

ILLINOIS NATURAL HISTORY SURVEY
 CENTER FOR AQUATIC ECOLOGY
 1989 CREEL SURVEY RESULTS

1989 LE AQUA NA
 43 ACRES
 REGION 1, DISTRICT 1

STRATIFICATION SUMMARY:

Day creel only.
 Results cover 01/01/1989 through 11/15/1989
 Year periods stratified.
 Fishing modes (boat vs. shore) stratified.
 Day types (weekday vs. weekend/holiday) stratified.
 Day periods (morning, midday, and afternoon) stratified.
 Yearperiod 2 coalesced with yearperiod 3.
 Yearperiod 3 coalesced with yearperiod 4.
 Yearperiod 9 coalesced with yearperiod 10.

SAMPLING RATIO: 333/957 = 34.8%

NUMBER OF INTERVIEWS: 1985

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	4802	3260-6344 (32%)	111	75-146 (32%)	9%
	HOLIDAY	5504	4789-6218 (13%)	127	110-143 (13%)	30%
	TOTAL	10306	8683-11929 (16%)	237	200-275 (16%)	20%
SHORE	WEEKDAY	8458	7420-9496 (12%)	195	171-219 (12%)	13%
	HOLIDAY	9027	8093-9961 (10%)	208	186-230 (10%)	29%
	TOTAL	17485	16088-18881 (8%)	403	371-435 (8%)	22%
BOAT & SHORE	WEEKDAY	13260	11471-15049 (13%)	306	264-347 (13%)	12%
	HOLIDAY	14531	13354-15707 (8%)	335	308-362 (8%)	30%
	TOTAL	27791	25649-29932 (8%)	640	591-690 (8%)	21%

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

# HARVESTED	95% CI		#/HOUR	95% CI	#/HA	#/ACRE	SPECIES
11064	8956-13173	(19%)	.293	.137-.448 (53%)	629.96	254.94	All species
2	0-10	(318%)	.000	.000-.000 (430%)	0.14	0.06	Black bullhead
4868	3588-6147	(26%)	.083	.057-.109 (32%)	277.15	112.16	Black crappie
5482	4116-6847	(25%)	.197	.061-.333 (69%)	312.10	126.30	Bluegill
445	313-578	(30%)	.010	.006-.013 (36%)	25.36	10.26	Channel catfish
2	0-7	(231%)	.000	.000-.000 (231%)	0.12	0.05	Golden shiner
161	101-222	(38%)	.002	.001-.003 (46%)	9.18	3.72	Largemouth bass
14	0-36	(156%)	.000	.000-.001 (140%)	0.80	0.32	Northern pike
3	0-9	(216%)	.000	.000-.000 (214%)	0.17	0.07	Rainbow trout
6	0-15	(148%)	.000	.000-.000 (144%)	0.36	0.14	Rock bass
			****	NOT RECORDED ****			Smallmouth bass
13	0-39	(194%)	.000	.000-.000 (197%)	0.75	0.30	Walleye
67	15-120	(77%)	.001	.000-.002 (122%)	3.84	1.55	Warmouth

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

KG HARVESTED	95% CI		KG/HOUR	95% CI	KG/HA	AVE KG	SPECIES
1184	976-1391	(18%)	.027	.017-.037 (37%)	67.39	0.107	All species
1	0-6	(430%)	.000	.000-.000 (430%)	0.06	0.532	Black bullhead
352	256-447	(27%)	.006	.004-.008 (34%)	20.03	0.072	Black crappie
357	268-447	(25%)	.013	.004-.022 (69%)	20.35	0.065	Bluegill
263	162-364	(38%)	.005	.003-.007 (41%)	14.98	0.591	Channel catfish
0	0-0	(231%)	.000	.000-.000 (231%)	0.01	0.055	Golden shiner
162	97-227	(40%)	.002	.001-.003 (52%)	9.21	1.005	Largemouth bass
28	0-66	(138%)	.001	.000-.003 (166%)	1.58	1.987	Northern pike
1	0-4	(214%)	.000	.000-.000 (216%)	0.07	0.627	Rainbow trout
1	0-2	(145%)	.000	.000-.000 (146%)	0.04	0.131	Rock bass
			****	NOT RECORDED ****			Smallmouth bass
10	0-32	(223%)	.000	.000-.000 (223%)	0.57	0.765	Walleye
8	2-15	(75%)	.000	.000-.000 (117%)	0.48	0.125	Warmouth

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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
2609	2152-3067	(18%)	.060	.038-.083 (37%)	60.12	0.236	All species
2	0-12	(430%)	.000	.000-.000 (318%)	0.05	1.172	Black bullhead
776	565-986	(27%)	.013	.009-.018 (34%)	17.87	0.159	Black crappie
788	590-986	(25%)	.028	.009-.047 (69%)	18.16	0.144	Bluegill
580	357-803	(38%)	.011	.007-.016 (41%)	13.37	1.304	Channel catfish
0	0-1	(236%)	.000	.000-.000 (231%)	0.01	0.120	Golden shiner
357	213-500	(40%)	.004	.002-.006 (52%)	8.22	2.215	Largemouth bass
61	0-146	(138%)	.002	.000-.007 (166%)	1.41	4.382	Northern pike
3	0-9	(216%)	.000	.000-.000 (214%)	0.06	1.382	Rainbow trout
2	0-4	(146%)	.000	.000-.000 (146%)	0.04	0.289	Rock bass
			****	NOT RECORDED ****			Smallmouth bass
22	0-71	(223%)	.000	.000-.001 (223%)	0.51	1.687	Walleye
18	5-32	(75%)	.000	.000-.001 (117%)	0.43	0.276	Warmouth

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
31274	27674-34874	(12%)	.772	.592-.953 (23%)	1780.59	720.60	All species
23	0-49	(113%)	.000	.000-.001 (172%)	1.31	0.53	Black bullhead
15549	13034-18064	(16%)	.272	.219-.325 (20%)	885.29	358.27	Black crappie
13442	11060-15825	(18%)	.447	.295-.599 (34%)	765.35	309.73	Bluegill
649	480-817	(26%)	.013	.009-.017 (30%)	36.92	14.94	Channel catfish
2	0-7	(231%)	.000	.000-.000 (231%)	0.12	0.05	Golden shiner
1161	872-1450	(25%)	.030	.018-.043 (41%)	66.12	26.76	Largemouth bass
65	22-109	(67%)	.003	.000-.006 (124%)	3.71	1.50	Northern pike
3	0-9	(216%)	.000	.000-.000 (214%)	0.17	0.07	Rainbow trout
63	8-117	(87%)	.001	.000-.003 (132%)	3.57	1.44	Rock bass
6	0-22	(278%)	.000	.000-.001 (257%)	0.34	0.14	Smallmouth bass
218	130-306	(40%)	.004	.002-.005 (43%)	12.44	5.03	Walleye
93	34-151	(63%)	.001	.000-.003 (97%)	5.27	2.13	Warmouth

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

KG CAUGHT	95% CI		KG/HOUR	95% CI	KG/HA	AVE KG	SPECIES
2760	2441-3080	(12%)	.068	.054-.082 (21%)	157.15	0.088	All species
8	1-15	(88%)	.000	.000-.000 (111%)	0.45	0.341	Black bullhead
1034	861-1207	(17%)	.018	.014-.022 (20%)	58.87	0.067	Black crappie
783	639-927	(18%)	.026	.017-.035 (36%)	44.58	0.058	Bluegill
301	197-406	(35%)	.006	.004-.008 (37%)	17.16	0.465	Channel catfish
0	0-0	(231%)	.000	.000-.000 (231%)	0.01	0.055	Golden shiner
508	369-646	(27%)	.014	.007-.021 (51%)	28.90	0.437	Largemouth bass
68	15-121	(78%)	.003	.000-.008 (126%)	3.89	1.050	Northern pike
1	0-4	(214%)	.000	.000-.000 (216%)	0.07	0.627	Rainbow trout
7	1-12	(80%)	.000	.000-.000 (90%)	0.38	0.109	Rock bass
2	0-9	(257%)	.000	.000-.000 (278%)	0.14	0.481	Smallmouth bass
36	11-62	(71%)	.001	.000-.001 (67%)	2.07	0.167	Walleye
11	4-18	(64%)	.000	.000-.000 (97%)	0.63	0.121	Warmouth

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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
6085	5380-6790	(12%)	.150	.118-.182 (21%)	140.21	0.195	All species
17	2-32	(88%)	.000	.000-.000 (111%)	0.40	0.751	Black bullhead
2280	1899-2660	(17%)	.040	.032-.048 (20%)	52.53	0.147	Black crappie
1726	1408-2044	(18%)	.057	.036-.077 (36%)	39.77	0.128	Bluegill
665	434-895	(35%)	.013	.008-.018 (37%)	15.31	1.026	Channel catfish
0	0-1	(236%)	.000	.000-.000 (231%)	0.01	0.120	Golden shiner
1119	813-1425	(27%)	.031	.015-.046 (51%)	25.79	0.964	Largemouth bass
151	34-267	(78%)	.007	.000-.017 (126%)	3.47	2.315	Northern pike
3	0-9	(216%)	.000	.000-.000 (214%)	0.06	1.382	Rainbow trout
15	3-27	(80%)	.000	.000-.000 (90%)	0.34	0.239	Rock bass
5	0-19	(257%)	.000	.000-.000 (257%)	0.12	1.060	Smallmouth bass
80	23-137	(71%)	.001	.000-.002 (67%)	1.85	0.368	Walleye
25	9-40	(64%)	.000	.000-.001 (97%)	0.57	0.267	Warmouth