

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

2001 FOX RIVER
Montgomery Dam
15 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: 152/642 = 23.7%

NUMBER OF INTERVIEWS: 1103

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	17771	15576-19967 (12%)	1201	1052-1349 (12%)	6%
	HOLIDAY	14508	12415-16600 (14%)	980	839-1122 (14%)	14%
	TOTAL	32279	29310-35249 (9%)	2181	1980-2382 (9%)	10%

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

# HARVESTED	95% CI		#/HOUR	95% CI	#/HA	#/ACRE	SPECIES
2639	1658-3621	(37%)	.098	.050-.147 (49%)	440.67	178.34	All species
9	0-37	(318%)	.000	.000-.001 (318%)	1.47	0.59	Black crappie
1058	127-1990	(88%)	.047	.000-.095 (103%)	176.70	71.51	Bluegill
4	0-16	(318%)	.000	.000-.000 (278%)	0.63	0.25	Bowfin
243	125-360	(49%)	.007	.002-.013 (72%)	40.50	16.39	Carp
753	450-1055	(40%)	.020	.007-.034 (65%)	125.68	50.86	Channel catfish
140	48-232	(66%)	.005	.000-.010 (115%)	23.37	9.46	Flathead catfish
			****	NOT RECORDED ****			Fathead minnow
280	125-436	(56%)	.010	.000-.066 (584%)	46.79	18.94	Freshwater drum
20	0-105	(430%)	.000	.000-.006 (1271%)	3.30	1.34	Largemouth bass
			****	NOT RECORDED ****			Muskellunge
			****	NOT RECORDED ****			Northern pike
42	0-99	(136%)	.002	.000-.004 (135%)	7.01	2.84	Shorthead redhorse
59	0-141	(138%)	.001	.000-.006 (275%)	9.89	4.00	Smallmouth bass
4	0-19	(318%)	.000	.000-.001 (430%)	0.75	0.30	Walleye
27	0-316	(1048%)	.005	.000-.067 (1257%)	4.59	1.86	White bass
			****	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
1142	630-1654	(45%)	.042	.014-.071 (68%)	190.67	0.433	All species
2	0-8	(278%)	.000	.000-.000 (278%)	0.34	0.232	Black crappie
24	0-52	(116%)	.001	.000-.002 (112%)	4.01	0.023	Bluegill
1	0-3	(278%)	.000	.000-.000 (278%)	0.11	0.181	Bowfin
259	113-405	(56%)	.008	.002-.014 (78%)	43.21	1.067	Carp
364	159-569	(56%)	.009	.000-.019 (106%)	60.76	0.483	Channel catfish
287	0-983	(243%)	.014	.000-.052 (276%)	47.86	2.048	Flathead catfish
			****	NOT RECORDED ****			Fathead minnow
96	0-199	(107%)	.005	.000-.051 (843%)	16.02	0.342	Freshwater drum
24	0-128	(430%)	.001	.000-.008 (1271%)	4.03	1.220	Largemouth bass
			****	NOT RECORDED ****			Muskellunge
			****	NOT RECORDED ****			Northern pike
41	0-101	(149%)	.002	.000-.004 (138%)	6.77	0.966	Shorthead redhorse
27	0-57	(109%)	.001	.000-.001 (123%)	4.53	0.458	Smallmouth bass
5	0-20	(318%)	.000	.000-.001 (318%)	0.80	1.071	Walleye
13	0-171	(1186%)	.003	.000-.038 (1267%)	2.23	0.485	White bass
			****	NOT RECORDED ****			Yellow 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
2518	1389-3647	(45%)	.094	.030-.157 (68%)	170.11	0.954	All species
4	0-19	(318%)	.000	.000-.001 (318%)	0.30	0.511	Black crappie
53	0-114	(116%)	.002	.000-.004 (112%)	3.58	0.050	Bluegill
2	0-6	(278%)	.000	.000-.000 (278%)	0.10	0.398	Bowfin
571	249-892	(56%)	.017	.004-.030 (78%)	38.55	2.352	Carp
802	351-1254	(56%)	.020	.000-.041 (106%)	54.21	1.066	Channel catfish
632	0-2167	(243%)	.030	.000-.114 (276%)	42.70	4.516	Flathead catfish
			****	NOT RECORDED ****			Fathead minnow
212	0-439	(107%)	.012	.000-.113 (843%)	14.29	0.755	Freshwater drum
53	0-729	(1271%)	.001	.000-.017 (1271%)	3.59	2.690	Largemouth bass
			****	NOT RECORDED ****			Muskellunge
			****	NOT RECORDED ****			Northern pike
89	0-222	(149%)	.003	.000-.008 (138%)	6.04	2.130	Shorthead redhorse
60	0-125	(109%)	.001	.000-.003 (123%)	4.04	1.009	Smallmouth bass
11	0-56	(430%)	.001	.000-.002 (318%)	0.72	2.362	Walleye
29	0-378	(1186%)	.006	.000-.083 (1267%)	1.99	1.069	White bass
			****	NOT RECORDED ****			Yellow bass

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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
11065	8927-13204 (19%)	.437	.305-.568 (30%)	1847.48	747.67	All species
126	0-319 (154%)	.005	.000-.013 (146%)	21.03	8.51	Black crappie
3019	1700-4338 (44%)	.145	.058-.232 (60%)	504.11	204.01	Bluegill
4	0-16 (318%)	.000	.000-.000 (278%)	0.63	0.25	Bowfin
1235	729-1742 (41%)	.029	.019-.040 (35%)	206.25	83.47	Carp
1722	1214-2230 (29%)	.052	.031-.073 (40%)	287.53	116.36	Channel catfish
305	132-478 (57%)	.008	.003-.013 (68%)	50.90	20.60	Flathead catfish
5	0-66 (1271%)	.000	.000-.002 (1271%)	0.81	0.33	Fathead minnow
1876	1459-2294 (22%)	.078	.051-.106 (35%)	313.28	126.78	Freshwater drum
120	0-282 (134%)	.004	.000-.013 (202%)	20.05	8.11	Largemouth bass
7	0-25 (234%)	.000	.000-.001 (228%)	1.25	0.51	Muskellunge
180	0-524 (191%)	.004	.000-.011 (206%)	30.06	12.17	Northern pike
42	0-99 (136%)	.002	.000-.004 (135%)	7.01	2.84	Shorthead redhorse
2272	789-3755 (65%)	.096	.016-.177 (84%)	379.36	153.53	Smallmouth bass
25	0-78 (206%)	.005	.000-.016 (233%)	4.25	1.72	Walleye
84	0-197 (135%)	.006	.000-.070 (990%)	13.98	5.66	White bass
18	0-45 (153%)	.000	.000-.001 (153%)	2.99	1.21	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
4063	3180-4946 (22%)	.131	.095-.167 (27%)	678.38	0.367	All species
13	0-30 (137%)	.001	.000-.003 (289%)	2.11	0.100	Black crappie
172	37-308 (79%)	.009	.001-.017 (90%)	28.80	0.057	Bluegill
1	0-3 (278%)	.000	.000-.000 (278%)	0.11	0.181	Bowfin
1129	685-1572 (39%)	.026	.017-.034 (34%)	188.45	0.914	Carp
623	408-838 (35%)	.016	.007-.025 (54%)	104.04	0.362	Channel catfish
349	0-1052 (201%)	.015	.000-.053 (254%)	58.30	1.145	Flathead catfish
0	0-0 (1271%)	.000	.000-.000 (430%)	0.00	0.002	Fathead minnow
658	394-923 (40%)	.024	.011-.038 (55%)	109.91	0.351	Freshwater drum
49	0-145 (195%)	.002	.000-.005 (205%)	8.19	0.408	Largemouth bass
17	0-77 (358%)	.001	.000-.002 (232%)	2.81	2.248	Muskellunge
245	0-673 (175%)	.005	.000-.014 (197%)	40.85	1.359	Northern pike
41	0-101 (149%)	.002	.000-.004 (138%)	6.77	0.966	Shorthead redhorse
714	452-976 (37%)	.024	.012-.036 (51%)	119.16	0.314	Smallmouth bass
24	0-74 (202%)	.005	.000-.015 (232%)	4.09	0.962	Walleye
21	0-191 (798%)	.003	.000-.038 (1156%)	3.56	0.255	White bass
7	0-23 (204%)	.000	.000-.001 (204%)	1.24	0.417	Yellow 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
8958	7011-10904 (22%)	.289	.209-.368 (27%)	605.25	0.810	All species
28	0-66 (137%)	.001	.000-.006 (289%)	1.88	0.221	Black crappie
380	81-679 (79%)	.020	.002-.038 (90%)	25.69	0.126	Bluegill
2	0-6 (278%)	.000	.000-.000 (278%)	0.10	0.398	Bowfin
2488	1510-3467 (39%)	.056	.037-.075 (34%)	168.13	2.014	Carp
1374	899-1849 (35%)	.035	.016-.054 (54%)	92.82	0.798	Channel catfish
770	0-2320 (201%)	.033	.000-.117 (254%)	52.01	2.525	Flathead catfish
0	0-0 (430%)	.000	.000-.000 (430%)	0.00	0.005	Fathead minnow
1451	868-2035 (40%)	.053	.024-.083 (55%)	98.06	0.773	Freshwater drum
108	0-319 (195%)	.004	.000-.011 (205%)	7.31	0.901	Largemouth bass
37	0-170 (358%)	.002	.000-.005 (232%)	2.51	4.957	Muskellunge
539	0-1484 (175%)	.010	.000-.030 (197%)	36.45	2.996	Northern pike
89	0-222 (149%)	.003	.000-.008 (138%)	6.04	2.130	Shorthead redhorse
1573	996-2151 (37%)	.053	.026-.080 (51%)	106.31	0.692	Smallmouth bass
54	0-163 (202%)	.010	.000-.034 (232%)	3.64	2.121	Walleye
47	0-422 (798%)	.007	.000-.084 (1156%)	3.17	0.561	White bass
16	0-50 (204%)	.000	.000-.001 (204%)	1.11	0.918	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	0.0	*** undefined ***	100.0	0.0	0
SHORE	1.8	1.7-1.9 (7%)	0.2	8.9	371
BOAT & SHORE	1.8	1.7-1.9 (7%)	0.2	8.9	371
MILES TRAVELED	11.9	10.9-12.8 (8%)	1	120	946
SUCCESS RATING (1-10)	3.4	3.2-3.5 (5%)	1	10	939

*56 samples were from split interviews of completed trips.
35.5% of all 1046 interviews were completed trips.

ILLEGAL HARVEST: Clerk noted 0 out of 1046 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	550	308	116	47	18	4	3			

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

671 (64.1%)	ANY	All species
15 (1.4%)	BLG	Bluegill
7 (0.7%)	BSS	Black bass spp.
55 (5.3%)	CAP	Carp
88 (8.4%)	CAT	Unidentified catfish
41 (3.9%)	CCF	Channel catfish
2 (0.2%)	CRP	Crappie spp.
5 (0.5%)	FCF	Flathead catfish
6 (0.6%)	LMB	Largemouth bass
10 (1.0%)	MUE	Muskellunge
4 (0.4%)	NOP	Northern pike
99 (9.5%)	SMB	Smallmouth bass
43 (4.1%)	WAE	Walleye

