

ILLINOIS NATURAL HISTORY SURVEY
 CENTER FOR AQUATIC ECOLOGY
 2002 CREEL SURVEY RESULTS

2002 FOX RIVER
SILVER SPRINGS
 15 ACRES
 REGION 2, DISTRICT 9

STRATIFICATION SUMMARY:

Day creel only.
 Results cover 03/15/2002 through 10/31/2002
 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: 165/693 = 23.8%

NUMBER OF INTERVIEWS: 298

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	1303	687-1918 (47%)	87	46-128 (47%)	4%
	HOLIDAY	1608	1080-2135 (33%)	107	72-142 (33%)	15%
	TOTAL	2910	2139-3681 (26%)	194	143-245 (26%)	10%
SHORE	WEEKDAY	2648	1622-3674 (39%)	177	108-245 (39%)	4%
	HOLIDAY	5983	4814-7152 (20%)	399	321-477 (20%)	11%
	TOTAL	8631	7152-10110 (17%)	575	477-674 (17%)	9%
BOAT & SHORE	WEEKDAY	3950	2830-5071 (28%)	263	189-338 (28%)	4%
	HOLIDAY	7591	6341-8841 (16%)	506	423-589 (16%)	12%
	TOTAL	11541	9931-13151 (14%)	769	662-877 (14%)	9%

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

# HARVESTED	95% CI		#/HOUR	95% CI	#/HA	#/ACRE	SPECIES
1138	728-1548	(36%)	.047	.023-.072 (52%)	187.41	75.84	All species
10	0-132	(1271%)	.000	.000-.002 (1271%)	1.59	0.64	Bluegill
167	60-274	(64%)	.005	.001-.008 (72%)	27.57	11.16	Carp
518	205-831	(60%)	.029	.005-.053 (83%)	85.30	34.52	Channel catfish
30	0-61	(106%)	.001	.000-.002 (111%)	4.90	1.98	Flathead catfish
344	0-738	(115%)	.009	.002-.016 (77%)	56.64	22.92	Freshwater drum
9	0-123	(1271%)	.001	.001-.001 (0%)	1.48	0.60	Largemouth bass
			****	NOT RECORDED ****			Northern pike
11	0-45	(318%)	.000	.000-.001 (278%)	1.76	0.71	Shorthead redhorse
			****	NOT RECORDED ****			Smallmouth bass
6	0-18	(218%)	.000	.000-.000 (220%)	0.92	0.37	Walleye
			****	NOT RECORDED ****			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
528	302-754	(43%)	.022	.009-.035 (59%)	86.93	0.464	All species
0	0-3	(1271%)	.000	.000-.000 (1271%)	0.03	0.021	Bluegill
130	31-229	(76%)	.004	.000-.007 (91%)	21.47	0.779	Carp
225	67-383	(70%)	.014	.001-.027 (89%)	37.00	0.434	Channel catfish
40	0-106	(164%)	.001	.000-.003 (173%)	6.60	1.347	Flathead catfish
121	0-850	(604%)	.003	.000-.006 (110%)	19.91	0.352	Freshwater drum
3	3-3	(0%)	.000	.000-.003 (1271%)	0.52	0.351	Largemouth bass
			****	NOT RECORDED ****			Northern pike
4	0-15	(278%)	.000	.000-.000 (318%)	0.65	0.370	Shorthead redhorse
			****	NOT RECORDED ****			Smallmouth bass
5	0-15	(218%)	.000	.000-.000 (220%)	0.75	0.818	Walleye
			****	NOT RECORDED ****			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
1163	665-1662	(43%)	.048	.020-.077 (59%)	77.56	1.023	All species
0	0-6	(1271%)	.000	.000-.000 (1271%)	0.03	0.046	Bluegill
287	69-506	(76%)	.008	.001-.015 (91%)	19.15	1.716	Carp
495	147-843	(70%)	.031	.003-.059 (89%)	33.01	0.956	Channel catfish
88	0-233	(164%)	.002	.000-.006 (173%)	5.89	2.969	Flathead catfish
266	0-1875	(604%)	.007	.000-.014 (110%)	17.76	0.775	Freshwater drum
7	7-7	(0%)	.000	.000-.000 (0%)	0.46	0.773	Largemouth bass
			****	NOT RECORDED ****			Northern pike
9	0-36	(318%)	.000	.000-.001 (278%)	0.58	0.816	Shorthead redhorse
			****	NOT RECORDED ****			Smallmouth bass
10	0-32	(220%)	.000	.000-.000 (218%)	0.67	1.803	Walleye
			****	NOT RECORDED ****			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
6038	0-13947	(131%)	.281	.086-.476 (69%)	994.60	402.51	All species
83	0-269	(226%)	.005	.000-.014 (167%)	13.61	5.51	Bluegill
396	68-724	(83%)	.022	.000-.163 (646%)	65.30	26.43	Carp
3958	0-11284	(185%)	.179	.000-.370 (106%)	652.09	263.90	Channel catfish
67	8-126	(88%)	.003	.000-.006 (130%)	11.06	4.48	Flathead catfish
776	372-1181	(52%)	.027	.011-.044 (61%)	127.90	51.76	Freshwater drum
18	0-73	(304%)	.001	.000-.010 (908%)	2.97	1.20	Largemouth bass
10	0-35	(257%)	.000	.000-.001 (278%)	1.62	0.65	Northern pike
107	0-1091	(924%)	.011	.000-.146 (1219%)	17.55	7.10	Shorthead redhorse
376	129-623	(66%)	.022	.005-.039 (76%)	61.89	25.05	Smallmouth bass
150	0-346	(131%)	.006	.000-.016 (165%)	24.69	9.99	Walleye
20	0-274	(1271%)	.000	.000-.000 (0%)	3.30	1.34	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
1308	902-1714	(31%)	.067	.038-.096 (44%)	215.44	0.217	All species
7	0-28	(278%)	.000	.000-.001 (185%)	1.22	0.090	Bluegill
259	116-401	(55%)	.012	.000-.074 (510%)	42.59	0.652	Carp
440	193-687	(56%)	.026	.010-.043 (63%)	72.52	0.111	Channel catfish
102	1-202	(99%)	.004	.000-.015 (240%)	16.72	1.512	Flathead catfish
266	56-476	(79%)	.010	.002-.017 (76%)	43.88	0.343	Freshwater drum
7	0-67	(900%)	.000	.000-.004 (903%)	1.10	0.370	Largemouth bass
0	0-0	(257%)	.000	.000-.000 (257%)	0.01	0.006	Northern pike
27	0-294	(980%)	.003	.000-.041 (1228%)	4.49	0.256	Shorthead redhorse
116	32-200	(72%)	.009	.001-.016 (84%)	19.14	0.309	Smallmouth bass
62	0-135	(118%)	.002	.000-.006 (164%)	10.24	0.415	Walleye
21	21-21	(0%)	.000	.000-.002 (1271%)	3.52	1.067	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
2883	1989-3778	(31%)	.148	.084-.213 (44%)	192.21	0.478	All species
16	0-62	(278%)	.001	.000-.002 (185%)	1.09	0.198	Bluegill
570	256-884	(55%)	.027	.000-.164 (510%)	38.00	1.438	Carp
971	426-1515	(56%)	.058	.021-.094 (63%)	64.71	0.245	Channel catfish
224	3-445	(99%)	.009	.000-.032 (240%)	14.92	3.333	Flathead catfish
587	124-1050	(79%)	.022	.005-.038 (76%)	39.15	0.756	Freshwater drum
15	0-147	(900%)	.001	.000-.008 (903%)	0.98	0.817	Largemouth bass
0	0-0	(257%)	.000	.000-.000 (257%)	0.01	0.013	Northern pike
60	0-649	(980%)	.007	.000-.089 (1228%)	4.00	0.564	Shorthead redhorse
256	71-442	(72%)	.019	.003-.035 (84%)	17.07	0.682	Smallmouth bass
137	0-298	(118%)	.005	.000-.012 (164%)	9.14	0.915	Walleye
47	47-47	(0%)	.000	.000-.004 (1271%)	3.14	2.352	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	3.3	2.7-3.8 (17%)	0.5	9.7	41
SHORE	2.2	1.9-2.4 (11%)	0.5	7.7	109
BOAT & SHORE	2.5	2.2-2.7 (10%)	0.5	9.7	150
MILES TRAVELED	25.8	23.0-28.6 (11%)	1	120	228
SUCCESS RATING (1-10)	3.3	3.0-3.6 (9%)	1	10	228

*48 samples were from split interviews of completed trips.
59.8% of all 251 interviews were completed trips.

ILLEGAL HARVEST: Clerk noted 0 out of 251 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	13	26	9	1						
SHORE INTERVIEWS	83	79	29	8	2	1				

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

89 (35.5%)	ANY	All species
2 (0.8%)	BLG	Bluegill
2 (0.8%)	BSS	Black bass spp.
9 (3.6%)	CAP	Carp
81 (32.3%)	CAT	Unidentified catfish
4 (1.6%)	CCF	Channel catfish
2 (0.8%)	LMB	Largemouth bass
25 (10.0%)	MUE	Muskellunge
28 (11.2%)	SMB	Smallmouth bass
9 (3.6%)	WAE	Walleye

