

ILLINOIS NATURAL HISTORY SURVEY
 CENTER FOR AQUATIC ECOLOGY
 1997 CREEL SURVEY RESULTS

1997 JONES LAKE
 97 ACRES
 REGION 5, DISTRICT 20

STRATIFICATION SUMMARY:

Day creel only.
 Results cover 03/15/1997 through 10/31/1997
 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: 306/693 = 44.2%

NUMBER OF INTERVIEWS: 1738

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	5213	4612-5815 (12%)	54	48-60 (12%)	25%
	HOLIDAY	4248	3685-4810 (13%)	44	38-50 (13%)	48%
	TOTAL	9461	8638-10285 (9%)	98	89-106 (9%)	35%
SHORE	WEEKDAY	6239	5588-6891 (10%)	65	58-71 (10%)	22%
	HOLIDAY	5356	4568-6144 (15%)	55	47-64 (15%)	47%
	TOTAL	11595	10604-12586 (9%)	120	110-130 (9%)	34%
BOAT & SHORE	WEEKDAY	11453	10566-12339 (8%)	118	109-128 (8%)	23%
	HOLIDAY	9604	8669-10539 (10%)	99	90-109 (10%)	47%
	TOTAL	21056	19768-22345 (6%)	218	204-231 (6%)	34%

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

# HARVESTED	95% CI		#/HOUR	95% CI	#/HA	#/ACRE	SPECIES
19794	17693-21894	(11%)	.943	.831-1.056 (12%)	505.80	204.69	All species
1205	762-1648	(37%)	.080	.050-.109 (37%)	30.79	12.46	Black crappie
10304	8791-11817	(15%)	.478	.395-.562 (17%)	263.30	106.56	Bluegill
3919	3309-4530	(16%)	.176	.149-.204 (16%)	100.15	40.53	Channel catfish
655	492-819	(25%)	.028	.019-.038 (33%)	16.75	6.78	Green sunfish
			****	NOT RECORDED	****		Gizzard shad
2636	2189-3082	(17%)	.135	.110-.161 (19%)	67.35	27.26	Largemouth bass
1058	765-1351	(28%)	.045	.027-.063 (41%)	27.04	10.94	Redear sunfish
17	2-31	(85%)	.001	.000-.002 (100%)	0.42	0.17	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
5884	5253-6514	(11%)	.277	.248-.306 (10%)	150.34	0.297	All species
366	210-522	(43%)	.024	.013-.036 (48%)	9.35	0.304	Black crappie
937	783-1090	(16%)	.044	.036-.053 (20%)	23.94	0.091	Bluegill
3089	2603-3574	(16%)	.134	.114-.154 (15%)	78.93	0.788	Channel catfish
64	48-80	(25%)	.003	.002-.004 (34%)	1.64	0.098	Green sunfish
			****	NOT RECORDED	****		Gizzard shad
1176	982-1369	(16%)	.060	.050-.071 (18%)	30.04	0.446	Largemouth bass
239	172-307	(28%)	.010	.006-.014 (40%)	6.11	0.226	Redear sunfish
13	1-25	(89%)	.001	.000-.001 (112%)	0.33	0.812	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
12971	11582-14360	(11%)	.610	.546-.674 (10%)	134.14	0.655	All species
807	463-1151	(43%)	.053	.028-.079 (48%)	8.34	0.670	Black crappie
2065	1727-2404	(16%)	.098	.078-.117 (20%)	21.36	0.200	Bluegill
6809	5739-7880	(16%)	.296	.252-.340 (15%)	70.42	1.738	Channel catfish
142	107-177	(25%)	.006	.004-.008 (34%)	1.47	0.216	Green sunfish
			****	NOT RECORDED	****		Gizzard shad
2592	2166-3018	(16%)	.133	.109-.158 (18%)	26.80	0.984	Largemouth bass
527	378-676	(28%)	.022	.013-.031 (40%)	5.45	0.498	Redear sunfish
29	3-54	(89%)	.002	.000-.003 (112%)	0.30	1.790	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
42022	37630-46414	(10%)	2.031	1.835-2.227 (10%)	1073.79	434.56	All species
1277	823-1730	(36%)	.085	.055-.115 (35%)	32.62	13.20	Black crappie
20634	17508-23760	(15%)	.885	.753-1.018 (15%)	527.27	213.38	Bluegill
5653	4741-6564	(16%)	.261	.219-.303 (16%)	144.44	58.45	Channel catfish
2215	1776-2654	(20%)	.114	.089-.138 (21%)	56.60	22.90	Green sunfish
2	0-6	(207%)	.000	.000-.000 (207%)	0.05	0.02	Gizzard shad
11138	9808-12468	(12%)	.639	.554-.724 (13%)	284.62	115.18	Largemouth bass
1085	790-1380	(27%)	.046	.028-.064 (40%)	27.73	11.22	Redear sunfish
18	4-33	(79%)	.001	.000-.002 (96%)	0.47	0.19	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
8570	7791-9350	(9%)	.422	.386-.458 (9%)	218.99	0.204	All species
372	215-528	(42%)	.025	.013-.036 (47%)	9.49	0.291	Black crappie
1120	953-1286	(15%)	.052	.043-.061 (17%)	28.61	0.054	Bluegill
3265	2765-3765	(15%)	.143	.122-.163 (14%)	83.43	0.578	Channel catfish
147	90-205	(39%)	.007	.005-.009 (28%)	3.77	0.067	Green sunfish
0	0-0	(208%)	.000	.000-.000 (208%)	0.00	0.151	Gizzard shad
3412	2964-3860	(13%)	.185	.160-.210 (14%)	87.18	0.306	Largemouth bass
241	174-309	(28%)	.010	.006-.014 (40%)	6.16	0.222	Redear sunfish
13	2-25	(88%)	.001	.000-.001 (111%)	0.34	0.728	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
18894	17175-20612	(9%)	.931	.852-1.011 (9%)	195.39	0.450	All species
819	474-1164	(42%)	.054	.029-.080 (47%)	8.47	0.642	Black crappie
2469	2101-2836	(15%)	.116	.096-.136 (17%)	25.53	0.120	Bluegill
7198	6096-8300	(15%)	.314	.269-.360 (14%)	74.44	1.274	Channel catfish
325	198-452	(39%)	.016	.011-.020 (28%)	3.36	0.147	Green sunfish
0	0-1	(207%)	.000	.000-.000 (207%)	0.00	0.333	Gizzard shad
7522	6534-8510	(13%)	.407	.352-.463 (14%)	77.78	0.675	Largemouth bass
532	383-681	(28%)	.022	.013-.031 (40%)	5.50	0.490	Redear sunfish
29	3-54	(88%)	.002	.000-.003 (111%)	0.30	1.606	Yellow bullhead

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 Day periods (morning, midday, and afternoon) stratified.

SAMPLING RATIO: 128/279 = 45.9%

NUMBER OF INTERVIEWS: 855

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	2565	2132-2998 (17%)	27	22-31 (17%)	28%
	HOLIDAY	2109	1665-2553 (21%)	22	17-26 (21%)	50%
	TOTAL	4674	4073-5274 (13%)	48	42-55 (13%)	38%
SHORE	WEEKDAY	2956	2459-3453 (17%)	31	25-36 (17%)	25%
	HOLIDAY	2795	2087-3503 (25%)	29	22-36 (25%)	47%
	TOTAL	5751	4920-6582 (14%)	59	51-68 (14%)	35%
BOAT & SHORE	WEEKDAY	5521	4901-6142 (11%)	57	51-64 (11%)	26%
	HOLIDAY	4904	4088-5720 (17%)	51	42-59 (17%)	48%
	TOTAL	10425	9431-11419 (10%)	108	98-118 (10%)	36%

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

# HARVESTED	95% CI	#/HOUR	95% CI	#/HA	#/ACRE	SPECIES
10631	8959-12303 (16%)	1.128	.900-.1.356 (20%)	271.66	109.94	All species
696	329-1063 (53%)	.116	.049-.184 (58%)	17.79	7.20	Black crappie
6813	5478-8148 (20%)	.687	.521-.852 (24%)	174.10	70.46	Bluegill
588	402-774 (32%)	.057	.034-.081 (41%)	15.02	6.08	Channel catfish
346	237-454 (31%)	.034	.016-.051 (52%)	8.83	3.57	Green sunfish
1268	932-1604 (27%)	.143	.094-.191 (34%)	32.39	13.11	Largemouth bass
921	635-1207 (31%)	.091	.047-.135 (49%)	23.53	9.52	Redear sunfish
		****	NOT RECORDED	****		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
2123	1809-2436 (15%)	.232	.186-.277 (20%)	54.25	0.200	All species
250	103-398 (59%)	.042	.014-.070 (67%)	6.40	0.360	Black crappie
655	505-804 (23%)	.067	.050-.084 (25%)	16.73	0.096	Bluegill
420	277-563 (34%)	.038	.021-.055 (45%)	10.74	0.716	Channel catfish
35	24-46 (31%)	.004	.002-.006 (54%)	0.90	0.102	Green sunfish
550	411-689 (25%)	.060	.042-.079 (31%)	14.06	0.434	Largemouth bass
212	146-278 (31%)	.021	.011-.030 (48%)	5.42	0.231	Redear sunfish
		****	NOT RECORDED	****		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
4680	3989-5371 (15%)	.511	.411-.612 (20%)	48.40	0.440	All species
552	226-877 (59%)	.093	.030-.155 (67%)	5.71	0.793	Black crappie
1443	1114-1773 (23%)	.148	.111-.186 (25%)	14.93	0.212	Bluegill
926	611-1242 (34%)	.084	.046-.122 (45%)	9.58	1.578	Channel catfish
78	53-102 (31%)	.008	.004-.012 (54%)	0.80	0.225	Green sunfish
1213	907-1519 (25%)	.133	.092-.174 (31%)	12.54	0.957	Largemouth bass
468	322-613 (31%)	.045	.024-.067 (48%)	4.84	0.508	Redear sunfish
		****	NOT RECORDED	****		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
19965	17084-22847	(14%)	2.064	1.729-2.400 (16%)	510.18	206.47	All species
733	355-1110	(52%)	.121	.053-.189 (56%)	18.72	7.58	Black crappie
12740	10318-15162	(19%)	1.193	.942-1.444 (21%)	325.55	131.75	Bluegill
657	454-861	(31%)	.067	.040-.094 (40%)	16.79	6.80	Channel catfish
764	598-929	(22%)	.082	.055-.109 (33%)	19.51	7.90	Green sunfish
4124	3231-5017	(22%)	.508	.390-.627 (23%)	105.38	42.65	Largemouth bass
948	660-1236	(30%)	.093	.048-.137 (48%)	24.22	9.80	Redear sunfish
			****	NOT RECORDED	****		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
3167	2735-3599	(14%)	.362	.306-.418 (15%)	80.93	0.159	All species
254	106-402	(58%)	.043	.014-.071 (66%)	6.49	0.347	Black crappie
763	606-920	(21%)	.078	.061-.096 (22%)	19.50	0.060	Bluegill
437	297-577	(32%)	.040	.022-.057 (44%)	11.18	0.666	Channel catfish
56	42-70	(24%)	.006	.004-.008 (37%)	1.43	0.073	Green sunfish
1442	1090-1794	(24%)	.174	.133-.215 (24%)	36.85	0.350	Largemouth bass
214	148-280	(31%)	.021	.011-.031 (47%)	5.48	0.226	Redear sunfish
			****	NOT RECORDED	****		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
6982	6030-7934	(14%)	.797	.674-.921 (15%)	72.20	0.350	All species
560	234-887	(58%)	.094	.032-.157 (66%)	5.79	0.765	Black crappie
1682	1336-2028	(21%)	.172	.134-.211 (22%)	17.40	0.132	Bluegill
964	656-1273	(32%)	.088	.049-.127 (44%)	9.97	1.468	Channel catfish
124	93-154	(24%)	.013	.009-.018 (37%)	1.28	0.162	Green sunfish
3180	2404-3955	(24%)	.384	.294-.474 (24%)	32.88	0.771	Largemouth bass
472	327-618	(31%)	.046	.024-.067 (47%)	4.88	0.499	Redear sunfish
			****	NOT RECORDED	****		Yellow bullhead