

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

1991 WASHINGTON COUNTY
 245 ACRES
 REGION 4, DISTRICT 13

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: 354/738 = 48.0%

NUMBER OF INTERVIEWS: 2193

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	19571	17695-21446 (10%)	80	72-88 (10%)	10%
	HOLIDAY	20892	18825-22959 (10%)	85	77-94 (10%)	15%
	TOTAL	40463	37672-43254 (7%)	165	154-177 (7%)	13%
SHORE	WEEKDAY	9059	7919-10199 (13%)	37	32-42 (13%)	10%
	HOLIDAY	9102	8112-10092 (11%)	37	33-41 (11%)	14%
	TOTAL	18161	16651-19671 (8%)	74	68-80 (8%)	12%
BOAT & SHORE	WEEKDAY	28629	26435-30824 (8%)	117	108-126 (8%)	10%
	HOLIDAY	29994	27702-32286 (8%)	122	113-132 (8%)	15%
	TOTAL	58624	55450-61797 (5%)	239	226-252 (5%)	12%

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

# HARVESTED	95% CI	#/HOUR	95% CI	#/HA	#/ACRE	SPECIES
47546	42037-53055 (12%)	.636	.569-.703 (10%)	479.54	194.07	All species
26500	21962-31039 (17%)	.369	.314-.424 (15%)	267.28	108.17	Bluegill
12	0-31 (151%)	.000	.000-.000 (194%)	0.13	0.05	Bowfin
8099	6867-9332 (15%)	.095	.076-.114 (20%)	81.69	33.06	Channel catfish
2663	2153-3173 (19%)	.033	.025-.041 (25%)	26.86	10.87	Largemouth bass
1228	708-1749 (42%)	.018	.008-.028 (55%)	12.39	5.01	Redear sunfish
6730	5405-8056 (20%)	.080	.054-.105 (32%)	67.88	27.47	White crappie
2312	1790-2835 (23%)	.041	.030-.052 (26%)	23.32	9.44	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
10968	9870-12065 (10%)	.140	.125-.154 (10%)	110.62	0.231	All species
2216	1841-2591 (17%)	.031	.026-.035 (15%)	22.35	0.084	Bluegill
1	0-2 (151%)	.000	.000-.000 (183%)	0.01	0.073	Bowfin
4304	3588-5020 (17%)	.048	.038-.059 (22%)	43.41	0.531	Channel catfish
2281	1800-2762 (21%)	.028	.021-.036 (28%)	23.00	0.857	Largemouth bass
151	88-214 (41%)	.002	.001-.004 (65%)	1.52	0.123	Redear sunfish
862	682-1042 (21%)	.010	.005-.014 (45%)	8.69	0.128	White crappie
1153	887-1418 (23%)	.020	.015-.026 (26%)	11.63	0.499	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
24179	21761-26598 (10%)	.308	.276-.340 (10%)	98.69	0.509	All species
4886	4060-5711 (17%)	.068	.058-.078 (15%)	19.94	0.184	Bluegill
2	0-5 (151%)	.000	.000-.000 (183%)	0.01	0.161	Bowfin
9489	7911-11067 (17%)	.106	.083-.130 (22%)	38.73	1.172	Channel catfish
5028	3967-6090 (21%)	.062	.045-.080 (28%)	20.52	1.889	Largemouth bass
333	195-471 (41%)	.005	.002-.009 (65%)	1.36	0.271	Redear sunfish
1900	1504-2297 (21%)	.021	.012-.031 (45%)	7.76	0.282	White crappie
2541	1956-3127 (23%)	.045	.033-.056 (26%)	10.37	1.099	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
60094	53094-67095 (12%)	.810	.729-.892 (10%)	606.09	245.28	All species
34280	28427-40133 (17%)	.481	.411-.551 (14%)	345.74	139.92	Bluegill
17	0-37 (117%)	.000	.000-.001 (147%)	0.17	0.07	Bowfin
8914	7530-10299 (16%)	.103	.084-.123 (19%)	89.91	36.38	Channel catfish
4930	4184-5676 (15%)	.064	.050-.078 (22%)	49.73	20.12	Largemouth bass
1228	708-1749 (42%)	.018	.008-.028 (55%)	12.39	5.01	Redear sunfish
8310	6667-9953 (20%)	.101	.068-.134 (33%)	83.81	33.92	White crappie
2414	1889-2939 (22%)	.043	.032-.054 (25%)	24.35	9.85	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
12037	10877-13198 (10%)	.155	.140-.170 (10%)	121.41	0.200	All species
2558	2131-2985 (17%)	.036	.030-.041 (14%)	25.80	0.075	Bluegill
1	0-2 (130%)	.000	.000-.000 (161%)	0.01	0.061	Bowfin
4367	3642-5092 (17%)	.049	.038-.060 (22%)	44.04	0.490	Channel catfish
2869	2348-3390 (18%)	.037	.028-.046 (24%)	28.94	0.582	Largemouth bass
151	88-214 (41%)	.002	.001-.004 (65%)	1.52	0.123	Redear sunfish
919	728-1111 (21%)	.011	.006-.015 (44%)	9.27	0.111	White crappie
1172	906-1437 (23%)	.021	.015-.026 (26%)	11.82	0.486	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
26538	23980-29096 (10%)	.342	.308-.376 (10%)	108.32	0.442	All species
5640	4698-6582 (17%)	.078	.067-.090 (14%)	23.02	0.165	Bluegill
2	0-5 (130%)	.000	.000-.000 (161%)	0.01	0.136	Bowfin
9628	8030-11225 (17%)	.108	.084-.132 (22%)	39.30	1.080	Channel catfish
6325	5176-7474 (18%)	.082	.062-.102 (24%)	25.82	1.283	Largemouth bass
333	195-471 (41%)	.005	.002-.009 (65%)	1.36	0.271	Redear sunfish
2027	1604-2450 (21%)	.023	.013-.033 (44%)	8.27	0.244	White crappie
2583	1998-3168 (23%)	.045	.034-.057 (26%)	10.54	1.070	Yellow bullhead