

ILLINOIS NATURAL HISTORY SURVEY  
 CENTER FOR AQUATIC ECOLOGY  
 2004 CREEL SURVEY RESULTS

2004 ROUND LAKE  
 227 ACRES  
 REGION 2, DISTRICT 7

STRATIFICATION SUMMARY:

Day creel only.  
 Results cover 03/15/2004 through 10/31/2004  
 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: 297/693 = 42.9%

NUMBER OF INTERVIEWS: 950

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	2474	2026-2922 ( 18%)	11	9-13 ( 18%)	17%
	HOLIDAY	2383	1933-2834 ( 19%)	10	9-12 ( 19%)	51%
	TOTAL	4857	4242-5473 ( 13%)	21	19-24 ( 13%)	34%
SHORE	WEEKDAY	1562	1198-1927 ( 23%)	7	5-8 ( 23%)	16%
	HOLIDAY	1933	1507-2359 ( 22%)	9	7-10 ( 22%)	30%
	TOTAL	3495	2935-4056 ( 16%)	15	13-18 ( 16%)	24%
BOAT & SHORE	WEEKDAY	4036	3459-4613 ( 14%)	18	15-20 ( 14%)	17%
	HOLIDAY	4316	3717-4916 ( 14%)	19	16-22 ( 14%)	42%
	TOTAL	8353	7520-9185 ( 10%)	37	33-40 ( 10%)	30%

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

# HARVESTED	95% CI	#/HOUR	95% CI	#/HA	#/ACRE	SPECIES
1320	871-1770 ( 34%)	.092	.060-.125 ( 35%)	14.37	5.82	All species
2	0-9 (318%)	.000	.000-.000 (318%)	0.02	0.01	Black bullhead
150	15-285 ( 90%)	.014	.000-.029 (104%)	1.63	0.66	Black crappie
734	417-1052 ( 43%)	.045	.025-.064 ( 43%)	7.99	3.23	Bluegill
26	0-53 (100%)	.007	.000-.019 (178%)	0.29	0.12	Carp
15	0-36 (140%)	.001	.000-.001 (129%)	0.16	0.07	Channel catfish
5	0-16 (208%)	.001	.000-.002 (207%)	0.06	0.02	Golden shiner
70	25-115 ( 64%)	.005	.001-.008 ( 73%)	0.76	0.31	Largemouth bass
		****	NOT RECORDED ****			Northern pike
100	8-191 ( 92%)	.007	.000-.015 (107%)	1.08	0.44	Pumpkinseed
		****	NOT RECORDED ****			Rock bass
		****	NOT RECORDED ****			Smallmouth bass
1	0-4 (231%)	.001	.000-.002 (226%)	0.01	0.00	Striped bass
2	0-9 (318%)	.000	.000-.001 (318%)	0.02	0.01	Walleye
15	0-29 ( 99%)	.001	.000-.001 ( 96%)	0.16	0.06	Warmouth
		****	NOT RECORDED ****			White bass
		****	NOT RECORDED ****			Yellow bullhead
191	64-318 ( 66%)	.010	.002-.018 ( 77%)	2.08	0.84	Yellow perch
9	0-32 (236%)	.002	.000-.007 (236%)	0.10	0.04	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
167	109-225 ( 35%)	.018	.004-.032 ( 76%)	1.82	0.127	All species
0	0-1 (430%)	.000	.000-.000 (318%)	0.00	0.074	Black bullhead
15	1-28 ( 90%)	.002	.000-.003 (114%)	0.16	0.099	Black crappie
50	28-73 ( 45%)	.003	.002-.005 ( 47%)	0.55	0.069	Bluegill
21	0-45 (115%)	.007	.000-.020 (204%)	0.23	0.798	Carp
16	0-42 (163%)	.001	.000-.001 (144%)	0.17	1.068	Channel catfish
1	0-2 (207%)	.000	.000-.000 (208%)	0.01	0.099	Golden shiner
42	16-68 ( 62%)	.004	.001-.007 ( 84%)	0.46	0.602	Largemouth bass
		****	NOT RECORDED ****			Northern pike
6	0-11 (100%)	.000	.000-.001 (109%)	0.06	0.055	Pumpkinseed
		****	NOT RECORDED ****			Rock bass
		****	NOT RECORDED ****			Smallmouth bass
0	0-0 (226%)	.000	.000-.000 (226%)	0.00	0.130	Striped bass
6	0-27 (318%)	.001	.000-.003 (278%)	0.07	2.886	Walleye
1	0-2 (109%)	.000	.000-.000 (109%)	0.01	0.078	Warmouth
		****	NOT RECORDED ****			White bass
		****	NOT RECORDED ****			Yellow bullhead
8	3-13 ( 61%)	.001	.000-.001 ( 93%)	0.09	0.043	Yellow perch
1	0-2 (245%)	.000	.000-.000 (236%)	0.01	0.068	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
368	240-496	( 35%)	.040	.010-.070 ( 76%)	1.62	0.279	All species
0	0-2	(430%)	.000	.000-.000 (318%)	0.00	0.162	Black bullhead
33	3-62	( 90%)	.004	.000-.008 (114%)	0.14	0.218	Black crappie
111	62-161	( 45%)	.007	.004-.011 ( 47%)	0.49	0.152	Bluegill
46	0-100	(115%)	.015	.000-.045 (204%)	0.20	1.760	Carp
35	0-92	(163%)	.001	.000-.003 (144%)	0.15	2.353	Channel catfish
1	0-3	(208%)	.000	.000-.000 (207%)	0.00	0.218	Golden shiner
93	36-150	( 62%)	.008	.001-.015 ( 84%)	0.41	1.326	Largemouth bass
			****	NOT RECORDED ****			Northern pike
12	0-24	(100%)	.001	.000-.002 (109%)	0.05	0.122	Pumpkinseed
			****	NOT RECORDED ****			Rock bass
			****	NOT RECORDED ****			Smallmouth bass
0	0-1	(231%)	.000	.000-.001 (231%)	0.00	0.286	Striped bass
14	0-59	(318%)	.002	.000-.008 (318%)	0.06	6.362	Walleye
2	0-5	(109%)	.000	.000-.000 (109%)	0.01	0.171	Warmouth
			****	NOT RECORDED ****			White bass
			****	NOT RECORDED ****			Yellow bullhead
18	7-29	( 61%)	.001	.000-.002 ( 93%)	0.08	0.094	Yellow perch
1	0-5	(245%)	.000	.000-.001 (245%)	0.01	0.151	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
8935	6935-10936 ( 22%)	.668	.480-.856 ( 28%)	97.27	39.36	All species
2	0-9 (318%)	.000	.000-.000 (318%)	0.02	0.01	Black bullhead
357	169-544 ( 53%)	.029	.011-.046 ( 61%)	3.88	1.57	Black crappie
5741	3928-7553 ( 32%)	.417	.240-.594 ( 42%)	62.49	25.29	Bluegill
39	10-68 ( 74%)	.008	.000-.020 (155%)	0.43	0.17	Carp
34	9-59 ( 73%)	.002	.000-.003 ( 85%)	0.37	0.15	Channel catfish
5	0-16 (208%)	.001	.000-.002 (207%)	0.06	0.02	Golden shiner
1234	1007-1462 ( 18%)	.097	.072-.121 ( 25%)	13.44	5.44	Largemouth bass
4	0-9 (126%)	.000	.000-.001 (151%)	0.04	0.02	Northern pike
469	234-705 ( 50%)	.042	.016-.069 ( 63%)	5.11	2.07	Pumpkinseed
6	0-15 (159%)	.000	.000-.001 (196%)	0.06	0.02	Rock bass
25	0-66 (161%)	.004	.000-.012 (200%)	0.28	0.11	Smallmouth bass
1	0-4 (231%)	.001	.000-.002 (226%)	0.01	0.00	Striped bass
2	0-9 (318%)	.000	.000-.001 (318%)	0.02	0.01	Walleye
52	10-94 ( 80%)	.003	.000-.007 (111%)	0.57	0.23	Warmouth
2	0-7 (318%)	.000	.000-.000 (318%)	0.02	0.01	White bass
13	1-24 ( 93%)	.001	.000-.002 (104%)	0.14	0.06	Yellow bullhead
934	657-1211 ( 30%)	.060	.036-.084 ( 39%)	10.17	4.12	Yellow perch
15	0-38 (154%)	.002	.000-.007 (204%)	0.16	0.07	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
1258	1038-1477 ( 17%)	.099	.075-.123 ( 25%)	13.69	0.141	All species
0	0-1 (430%)	.000	.000-.000 (318%)	0.00	0.074	Black bullhead
30	13-48 ( 57%)	.003	.001-.005 ( 76%)	0.33	0.085	Black crappie
357	227-487 ( 36%)	.026	.013-.039 ( 51%)	3.89	0.062	Bluegill
33	6-59 ( 80%)	.008	.000-.021 (180%)	0.36	0.834	Carp
20	0-46 (132%)	.001	.000-.002 (117%)	0.22	0.586	Channel catfish
1	0-2 (207%)	.000	.000-.000 (208%)	0.01	0.099	Golden shiner
730	569-890 ( 22%)	.054	.035-.073 ( 35%)	7.94	0.591	Largemouth bass
7	0-17 (145%)	.001	.000-.002 (148%)	0.08	1.774	Northern pike
22	11-32 ( 47%)	.002	.001-.004 ( 75%)	0.23	0.046	Pumpkinseed
0	0-1 (159%)	.000	.000-.000 (196%)	0.00	0.063	Rock bass
5	0-14 (177%)	.001	.000-.003 (210%)	0.06	0.205	Smallmouth bass
0	0-0 (226%)	.000	.000-.000 (226%)	0.00	0.130	Striped bass
6	0-27 (318%)	.001	.000-.003 (278%)	0.07	2.886	Walleye
4	1-6 ( 78%)	.000	.000-.000 (103%)	0.04	0.069	Warmouth
0	0-1 (430%)	.000	.000-.000 (318%)	0.00	0.148	White bass
2	0-5 (115%)	.000	.000-.000 (123%)	0.02	0.172	Yellow bullhead
39	27-52 ( 32%)	.002	.002-.003 ( 35%)	0.43	0.042	Yellow perch
1	0-3 (124%)	.000	.000-.001 (175%)	0.02	0.099	Yellow bass

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

LB CAUGHT	95% CI		LB/HOUR	95% CI	LB/ACRE	AVE LB	SPECIES
2772	2288-3257	( 17%)	.218	.164-.272 ( 25%)	12.21	0.310	All species
0	0-2	(430%)	.000	.000-.000 (318%)	0.00	0.162	Black bullhead
67	29-105	( 57%)	.006	.001-.010 ( 76%)	0.29	0.187	Black crappie
787	500-1075	( 36%)	.057	.028-.087 ( 51%)	3.47	0.137	Bluegill
72	14-130	( 80%)	.017	.000-.047 (180%)	0.32	1.839	Carp
44	0-101	(132%)	.002	.000-.003 (117%)	0.19	1.292	Channel catfish
1	0-3	(208%)	.000	.000-.000 (207%)	0.00	0.218	Golden shiner
1608	1254-1963	( 22%)	.119	.077-.161 ( 35%)	7.09	1.303	Largemouth bass
16	0-38	(145%)	.002	.000-.004 (148%)	0.07	3.912	Northern pike
48	25-70	( 47%)	.005	.001-.008 ( 75%)	0.21	0.101	Pumpkinseed
1	0-2	(159%)	.000	.000-.000 (196%)	0.00	0.140	Rock bass
11	0-32	(177%)	.002	.000-.006 (210%)	0.05	0.451	Smallmouth bass
0	0-1	(231%)	.000	.000-.001 (231%)	0.00	0.286	Striped bass
14	0-59	(318%)	.002	.000-.008 (318%)	0.06	6.362	Walleye
8	2-14	( 78%)	.000	.000-.001 (103%)	0.04	0.152	Warmouth
1	0-3	(430%)	.000	.000-.000 (430%)	0.00	0.327	White bass
5	0-10	(115%)	.000	.000-.001 (123%)	0.02	0.378	Yellow bullhead
86	58-114	( 32%)	.005	.003-.007 ( 35%)	0.38	0.092	Yellow perch
3	0-7	(124%)	.000	.000-.001 (175%)	0.01	0.218	Yellow bass

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

	MEAN	95% CI		MIN	MAX	#SAMPLES
HOURS PER COMPLETED TRIP*						
BOAT	3.1	2.9-3.4	( 8%)	0.5	9.1	292
SHORE	0.8	0.7-0.9	( 12%)	0.3	3.5	110
BOAT & SHORE	2.5	2.3-2.7	( 8%)	0.3	9.1	402
MILES TRAVELED	4.1	3.5-4.7	( 15%)	1	65	779
SUCCESS RATING (1-10)	5.8	5.6-6.0	( 3%)	1	10	645

\*139 samples were from split interviews of completed trips.  
49.6% of all 810 interviews were completed trips.

ILLEGAL HARVEST: Clerk noted 1 out of 810 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	198	142	33	8	2					
SHORE INTERVIEWS	212	131	54	21	3	2		2		2

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

396 ( 48.9%)	ANY	All species
5 ( 0.6%)	BLC	Black crappie
15 ( 1.9%)	BLG	Bluegill
31 ( 3.8%)	CAP	Carp
2 ( 0.2%)	CCF	Channel catfish
359 ( 44.3%)	LMB	Largemouth bass
1 ( 0.1%)	NOP	Northern pike
1 ( 0.1%)	YEP	Yellow perch



