

ILLINOIS NATURAL HISTORY SURVEY
 CENTER FOR AQUATIC ECOLOGY
 1996 CREEL SURVEY RESULTS

1996 JONES LAKE
 97 ACRES
 REGION 5, DISTRICT 24

STRATIFICATION SUMMARY:

Day creel only.
 Results cover 03/15/1996 through 11/15/1996
 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: 310/738 = 42.0%

NUMBER OF INTERVIEWS: 1572

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	3951	3394-4508 (14%)	41	35-47 (14%)	25%
	HOLIDAY	3583	2853-4313 (20%)	37	30-45 (20%)	45%
	TOTAL	7534	6616-8453 (12%)	78	68-87 (12%)	35%
SHORE	WEEKDAY	5414	4753-6075 (12%)	56	49-63 (12%)	23%
	HOLIDAY	5932	2741-9123 (54%)	61	28-94 (54%)	37%
	TOTAL	11346	8198-14494 (28%)	117	85-150 (28%)	30%
BOAT & SHORE	WEEKDAY	9365	8500-10229 (9%)	97	88-106 (9%)	24%
	HOLIDAY	9515	6451-12580 (32%)	98	67-130 (32%)	40%
	TOTAL	18880	15723-22037 (17%)	195	163-228 (17%)	32%

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

# HARVESTED	95% CI	#/HOUR	95% CI	#/HA	#/ACRE	SPECIES
13826	11865-15787 (14%)	.659	.563-.755 (15%)	353.29	142.97	All species
1293	964-1623 (25%)	.104	.071-.137 (31%)	33.05	13.37	Black crappie
7917	6563-9271 (17%)	.356	.284-.428 (20%)	202.31	81.87	Bluegill
2595	1875-3316 (28%)	.099	.077-.121 (22%)	66.31	26.84	Channel catfish
241	130-353 (46%)	.009	.004-.014 (54%)	6.16	2.49	Green sunfish
299	180-418 (40%)	.014	.008-.021 (46%)	7.64	3.09	Largemouth bass
1433	1016-1851 (29%)	.075	.050-.100 (33%)	36.63	14.82	Redear sunfish
47	14-79 (70%)	.002	.000-.003 (72%)	1.19	0.48	Warmouth

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

KG HARVESTED	95% CI	KG/HOUR	95% CI	KG/HA	AVE KG	SPECIES
2986	2505-3467 (16%)	.136	.118-.153 (13%)	76.30	0.216	All species
314	235-394 (25%)	.025	.018-.032 (28%)	8.03	0.243	Black crappie
664	540-788 (19%)	.030	.023-.036 (22%)	16.97	0.084	Bluegill
1517	1101-1933 (27%)	.058	.045-.071 (23%)	38.77	0.585	Channel catfish
22	12-32 (45%)	.001	.000-.001 (55%)	0.56	0.091	Green sunfish
209	136-282 (35%)	.009	.006-.012 (35%)	5.35	0.702	Largemouth bass
251	176-327 (30%)	.013	.009-.017 (33%)	6.42	0.175	Redear sunfish
8	1-15 (83%)	.000	.000-.001 (77%)	0.21	0.174	Warmouth

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

LB HARVESTED	95% CI	LB/HOUR	95% CI	LB/ACRE	AVE LB	SPECIES
6582	5522-7643 (16%)	.299	.260-.338 (13%)	68.07	0.476	All species
693	517-869 (25%)	.055	.040-.071 (28%)	7.17	0.536	Black crappie
1464	1191-1737 (19%)	.065	.051-.080 (22%)	15.14	0.185	Bluegill
3345	2427-4263 (27%)	.127	.098-.156 (23%)	34.59	1.289	Channel catfish
48	27-70 (45%)	.002	.001-.003 (55%)	0.50	0.200	Green sunfish
461	301-622 (35%)	.020	.013-.027 (35%)	4.77	1.548	Largemouth bass
554	387-720 (30%)	.028	.019-.038 (33%)	5.73	0.386	Redear sunfish
18	3-32 (83%)	.001	.000-.001 (77%)	0.18	0.385	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	
32906	28771-37040	(13%)	1.531	1.358-1.704	(11%)	840.85	340.29	All species
1462	1121-1803	(23%)	.125	.090-.161	(28%)	37.37	15.12	Black crappie
18513	15302-21724	(17%)	.780	.638-.922	(18%)	473.06	191.44	Bluegill
3475	2511-4438	(28%)	.135	.106-.163	(21%)	88.79	35.93	Channel catfish
1362	1076-1647	(21%)	.068	.049-.086	(27%)	34.79	14.08	Green sunfish
6523	5522-7525	(15%)	.343	.292-.393	(15%)	166.69	67.46	Largemouth bass
1471	1045-1897	(29%)	.077	.052-.102	(33%)	37.59	15.21	Redear sunfish
100	43-157	(57%)	.004	.001-.007	(86%)	2.56	1.04	Warmouth

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

KG CAUGHT	95% CI		KG/HOUR	95% CI	KG/HA	AVE KG	SPECIES	
5302	4686-5918	(12%)	.260	.235-.285	(10%)	135.49	0.161	All species
341	261-421	(23%)	.029	.022-.035	(24%)	8.70	0.233	Black crappie
845	700-990	(17%)	.038	.030-.045	(20%)	21.60	0.046	Bluegill
1601	1173-2030	(27%)	.061	.048-.074	(22%)	40.92	0.461	Channel catfish
113	87-139	(23%)	.006	.004-.007	(32%)	2.89	0.083	Green sunfish
2134	1793-2475	(16%)	.113	.095-.131	(16%)	54.53	0.327	Largemouth bass
254	178-330	(30%)	.013	.009-.017	(32%)	6.49	0.173	Redear sunfish
14	5-24	(67%)	.001	.000-.001	(93%)	0.37	0.144	Warmouth

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

LB CAUGHT	95% CI		LB/HOUR	95% CI	LB/ACRE	AVE LB	SPECIES	
11690	10332-13047	(12%)	.572	.517-.628	(10%)	120.89	0.355	All species
751	575-927	(23%)	.063	.048-.078	(24%)	7.76	0.514	Black crappie
1863	1544-2183	(17%)	.083	.066-.099	(20%)	19.27	0.101	Bluegill
3531	2586-4475	(27%)	.135	.106-.164	(22%)	36.51	1.016	Channel catfish
249	192-305	(23%)	.012	.008-.016	(32%)	2.57	0.183	Green sunfish
4705	3953-5456	(16%)	.249	.208-.290	(16%)	48.65	0.721	Largemouth bass
560	392-727	(30%)	.029	.019-.038	(32%)	5.79	0.380	Redear sunfish
32	11-53	(67%)	.001	.000-.002	(93%)	0.33	0.317	Warmouth

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SAMPLING RATIO: 128/279 = 45.9%

NUMBER OF INTERVIEWS: 717

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	1775	1423-2127 (20%)	18	15-22 (20%)	28%
	HOLIDAY	1121	870-1371 (22%)	12	9-14 (22%)	61%
	TOTAL	2896	2472-3319 (15%)	30	26-34 (15%)	41%
SHORE	WEEKDAY	2229	1944-2514 (13%)	23	20-26 (13%)	28%
	HOLIDAY	3395	285-6506 (92%)	35	3-67 (92%)	30%
	TOTAL	5625	2491-8758 (56%)	58	26-91 (56%)	29%
BOAT & SHORE	WEEKDAY	4004	3551-4457 (11%)	41	37-46 (11%)	28%
	HOLIDAY	4516	1390-7642 (69%)	47	14-79 (69%)	38%
	TOTAL	8520	5338-11702 (37%)	88	55-121 (37%)	33%

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

# HARVESTED	95% CI		#/HOUR	95% CI	#/HA	#/ACRE	SPECIES
7157	5560-8755	(22%)	.839	.649-1.029 (23%)	182.89	74.02	All species
613	357-869	(42%)	.110	.056-.164 (49%)	15.67	6.34	Black crappie
4330	3214-5446	(26%)	.506	.356-.656 (30%)	110.65	44.78	Bluegill
923	351-1495	(62%)	.063	.041-.084 (34%)	23.58	9.54	Channel catfish
33	6-59	(80%)	.002	.000-.004 (84%)	0.84	0.34	Green sunfish
140	36-245	(75%)	.012	.004-.020 (66%)	3.58	1.45	Largemouth bass
1104	719-1489	(35%)	.145	.088-.201 (39%)	28.21	11.41	Redear sunfish
14	0-39	(178%)	.002	.000-.004 (141%)	0.36	0.14	Warmouth

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

KG HARVESTED	95% CI		KG/HOUR	95% CI	KG/HA	AVE KG	SPECIES
1350	960-1739	(29%)	.137	.113-.162 (18%)	34.49	0.189	All species
144	85-202	(41%)	.025	.014-.037 (45%)	3.67	0.235	Black crappie
378	266-490	(30%)	.044	.028-.059 (36%)	9.66	0.087	Bluegill
539	213-865	(60%)	.036	.023-.049 (36%)	13.78	0.585	Channel catfish
3	1-4	(72%)	.000	.000-.000 (85%)	0.07	0.080	Green sunfish
97	35-158	(63%)	.009	.003-.014 (60%)	2.47	0.690	Largemouth bass
186	123-250	(34%)	.023	.016-.031 (33%)	4.76	0.169	Redear sunfish
3	0-9	(186%)	.000	.000-.001 (146%)	0.08	0.231	Warmouth

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

LB HARVESTED	95% CI		LB/HOUR	95% CI	LB/ACRE	AVE LB	SPECIES
2976	2117-3835	(29%)	.303	.248-.358 (18%)	30.77	0.416	All species
317	188-446	(41%)	.056	.030-.081 (45%)	3.28	0.517	Black crappie
833	586-1080	(30%)	.096	.062-.131 (36%)	8.62	0.192	Bluegill
1189	470-1908	(60%)	.079	.051-.108 (36%)	12.30	1.290	Channel catfish
6	2-10	(72%)	.000	.000-.001 (85%)	0.06	0.176	Green sunfish
213	78-347	(63%)	.019	.007-.030 (60%)	2.20	1.520	Largemouth bass
411	271-551	(34%)	.052	.035-.069 (33%)	4.25	0.373	Redear sunfish
7	0-19	(186%)	.001	.000-.002 (146%)	0.07	0.510	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
14953	12152-17754	(19%)	1.674	1.380-1.969	(18%)	382.10	154.63 All species
660	397-923	(40%)	.124	.056-.191	(55%)	16.86	6.83 Black crappie
8444	6379-10509	(24%)	.875	.607-1.144	(31%)	215.78	87.32 Bluegill
1173	347-2000	(70%)	.075	.048-.103	(36%)	29.99	12.14 Channel catfish
500	322-678	(36%)	.054	.033-.076	(39%)	12.77	5.17 Green sunfish
3002	2387-3618	(21%)	.393	.304-.481	(23%)	76.72	31.05 Largemouth bass
1142	748-1535	(34%)	.150	.093-.208	(38%)	29.17	11.80 Redear sunfish
32	2-61	(92%)	.003	.000-.006	(92%)	0.81	0.33 Warmouth

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

KG CAUGHT	95% CI		KG/HOUR	95% CI	KG/HA	AVE KG	SPECIES
2431	1967-2895	(19%)	.276	.233-.318	(15%)	62.12	0.163 All species
148	89-207	(40%)	.026	.015-.037	(44%)	3.78	0.225 Black crappie
436	318-555	(27%)	.049	.032-.065	(35%)	11.15	0.052 Bluegill
560	214-906	(62%)	.037	.024-.051	(35%)	14.31	0.478 Channel catfish
40	24-56	(40%)	.004	.002-.006	(48%)	1.03	0.081 Green sunfish
1052	810-1294	(23%)	.135	.098-.172	(28%)	26.89	0.351 Largemouth bass
189	125-253	(34%)	.024	.016-.032	(32%)	4.83	0.166 Redear sunfish
5	0-10	(128%)	.000	.000-.001	(110%)	0.12	0.146 Warmouth

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

LB CAUGHT	95% CI		LB/HOUR	95% CI	LB/ACRE	AVE LB	SPECIES
5360	4336-6383	(19%)	.608	.514-.702	(15%)	55.42	0.358 All species
327	197-456	(40%)	.057	.032-.082	(44%)	3.38	0.496 Black crappie
962	700-1224	(27%)	.107	.070-.144	(35%)	9.95	0.114 Bluegill
1235	472-1998	(62%)	.082	.053-.112	(35%)	12.77	1.053 Channel catfish
89	54-124	(40%)	.010	.005-.014	(48%)	0.92	0.178 Green sunfish
2320	1787-2853	(23%)	.298	.216-.380	(28%)	23.99	0.773 Largemouth bass
417	276-558	(34%)	.053	.036-.070	(32%)	4.31	0.366 Redear sunfish
10	0-23	(128%)	.001	.000-.002	(110%)	0.10	0.322 Warmouth

