

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

2002 FOX RIVER
YORKVILLE DAM
 10 ACRES
 REGION 2, DISTRICT 9

STRATIFICATION SUMMARY:

Day creel only.
 Results cover 03/15/2002 through 10/31/2002
 Year periods stratified.
 Day types (weekday vs. weekend/holiday) stratified.
 Day periods (morning, midday, and afternoon) stratified.

SAMPLING RATIO: 167/693 = 24.1%

NUMBER OF INTERVIEWS: 631

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	10452	8832-12071 (15%)	1061	897-1225 (15%)	6%
	HOLIDAY	15506	13933-17079 (10%)	1574	1415-1734 (10%)	10%
	TOTAL	25958	23800-28116 (8%)	2635	2416-2854 (8%)	8%

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

# HARVESTED	95% CI		#/HOUR	95% CI	#/HA	#/ACRE	SPECIES
8373	5188-11557 (38%)		.163	.102-.224 (37%)	2100.35	850.00	All species
20	0-99 (390%)		.000	.000-.002 (392%)	5.07	2.05	Black crappie
1784	0-3791 (112%)		.031	.003-.060 (90%)	447.65	181.16	Bluegill
211	68-354 (68%)		.011	.000-.027 (138%)	52.92	21.42	Carp
5004	2805-7203 (44%)		.085	.043-.126 (49%)	1255.31	508.02	Channel catfish
235	62-408 (73%)		.004	.001-.007 (78%)	59.02	23.89	Flathead catfish
828	143-1513 (83%)		.019	.003-.034 (83%)	207.69	84.05	Freshwater drum
			****	NOT RECORDED ****			Highfin carpsucker
8	0-34 (318%)		.000	.000-.001 (318%)	2.05	0.83	Largemouth bass
6	0-82 (1271%)		.001	.000-.011 (1271%)	1.51	0.61	Muskellunge
			****	NOT RECORDED ****			Rock bass
84	0-225 (168%)		.002	.000-.006 (263%)	21.12	8.55	Smallmouth bass
122	0-380 (210%)		.009	.000-.100 (1074%)	30.72	12.43	Walleye
			****	NOT RECORDED ****			Warmouth
46	0-97 (110%)		.001	.000-.002 (111%)	11.60	4.69	White bass
			****	NOT RECORDED ****			White crappie
17	0-41 (138%)		.001	.000-.002 (335%)	4.32	1.75	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
2171	1420-2922 (35%)		.048	.029-.067 (40%)	544.68	0.259	All species
3	0-12 (364%)		.000	.000-.000 (367%)	0.67	0.131	Black crappie
130	0-311 (138%)		.002	.000-.004 (114%)	32.72	0.073	Bluegill
177	49-305 (72%)		.006	.000-.012 (95%)	44.43	0.840	Carp
1231	638-1824 (48%)		.021	.011-.031 (47%)	308.88	0.246	Channel catfish
114	0-251 (120%)		.002	.000-.004 (100%)	28.65	0.485	Flathead catfish
352	144-560 (59%)		.007	.002-.013 (76%)	88.31	0.425	Freshwater drum
			****	NOT RECORDED ****			Highfin carpsucker
2	0-8 (278%)		.000	.000-.000 (318%)	0.51	0.248	Largemouth bass
29	29-29 (0%)		.004	.004-.004 (0%)	7.33	4.873	Muskellunge
			****	NOT RECORDED ****			Rock bass
36	0-132 (269%)		.001	.000-.003 (297%)	8.99	0.425	Smallmouth bass
80	0-176 (121%)		.004	.000-.045 (974%)	20.05	0.653	Walleye
			****	NOT RECORDED ****			Warmouth
13	0-27 (110%)		.000	.000-.001 (125%)	3.21	0.277	White bass
			****	NOT RECORDED ****			White crappie
4	0-12 (214%)		.000	.000-.001 (368%)	0.94	0.218	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
4787	3131-6442	(35%)	.106	.064-.148 (40%)	485.96	0.572	All species
6	0-27	(364%)	.000	.000-.001 (367%)	0.59	0.289	Black crappie
288	0-685	(138%)	.004	.000-.009 (114%)	29.19	0.161	Bluegill
390	109-672	(72%)	.013	.001-.026 (95%)	39.64	1.851	Carp
2714	1407-4022	(48%)	.047	.025-.069 (47%)	275.58	0.542	Channel catfish
252	0-553	(120%)	.004	.000-.008 (100%)	25.56	1.070	Flathead catfish
776	317-1235	(59%)	.016	.004-.028 (76%)	78.79	0.937	Freshwater drum
			****	NOT RECORDED ****			Highfin carpsucker
4	0-19	(318%)	.000	.000-.000 (278%)	0.45	0.548	Largemouth bass
64	0-883	(1271%)	.009	.000-.121 (1271%)	6.54	10.742	Muskellunge
			****	NOT RECORDED ****			Rock bass
79	0-291	(269%)	.002	.000-.006 (297%)	8.02	0.938	Smallmouth bass
176	0-389	(121%)	.009	.000-.098 (974%)	17.89	1.439	Walleye
			****	NOT RECORDED ****			Warmouth
28	0-59	(110%)	.001	.000-.002 (125%)	2.87	0.610	White bass
			****	NOT RECORDED ****			White crappie
8	0-26	(214%)	.000	.000-.002 (368%)	0.84	0.482	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
25832	20370-31293	(21%)	.945	.705-1.186	(25%)6480.182	622.49	All species
63	0-137	(116%)	.002	.000-.005	(147%) 15.87	6.42	Black crappie
3544	1419-5669	(60%)	.111	.006-.216	(95%) 889.01	359.78	Bluegill
330	173-488	(48%)	.015	.000-.031	(103%) 82.87	33.54	Carp
10464	6771-14158	(35%)	.250	.168-.332	(33%)2625.091	1062.36	Channel catfish
381	187-574	(51%)	.010	.004-.016	(61%) 95.55	38.67	Flathead catfish
1494	795-2193	(47%)	.044	.027-.061	(39%) 374.88	151.71	Freshwater drum
4	0-15	(278%)	.000	.000-.001	(278%) 1.00	0.41	Highfin carpsucker
721	0-2118	(194%)	.030	.000-.076	(155%) 180.83	73.18	Largemouth bass
12	0-164	(1271%)	.002	.000-.023	(1271%) 3.01	1.22	Muskellunge
15	0-34	(127%)	.000	.000-.001	(129%) 3.77	1.53	Rock bass
4819	3011-6626	(38%)	.232	.148-.316	(36%)1208.79	489.19	Smallmouth bass
3435	1397-5474	(59%)	.219	.000-1.115	(409%) 861.75	348.74	Walleye
28	0-146	(430%)	.005	.000-.028	(430%) 6.90	2.79	Warmouth
438	103-774	(77%)	.023	.000-.062	(177%) 109.91	44.48	White bass
8	0-34	(318%)	.000	.000-.001	(318%) 2.05	0.83	White crappie
57	12-102	(79%)	.002	.000-.005	(171%) 14.26	5.77	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
6413	5177-7650	(19%)	.249	.184-.314	(26%)1608.80	0.248	All species
5	0-14	(169%)	.000	.000-.000	(124%) 1.31	0.083	Black crappie
196	17-375	(91%)	.006	.000-.012	(117%) 49.29	0.055	Bluegill
283	103-463	(64%)	.010	.003-.017	(72%) 71.00	0.857	Carp
2018	1350-2686	(33%)	.045	.030-.061	(35%) 506.30	0.193	Channel catfish
211	65-356	(69%)	.008	.000-.018	(116%) 52.83	0.553	Flathead catfish
627	377-876	(40%)	.022	.008-.036	(63%) 157.28	0.420	Freshwater drum
2	0-7	(318%)	.000	.000-.001	(318%) 0.45	0.444	Highfin carpsucker
80	25-135	(68%)	.007	.000-.063	(805%) 20.16	0.111	Largemouth bass
54	0-742	(1271%)	.007	.000-.102	(1271%) 13.58	4.511	Muskellunge
3	0-8	(165%)	.000	.000-.000	(158%) 0.71	0.188	Rock bass
1926	1233-2619	(36%)	.084	.047-.122	(45%) 483.19	0.400	Smallmouth bass
947	459-1435	(51%)	.056	.000-.295	(427%) 237.58	0.276	Walleye
6	0-33	(430%)	.001	.000-.005	(318%) 1.57	0.228	Warmouth
43	14-71	(66%)	.002	.000-.003	(77%) 10.69	0.097	White bass
1	0-2	(318%)	.000	.000-.000	(318%) 0.14	0.070	White crappie
11	0-24	(123%)	.000	.000-.001	(212%) 2.72	0.191	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
14138	11413-16864	(19%)	.550	.407-.693 (26%)	1435.37	0.547	All species
12	0-31	(169%)	.000	.000-.001 (124%)	1.17	0.182	Black crappie
433	39-828	(91%)	.012	.000-.027 (117%)	43.97	0.122	Bluegill
624	227-1021	(64%)	.022	.006-.038 (72%)	63.34	1.889	Carp
4449	2977-5922	(33%)	.100	.065-.135 (35%)	451.72	0.425	Channel catfish
464	144-785	(69%)	.019	.000-.040 (116%)	47.13	1.219	Flathead catfish
1382	832-1932	(40%)	.048	.018-.078 (63%)	140.33	0.925	Freshwater drum
4	0-15	(278%)	.000	.000-.001 (278%)	0.40	0.979	Highfin carpsucker
177	56-298	(68%)	.015	.000-.138 (805%)	17.98	0.246	Largemouth bass
119	119-119	(0%)	.016	.000-.225 (1271%)	12.12	9.946	Muskellunge
6	0-17	(165%)	.000	.000-.000 (158%)	0.63	0.415	Rock bass
4246	2718-5774	(36%)	.185	.103-.268 (45%)	431.10	0.881	Smallmouth bass
2088	1013-3163	(51%)	.123	.000-.651 (427%)	211.97	0.608	Walleye
14	0-58	(318%)	.003	.000-.011 (318%)	1.40	0.502	Warmouth
94	32-156	(66%)	.004	.001-.007 (77%)	9.54	0.214	White bass
1	0-5	(278%)	.000	.000-.000 (278%)	0.13	0.155	White crappie
24	0-53	(123%)	.001	.000-.003 (212%)	2.43	0.421	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	0.1-4.6 (94%)	0.5	5.3	5
SHORE	2.6	2.4-2.8 (8%)	0.2	12.2	366
BOAT & SHORE	2.6	2.4-2.8 (8%)	0.2	12.2	371
MILES TRAVELED	31.0	24.9-37.2 (20%)	1	1100	480
SUCCESS RATING (1-10)	4.2	3.9-4.4 (6%)	1	10	481

*122 samples were from split interviews of completed trips.
73.6% of all 504 interviews were completed trips.

ILLEGAL HARVEST: Clerk noted 0 out of 504 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	1	4								
SHORE INTERVIEWS	277	129	58	19	8	4	3		1	

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

129 (25.6%)	ANY	All species
14 (2.8%)	BLG	Bluegill
2 (0.4%)	BSS	Black bass spp.
6 (1.2%)	CAP	Carp
140 (27.8%)	CAT	Unidentified catfish
4 (0.8%)	FCF	Flathead catfish
1 (0.2%)	FRD	Freshwater drum
1 (0.2%)	LMB	Largemouth bass
19 (3.8%)	MUE	Muskellunge
110 (21.8%)	SMB	Smallmouth bass
78 (15.5%)	WAE	Walleye

2002 FOX RIVER

DAY CREEL SECTION 1

03/15/2002 - 10/31/2002

Table 11. Number of anglers with a given harvest & release for completed trips

# OF FISH:	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15+
Black crappie																
HARVEST	607	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	605	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Bluegill																
HARVEST	587	7	1	2	9	-	-	-	-	-	-	-	-	-	-	1
RELEASE	554	35	8	5	-	-	-	-	1	1	-	-	1	-	-	2
Carp																
HARVEST	590	15	2	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	594	11	2	-	-	-	-	-	-	-	-	-	-	-	-	-
Channel catfish																
HARVEST	525	36	10	5	8	3	4	4	6	2	1	-	2	-	-	1
RELEASE	491	62	21	11	2	6	3	5	1	-	1	-	1	1	-	2
Flathead catfish																
HARVEST	593	13	-	1	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	600	7	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Freshwater drum																
HARVEST	583	12	5	3	3	-	-	-	-	-	-	-	-	-	1	-
RELEASE	575	26	5	1	-	-	-	-	-	-	-	-	-	-	-	-
Highfin carpsucker																
HARVEST	607	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	606	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Largemouth bass																
HARVEST	606	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	586	17	2	-	1	-	-	-	-	-	1	-	-	-	-	-
Muskellunge																
HARVEST	606	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	606	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Rock bass																
HARVEST	607	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	604	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Smallmouth bass																
HARVEST	603	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	501	44	24	14	3	6	1	3	3	3	2	-	-	3	-	-

