

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

1998 LAKE OF THE WOODS
 25 ACRES
 REGION 3, DISTRICT 10

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.
 Yearperiod 3 coalesced with yearperiod 4.

SAMPLING RATIO: 170/693 = 24.5%

NUMBER OF INTERVIEWS: 1200

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	1542	1107-1977 (28%)	61	44-78 (28%)	9%
	HOLIDAY	1650	1313-1987 (20%)	65	52-79 (20%)	17%
	TOTAL	3191	2650-3733 (17%)	127	105-148 (17%)	13%
SHORE	WEEKDAY	9368	7464-11271 (20%)	372	296-447 (20%)	9%
	HOLIDAY	8414	6687-10142 (21%)	334	265-402 (21%)	17%
	TOTAL	17782	15411-20153 (13%)	706	612-800 (13%)	13%
BOAT & SHORE	WEEKDAY	10909	8980-12838 (18%)	433	356-509 (18%)	9%
	HOLIDAY	10064	8375-11753 (17%)	399	332-466 (17%)	17%
	TOTAL	20974	18542-23406 (12%)	832	736-929 (12%)	13%

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

# HARVESTED	95% CI	#/HOUR	95% CI	#/HA	#/ACRE	SPECIES
8002	4513-11491 (44%)	.276	.134-.418 (52%)	784.68	317.56	All species
		****	NOT RECORDED ****			Bluegill x Green sun
52	9-96 (83%)	.001	.000-.003 (122%)	5.15	2.08	Black bullhead
5098	1724-8473 (66%)	.144	.018-.271 (88%)	499.93	202.32	Bluegill
25	0-66 (161%)	.000	.000-.001 (161%)	2.49	1.01	Brown bullhead
17	0-92 (430%)	.001	.000-.002 (318%)	1.70	0.69	Bluegill x Redear
11	0-39 (245%)	.000	.000-.001 (245%)	1.10	0.44	Carp
208	107-309 (48%)	.010	.004-.015 (63%)	20.42	8.26	Channel catfish
13	0-37 (197%)	.000	.000-.001 (228%)	1.23	0.50	Golden shiner
27	0-104 (278%)	.000	.000-.001 (257%)	2.69	1.09	Green sunfish
75	18-131 (75%)	.002	.000-.005 (119%)	7.34	2.97	Largemouth bass
		****	NOT RECORDED ****			Muskellunge
1803	713-2893 (60%)	.036	.014-.059 (62%)	176.79	71.55	Rainbow trout
51	14-88 (73%)	.001	.000-.003 (133%)	5.01	2.03	Redear sunfish
29	0-71 (146%)	.000	.000-.001 (156%)	2.81	1.14	Tiger muskie
592	157-1026 (73%)	.079	.000-.174 (122%)	58.01	23.48	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
1178	682-1675 (42%)	.044	.023-.064 (46%)	115.54	0.147	All species
		****	NOT RECORDED ****			Bluegill x Green sun
13	0-27 (117%)	.000	.000-.001 (187%)	1.24	0.242	Black bullhead
206	65-346 (68%)	.005	.000-.011 (102%)	20.15	0.040	Bluegill
6	0-16 (188%)	.000	.000-.000 (179%)	0.55	0.226	Brown bullhead
1	0-3 (318%)	.000	.000-.000 (430%)	0.06	0.038	Bluegill x Redear
5	0-18 (245%)	.000	.000-.000 (257%)	0.51	0.469	Carp
79	31-127 (61%)	.004	.001-.008 (86%)	7.77	0.381	Channel catfish
1	0-2 (230%)	.000	.000-.000 (328%)	0.07	0.062	Golden shiner
1	0-4 (278%)	.000	.000-.000 (278%)	0.09	0.036	Green sunfish
81	19-142 (77%)	.004	.000-.010 (129%)	7.91	1.090	Largemouth bass
		****	NOT RECORDED ****			Muskellunge
483	163-803 (66%)	.010	.003-.016 (70%)	47.35	0.268	Rainbow trout
11	2-20 (78%)	.000	.000-.001 (115%)	1.11	0.222	Redear sunfish
169	0-563 (234%)	.003	.000-.010 (236%)	16.54	6.024	Tiger muskie
124	38-211 (70%)	.016	.000-.036 (121%)	12.19	0.210	White crappie

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

LB HARVESTED	95% CI		LB/HOUR	95% CI	LB/ACRE	AVE LB	SPECIES
2598	1503-3693	(42%)	.096	.052-.140 (46%)	103.08	0.325	All species
			****	NOT RECORDED	****		Bluegill x Green sun
28	0-60	(117%)	.001	.000-.002 (187%)	1.10	0.534	Black bullhead
453	144-762	(68%)	.012	.000-.024 (102%)	17.98	0.089	Bluegill
12	0-36	(188%)	.000	.000-.001 (179%)	0.49	0.497	Brown bullhead
1	0-8	(430%)	.000	.000-.000 (430%)	0.06	0.084	Bluegill x Redear
11	0-39	(245%)	.000	.000-.001 (245%)	0.45	1.034	Carp
175	69-281	(61%)	.009	.001-.017 (86%)	6.93	0.840	Channel catfish
2	0-5	(230%)	.000	.000-.000 (328%)	0.06	0.136	Golden shiner
2	0-8	(278%)	.000	.000-.000 (278%)	0.08	0.078	Green sunfish
178	41-314	(77%)	.009	.000-.022 (129%)	7.06	2.403	Largemouth bass
			****	NOT RECORDED	****		Muskellunge
1065	359-1771	(66%)	.021	.006-.036 (70%)	42.24	0.591	Rainbow trout
25	5-44	(78%)	.001	.000-.001 (115%)	0.99	0.488	Redear sunfish
372	0-1241	(234%)	.006	.000-.021 (236%)	14.76	13.281	Tiger muskie
274	83-465	(70%)	.036	.000-.080 (121%)	10.87	0.464	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
27212	17851-36572 (34%)	1.054	.765-1.344 (27%)	2668.24	1079.82	All species
116	0-398 (245%)	.008	.000-.027 (236%)	11.33	4.58	Bluegill x Green sun
147	63-231 (57%)	.007	.001-.012 (81%)	14.41	5.83	Black bullhead
20670	11393-29948 (45%)	.729	.459-.999 (37%)	2026.83	820.25	Bluegill
43	0-86 (100%)	.001	.000-.002 (93%)	4.22	1.71	Brown bullhead
17	0-92 (430%)	.001	.000-.002 (318%)	1.70	0.69	Bluegill x Redear
13	0-41 (215%)	.000	.000-.001 (159%)	1.26	0.51	Carp
490	280-700 (43%)	.020	.011-.029 (44%)	48.03	19.44	Channel catfish
13	0-37 (197%)	.000	.000-.001 (228%)	1.23	0.50	Golden shiner
68	0-147 (115%)	.001	.000-.003 (109%)	6.70	2.71	Green sunfish
2000	1403-2597 (30%)	.110	.059-.162 (46%)	196.12	79.37	Largemouth bass
144	18-270 (87%)	.007	.002-.012 (68%)	14.13	5.72	Muskellunge
1999	705-3293 (65%)	.039	.016-.061 (59%)	195.99	79.32	Rainbow trout
130	0-363 (180%)	.003	.000-.008 (151%)	12.72	5.15	Redear sunfish
94	28-159 (70%)	.001	.000-.002 (81%)	9.17	3.71	Tiger muskie
1269	492-2045 (61%)	.127	.000-.262 (107%)	124.40	50.34	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
3457	2603-4310 (25%)	.157	.111-.202 (29%)	338.93	0.127	All species
6	0-21 (245%)	.000	.000-.001 (236%)	0.60	0.053	Bluegill x Green sun
60	14-106 (76%)	.003	.000-.006 (85%)	5.88	0.411	Black bullhead
662	368-957 (44%)	.023	.014-.032 (39%)	64.94	0.032	Bluegill
8	0-19 (132%)	.000	.000-.001 (103%)	0.80	0.191	Brown bullhead
1	0-3 (318%)	.000	.000-.000 (430%)	0.06	0.038	Bluegill x Redear
15	0-41 (175%)	.001	.000-.004 (234%)	1.46	1.242	Carp
162	81-242 (50%)	.007	.003-.011 (55%)	15.85	0.331	Channel catfish
1	0-2 (230%)	.000	.000-.000 (328%)	0.07	0.062	Golden shiner
2	0-5 (130%)	.000	.000-.000 (124%)	0.21	0.032	Green sunfish
1388	751-2025 (46%)	.076	.034-.118 (55%)	136.08	0.694	Largemouth bass
219	0-597 (173%)	.012	.000-.023 (99%)	21.47	1.521	Muskellunge
536	179-893 (67%)	.010	.003-.017 (66%)	52.55	0.268	Rainbow trout
21	0-46 (119%)	.001	.000-.001 (109%)	2.05	0.162	Redear sunfish
211	0-598 (184%)	.003	.000-.010 (193%)	20.66	2.265	Tiger muskie
166	71-261 (57%)	.020	.000-.042 (109%)	16.23	0.131	White crappie

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

LB CAUGHT	95% CI		LB/HOUR	95% CI	LB/ACRE	AVE LB	SPECIES
7620	5738-9503	(25%)	.346	.246-.446 (29%)	302.40	0.280	All species
14	0-46	(236%)	.001	.000-.003 (245%)	0.54	0.118	Bluegill x Green sun
132	32-233	(76%)	.007	.001-.012 (85%)	5.25	0.906	Black bullhead
1460	811-2109	(44%)	.050	.030-.070 (39%)	57.94	0.071	Bluegill
18	0-42	(132%)	.001	.000-.001 (103%)	0.72	0.420	Brown bullhead
1	0-8	(430%)	.000	.000-.000 (430%)	0.06	0.084	Bluegill x Redear
33	0-90	(175%)	.003	.000-.010 (234%)	1.30	2.737	Carp
356	179-534	(50%)	.016	.007-.024 (55%)	14.14	0.729	Channel catfish
2	0-5	(230%)	.000	.000-.000 (328%)	0.06	0.136	Golden shiner
5	0-11	(130%)	.000	.000-.000 (124%)	0.19	0.070	Green sunfish
3060	1656-4463	(46%)	.168	.076-.261 (55%)	121.41	1.530	Largemouth bass
483	0-1316	(173%)	.025	.000-.051 (99%)	19.16	3.353	Muskellunge
1182	394-1969	(67%)	.022	.008-.037 (66%)	46.89	0.591	Rainbow trout
46	0-101	(119%)	.001	.000-.002 (109%)	1.83	0.357	Redear sunfish
464	0-1317	(184%)	.008	.000-.022 (193%)	18.43	4.994	Tiger muskie
365	156-574	(57%)	.044	.000-.092 (109%)	14.48	0.288	White crappie

