

ILLINOIS NATURAL HISTORY SURVEY
 CENTER FOR AQUATIC ECOLOGY
 1993 CREEL SURVEY RESULTS

1993 WASHINGTON COUNTY LAKE
 245 ACRES
 REGION 4, DISTRICT 13

STRATIFICATION SUMMARY:

Day creel only.
 Results cover 03/15/1993 through 11/15/1993
 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: 350/738 = 47.4%

NUMBER OF INTERVIEWS: 1084

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	9969	8603-11335 (14%)	41	35-46 (14%)	9%
	HOLIDAY	12901	11375-14427 (12%)	53	46-59 (12%)	11%
	TOTAL	22870	20822-24919 (9%)	93	85-102 (9%)	10%
SHORE	WEEKDAY	5534	4478-6590 (19%)	23	18-27 (19%)	6%
	HOLIDAY	6032	5111-6954 (15%)	25	21-28 (15%)	8%
	TOTAL	11566	10165-12968 (12%)	47	41-53 (12%)	7%
BOAT & SHORE	WEEKDAY	15503	13776-17230 (11%)	63	56-70 (11%)	8%
	HOLIDAY	18934	17151-20716 (9%)	77	70-85 (9%)	10%
	TOTAL	34436	31954-36918 (7%)	141	130-151 (7%)	9%

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

# HARVESTED	95% CI	#/HOUR	95% CI	#/HA	#/ACRE	SPECIES
31459	26490-36429 (16%)	.625	.539-.712 (14%)	317.29	128.41	All species
16096	12125-20066 (25%)	.318	.251-.385 (21%)	162.33	65.70	Bluegill
9	0-28 (209%)	.000	.000-.000 (209%)	0.09	0.04	Bowfin
5	0-15 (207%)	.000	.000-.001 (207%)	0.05	0.02	Carp
3505	2344-4667 (33%)	.065	.048-.083 (27%)	35.36	14.31	Channel catfish
3438	2745-4131 (20%)	.068	.051-.084 (25%)	34.68	14.03	Largemouth bass
380	157-602 (59%)	.007	.003-.011 (62%)	3.83	1.55	Redear sunfish
6711	4546-8875 (32%)	.130	.076-.184 (41%)	67.68	27.39	White crappie
1316	944-1688 (28%)	.037	.024-.050 (36%)	13.27	5.37	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
8090	6953-9228 (14%)	.162	.138-.185 (15%)	81.60	0.257	All species
1441	1086-1797 (25%)	.028	.022-.034 (21%)	14.53	0.090	Bluegill
1	0-2 (208%)	.000	.000-.000 (209%)	0.01	0.089	Bowfin
4	0-14 (207%)	.000	.000-.001 (207%)	0.05	1.121	Carp
2303	1357-3249 (41%)	.043	.028-.057 (34%)	23.23	0.657	Channel catfish
3018	2380-3655 (21%)	.059	.043-.074 (27%)	30.44	0.878	Largemouth bass
55	24-87 (56%)	.001	.000-.001 (60%)	0.56	0.146	Redear sunfish
653	446-860 (32%)	.012	.008-.017 (36%)	6.58	0.097	White crappie
615	433-797 (30%)	.018	.011-.025 (38%)	6.20	0.468	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
17836	15328-20344 (14%)	.356	.304-.409 (15%)	72.80	0.567	All species
3177	2394-3961 (25%)	.062	.049-.076 (21%)	12.97	0.197	Bluegill
2	0-5 (209%)	.000	.000-.000 (209%)	0.01	0.196	Bowfin
10	0-30 (207%)	.001	.000-.002 (207%)	0.04	2.470	Carp
5077	2991-7163 (41%)	.094	.062-.126 (34%)	20.72	1.449	Channel catfish
6653	5248-8058 (21%)	.129	.095-.164 (27%)	27.16	1.935	Largemouth bass
122	53-191 (56%)	.002	.001-.003 (60%)	0.50	0.322	Redear sunfish
1439	983-1896 (32%)	.027	.017-.037 (36%)	5.87	0.215	White crappie
1356	954-1757 (30%)	.040	.025-.055 (38%)	5.53	1.031	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
42573	36365-48781 (15%)	.859	.746-.973 (13%)	429.38	173.77	All species
22562	17486-27639 (23%)	.447	.358-.536 (20%)	227.56	92.09	Bluegill
9	0-28 (209%)	.000	.000-.000 (209%)	0.09	0.04	Bowfin
5	0-15 (207%)	.000	.000-.001 (207%)	0.05	0.02	Carp
3832	2586-5078 (33%)	.073	.054-.092 (26%)	38.65	15.64	Channel catfish
5556	4666-6447 (16%)	.115	.092-.138 (20%)	56.04	22.68	Largemouth bass
380	157-602 (59%)	.007	.003-.011 (62%)	3.83	1.55	Redear sunfish
8394	5900-10888 (30%)	.169	.099-.240 (42%)	84.66	34.26	White crappie
1835	1352-2318 (26%)	.049	.034-.063 (30%)	18.51	7.49	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
9231	8001-10461 (13%)	.187	.161-.212 (14%)	93.10	0.217	All species
1738	1333-2142 (23%)	.034	.027-.041 (20%)	17.52	0.077	Bluegill
1	0-2 (208%)	.000	.000-.000 (209%)	0.01	0.089	Bowfin
4	0-14 (207%)	.000	.000-.001 (207%)	0.05	1.121	Carp
2346	1391-3300 (41%)	.044	.029-.058 (34%)	23.66	0.612	Channel catfish
3621	2934-4309 (19%)	.073	.055-.090 (24%)	36.52	0.652	Largemouth bass
55	24-87 (56%)	.001	.000-.001 (60%)	0.56	0.146	Redear sunfish
717	497-936 (31%)	.014	.009-.019 (36%)	7.23	0.085	White crappie
749	547-951 (27%)	.021	.014-.028 (33%)	7.56	0.409	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
20350	17639-23062 (13%)	.411	.355-.468 (14%)	83.06	0.478	All species
3831	2939-4722 (23%)	.075	.060-.091 (20%)	15.64	0.170	Bluegill
2	0-5 (209%)	.000	.000-.000 (209%)	0.01	0.196	Bowfin
10	0-30 (207%)	.001	.000-.002 (207%)	0.04	2.470	Carp
5171	3067-7275 (41%)	.096	.064-.129 (34%)	21.11	1.349	Channel catfish
7983	6468-9499 (19%)	.160	.122-.198 (24%)	32.59	1.437	Largemouth bass
122	53-191 (56%)	.002	.001-.003 (60%)	0.50	0.322	Redear sunfish
1580	1095-2065 (31%)	.031	.020-.042 (36%)	6.45	0.188	White crappie
1652	1206-2097 (27%)	.046	.031-.062 (33%)	6.74	0.901	Yellow bullhead