 (218%)	0.01	0.00	Black bullhead
621	240-1002 (61%)	.006	.003-.010 (61%)	0.88	0.35	Bluegill
12	0-38 (210%)	.000	.000-.000 (225%)	0.02	0.01	Carp
4265	2628-5902 (38%)	.078	.030-.126 (61%)	6.02	2.44	Channel catfish
53	0-131 (146%)	.001	.000-.003 (157%)	0.08	0.03	Green sunfish
29	0-61 (110%)	.000	.000-.000 (118%)	0.04	0.02	Gizzard shad
15423	12098-18748 (22%)	.187	.146-.228 (22%)	21.78	8.81	Largemouth bass
14	0-42 (204%)	.000	.000-.001 (228%)	0.02	0.01	Longear sunfish
		****	NOT RECORDED ****			Orangespotted sunfish
6	0-16 (161%)	.000	.000-.000 (179%)	0.01	0.00	Warmouth
798	0-1973 (147%)	.010	.000-.021 (116%)	1.13	0.46	White bass
11	0-38 (257%)	.000	.000-.001 (278%)	0.02	0.01	White crappie

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

KG CAUGHT	95% CI	KG/HOUR	95% CI	KG/HA	AVE KG	SPECIES
14089	10873-17305 (23%)	.166	.129-.202 (22%)	19.89	0.663	All species
6	0-20 (220%)	.000	.000-.000 (220%)	0.01	1.262	Black bullhead
30	11-49 (64%)	.000	.000-.000 (61%)	0.04	0.048	Bluegill
2	0-6 (194%)	.000	.000-.000 (220%)	0.00	0.177	Carp
1028	640-1415 (38%)	.017	.008-.026 (54%)	1.45	0.241	Channel catfish
2	0-4 (132%)	.000	.000-.000 (145%)	0.00	0.033	Green sunfish
0	0-0 (118%)	.000	.000-.000 (132%)	0.00	0.004	Gizzard shad
12701	9545-15858 (25%)	.145	.110-.180 (24%)	17.93	0.824	Largemouth bass
1	0-3 (152%)	.000	.000-.000 (206%)	0.00	0.081	Longear sunfish
		****	NOT RECORDED ****			Orangespotted sunfish
0	0-1 (172%)	.000	.000-.000 (159%)	0.00	0.074	Warmouth
313	0-818 (161%)	.004	.000-.008 (120%)	0.44	0.393	White bass
6	0-20 (257%)	.000	.000-.000 (278%)	0.01	0.560	White crappie

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

LB CAUGHT	95% CI	LB/HOUR	95% CI	LB/ACRE	AVE LB	SPECIES
31061	23972-38151 (23%)	.365	.285-.446 (22%)	17.75	1.463	All species
14	0-44 (218%)	.000	.000-.001 (218%)	0.01	2.783	Black bullhead
66	23-108 (64%)	.001	.000-.001 (61%)	0.04	0.106	Bluegill
5	0-14 (194%)	.000	.000-.000 (220%)	0.00	0.390	Carp
2266	1411-3121 (38%)	.037	.017-.057 (54%)	1.29	0.531	Channel catfish
4	0-9 (132%)	.000	.000-.000 (145%)	0.00	0.073	Green sunfish
0	0-0 (118%)	.000	.000-.000 (132%)	0.00	0.008	Gizzard shad
28001	21043-34960 (25%)	.319	.242-.396 (24%)	16.00	1.816	Largemouth bass
2	0-6 (152%)	.000	.000-.000 (206%)	0.00	0.178	Longear sunfish
		****	NOT RECORDED	****		Orangespotted sunfish
1	0-3 (172%)	.000	.000-.000 (159%)	0.00	0.163	Warmouth
691	0-1804 (161%)	.008	.000-.018 (120%)	0.39	0.865	White bass
12	0-47 (278%)	.000	.000-.001 (257%)	0.01	1.234	White crappie