

ILLINOIS NATURAL HISTORY SURVEY  
 CENTER FOR AQUATIC ECOLOGY  
 1989 CREEL SURVEY RESULTS

1989 WELDON SPRINGS  
 29 ACRES  
 REGION 3, DISTRICT 8

STRATIFICATION SUMMARY:

Day creel only.  
 Results cover 03/15/1989 through 05/31/1989  
 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: 62/234 = 26.5%

NUMBER OF INTERVIEWS: 294

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	1107	816-1399 ( 26%)	38	28-48 ( 26%)	13%
	HOLIDAY	631	352-909 ( 44%)	21	12-31 ( 44%)	17%
	TOTAL	1738	1377-2098 ( 21%)	59	47-71 ( 21%)	14%
SHORE	WEEKDAY	2067	1645-2488 ( 20%)	70	56-85 ( 20%)	13%
	HOLIDAY	952	0-2413 (153%)	32	0-82 (153%)	13%
	TOTAL	3019	1919-4118 ( 36%)	103	65-140 ( 36%)	13%
BOAT & SHORE	WEEKDAY	3174	2687-3661 ( 15%)	108	91-125 ( 15%)	13%
	HOLIDAY	1583	59-3106 ( 96%)	54	2-106 ( 96%)	15%
	TOTAL	4756	3698-5815 ( 22%)	162	126-198 ( 22%)	14%

2 strata had 1 sample.

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

# HARVESTED	95% CI	#/HOUR	95% CI	#/HA	#/ACRE	SPECIES
8822	6281-11363 ( 29%)	1.035	.748-1.323( 28%)	741.48	300.07	All species
2116	739-3493 ( 65%)	.329	.133-.525 ( 60%)	177.83	71.97	Black crappie
5069	3117-7020 ( 38%)	.504	.284-.725 ( 44%)	426.00	172.40	Bluegill
25	0-82 (224%)	.002	.000-.007 (237%)	2.12	0.86	Brown bullhead
698	463-933 ( 34%)	.097	.059-.134 ( 39%)	58.64	23.73	Channel catfish
752	466-1038 ( 38%)	.097	.058-.136 ( 41%)	63.19	25.57	Largemouth bass
163	0-465 (185%)	.006	.000-.017 (176%)	13.71	5.55	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
1962	1491-2433 ( 24%)	.239	.180-.299 ( 25%)	164.90	0.222	All species
262	89-435 ( 66%)	.040	.017-.063 ( 58%)	22.00	0.124	Black crappie
685	428-942 ( 37%)	.071	.039-.103 ( 45%)	57.56	0.135	Bluegill
21	0-73 (240%)	.002	.000-.006 (250%)	1.80	0.859	Brown bullhead
260	174-346 ( 33%)	.034	.021-.046 ( 37%)	21.87	0.373	Channel catfish
704	438-971 ( 38%)	.092	.054-.129 ( 41%)	59.18	0.938	Largemouth bass
30	0-92 (210%)	.001	.000-.003 (206%)	2.49	0.182	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
4325	3288-5363 ( 24%)	.528	.396-.659 ( 25%)	147.12	0.490	All species
577	196-958 ( 66%)	.088	.037-.139 ( 58%)	19.62	0.273	Black crappie
1510	944-2076 ( 37%)	.157	.087-.227 ( 45%)	51.36	0.298	Bluegill
47	0-161 (240%)	.004	.000-.014 (250%)	1.61	1.894	Brown bullhead
574	384-763 ( 33%)	.075	.047-.102 ( 37%)	19.51	0.823	Channel catfish
1552	965-2140 ( 38%)	.202	.120-.284 ( 41%)	52.80	2.067	Largemouth bass
65	0-202 (210%)	.002	.000-.007 (206%)	2.22	0.400	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
9899	7206-12592 ( 27%)	1.206	.894-1.518( 26%)	831.98	336.70	All species
2403	687-4120 ( 71%)	.370	.133-.608 ( 64%)	202.00	81.75	Black crappie
5179	3229-7129 ( 38%)	.519	.298-.740 ( 43%)	435.27	176.15	Bluegill
25	0-82 (224%)	.002	.000-.007 (237%)	2.12	0.86	Brown bullhead
698	463-933 ( 34%)	.097	.059-.134 ( 39%)	58.64	23.73	Channel catfish
1425	934-1915 ( 34%)	.212	.148-.276 ( 30%)	119.75	48.46	Largemouth bass
169	0-470 (179%)	.006	.000-.017 (171%)	14.20	5.75	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
2311	1786-2837 ( 23%)	.298	.233-.362 ( 22%)	194.27	0.234	All species
282	93-471 ( 67%)	.043	.018-.068 ( 58%)	23.71	0.117	Black crappie
691	435-948 ( 37%)	.072	.040-.104 ( 44%)	58.09	0.133	Bluegill
21	0-73 (240%)	.002	.000-.006 (250%)	1.80	0.859	Brown bullhead
260	174-346 ( 33%)	.034	.021-.046 ( 37%)	21.87	0.373	Channel catfish
1026	675-1378 ( 34%)	.146	.101-.191 ( 31%)	86.27	0.721	Largemouth bass
30	0-92 (207%)	.001	.000-.003 (204%)	2.52	0.178	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
5096	3937-6255 ( 23%)	.656	.514-.798 ( 22%)	173.32	0.515	All species
622	206-1038 ( 67%)	.094	.039-.149 ( 58%)	21.16	0.259	Black crappie
1524	958-2089 ( 37%)	.159	.089-.229 ( 44%)	51.83	0.294	Bluegill
47	0-161 (240%)	.004	.000-.014 (250%)	1.61	1.894	Brown bullhead
574	384-763 ( 33%)	.075	.047-.102 ( 37%)	19.51	0.823	Channel catfish
2263	1488-3038 ( 34%)	.322	.223-.421 ( 31%)	76.97	1.589	Largemouth bass
66	0-203 (207%)	.002	.000-.007 (204%)	2.24	0.393	Redear sunfish