

ILLINOIS NATURAL HISTORY SURVEY  
 CENTER FOR AQUATIC ECOLOGY  
 1991 CREEL SURVEY RESULTS

**1991 JONES LAKE**  
 100 ACRES  
 REGION 5, DISTRICT 17

STRATIFICATION SUMMARY:

Day creel only.  
 Results cover 03/15/1991 through 11/15/1991  
 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: 345/738 = 46.7%

NUMBER OF INTERVIEWS: 1444

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	5730	5188-6272 ( 9%)	58	52-63 ( 9%)	19%
	HOLIDAY	4093	3778-4408 ( 8%)	41	38-44 ( 8%)	42%
	TOTAL	9823	9197-10450 ( 6%)	99	92-105 ( 6%)	29%
SHORE	WEEKDAY	4461	3840-5082 ( 14%)	45	39-51 ( 14%)	14%
	HOLIDAY	3095	2747-3443 ( 11%)	31	28-35 ( 11%)	30%
	TOTAL	7556	6853-8259 ( 9%)	76	69-83 ( 9%)	21%
BOAT & SHORE	WEEKDAY	10192	9367-11016 ( 8%)	102	94-111 ( 8%)	17%
	HOLIDAY	7188	6733-7643 ( 6%)	72	68-77 ( 6%)	37%
	TOTAL	17380	16438-18321 ( 5%)	174	165-184 ( 5%)	25%

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

# HARVESTED	95% CI	#/HOUR	95% CI	#/HA	#/ACRE	SPECIES
15714	14364-17064 ( 9%)	.851	.768-.933 ( 10%)	389.86	157.77	All species
7	0-24 (236%)	.000	.000-.000 (236%)	0.17	0.07	Black bullhead
1596	1238-1954 ( 22%)	.140	.099-.181 ( 29%)	39.59	16.02	Black crappie
8260	7166-9354 ( 13%)	.398	.336-.460 ( 16%)	204.92	82.93	Bluegill
3337	2903-3771 ( 13%)	.194	.165-.222 ( 15%)	82.80	33.51	Channel catfish
121	41-202 ( 66%)	.008	.002-.014 ( 81%)	3.00	1.22	Green sunfish
1116	845-1387 ( 24%)	.059	.041-.077 ( 31%)	27.68	11.20	Largemouth bass
1273	921-1624 ( 28%)	.052	.033-.072 ( 38%)	31.57	12.78	Redear sunfish
5	0-18 (278%)	.000	.000-.001 (278%)	0.12	0.05	Warmouth

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

KG HARVESTED	95% CI	KG/HOUR	95% CI	KG/HA	AVE KG	SPECIES
3228	2948-3508 ( 9%)	.186	.167-.204 ( 10%)	80.08	0.205	All species
1	0-2 (231%)	.000	.000-.000 (231%)	0.02	0.108	Black bullhead
419	324-514 ( 23%)	.038	.027-.050 ( 31%)	10.39	0.263	Black crappie
689	600-778 ( 13%)	.034	.028-.039 ( 16%)	17.10	0.083	Bluegill
1084	936-1233 ( 14%)	.062	.053-.072 ( 15%)	26.90	0.325	Channel catfish
10	3-16 ( 66%)	.001	.000-.001 ( 82%)	0.24	0.080	Green sunfish
885	659-1111 ( 26%)	.045	.031-.058 ( 30%)	21.96	0.794	Largemouth bass
140	102-177 ( 27%)	.006	.004-.008 ( 35%)	3.46	0.110	Redear sunfish
0	0-2 (278%)	.000	.000-.000 (278%)	0.01	0.113	Warmouth

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

LB HARVESTED	95% CI	LB/HOUR	95% CI	LB/ACRE	AVE LB	SPECIES
7116	6499-7734 ( 9%)	.409	.368-.450 ( 10%)	71.45	0.453	All species
2	0-5 (231%)	.000	.000-.000 (231%)	0.02	0.238	Black bullhead
924	714-1133 ( 23%)	.085	.059-.111 ( 31%)	9.27	0.579	Black crappie
1519	1323-1716 ( 13%)	.074	.062-.086 ( 16%)	15.26	0.184	Bluegill
2390	2063-2718 ( 14%)	.138	.116-.159 ( 15%)	24.00	0.716	Channel catfish
21	7-35 ( 66%)	.001	.000-.003 ( 82%)	0.21	0.176	Green sunfish
1951	1453-2449 ( 26%)	.098	.069-.128 ( 30%)	19.59	1.750	Largemouth bass
308	225-391 ( 27%)	.013	.008-.018 ( 35%)	3.09	0.242	Redear sunfish
1	0-4 (278%)	.000	.000-.000 (318%)	0.01	0.248	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	
28566	26646-30485	( 7%)	1.529	1.420-1.638	( 7%)	708.69	286.80	All species
7	0-24	(236%)	.000	.000-.000	(236%)	0.17	0.07	Black bullhead
1702	1339-2065	( 21%)	.145	.104-.186	( 29%)	42.22	17.09	Black crappie
8831	7699-9963	( 13%)	.423	.360-.486	( 15%)	219.09	88.67	Bluegill
3580	3114-4047	( 13%)	.206	.176-.236	( 15%)	88.82	35.95	Channel catfish
121	41-202	( 66%)	.008	.002-.014	( 81%)	3.00	1.22	Green sunfish
12951	11339-14563	( 12%)	.692	.594-.789	( 14%)	321.31	130.03	Largemouth bass
1368	979-1757	( 28%)	.056	.035-.076	( 37%)	33.94	13.74	Redear sunfish
5	0-18	(278%)	.000	.000-.001	(278%)	0.12	0.05	Warmouth

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

KG CAUGHT	95% CI		KG/HOUR	95% CI	KG/HA	AVE KG	SPECIES	
8951	8152-9750	( 9%)	.496	.449-.542	( 9%)	222.07	0.313	All species
1	0-2	(231%)	.000	.000-.000	(231%)	0.02	0.108	Black bullhead
433	338-528	( 22%)	.039	.027-.051	( 30%)	10.74	0.255	Black crappie
717	627-806	( 12%)	.035	.030-.040	( 15%)	17.78	0.081	Bluegill
1133	980-1285	( 14%)	.065	.055-.075	( 15%)	28.10	0.316	Channel catfish
10	3-16	( 66%)	.001	.000-.001	( 82%)	0.24	0.080	Green sunfish
6509	5693-7325	( 13%)	.350	.300-.400	( 14%)	161.49	0.503	Largemouth bass
148	107-190	( 28%)	.006	.004-.008	( 35%)	3.68	0.108	Redear sunfish
0	0-2	(278%)	.000	.000-.000	(278%)	0.01	0.113	Warmouth

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

LB CAUGHT	95% CI		LB/HOUR	95% CI	LB/ACRE	AVE LB	SPECIES	
19733	17972-21495	( 9%)	1.093	.989-1.196	( 9%)	198.13	0.691	All species
2	0-5	(231%)	.000	.000-.000	(231%)	0.02	0.238	Black bullhead
955	745-1165	( 22%)	.086	.060-.112	( 30%)	9.59	0.561	Black crappie
1580	1383-1777	( 12%)	.077	.065-.089	( 15%)	15.87	0.179	Bluegill
2497	2160-2834	( 14%)	.143	.122-.164	( 15%)	25.07	0.697	Channel catfish
21	7-35	( 66%)	.001	.000-.003	( 82%)	0.21	0.176	Green sunfish
14351	12551-16150	( 13%)	.772	.662-.882	( 14%)	144.08	1.108	Largemouth bass
327	236-418	( 28%)	.014	.009-.018	( 35%)	3.28	0.239	Redear sunfish
1	0-4	(278%)	.000	.000-.000	(318%)	0.01	0.248	Warmouth