

ILLINOIS NATURAL HISTORY SURVEY  
 CENTER FOR AQUATIC ECOLOGY  
 1998 CREEL SURVEY RESULTS

1998 JONES LAKE  
 97 ACRES  
 REGION 5, DISTRICT 20

STRATIFICATION SUMMARY:

Day creel only.  
 Results cover 03/15/1998 through 10/31/1998  
 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: 293/693 = 42.3%

NUMBER OF INTERVIEWS: 1560

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	4824	4168-5479 ( 14%)	50	43-57 ( 14%)	25%
	HOLIDAY	4613	3575-5651 ( 22%)	48	37-58 ( 22%)	46%
	TOTAL	9437	8234-10640 ( 13%)	98	85-110 ( 13%)	35%
SHORE	WEEKDAY	6183	5123-7242 ( 17%)	64	53-75 ( 17%)	23%
	HOLIDAY	5501	4768-6234 ( 13%)	57	49-64 ( 13%)	41%
	TOTAL	11683	10443-12924 ( 11%)	121	108-134 ( 11%)	31%
BOAT & SHORE	WEEKDAY	11006	9810-12203 ( 11%)	114	101-126 ( 11%)	24%
	HOLIDAY	10114	8915-11313 ( 12%)	105	92-117 ( 12%)	43%
	TOTAL	21120	19426-22814 ( 8%)	218	201-236 ( 8%)	33%

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

# HARVESTED	95% CI		#/HOUR	95% CI	#/HA	#/ACRE	SPECIES
14950	13373-16526	( 11%)	.642	.568-.715 ( 11%)	382.01	154.60	All species
917	470-1364	( 49%)	.057	.035-.079 ( 38%)	23.44	9.49	Black crappie
6488	5558-7418	( 14%)	.247	.197-.297 ( 20%)	165.80	67.10	Bluegill
3346	2800-3892	( 16%)	.172	.139-.204 ( 19%)	85.51	34.61	Channel catfish
980	723-1237	( 26%)	.036	.025-.047 ( 30%)	25.05	10.14	Green sunfish
5	0-73	(1271%)	.001	.000-.019 (1271%)	0.14	0.06	Gizzard shad
2679	2255-3104	( 16%)	.106	.085-.126 ( 19%)	68.47	27.71	Largemouth bass
533	360-705	( 32%)	.022	.014-.030 ( 37%)	13.61	5.51	Redear sunfish

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

KG HARVESTED	95% CI		KG/HOUR	95% CI	KG/HA	AVE KG	SPECIES
4918	4345-5491	( 12%)	.233	.200-.266 ( 14%)	125.66	0.329	All species
282	158-405	( 44%)	.019	.009-.029 ( 50%)	7.20	0.307	Black crappie
474	398-549	( 16%)	.018	.013-.023 ( 27%)	12.11	0.073	Bluegill
2726	2255-3198	( 17%)	.139	.111-.168 ( 20%)	69.66	0.815	Channel catfish
81	59-103	( 27%)	.003	.002-.004 ( 31%)	2.08	0.083	Green sunfish
0	0-2	(430%)	.000	.000-.001 (1271%)	0.01	0.066	Gizzard shad
1251	1046-1456	( 16%)	.050	.040-.059 ( 19%)	31.97	0.467	Largemouth bass
103	65-141	( 37%)	.004	.003-.005 ( 36%)	2.63	0.194	Redear sunfish

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

LB HARVESTED	95% CI		LB/HOUR	95% CI	LB/ACRE	AVE LB	SPECIES
10841	9578-12105	( 12%)	.514	.442-.586 ( 14%)	112.11	0.725	All species
621	348-894	( 44%)	.042	.021-.063 ( 50%)	6.42	0.677	Black crappie
1044	878-1211	( 16%)	.040	.029-.051 ( 27%)	10.80	0.161	Bluegill
6010	4971-7050	( 17%)	.307	.244-.369 ( 20%)	62.15	1.796	Channel catfish
179	131-227	( 27%)	.006	.004-.008 ( 31%)	1.85	0.183	Green sunfish
1	0-10	(1271%)	.000	.000-.001 (430%)	0.01	0.146	Gizzard shad
2759	2306-3211	( 16%)	.110	.089-.131 ( 19%)	28.53	1.030	Largemouth bass
227	143-310	( 37%)	.009	.006-.012 ( 36%)	2.35	0.427	Redear sunfish

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
36082	31831-40334 ( 12%)	1.537	1.359-1.714 ( 12%)	922.02	373.14	All species
1101	582-1621 ( 47%)	.069	.044-.095 ( 36%)	28.14	11.39	Black crappie
16263	13697-18829 ( 16%)	.596	.488-.704 ( 18%)	415.57	168.18	Bluegill
4541	3840-5243 ( 15%)	.252	.194-.311 ( 23%)	116.05	46.96	Channel catfish
4509	3249-5768 ( 28%)	.170	.117-.223 ( 31%)	115.21	46.62	Green sunfish
15	0-33 (122%)	.002	.000-.007 (234%)	0.38	0.15	Gizzard shad
8993	7887-10100 ( 12%)	.418	.357-.478 ( 14%)	229.81	93.00	Largemouth bass
660	428-892 ( 35%)	.030	.016-.044 ( 47%)	16.86	6.82	Redear sunfish

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

KG CAUGHT	95% CI	KG/HOUR	95% CI	KG/HA	AVE KG	SPECIES
7603	6843-8362 ( 10%)	.363	.323-.403 ( 11%)	194.27	0.211	All species
319	186-451 ( 42%)	.022	.012-.032 ( 45%)	8.14	0.289	Black crappie
664	562-765 ( 15%)	.025	.019-.031 ( 24%)	16.96	0.041	Bluegill
2919	2434-3405 ( 17%)	.150	.120-.179 ( 20%)	74.60	0.643	Channel catfish
175	131-220 ( 25%)	.008	.004-.011 ( 46%)	4.48	0.039	Green sunfish
2	0-4 (127%)	.000	.000-.000 (357%)	0.05	0.129	Gizzard shad
3405	2935-3875 ( 14%)	.153	.129-.177 ( 16%)	87.00	0.379	Largemouth bass
119	75-163 ( 37%)	.005	.003-.007 ( 46%)	3.05	0.181	Redear sunfish

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

LB CAUGHT	95% CI	LB/HOUR	95% CI	LB/ACRE	AVE LB	SPECIES
16761	15087-18436 ( 10%)	.800	.711-.888 ( 11%)	173.33	0.465	All species
702	410-995 ( 42%)	.048	.027-.070 ( 45%)	7.26	0.638	Black crappie
1464	1240-1687 ( 15%)	.056	.043-.069 ( 24%)	15.14	0.090	Bluegill
6436	5366-7506 ( 17%)	.330	.264-.396 ( 20%)	66.56	1.417	Channel catfish
386	288-484 ( 25%)	.017	.009-.025 ( 46%)	3.99	0.086	Green sunfish
4	0-9 (127%)	.000	.000-.001 (357%)	0.04	0.284	Gizzard shad
7506	6470-8542 ( 14%)	.337	.284-.390 ( 16%)	77.62	0.835	Largemouth bass
263	165-360 ( 37%)	.011	.006-.016 ( 46%)	2.72	0.399	Redear sunfish

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SAMPLING RATIO: 126/279 = 45.2%

NUMBER OF INTERVIEWS: 895

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	2667	2150-3185 ( 19%)	28	22-33 ( 19%)	26%
	HOLIDAY	2447	1591-3303 ( 35%)	25	16-34 ( 35%)	48%
	TOTAL	5114	4238-5991 ( 17%)	53	44-62 ( 17%)	37%
SHORE	WEEKDAY	2975	2187-3764 ( 26%)	31	23-39 ( 26%)	26%
	HOLIDAY	3280	2650-3910 ( 19%)	34	27-40 ( 19%)	42%
	TOTAL	6255	5352-7158 ( 14%)	65	55-74 ( 14%)	34%
BOAT & SHORE	WEEKDAY	5643	4792-6494 ( 15%)	58	50-67 ( 15%)	26%
	HOLIDAY	5727	4806-6648 ( 16%)	59	50-69 ( 16%)	44%
	TOTAL	11370	10172-12567 ( 11%)	118	105-130 ( 11%)	35%

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

# HARVESTED	95% CI		#/HOUR	95% CI	#/HA	#/ACRE	SPECIES
9435	8237-10633	( 13%)	.846	.715-.978 ( 16%)	241.09	97.57	All species
644	309-980	( 52%)	.112	.061-.164 ( 46%)	16.46	6.66	Black crappie
4872	4049-5695	( 17%)	.403	.290-.517 ( 28%)	124.50	50.38	Bluegill
1348	1023-1674	( 24%)	.118	.081-.154 ( 31%)	34.46	13.94	Channel catfish
503	353-654	( 30%)	.038	.025-.050 ( 34%)	12.86	5.20	Green sunfish
5	0-73	(1271%)	.003	.000-.048 (1271%)	0.14	0.06	Gizzard shad
1684	1357-2010	( 19%)	.140	.099-.182 ( 29%)	43.02	17.41	Largemouth bass
378	222-534	( 41%)	.031	.015-.047 ( 51%)	9.66	3.91	Redear sunfish

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

KG HARVESTED	95% CI		KG/HOUR	95% CI	KG/HA	AVE KG	SPECIES
2545	2192-2898	( 14%)	.233	.199-.266 ( 14%)	65.03	0.270	All species
209	101-318	( 52%)	.038	.014-.062 ( 62%)	5.35	0.325	Black crappie
373	303-444	( 19%)	.032	.020-.044 ( 38%)	9.54	0.077	Bluegill
1028	760-1296	( 26%)	.085	.058-.112 ( 32%)	26.27	0.763	Channel catfish
50	34-65	( 31%)	.004	.002-.005 ( 36%)	1.27	0.099	Green sunfish
0	0-2	(430%)	.000	.000-.001 (430%)	0.01	0.066	Gizzard shad
804	642-966	( 20%)	.067	.050-.085 ( 26%)	20.54	0.478	Largemouth bass
80	44-116	( 45%)	.006	.003-.009 ( 50%)	2.05	0.212	Redear sunfish

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

LB HARVESTED	95% CI		LB/HOUR	95% CI	LB/ACRE	AVE LB	SPECIES
5610	4832-6389	( 14%)	.513	.439-.587 ( 14%)	58.02	0.595	All species
462	223-701	( 52%)	.084	.032-.137 ( 62%)	4.77	0.717	Black crappie
823	668-979	( 19%)	.070	.044-.097 ( 38%)	8.51	0.169	Bluegill
2267	1675-2858	( 26%)	.188	.128-.248 ( 32%)	23.44	1.682	Channel catfish
109	75-144	( 31%)	.008	.005-.011 ( 36%)	1.13	0.217	Green sunfish
1	0-10	(1271%)	.000	.000-.003 (430%)	0.01	0.146	Gizzard shad
1772	1415-2130	( 20%)	.148	.110-.187 ( 26%)	18.33	1.053	Largemouth bass
176	97-256	( 45%)	.014	.007-.021 ( 50%)	1.83	0.467	Redear sunfish

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	
21225	18410-24040	( 13%)	1.870	1.610-2.130	( 14%)	542.37	219.49	All species
774	409-1140	( 47%)	.136	.077-.195	( 43%)	19.78	8.01	Black crappie
11279	9241-13318	( 18%)	.921	.689-1.154	( 25%)	288.23	116.64	Bluegill
1673	1296-2051	( 23%)	.139	.098-.179	( 29%)	42.76	17.31	Channel catfish
1558	1121-1994	( 28%)	.104	.075-.133	( 28%)	39.80	16.11	Green sunfish
8	0-33	(325%)	.004	.000-.018	(426%)	0.20	0.08	Gizzard shad
5447	4574-6320	( 16%)	.519	.403-.635	( 22%)	139.18	56.33	Largemouth bass
486	266-705	( 45%)	.048	.014-.082	( 71%)	12.41	5.02	Redear sunfish

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

KG CAUGHT	95% CI		KG/HOUR	95% CI	KG/HA	AVE KG	SPECIES	
4204	3681-4727	( 12%)	.398	.343-.453	( 14%)	107.43	0.198	All species
245	127-363	( 48%)	.045	.021-.069	( 53%)	6.26	0.317	Black crappie
492	406-578	( 17%)	.043	.028-.058	( 35%)	12.57	0.044	Bluegill
1107	835-1380	( 25%)	.090	.063-.118	( 30%)	28.30	0.662	Channel catfish
75	56-94	( 25%)	.005	.004-.007	( 32%)	1.92	0.048	Green sunfish
1	0-3	(207%)	.000	.000-.001	(414%)	0.03	0.143	Gizzard shad
2190	1790-2590	( 18%)	.206	.155-.256	( 24%)	55.96	0.402	Largemouth bass
94	51-136	( 45%)	.008	.003-.014	( 65%)	2.39	0.193	Redear sunfish

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

LB CAUGHT	95% CI		LB/HOUR	95% CI	LB/ACRE	AVE LB	SPECIES	
9268	8115-10421	( 12%)	.877	.756-.998	( 14%)	95.85	0.437	All species
540	281-800	( 48%)	.099	.047-.152	( 53%)	5.59	0.698	Black crappie
1085	895-1274	( 17%)	.094	.061-.127	( 35%)	11.22	0.096	Bluegill
2441	1840-3042	( 25%)	.199	.139-.260	( 30%)	25.25	1.459	Channel catfish
166	124-208	( 25%)	.012	.008-.016	( 32%)	1.72	0.107	Green sunfish
2	0-7	(207%)	.000	.000-.003	(414%)	0.02	0.314	Gizzard shad
4828	3946-5710	( 18%)	.453	.342-.564	( 24%)	49.93	0.886	Largemouth bass
206	112-300	( 45%)	.019	.006-.031	( 65%)	2.13	0.425	Redear sunfish

