

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

1998 LAKE PARADISE
 176 ACRES
 REGION 3, DISTRICT 11

STRATIFICATION SUMMARY:

Day creel only.
 Results cover 03/15/1998 through 10/31/1998
 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: 258/693 = 37.2%

NUMBER OF INTERVIEWS: 896

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	897	565-1229 (37%)	5	3-7 (37%)	19%
	HOLIDAY	1162	930-1395 (20%)	7	5-8 (20%)	32%
	TOTAL	2059	1654-2465 (20%)	12	9-14 (20%)	26%
SHORE	WEEKDAY	4905	3963-5847 (19%)	28	23-33 (19%)	14%
	HOLIDAY	4055	3408-4701 (16%)	23	19-27 (16%)	29%
	TOTAL	8960	7853-10067 (12%)	51	45-57 (12%)	21%
BOAT & SHORE	WEEKDAY	5802	4845-6760 (17%)	33	28-38 (17%)	15%
	HOLIDAY	5217	4530-5904 (13%)	30	26-34 (13%)	29%
	TOTAL	11019	9841-12198 (11%)	63	56-69 (11%)	22%

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

# HARVESTED	95% CI		#/HOUR	95% CI	#/HA	#/ACRE	SPECIES
5897	4704-7090	(20%)	.390	.297-.484 (24%)	82.80	33.51	All species
40	0-115	(188%)	.002	.000-.009 (338%)	0.56	0.23	Black bullhead
1105	631-1579	(43%)	.036	.021-.051 (42%)	15.52	6.28	Bluegill
26	3-49	(89%)	.001	.000-.001 (117%)	0.37	0.15	Carp
637	391-882	(39%)	.047	.026-.068 (45%)	8.94	3.62	Channel catfish
35	0-79	(125%)	.001	.000-.002 (148%)	0.49	0.20	Freshwater drum
			****	NOT RECORDED ****			Green sunfish
			****	NOT RECORDED ****			Gizzard shad
8	0-35	(318%)	.001	.000-.004 (430%)	0.12	0.05	Longear x Bluegill
13	0-34	(162%)	.001	.000-.002 (166%)	0.18	0.07	Largemouth bass
			****	NOT RECORDED ****			Longear sunfish
			****	NOT RECORDED ****			Muskellunge
11	0-31	(182%)	.001	.000-.002 (224%)	0.16	0.06	Tiger muskie
			****	NOT RECORDED ****			Warmouth
3954	2945-4963	(26%)	.298	.210-.387 (30%)	55.51	22.47	White crappie
54	15-92	(71%)	.002	.001-.004 (73%)	0.75	0.30	Yellow bullhead
14	0-41	(193%)	.001	.000-.003 (167%)	0.20	0.08	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
977	791-1163	(19%)	.067	.052-.082 (22%)	13.71	0.166	All species
15	0-66	(326%)	.001	.000-.004 (369%)	0.22	0.386	Black bullhead
72	40-103	(44%)	.002	.001-.003 (40%)	1.01	0.065	Bluegill
12	1-22	(93%)	.000	.000-.000 (124%)	0.16	0.449	Carp
261	164-358	(37%)	.019	.011-.028 (45%)	3.66	0.410	Channel catfish
10	0-22	(113%)	.000	.000-.001 (116%)	0.14	0.292	Freshwater drum
			****	NOT RECORDED ****			Green sunfish
			****	NOT RECORDED ****			Gizzard shad
0	0-2	(430%)	.000	.000-.000 (318%)	0.00	0.035	Longear x Bluegill
12	0-35	(181%)	.001	.000-.002 (184%)	0.18	1.041	Largemouth bass
			****	NOT RECORDED ****			Longear sunfish
			****	NOT RECORDED ****			Muskellunge
21	0-66	(217%)	.001	.000-.004 (233%)	0.29	1.897	Tiger muskie
			****	NOT RECORDED ****			Warmouth
562	420-705	(25%)	.041	.030-.053 (27%)	7.90	0.142	White crappie
10	2-18	(80%)	.000	.000-.001 (83%)	0.14	0.188	Yellow bullhead
0	0-1	(161%)	.000	.000-.000 (166%)	0.01	0.031	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
2153	1743-2563	(19%)	.148	.115-.180 (22%)	12.24	0.365	All species
34	0-145	(326%)	.002	.000-.009 (369%)	0.19	0.851	Black bullhead
159	89-228	(44%)	.005	.003-.007 (40%)	0.90	0.143	Bluegill
26	2-50	(93%)	.000	.000-.001 (124%)	0.15	0.990	Carp
575	363-788	(37%)	.043	.023-.062 (45%)	3.27	0.905	Channel catfish
23	0-48	(113%)	.001	.000-.002 (116%)	0.13	0.643	Freshwater drum
			****	NOT RECORDED ****			Green sunfish
			****	NOT RECORDED ****			Gizzard shad
1	0-3	(318%)	.000	.000-.000 (430%)	0.00	0.078	Longear x Bluegill
28	0-77	(181%)	.002	.000-.004 (184%)	0.16	2.296	Largemouth bass
			****	NOT RECORDED ****			Longear sunfish
			****	NOT RECORDED ****			Muskellunge
46	0-146	(217%)	.002	.000-.008 (233%)	0.26	4.183	Tiger muskie
			****	NOT RECORDED ****			Warmouth
1240	925-1555	(25%)	.091	.066-.117 (27%)	7.05	0.314	White crappie
22	4-39	(80%)	.001	.000-.002 (83%)	0.12	0.414	Yellow bullhead
1	0-3	(161%)	.000	.000-.000 (166%)	0.01	0.069	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
16633	12804-20462 (23%)	1.093	.879-1.306 (20%)	233.52	94.50	All species
72	0-173 (141%)	.003	.000-.009 (148%)	1.01	0.41	Black bullhead
2174	1572-2775 (28%)	.095	.070-.120 (27%)	30.52	12.35	Bluegill
154	55-253 (64%)	.007	.002-.013 (79%)	2.17	0.88	Carp
1068	686-1449 (36%)	.080	.036-.124 (55%)	14.99	6.07	Channel catfish
142	36-247 (74%)	.006	.002-.010 (69%)	1.99	0.80	Freshwater drum
59	0-151 (154%)	.001	.000-.004 (208%)	0.83	0.34	Green sunfish
58	0-173 (199%)	.002	.000-.008 (256%)	0.81	0.33	Gizzard shad
8	0-35 (318%)	.001	.000-.004 (430%)	0.12	0.05	Longear x Bluegill
311	195-427 (37%)	.017	.011-.024 (37%)	4.37	1.77	Largemouth bass
3	0-9 (209%)	.001	.000-.002 (209%)	0.04	0.02	Longear sunfish
2	0-7 (226%)	.000	.000-.000 (226%)	0.03	0.01	Muskellunge
19	0-45 (133%)	.001	.000-.002 (152%)	0.27	0.11	Tiger muskie
15	0-36 (138%)	.000	.000-.001 (141%)	0.21	0.09	Warmouth
11619	8015-15223 (31%)	.822	.615-1.028 (25%)	163.13	66.02	White crappie
565	352-778 (38%)	.037	.023-.051 (38%)	7.93	3.21	Yellow bullhead
364	181-546 (50%)	.019	.008-.029 (58%)	5.11	2.07	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
1779	1476-2082 (17%)	.119	.098-.140 (17%)	24.98	0.107	All species
20	0-59 (189%)	.001	.000-.004 (319%)	0.28	0.286	Black bullhead
120	86-153 (28%)	.005	.004-.007 (27%)	1.68	0.055	Bluegill
78	29-127 (63%)	.004	.000-.007 (95%)	1.09	0.506	Carp
325	216-434 (34%)	.024	.014-.033 (39%)	4.56	0.305	Channel catfish
47	0-113 (143%)	.004	.000-.010 (178%)	0.65	0.331	Freshwater drum
2	0-4 (126%)	.000	.000-.000 (147%)	0.03	0.033	Green sunfish
1	0-3 (172%)	.000	.000-.000 (243%)	0.01	0.018	Gizzard shad
0	0-2 (430%)	.000	.000-.000 (318%)	0.00	0.035	Longear x Bluegill
111	62-159 (44%)	.007	.004-.011 (47%)	1.55	0.356	Largemouth bass
0	0-0 (210%)	.000	.000-.000 (210%)	0.00	0.032	Longear sunfish
1	0-4 (226%)	.000	.000-.000 (231%)	0.02	0.636	Muskellunge
33	0-82 (152%)	.002	.000-.004 (171%)	0.46	1.711	Tiger muskie
2	0-4 (138%)	.000	.000-.000 (156%)	0.02	0.102	Warmouth
970	715-1225 (26%)	.068	.051-.085 (25%)	13.62	0.083	White crappie
51	33-69 (35%)	.004	.002-.005 (36%)	0.72	0.091	Yellow bullhead
19	7-30 (61%)	.001	.000-.002 (77%)	0.26	0.052	Yellow bass

1998 LAKE PARADISE

DAY CREEL

03/15/1998 - 10/31/1998

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

LB CAUGHT	95% CI		LB/HOUR	95% CI	LB/ACRE	AVE LB	SPECIES
3922	3254-4591	(17%)	.263	.217-.309 (17%)	22.29	0.236	All species
45	0-129	(189%)	.002	.000-.010 (319%)	0.25	0.630	Black bullhead
264	190-338	(28%)	.011	.008-.015 (27%)	1.50	0.122	Bluegill
172	64-280	(63%)	.008	.000-.016 (95%)	0.98	1.116	Carp
717	476-957	(34%)	.052	.032-.073 (39%)	4.07	0.672	Channel catfish
103	0-250	(143%)	.008	.000-.022 (178%)	0.58	0.729	Freshwater drum
4	0-10	(126%)	.000	.000-.000 (147%)	0.02	0.073	Green sunfish
2	0-6	(172%)	.000	.000-.000 (243%)	0.01	0.039	Gizzard shad
1	0-3	(318%)	.000	.000-.000 (430%)	0.00	0.078	Longear x Bluegill
244	138-350	(44%)	.016	.009-.024 (47%)	1.39	0.784	Largemouth bass
0	0-0	(210%)	.000	.000-.000 (209%)	0.00	0.071	Longear sunfish
3	0-9	(231%)	.000	.000-.000 (226%)	0.02	1.402	Muskellunge
72	0-180	(152%)	.003	.000-.009 (171%)	0.41	3.772	Tiger muskie
3	0-8	(138%)	.000	.000-.000 (156%)	0.02	0.225	Warmouth
2138	1576-2701	(26%)	.151	.113-.188 (25%)	12.15	0.184	White crappie
113	73-153	(35%)	.008	.005-.011 (36%)	0.64	0.200	Yellow bullhead
41	16-67	(61%)	.002	.000-.004 (77%)	0.24	0.114	Yellow bass

