

ILLINOIS NATURAL HISTORY SURVEY
 CENTER FOR AQUATIC ECOLOGY
 2001 CREEL SURVEY RESULTS

2001 FOX RIVER
Yorkville Dam
 10 ACRES
 REGION 2, DISTRICT 9

STRATIFICATION SUMMARY:

Day creel only.
 Results cover 04/01/2001 through 10/31/2001
 Year periods stratified.
 Day types (weekday vs. weekend/holiday) stratified.
 Day periods (morning, midday, and afternoon) stratified.

SAMPLING RATIO: 149/642 = 23.2%

NUMBER OF INTERVIEWS: 506

Table 1. Total fishing effort, by fishing mode and day type.

FISHING MODE	DAYTYPE	ANGLER-HOURS	95% CI	HOURS/ACRE	95% CI	% EFF
BOAT & SHORE	WEEKDAY	8245	6547-9943 (21%)	837	665-1009 (21%)	5%
	HOLIDAY	13030	11076-14985 (15%)	1323	1124-1521 (15%)	12%
	TOTAL	21276	18832-23719 (11%)	2160	1912-2408 (11%)	9%

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

# HARVESTED	95% CI		#/HOUR	95% CI	#/HA	#/ACRE	SPECIES
3867	2261-5472	(42%)	.122	.067-.177 (45%)	970.02	392.56	All species
			****	NOT RECORDED	****		Black crappie
22	0-92	(318%)	.001	.000-.008 (430%)	5.52	2.23	Bluegill
190	37-343	(80%)	.003	.001-.005 (71%)	47.73	19.32	Carp
2746	1389-4103	(49%)	.084	.031-.138 (63%)	688.87	278.78	Channel catfish
342	168-517	(51%)	.009	.002-.017 (82%)	85.90	34.76	Flathead catfish
274	38-511	(86%)	.010	.000-.019 (99%)	68.81	27.85	Freshwater drum
			****	NOT RECORDED	****		Largemouth bass
40	0-86	(112%)	.002	.000-.004 (134%)	10.13	4.10	Muskellunge
7	0-28	(318%)	.000	.000-.001 (318%)	1.68	0.68	Northern pike
7	0-23	(257%)	.000	.000-.000 (245%)	1.65	0.67	Shorthead redhorse
180	0-377	(110%)	.008	.000-.023 (201%)	45.07	18.24	Smallmouth bass
58	0-171	(192%)	.005	.000-.024 (389%)	14.66	5.93	Walleye
			****	NOT RECORDED	****		White bass

Table 3. Total fishing harvest and harvest rates, in kilograms.

KG HARVESTED	95% CI		KG/HOUR	95% CI	KG/HA	AVE KG	SPECIES
2166	1315-3016	(39%)	.075	.038-.112 (49%)	543.28	0.560	All species
			****	NOT RECORDED	****		Black crappie
5	0-22	(318%)	.000	.000-.001 (318%)	1.30	0.236	Bluegill
147	16-278	(89%)	.002	.000-.004 (81%)	36.88	0.773	Carp
849	447-1251	(47%)	.030	.005-.055 (82%)	212.92	0.309	Channel catfish
626	0-1327	(112%)	.021	.000-.051 (147%)	156.97	1.827	Flathead catfish
112	15-209	(87%)	.004	.000-.008 (102%)	28.07	0.408	Freshwater drum
			****	NOT RECORDED	****		Largemouth bass
165	0-351	(113%)	.007	.000-.020 (183%)	41.36	4.084	Muskellunge
40	0-168	(318%)	.001	.000-.003 (318%)	10.09	6.021	Northern pike
4	0-13	(257%)	.000	.000-.000 (257%)	0.93	0.564	Shorthead redhorse
142	34-250	(76%)	.005	.000-.012 (137%)	35.66	0.791	Smallmouth bass
76	0-174	(129%)	.005	.000-.022 (355%)	19.09	1.302	Walleye
			****	NOT RECORDED	****		White bass

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

LB HARVESTED	95% CI		LB/HOUR	95% CI	LB/ACRE	AVE LB	SPECIES
4774	2900-6649	(39%)	.166	.084-.248 (49%)	484.72	1.235	All species
			****	NOT RECORDED	****		Black crappie
11	0-61	(430%)	.001	.000-.004 (430%)	1.16	0.520	Bluegill
324	36-612	(89%)	.005	.001-.009 (81%)	32.91	1.704	Carp
1871	984-2758	(47%)	.066	.012-.121 (82%)	189.97	0.681	Channel catfish
1379	0-2926	(112%)	.045	.000-.112 (147%)	140.05	4.029	Flathead catfish
247	32-461	(87%)	.009	.000-.018 (102%)	25.04	0.899	Freshwater drum
			****	NOT RECORDED	****		Largemouth bass
363	0-774	(113%)	.016	.000-.045 (183%)	36.90	9.004	Muskellunge
89	0-470	(430%)	.002	.000-.010 (430%)	9.01	13.274	Northern pike
8	0-29	(257%)	.000	.000-.001 (245%)	0.83	1.244	Shorthead redhorse
313	75-552	(76%)	.011	.000-.027 (137%)	31.81	1.744	Smallmouth bass
168	0-384	(129%)	.011	.000-.048 (355%)	17.03	2.870	Walleye
			****	NOT RECORDED	****		White 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
13308	9595-17022 (28%)	.575	.407-.744 (29%)	3338.60	1351.11	All species
27	0-90 (229%)	.002	.000-.007 (231%)	6.87	2.78	Black crappie
147	0-315 (114%)	.004	.000-.009 (117%)	36.98	14.97	Bluegill
270	113-427 (58%)	.004	.002-.007 (52%)	67.72	27.41	Carp
5094	3453-6735 (32%)	.205	.119-.292 (42%)	1277.84	517.13	Channel catfish
674	357-991 (47%)	.022	.008-.036 (62%)	169.09	68.43	Flathead catfish
1180	175-2185 (85%)	.081	.000-.261 (222%)	295.97	119.78	Freshwater drum
144	0-296 (105%)	.009	.000-.020 (117%)	36.17	14.64	Largemouth bass
121	17-225 (86%)	.005	.000-.011 (114%)	30.24	12.24	Muskellunge
7	0-28 (318%)	.000	.000-.001 (318%)	1.68	0.68	Northern pike
7	0-23 (257%)	.000	.000-.000 (245%)	1.65	0.67	Shorthead redhorse
2199	1272-3125 (42%)	.093	.039-.148 (59%)	551.63	223.24	Smallmouth bass
3217	136-6298 (96%)	.141	.042-.240 (70%)	807.02	326.59	Walleye
222	0-579 (160%)	.007	.000-.018 (143%)	55.75	22.56	White bass

Table 6. Total fishing catch and catch rates, in kilograms.

KG CAUGHT	95% CI	KG/HOUR	95% CI	KG/HA	AVE KG	SPECIES
5717	4470-6964 (22%)	.249	.161-.337 (35%)	1434.20	0.430	All species
13	0-39 (198%)	.001	.000-.003 (197%)	3.24	0.472	Black crappie
8	0-26 (210%)	.000	.000-.001 (269%)	2.07	0.056	Bluegill
197	63-331 (68%)	.003	.001-.005 (62%)	49.42	0.730	Carp
1467	961-1974 (35%)	.060	.032-.087 (46%)	368.10	0.288	Channel catfish
871	153-1588 (82%)	.033	.000-.066 (100%)	218.38	1.291	Flathead catfish
510	0-1037 (103%)	.037	.000-.133 (262%)	127.86	0.432	Freshwater drum
25	0-56 (126%)	.002	.000-.007 (235%)	6.16	0.170	Largemouth bass
435	41-828 (90%)	.020	.000-.045 (122%)	109.06	3.607	Muskellunge
40	0-168 (318%)	.001	.000-.003 (318%)	10.09	6.021	Northern pike
4	0-13 (257%)	.000	.000-.000 (257%)	0.93	0.564	Shorthead redhorse
1480	827-2133 (44%)	.064	.028-.101 (57%)	371.25	0.673	Smallmouth bass
650	98-1202 (85%)	.028	.009-.046 (68%)	163.00	0.202	Walleye
18	0-52 (180%)	.000	.000-.001 (131%)	4.62	0.083	White bass

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

LB CAUGHT	95% CI	LB/HOUR	95% CI	LB/ACRE	AVE LB	SPECIES
12604	9855-15353 (22%)	.549	.355-.743 (35%)	1279.59	0.947	All species
28	0-85 (198%)	.002	.000-.006 (197%)	2.89	1.041	Black crappie
18	0-56 (210%)	.001	.000-.003 (269%)	1.85	0.124	Bluegill
434	140-729 (68%)	.006	.002-.010 (62%)	44.09	1.609	Carp
3235	2119-4351 (35%)	.132	.071-.192 (46%)	328.42	0.635	Channel catfish
1919	338-3500 (82%)	.073	.000-.146 (100%)	194.84	2.847	Flathead catfish
1124	0-2286 (103%)	.081	.000-.294 (262%)	114.07	0.952	Freshwater drum
54	0-123 (126%)	.004	.000-.015 (235%)	5.50	0.376	Largemouth bass
958	91-1825 (90%)	.044	.000-.098 (122%)	97.30	7.951	Muskellunge
89	0-470 (430%)	.002	.000-.010 (430%)	9.01	13.274	Northern pike
8	0-29 (257%)	.000	.000-.001 (245%)	0.83	1.244	Shorthead redhorse
3263	1822-4703 (44%)	.142	.062-.222 (57%)	331.23	1.484	Smallmouth bass
1432	216-2649 (85%)	.061	.020-.102 (68%)	145.43	0.445	Walleye
41	0-114 (180%)	.001	.000-.002 (131%)	4.12	0.183	White bass

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

	MEAN	95% CI	MIN	MAX	#SAMPLES
HOURS PER COMPLETED TRIP*					
BOAT	0.0	*** undefined ***	100.0	0.0	0
SHORE	2.6	2.4-2.8 (9%)	0.3	8.9	266
BOAT & SHORE	2.6	2.4-2.8 (9%)	0.3	8.9	266
MILES TRAVELED	28.2	25.9-30.4 (8%)	1	200	414
SUCCESS RATING (1-10)	4.0	3.7-4.3 (7%)	1	10	413

*62 samples were from split interviews of completed trips.
60.0% of all 443 interviews were completed trips.

ILLEGAL HARVEST: Clerk noted 0 out of 443 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										
SHORE INTERVIEWS	207	159	34	29	9	2	2		1	

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

226 (51.0%)	ANY	All species
1 (0.2%)	BLG	Bluegill
5 (1.1%)	BSS	Black bass spp.
2 (0.5%)	CAP	Carp
79 (17.8%)	CAT	Unidentified catfish
6 (1.4%)	CCF	Channel catfish
3 (0.7%)	FCF	Flathead catfish
12 (2.7%)	MUE	Muskellunge
75 (16.9%)	SMB	Smallmouth bass
34 (7.7%)	WAE	Walleye

