

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

1990 MILL CREEK  
 732 ACRES  
 REGION 3, DISTRICT 8

STRATIFICATION SUMMARY:

Day creel only.  
 Results cover 03/15/1990 through 05/31/1990  
 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: 187/234 = 79.9%

NUMBER OF INTERVIEWS: 1202

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	16289	13054-19524 ( 20%)	22	18-27 ( 20%)	6%
	HOLIDAY	19157	13986-24328 ( 27%)	26	19-33 ( 27%)	9%
	TOTAL	35446	29347-41546 ( 17%)	48	40-57 ( 17%)	8%
SHORE	WEEKDAY	192	46-339 ( 76%)	0	0-0 ( 76%)	6%
	HOLIDAY	116	24-208 ( 80%)	0	0-0 ( 80%)	4%
	TOTAL	308	135-481 ( 56%)	0	0-1 ( 56%)	5%
BOAT & SHORE	WEEKDAY	16482	13243-19720 ( 20%)	23	18-27 ( 20%)	6%
	HOLIDAY	19273	14101-24445 ( 27%)	26	19-33 ( 27%)	9%
	TOTAL	35754	29652-41856 ( 17%)	49	41-57 ( 17%)	8%

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

# HARVESTED	95% CI	#/HOUR	95% CI	#/HA	#/ACRE	SPECIES
9554	6616-12492 ( 31%)	.115	.070-.160 ( 39%)	32.25	13.05	All species
2087	1092-3081 ( 48%)	.020	.007-.033 ( 67%)	7.04	2.85	Black crappie
2561	217-4905 ( 92%)	.053	.012-.094 ( 77%)	8.65	3.50	Bluegill
17	0-53 (212%)	.000	.000-.000 (212%)	0.06	0.02	Carp
44	0-123 (179%)	.000	.000-.001 (143%)	0.15	0.06	Channel catfish
3495	2469-4522 ( 29%)	.030	.020-.040 ( 33%)	11.80	4.78	Largemouth bass
		****	NOT RECORDED ****			Redear sunfish
1350	348-2352 ( 74%)	.011	.002-.020 ( 82%)	4.56	1.84	White crappie
		****	NOT RECORDED ****			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
4589	3392-5785 ( 26%)	.041	.030-.052 ( 27%)	15.49	0.480	All species
463	221-704 ( 52%)	.004	.001-.007 ( 80%)	1.56	0.222	Black crappie
180	17-344 ( 91%)	.004	.001-.006 ( 80%)	0.61	0.070	Bluegill
10	0-31 (211%)	.000	.000-.000 (212%)	0.03	0.622	Carp
12	0-37 (199%)	.000	.000-.000 (170%)	0.04	0.287	Channel catfish
3583	2519-4646 ( 30%)	.030	.020-.040 ( 33%)	12.09	1.025	Largemouth bass
		****	NOT RECORDED ****			Redear sunfish
341	87-595 ( 75%)	.003	.001-.005 ( 80%)	1.15	0.252	White crappie
		****	NOT RECORDED ****			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
10116	7478-12755 ( 26%)	.090	.065-.115 ( 27%)	13.82	1.059	All species
1020	488-1553 ( 52%)	.009	.002-.016 ( 80%)	1.39	0.489	Black crappie
398	37-758 ( 91%)	.008	.002-.014 ( 80%)	0.54	0.155	Bluegill
22	0-68 (211%)	.000	.000-.000 (212%)	0.03	1.371	Carp
27	0-81 (198%)	.000	.000-.000 (170%)	0.04	0.633	Channel catfish
7899	5554-10243 ( 30%)	.067	.045-.089 ( 33%)	10.79	2.260	Largemouth bass
		****	NOT RECORDED ****			Redear sunfish
751	191-1311 ( 75%)	.006	.001-.011 ( 80%)	1.03	0.557	White crappie
		****	NOT RECORDED ****			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
27972	22211-33733 ( 21%)	.342	.264-.421 ( 23%)	94.42	38.21	All species
2712	1398-4027 ( 48%)	.025	.011-.039 ( 57%)	9.16	3.71	Black crappie
3926	1448-6403 ( 63%)	.069	.026-.112 ( 63%)	13.25	5.36	Bluegill
17	0-53 (212%)	.000	.000-.000 (212%)	0.06	0.02	Carp
98	0-210 (114%)	.002	.000-.004 (139%)	0.33	0.13	Channel catfish
19184	15043-23325 ( 22%)	.224	.162-.287 ( 28%)	64.76	26.21	Largemouth bass
109	0-264 (143%)	.001	.000-.003 (171%)	0.37	0.15	Redear sunfish
1919	781-3056 ( 59%)	.021	.006-.036 ( 70%)	6.48	2.62	White crappie
8	0-23 (205%)	.000	.000-.001 (206%)	0.03	0.01	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
13298	10479-16116 ( 21%)	.156	.114-.197 ( 26%)	44.89	0.475	All species
556	249-863 ( 55%)	.004	.001-.008 ( 74%)	1.88	0.205	Black crappie
228	62-394 ( 73%)	.004	.001-.007 ( 72%)	0.77	0.058	Bluegill
10	0-31 (211%)	.000	.000-.000 (212%)	0.03	0.622	Carp
22	0-49 (119%)	.000	.000-.000 (129%)	0.07	0.227	Channel catfish
12116	9445-14787 ( 22%)	.144	.103-.184 ( 28%)	40.90	0.632	Largemouth bass
5	0-11 (140%)	.000	.000-.000 (178%)	0.02	0.042	Redear sunfish
360	103-618 ( 71%)	.003	.001-.005 ( 74%)	1.22	0.188	White crappie
1	0-4 (206%)	.000	.000-.000 (206%)	0.00	0.169	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
29316	23103-35529 ( 21%)	.343	.252-.434 ( 26%)	40.05	1.048	All species
1225	549-1902 ( 55%)	.010	.003-.017 ( 74%)	1.67	0.452	Black crappie
502	137-868 ( 73%)	.009	.003-.015 ( 72%)	0.69	0.128	Bluegill
22	0-68 (211%)	.000	.000-.000 (212%)	0.03	1.371	Carp
49	0-107 (119%)	.000	.000-.001 (129%)	0.07	0.499	Channel catfish
26711	20822-32600 ( 22%)	.317	.227-.406 ( 28%)	36.49	1.392	Largemouth bass
10	0-24 (140%)	.000	.000-.000 (178%)	0.01	0.093	Redear sunfish
794	227-1361 ( 71%)	.007	.002-.012 ( 74%)	1.09	0.414	White crappie
3	0-8 (206%)	.000	.000-.000 (206%)	0.00	0.373	Yellow bullhead