

ILLINOIS NATURAL HISTORY SURVEY
 CENTER FOR AQUATIC ECOLOGY
 1995 CREEL SURVEY RESULTS

1995 JONES STATE LAKE
 97 ACRES
 REGION 5, DISTRICT 24

STRATIFICATION SUMMARY:

Day creel only.
 Results cover 03/15/1995 through 11/15/1995
 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: 326/738 = 44.2%

NUMBER OF INTERVIEWS: 1623

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	4110	3462-4758 (16%)	43	36-49 (16%)	19%
	HOLIDAY	4237	3579-4894 (16%)	44	37-51 (16%)	50%
	TOTAL	8347	7424-9270 (11%)	86	77-96 (11%)	35%
SHORE	WEEKDAY	5831	4846-6816 (17%)	60	50-70 (17%)	21%
	HOLIDAY	5331	4242-6419 (20%)	55	44-66 (20%)	41%
	TOTAL	11162	9808-12515 (12%)	115	101-129 (12%)	31%
BOAT & SHORE	WEEKDAY	9942	8812-11072 (11%)	103	91-114 (11%)	20%
	HOLIDAY	9567	8323-10812 (13%)	99	86-112 (13%)	45%
	TOTAL	19509	17871-21147 (8%)	202	185-219 (8%)	32%

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

# HARVESTED	95% CI	#/HOUR	95% CI	#/HA	#/ACRE	SPECIES
14250	11902-16598 (16%)	.714	.520-.909 (27%)	364.14	147.37	All species
4798	3075-6520 (36%)	.279	.080-.478 (71%)	122.60	49.62	Black crappie
4041	2930-5151 (27%)	.186	.132-.241 (29%)	103.25	41.79	Bluegill
3147	2351-3944 (25%)	.144	.110-.178 (24%)	80.43	32.55	Channel catfish
161	0-343 (113%)	.006	.001-.010 (76%)	4.13	1.67	Green sunfish
		****	NOT RECORDED ****			Gizzard shad
321	158-485 (51%)	.011	.006-.015 (40%)	8.21	3.32	Largemouth bass
1781	1303-2260 (27%)	.089	.027-.151 (70%)	45.52	18.42	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
3126	2580-3671 (17%)	.148	.117-.179 (21%)	79.88	0.219	All species
669	445-892 (33%)	.038	.006-.070 (83%)	17.09	0.139	Black crappie
236	174-298 (26%)	.011	.008-.014 (29%)	6.03	0.058	Bluegill
1601	1160-2041 (28%)	.073	.054-.092 (26%)	40.90	0.509	Channel catfish
14	0-30 (119%)	.000	.000-.001 (84%)	0.35	0.086	Green sunfish
		****	NOT RECORDED ****			Gizzard shad
232	111-354 (52%)	.007	.004-.011 (41%)	5.94	0.724	Largemouth bass
374	274-474 (27%)	.018	.006-.031 (69%)	9.57	0.210	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
6892	5689-8094 (17%)	.326	.258-.394 (21%)	71.27	0.484	All species
1475	982-1967 (33%)	.084	.014-.154 (83%)	15.25	0.307	Black crappie
520	383-657 (26%)	.024	.017-.031 (29%)	5.38	0.129	Bluegill
3529	2557-4501 (28%)	.160	.119-.202 (26%)	36.49	1.121	Channel catfish
30	0-67 (119%)	.001	.000-.002 (84%)	0.31	0.189	Green sunfish
		****	NOT RECORDED ****			Gizzard shad
512	245-779 (52%)	.016	.010-.023 (41%)	5.30	1.595	Largemouth bass
825	605-1046 (27%)	.040	.012-.068 (69%)	8.54	0.463	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
36324	31435-41212	(13%)	1.752	1.479-2.024	(16%)	928.19	375.63 All species
6528	4133-8924	(37%)	.354	.135-.573	(62%)	166.82	67.51 Black crappie
13704	10816-16593	(21%)	.612	.451-.773	(26%)	350.19	141.72 Bluegill
4878	3192-6564	(35%)	.203	.157-.249	(23%)	124.65	50.44 Channel catfish
707	473-941	(33%)	.033	.020-.046	(40%)	18.07	7.31 Green sunfish
2	0-7	(231%)	.000	.000-.000	(231%)	0.06	0.02 Gizzard shad
8463	6776-10149	(20%)	.449	.343-.556	(24%)	216.25	87.51 Largemouth bass
2041	1519-2563	(26%)	.101	.028-.174	(73%)	52.15	21.11 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
6435	5548-7322	(14%)	.323	.274-.371	(15%)	164.43	0.177 All species
742	462-1022	(38%)	.041	.012-.070	(71%)	18.96	0.114 Black crappie
424	339-510	(20%)	.019	.015-.024	(25%)	10.85	0.031 Bluegill
1748	1278-2219	(27%)	.078	.059-.097	(25%)	44.67	0.358 Channel catfish
41	25-57	(39%)	.002	.001-.003	(40%)	1.05	0.058 Green sunfish
0	0-1	(231%)	.000	.000-.000	(231%)	0.01	0.198 Gizzard shad
3088	2479-3697	(20%)	.164	.122-.206	(26%)	78.90	0.365 Largemouth bass
391	290-492	(26%)	.019	.006-.032	(68%)	9.98	0.191 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
14186	12230-16142	(14%)	.711	.605-.818	(15%)	146.71	0.391 All species
1636	1019-2253	(38%)	.090	.026-.154	(71%)	16.92	0.251 Black crappie
936	748-1124	(20%)	.042	.032-.053	(25%)	9.68	0.068 Bluegill
3854	2817-4891	(27%)	.172	.129-.214	(25%)	39.86	0.790 Channel catfish
91	55-127	(39%)	.004	.003-.006	(40%)	0.94	0.129 Green sunfish
1	0-3	(236%)	.000	.000-.000	(231%)	0.01	0.436 Gizzard shad
6807	5465-8150	(20%)	.361	.268-.455	(26%)	70.40	0.804 Largemouth bass
861	638-1084	(26%)	.042	.013-.070	(68%)	8.90	0.422 Redear sunfish

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SAMPLING RATIO: 127/279 = 45.5%

NUMBER OF INTERVIEWS: 868

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	1974	1531-2418 (22%)	20	16-25 (22%)	21%
	HOLIDAY	1857	1396-2318 (25%)	19	14-24 (25%)	50%
	TOTAL	3831	3237-4425 (16%)	40	33-46 (16%)	35%
SHORE	WEEKDAY	3238	2393-4083 (26%)	33	25-42 (26%)	24%
	HOLIDAY	2851	1822-3881 (36%)	29	19-40 (36%)	42%
	TOTAL	6090	4893-7286 (20%)	63	51-75 (20%)	32%
BOAT & SHORE	WEEKDAY	5213	4299-6126 (18%)	54	44-63 (18%)	23%
	HOLIDAY	4708	3653-5763 (22%)	49	38-60 (22%)	45%
	TOTAL	9921	8604-11238 (13%)	103	89-116 (13%)	34%

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

# HARVESTED	95% CI		#/HOUR	95% CI	#/HA	#/ACRE	SPECIES
10355	8195-12515 (21%)		1.362	.854-1.871 (37%)	264.61	107.09	All species
4345	2637-6053 (39%)		.691	.166-1.216 (76%)	111.03	44.93	Black crappie
3006	1936-4075 (36%)		.332	.203-.461 (39%)	76.81	31.08	Bluegill
1085	677-1492 (38%)		.100	.064-.136 (36%)	27.72	11.22	Channel catfish
97	0-328 (237%)		.009	.000-.020 (116%)	2.48	1.01	Green sunfish
			****	NOT RECORDED ****			Gizzard shad
202	35-369 (83%)		.012	.007-.018 (45%)	5.15	2.08	Largemouth bass
1621	1153-2090 (29%)		.218	.055-.381 (75%)	41.43	16.77	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
1779	1419-2139 (20%)		.213	.141-.285 (34%)	45.46	0.172	All species
588	360-816 (39%)		.093	.009-.177 (90%)	15.02	0.135	Black crappie
180	120-240 (33%)		.020	.013-.028 (37%)	4.60	0.060	Bluegill
518	304-733 (41%)		.046	.027-.065 (42%)	13.24	0.478	Channel catfish
8	0-29 (244%)		.001	.000-.002 (134%)	0.22	0.087	Green sunfish
			****	NOT RECORDED ****			Gizzard shad
146	22-270 (85%)		.008	.004-.012 (47%)	3.74	0.728	Largemouth bass
338	241-435 (29%)		.045	.011-.078 (75%)	8.64	0.209	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
3922	3129-4715 (20%)		.469	.311-.628 (34%)	40.56	0.379	All species
1296	794-1799 (39%)		.205	.020-.389 (90%)	13.40	0.298	Black crappie
397	265-529 (33%)		.045	.028-.061 (37%)	4.11	0.132	Bluegill
1142	670-1615 (41%)		.101	.059-.144 (42%)	11.81	1.054	Channel catfish
19	0-64 (244%)		.002	.000-.004 (134%)	0.19	0.192	Green sunfish
			****	NOT RECORDED ****			Gizzard shad
322	49-596 (85%)		.018	.010-.027 (47%)	3.33	1.604	Largemouth bass
745	531-959 (29%)		.099	.025-.172 (75%)	7.71	0.460	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
21913	17849-25977	(19%)	2.672	2.052-3.293 (23%)	559.95	226.61	All species
5945	3567-8322	(40%)	.867	.290-1.445 (67%)	151.91	61.48	Black crappie
7926	5430-10422	(31%)	.806	.522-1.091 (35%)	202.54	81.97	Bluegill
1431	857-2005	(40%)	.130	.091-.168 (30%)	36.56	14.80	Channel catfish
309	115-503	(63%)	.028	.006-.050 (77%)	7.90	3.20	Green sunfish
2	0-7	(231%)	.000	.000-.001 (236%)	0.06	0.02	Gizzard shad
4499	3019-5979	(33%)	.597	.345-.849 (42%)	114.96	46.52	Largemouth bass
1800	1303-2298	(28%)	.244	.000-.503 (106%)	46.01	18.62	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
3474	2764-4185	(20%)	.446	.339-.553 (24%)	88.78	0.159	All species
653	366-941	(44%)	.099	.022-.175 (78%)	16.70	0.110	Black crappie
270	194-347	(28%)	.029	.020-.038 (31%)	6.91	0.034	Bluegill
563	344-782	(39%)	.050	.031-.070 (38%)	14.39	0.394	Channel catfish
19	3-34	(82%)	.002	.001-.003 (65%)	0.48	0.061	Green sunfish
0	0-1	(231%)	.000	.000-.000 (236%)	0.01	0.198	Gizzard shad
1618	1091-2145	(33%)	.221	.124-.318 (44%)	41.34	0.360	Largemouth bass
351	253-449	(28%)	.046	.012-.080 (74%)	8.97	0.195	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
7660	6093-9226	(20%)	.984	.748-1.220 (24%)	79.21	0.350	All species
1440	807-2074	(44%)	.218	.049-.386 (78%)	14.90	0.242	Black crappie
596	427-766	(28%)	.064	.044-.083 (31%)	6.16	0.075	Bluegill
1241	759-1724	(39%)	.111	.069-.153 (38%)	12.84	0.868	Channel catfish
41	7-75	(82%)	.004	.001-.006 (65%)	0.43	0.134	Green sunfish
1	0-3	(236%)	.000	.000-.000 (236%)	0.01	0.436	Gizzard shad
3566	2405-4728	(33%)	.486	.272-.700 (44%)	36.88	0.793	Largemouth bass
773	558-989	(28%)	.101	.026-.176 (74%)	8.00	0.430	Redear sunfish