

ILLINOIS NATURAL HISTORY SURVEY  
 CENTER FOR AQUATIC ECOLOGY  
 1990 CREEL SURVEY RESULTS

1990 WASHINGTON CO  
 245 ACRES  
 REGION 4, DISTRICT 13

STRATIFICATION SUMMARY:

Day creel only.  
 Results cover 03/15/1990 through 06/15/1990  
 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: 152/279 = 54.5%

NUMBER OF INTERVIEWS: 883

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	8558	7117-9999 ( 17%)	35	29-41 ( 17%)	11%
	HOLIDAY	10843	8578-13108 ( 21%)	44	35-54 ( 21%)	15%
	TOTAL	19401	16812-21990 ( 13%)	79	69-90 ( 13%)	13%
SHORE	WEEKDAY	3594	2935-4253 ( 18%)	15	12-17 ( 18%)	8%
	HOLIDAY	4819	3498-6140 ( 27%)	20	14-25 ( 27%)	14%
	TOTAL	8413	6952-9874 ( 17%)	34	28-40 ( 17%)	11%
BOAT & SHORE	WEEKDAY	12152	10568-13736 ( 13%)	50	43-56 ( 13%)	10%
	HOLIDAY	15662	13183-18141 ( 16%)	64	54-74 ( 16%)	15%
	TOTAL	27814	24872-30756 ( 11%)	114	102-126 ( 11%)	13%

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

# HARVESTED	95% CI	#/HOUR	95% CI	#/HA	#/ACRE	SPECIES
27793	21297-34290 ( 23%)	.726	.597-.854 ( 18%)	280.32	113.44	All species
14285	8312-20259 ( 42%)	.339	.256-.421 ( 24%)	144.08	58.31	Bluegill
2	0-8 (318%)	.000	.000-.000 (318%)	0.02	0.01	Bowfin
3250	1742-4757 ( 46%)	.073	.043-.102 ( 40%)	32.78	13.26	Channel catfish
20	0-53 (167%)	.001	.000-.001 (146%)	0.20	0.08	Green sunfish
1668	1290-2047 ( 23%)	.058	.041-.076 ( 30%)	16.83	6.81	Largemouth bass
579	236-923 ( 59%)	.012	.005-.019 ( 58%)	5.84	2.36	Redear sunfish
7	0-19 (182%)	.000	.000-.001 (287%)	0.07	0.03	Warmouth
6919	4288-9550 ( 38%)	.196	.092-.300 ( 53%)	69.78	28.24	White crappie
1063	736-1390 ( 31%)	.048	.029-.066 ( 39%)	10.72	4.34	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
6020	4900-7140 ( 19%)	.174	.144-.204 ( 17%)	60.71	0.217	All species
1170	668-1672 ( 43%)	.028	.020-.035 ( 27%)	11.80	0.082	Bluegill
1	0-4 (430%)	.000	.000-.000 (318%)	0.01	0.731	Bowfin
2006	1054-2958 ( 47%)	.045	.024-.065 ( 46%)	20.23	0.617	Channel catfish
2	0-4 (168%)	.000	.000-.000 (146%)	0.02	0.084	Green sunfish
1683	1281-2085 ( 24%)	.060	.039-.080 ( 34%)	16.97	1.009	Largemouth bass
75	30-121 ( 61%)	.002	.001-.003 ( 62%)	0.76	0.130	Redear sunfish
1	0-3 (184%)	.000	.000-.000 (282%)	0.01	0.202	Warmouth
580	333-828 ( 43%)	.018	.007-.029 ( 59%)	5.85	0.084	White crappie
502	346-658 ( 31%)	.022	.014-.030 ( 36%)	5.06	0.472	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
13271	10802-15741 ( 19%)	.384	.318-.449 ( 17%)	54.17	0.478	All species
2580	1472-3687 ( 43%)	.061	.044-.078 ( 27%)	10.53	0.181	Bluegill
2	0-9 (430%)	.000	.000-.000 (430%)	0.01	1.611	Bowfin
4422	2323-6522 ( 47%)	.099	.053-.144 ( 46%)	18.05	1.361	Channel catfish
4	0-9 (168%)	.000	.000-.000 (146%)	0.01	0.184	Green sunfish
3710	2823-4596 ( 24%)	.131	.086-.176 ( 34%)	15.14	2.224	Largemouth bass
165	65-266 ( 61%)	.004	.001-.006 ( 62%)	0.68	0.286	Redear sunfish
3	0-8 (184%)	.000	.000-.000 (282%)	0.01	0.446	Warmouth
1279	734-1825 ( 43%)	.040	.016-.063 ( 59%)	5.22	0.185	White crappie
1107	763-1452 ( 31%)	.049	.032-.067 ( 36%)	4.52	1.041	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
32664	25343-39984 ( 22%)	.856	.710-1.003( 17%)	329.43	133.32	All species
16600	10062-23139 ( 39%)	.398	.301-.495 ( 24%)	167.43	67.76	Bluegill
2	0-8 (318%)	.000	.000-.000 (318%)	0.02	0.01	Bowfin
3416	1854-4977 ( 46%)	.075	.045-.105 ( 40%)	34.45	13.94	Channel catfish
20	0-53 (167%)	.001	.000-.001 (146%)	0.20	0.08	Green sunfish
2635	2182-3088 ( 17%)	.093	.068-.118 ( 27%)	26.57	10.75	Largemouth bass
596	251-940 ( 58%)	.012	.005-.019 ( 56%)	6.01	2.43	Redear sunfish
17	0-50 (187%)	.000	.000-.001 (191%)	0.18	0.07	Warmouth
8286	5091-11481 ( 39%)	.228	.111-.346 ( 51%)	83.57	33.82	White crappie
1092	761-1423 ( 30%)	.049	.030-.068 ( 39%)	11.01	4.46	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
6643	5477-7809 ( 18%)	.198	.165-.231 ( 17%)	67.00	0.203	All species
1269	743-1794 ( 41%)	.030	.023-.038 ( 26%)	12.79	0.076	Bluegill
1	0-4 (430%)	.000	.000-.000 (318%)	0.01	0.731	Bowfin
2033	1074-2993 ( 47%)	.045	.024-.066 ( 46%)	20.51	0.595	Channel catfish
2	0-4 (168%)	.000	.000-.000 (146%)	0.02	0.084	Green sunfish
2129	1684-2573 ( 21%)	.079	.054-.104 ( 32%)	21.47	0.808	Largemouth bass
77	31-122 ( 59%)	.002	.001-.003 ( 60%)	0.78	0.129	Redear sunfish
2	0-7 (184%)	.000	.000-.000 (233%)	0.02	0.137	Warmouth
622	360-883 ( 42%)	.019	.008-.030 ( 59%)	6.27	0.075	White crappie
509	351-666 ( 31%)	.023	.015-.031 ( 36%)	5.13	0.466	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
14645	12075-17215 ( 18%)	.437	.365-.509 ( 17%)	59.77	0.448	All species
2797	1639-3954 ( 41%)	.067	.050-.084 ( 26%)	11.42	0.168	Bluegill
2	0-9 (430%)	.000	.000-.000 (430%)	0.01	1.611	Bowfin
4483	2368-6598 ( 47%)	.100	.054-.145 ( 46%)	18.30	1.313	Channel catfish
4	0-9 (168%)	.000	.000-.000 (146%)	0.01	0.184	Green sunfish
4693	3713-5673 ( 21%)	.174	.119-.230 ( 32%)	19.16	1.782	Largemouth bass
170	69-270 ( 59%)	.004	.002-.006 ( 60%)	0.69	0.285	Redear sunfish
5	0-15 (184%)	.000	.000-.000 (233%)	0.02	0.303	Warmouth
1371	794-1947 ( 42%)	.042	.017-.066 ( 59%)	5.59	0.165	White crappie
1121	774-1468 ( 31%)	.050	.032-.068 ( 36%)	4.58	1.028	Yellow bullhead