

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

1990 SHELBYVILLE
 10191 ACRES
 REGION 3, DISTRICT 21

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: 168/279 = 60.2%

NUMBER OF INTERVIEWS: 1650

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	36874	26643-47106 (28%)	4	3-5 (28%)	6%
	HOLIDAY	44900	26633-63168 (41%)	4	3-6 (41%)	9%
	TOTAL	81775	61183-102367(25%)	8	6-10 (25%)	8%
SHORE	WEEKDAY	1568	615-2521 (61%)	0	0-0 (61%)	1%
	HOLIDAY	1309	343-2275 (74%)	0	0-0 (74%)	3%
	TOTAL	2877	1584-4169 (45%)	0	0-0 (45%)	2%
BOAT & SHORE	WEEKDAY	38442	28208-48676 (27%)	4	3-5 (27%)	6%
	HOLIDAY	46209	27919-64500 (40%)	5	3-6 (40%)	9%
	TOTAL	84651	64019-105284(24%)	8	6-10 (24%)	8%

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

# HARVESTED	95% CI	#/HOUR	95% CI	#/HA	#/ACRE	SPECIES
135212	75218-195206 (44%)	.336	.254-.419 (25%)	32.78	13.27	All species
770	178-1362 (77%)	.001	.000-.002 (67%)	0.19	0.08	Black crappie
77	0-225 (191%)	.000	.000-.001 (188%)	0.02	0.01	Bluegill
191	0-572 (199%)	.001	.000-.004 (161%)	0.05	0.02	Carp
117	5-229 (95%)	.001	.000-.002 (110%)	0.03	0.01	Channel catfish
		****	NOT RECORDED ****			Freshwater drum
56	4-108 (92%)	.000	.000-.001 (128%)	0.01	0.01	Largemouth bass
		****	NOT RECORDED ****			Walleye
4773	0-10436 (119%)	.041	.000-.091 (121%)	1.16	0.47	White bass
129227	69850-188604(46%)	.291	.223-.360 (24%)	31.33	12.68	White crappie

Table 3. Total fishing harvest and harvest rates, in kilograms.

KG HARVESTED	95% CI	KG/HOUR	95% CI	KG/HA	AVE KG	SPECIES
31530	17768-45293 (44%)	.087	.058-.115 (33%)	7.65	0.233	All species
182	36-328 (80%)	.000	.000-.000 (70%)	0.04	0.236	Black crappie
8	0-21 (162%)	.000	.000-.000 (163%)	0.00	0.104	Bluegill
94	0-249 (164%)	.001	.000-.002 (180%)	0.02	0.494	Carp
120	0-249 (107%)	.001	.000-.002 (111%)	0.03	1.026	Channel catfish
		****	NOT RECORDED ****			Freshwater drum
43	7-78 (84%)	.000	.000-.001 (112%)	0.01	0.760	Largemouth bass
		****	NOT RECORDED ****			Walleye
2376	0-5218 (120%)	.020	.000-.045 (123%)	0.58	0.498	White bass
28708	15210-42205 (47%)	.064	.048-.080 (24%)	6.96	0.222	White crappie

Table 4. Total fishing harvest and harvest rates, in pounds.

LB HARVESTED	95% CI	LB/HOUR	95% CI	LB/ACRE	AVE LB	SPECIES
69512	39171-99853 (44%)	.191	.127-.254 (33%)	6.82	0.514	All species
400	79-722 (80%)	.001	.000-.001 (70%)	0.04	0.520	Black crappie
18	0-46 (162%)	.000	.000-.000 (163%)	0.00	0.229	Bluegill
208	0-549 (164%)	.002	.000-.005 (180%)	0.02	1.089	Carp
265	0-548 (107%)	.002	.000-.003 (111%)	0.03	2.262	Channel catfish
		****	NOT RECORDED ****			Freshwater drum
94	15-173 (84%)	.001	.000-.001 (112%)	0.01	1.677	Largemouth bass
		****	NOT RECORDED ****			Walleye
5238	0-11503 (120%)	.045	.000-.100 (123%)	0.51	1.098	White bass
63289	33533-93046 (47%)	.141	.106-.175 (24%)	6.21	0.490	White crappie

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
498426	266126-730727 (47%)	1.307	1.028-1.586 (21%)	120.85	48.91	All species
1396	346-2447 (75%)	.003	.000-.006 (88%)	0.34	0.14	Black crappie
404	0-924 (129%)	.009	.000-.028 (207%)	0.10	0.04	Bluegill
197	0-578 (193%)	.001	.000-.004 (157%)	0.05	0.02	Carp
125	9-241 (93%)	.001	.000-.002 (108%)	0.03	0.01	Channel catfish
38	0-103 (173%)	.000	.000-.000 (192%)	0.01	0.00	Freshwater drum
2027	983-3071 (52%)	.008	.003-.014 (68%)	0.49	0.20	Largemouth bass
73	0-201 (175%)	.000	.000-.001 (198%)	0.02	0.01	Walleye
5809	0-12607 (117%)	.050	.000-.110 (119%)	1.41	0.57	White bass
488348	257282-719413(47%)	1.233	.962-1.505(22%)	118.41	47.92	White crappie

Table 6. Total fishing catch and catch rates, in kilograms.

KG CAUGHT	95% CI	KG/HOUR	95% CI	KG/HA	AVE KG	SPECIES
66313	35925-96701 (46%)	.180	.137-.222 (24%)	16.08	0.133	All species
259	66-453 (74%)	.001	.000-.001 (78%)	0.06	0.186	Black crappie
25	0-57 (127%)	.000	.000-.001 (199%)	0.01	0.063	Bluegill
96	0-251 (162%)	.001	.000-.002 (179%)	0.02	0.486	Carp
120	0-249 (107%)	.001	.000-.002 (111%)	0.03	0.963	Channel catfish
12	0-37 (207%)	.000	.000-.000 (208%)	0.00	0.328	Freshwater drum
884	468-1300 (47%)	.004	.001-.006 (71%)	0.21	0.436	Largemouth bass
19	0-53 (174%)	.000	.000-.000 (197%)	0.00	0.267	Walleye
2534	0-5534 (118%)	.022	.000-.048 (121%)	0.61	0.436	White bass
62363	32410-92316 (48%)	.151	.117-.186 (23%)	15.12	0.128	White crappie

Table 7. Total fishing catch and catch rates, in pounds.

LB CAUGHT	95% CI	LB/HOUR	95% CI	LB/ACRE	AVE LB	SPECIES
146196	79202-213190(46%)	.396	.302-.490 (24%)	14.35	0.293	All species
572	146-998 (74%)	.001	.000-.002 (78%)	0.06	0.410	Black crappie
56	0-127 (127%)	.001	.000-.003 (199%)	0.01	0.138	Bluegill
211	0-553 (162%)	.002	.000-.005 (179%)	0.02	1.071	Carp
265	0-549 (107%)	.002	.000-.003 (111%)	0.03	2.122	Channel catfish
27	0-82 (207%)	.000	.000-.000 (208%)	0.00	0.722	Freshwater drum
1949	1033-2865 (47%)	.008	.002-.014 (71%)	0.19	0.962	Largemouth bass
43	0-118 (174%)	.000	.000-.001 (197%)	0.00	0.588	Walleye
5586	0-12201 (118%)	.048	.000-.106 (121%)	0.55	0.962	White bass
137487	71452-203523(48%)	.334	.259-.409 (23%)	13.49	0.282	White crappie