

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

2004 WALTON PARK
 30 ACRES
 REGION 4, DISTRICT 15

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: 286/693 = 41.3%

NUMBER OF INTERVIEWS: 628

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	430	245-615 (43%)	14	8-21 (43%)	15%
	HOLIDAY	561	418-704 (26%)	19	14-24 (26%)	40%
	TOTAL	991	757-1225 (24%)	33	25-41 (24%)	30%
SHORE	WEEKDAY	3087	2501-3674 (19%)	104	84-124 (19%)	14%
	HOLIDAY	2482	2042-2921 (18%)	84	69-98 (18%)	27%
	TOTAL	5569	4836-6302 (13%)	188	163-212 (13%)	20%
BOAT & SHORE	WEEKDAY	3517	2902-4132 (17%)	118	98-139 (17%)	14%
	HOLIDAY	3042	2580-3505 (15%)	102	87-118 (15%)	29%
	TOTAL	6560	5790-7329 (12%)	221	195-247 (12%)	21%

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

# HARVESTED	95% CI	#/HOUR	95% CI	#/HA	#/ACRE	SPECIES
1147	769-1524 (33%)	.102	.063-.140 (38%)	95.40	38.61	All species
5	0-18 (220%)	.000	.000-.000 (220%)	0.46	0.18	Bluegill x Green su
17	0-47 (177%)	.001	.000-.002 (215%)	1.40	0.57	Black bullhead
22	0-62 (185%)	.002	.000-.005 (171%)	1.81	0.73	Bluegill
9	0-27 (187%)	.003	.000-.009 (229%)	0.77	0.31	Carp
359	230-488 (36%)	.023	.015-.032 (36%)	29.86	12.09	Channel catfish
5	0-13 (154%)	.001	.000-.002 (247%)	0.41	0.17	Green sunfish
		****	NOT RECORDED ****			Gizzard shad
24	2-47 (91%)	.005	.000-.010 (93%)	2.04	0.82	Largemouth bass
		****	NOT RECORDED ****			Redear sunfish
		****	NOT RECORDED ****			Warmouth
695	374-1016 (46%)	.067	.030-.104 (56%)	57.79	23.39	White crappie
10	0-28 (174%)	.000	.000-.001 (200%)	0.86	0.35	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
380	261-499 (31%)	.034	.023-.046 (34%)	31.61	0.331	All species
0	0-1 (223%)	.000	.000-.000 (220%)	0.02	0.036	Bluegill x Green su
4	0-12 (209%)	.000	.000-.001 (229%)	0.32	0.227	Black bullhead
1	0-3 (209%)	.000	.000-.000 (162%)	0.08	0.044	Bluegill
6	0-22 (253%)	.001	.000-.004 (212%)	0.52	0.673	Carp
166	104-227 (37%)	.012	.007-.016 (40%)	13.80	0.462	Channel catfish
0	0-1 (183%)	.000	.000-.000 (264%)	0.04	0.100	Green sunfish
		****	NOT RECORDED ****			Gizzard shad
19	0-38 (107%)	.004	.000-.007 (94%)	1.54	0.758	Largemouth bass
		****	NOT RECORDED ****			Redear sunfish
		****	NOT RECORDED ****			Warmouth
181	92-270 (49%)	.017	.007-.027 (58%)	15.03	0.260	White crappie
3	0-8 (151%)	.000	.000-.000 (172%)	0.26	0.305	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
838	575-1100 (31%)	.076	.050-.101 (34%)	28.20	0.730	All species
0	0-1 (223%)	.000	.000-.000 (223%)	0.01	0.079	Bluegill x Green su
8	0-26 (209%)	.000	.000-.001 (229%)	0.28	0.501	Black bullhead
2	0-6 (209%)	.000	.000-.000 (162%)	0.07	0.096	Bluegill
14	0-48 (253%)	.003	.000-.009 (212%)	0.46	1.484	Carp
366	230-501 (37%)	.026	.015-.036 (40%)	12.31	1.019	Channel catfish
1	0-3 (183%)	.000	.000-.001 (264%)	0.04	0.219	Green sunfish
		****	NOT RECORDED ****			Gizzard shad
41	0-85 (107%)	.008	.000-.015 (94%)	1.38	1.671	Largemouth bass
		****	NOT RECORDED ****			Redear sunfish
		****	NOT RECORDED ****			Warmouth
398	202-594 (49%)	.038	.016-.060 (58%)	13.41	0.573	White crappie
7	0-17 (151%)	.000	.000-.000 (172%)	0.23	0.673	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
11177	8824-13530 (21%)		1.032	.754-1.310 (27%)	929.92	376.33	All species
289	12-567 (96%)		.011	.002-.020 (80%)	24.07	9.74	Bluegill x Green su
169	40-298 (76%)		.004	.002-.007 (62%)	14.06	5.69	Black bullhead
3632	2470-4793 (32%)		.185	.120-.251 (35%)	302.14	122.27	Bluegill
28	0-57 (106%)		.004	.000-.011 (148%)	2.30	0.93	Carp
2320	1747-2894 (25%)		.175	.116-.234 (34%)	193.05	78.13	Channel catfish
29	6-52 (80%)		.002	.000-.003 (92%)	2.39	0.97	Green sunfish
1	0-4 (318%)		.000	.000-.001 (318%)	0.08	0.03	Gizzard shad
1700	1137-2264 (33%)		.330	.134-.525 (59%)	141.47	57.25	Largemouth bass
1	0-5 (318%)		.000	.000-.000 (430%)	0.09	0.04	Redear sunfish
4	0-15 (236%)		.000	.000-.001 (245%)	0.37	0.15	Warmouth
2769	1404-4134 (49%)		.304	.149-.459 (51%)	230.38	93.23	White crappie
235	50-419 (79%)		.016	.006-.027 (65%)	19.52	7.90	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
1468	1159-1778 (21%)		.167	.094-.240 (44%)	122.15	0.131	All species
17	0-42 (145%)		.001	.000-.001 (102%)	1.41	0.059	Bluegill x Green su
32	4-59 (87%)		.001	.000-.001 (79%)	2.63	0.187	Black bullhead
84	55-112 (34%)		.004	.003-.005 (36%)	6.98	0.023	Bluegill
20	0-43 (114%)		.003	.000-.005 (116%)	1.69	0.734	Carp
375	280-469 (25%)		.026	.018-.034 (30%)	31.17	0.161	Channel catfish
1	0-2 (101%)		.000	.000-.000 (199%)	0.09	0.037	Green sunfish
0	0-0 (430%)		.000	.000-.000 (430%)	0.00	0.002	Gizzard shad
571	370-772 (35%)		.100	.028-.172 (72%)	47.50	0.336	Largemouth bass
0	0-0 (430%)		.000	.000-.000 (318%)	0.00	0.022	Redear sunfish
0	0-0 (245%)		.000	.000-.000 (236%)	0.01	0.029	Warmouth
339	192-487 (44%)		.032	.018-.045 (43%)	28.21	0.122	White crappie
30	9-51 (71%)		.002	.001-.003 (71%)	2.47	0.126	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
3237	2554-3919	(21%)	.369	.207-.530 (44%)	108.98	0.290	All species
37	0-92	(145%)	.001	.000-.002 (102%)	1.26	0.129	Bluegill x Green su
70	9-130	(87%)	.002	.000-.003 (79%)	2.34	0.412	Black bullhead
185	122-248	(34%)	.009	.006-.012 (36%)	6.23	0.051	Bluegill
45	0-95	(114%)	.006	.000-.012 (116%)	1.51	1.618	Carp
826	618-1034	(25%)	.057	.040-.074 (30%)	27.81	0.356	Channel catfish
2	0-5	(101%)	.000	.000-.001 (199%)	0.08	0.082	Green sunfish
0	0-0	(318%)	.000	.000-.000 (430%)	0.00	0.004	Gizzard shad
1259	815-1702	(35%)	.220	.061-.379 (72%)	42.38	0.740	Largemouth bass
0	0-0	(430%)	.000	.000-.000 (430%)	0.00	0.048	Redear sunfish
0	0-1	(245%)	.000	.000-.000 (236%)	0.01	0.065	Warmouth
747	422-1073	(44%)	.070	.040-.100 (43%)	25.17	0.270	White crappie
65	19-112	(71%)	.004	.001-.008 (71%)	2.20	0.279	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	2.4	2.0-2.8	(18%)	0.4	6.0	45
SHORE	1.0	0.8-1.2	(16%)	0.1	3.6	92
BOAT & SHORE	1.5	1.3-1.7	(14%)	0.1	6.0	137
MILES TRAVELED	14.4	7.7-21.1	(47%)	1	1500	537
SUCCESS RATING (1-10)	4.2	3.9-4.5	(6%)	1	10	537

*33 samples were from split interviews of completed trips.
 23.0% of all 595 interviews were completed trips.

ILLEGAL HARVEST: Clerk noted 5 out of 595 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	43	38	2	2						
SHORE INTERVIEWS	148	200	85	41	26	7		1	2	

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

262 (44.0%)	ANY	All species
19 (3.2%)	BLG	Bluegill
147 (24.7%)	CCF	Channel catfish
2 (0.3%)	CRP	Crappie spp.
116 (19.5%)	LMB	Largemouth bass
49 (8.2%)	WHC	White crappie

