

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

1989 CARLTON
 77 ACRES
 REGION 1, DISTRICT 1

STRATIFICATION SUMMARY:

Day creel only.
 Results cover 03/15/1989 through 06/15/1989
 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: 136/279 = 48.7%

NUMBER OF INTERVIEWS: 1449

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	4301	3609-4993 (16%)	56	47-65 (16%)	26%
	HOLIDAY	7392	6179-8604 (16%)	96	81-112 (16%)	44%
	TOTAL	11692	10345-13040 (12%)	153	135-170 (12%)	38%
SHORE	WEEKDAY	2290	1969-2611 (14%)	30	26-34 (14%)	21%
	HOLIDAY	3674	3116-4233 (15%)	48	41-55 (15%)	32%
	TOTAL	5965	5345-6585 (10%)	78	70-86 (10%)	28%
BOAT & SHORE	WEEKDAY	6591	5828-7354 (12%)	86	76-96 (12%)	24%
	HOLIDAY	11066	9794-12338 (11%)	144	128-161 (11%)	40%
	TOTAL	17657	16174-19140 (8%)	231	211-250 (8%)	34%

4 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
4320	3182-5458	(26%)	.215	.152-.278 (29%)	139.35	56.39	All species
1287	972-1602	(24%)	.104	.054-.155 (48%)	41.52	16.80	Black crappie
2561	1451-3671	(43%)	.092	.049-.134 (46%)	82.62	33.43	Bluegill
43	8-79	(82%)	.003	.000-.009 (187%)	1.40	0.56	Channel catfish
72	0-159	(120%)	.003	.000-.006 (125%)	2.32	0.94	Green sunfish
315	183-446	(42%)	.012	.005-.018 (55%)	10.15	4.11	Largemouth bass
18	0-43	(147%)	.000	.000-.001 (126%)	0.56	0.23	Muskellunge
			****	NOT RECORDED ****			Tiger muskie
24	0-60	(148%)	.001	.000-.003 (175%)	0.78	0.32	Walleye

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

KG HARVESTED	95% CI		KG/HOUR	95% CI	KG/HA	AVE KG	SPECIES
798	610-985	(24%)	.045	.028-.062 (38%)	25.74	0.185	All species
227	170-284	(25%)	.018	.010-.027 (47%)	7.34	0.177	Black crappie
143	79-207	(45%)	.006	.001-.010 (85%)	4.62	0.056	Bluegill
67	6-129	(91%)	.007	.000-.024 (220%)	2.18	1.569	Channel catfish
8	0-17	(119%)	.000	.000-.001 (116%)	0.25	0.107	Green sunfish
297	185-409	(38%)	.011	.006-.017 (50%)	9.59	0.946	Largemouth bass
31	0-69	(123%)	.001	.000-.002 (125%)	1.00	1.822	Muskellunge
			****	NOT RECORDED ****			Tiger muskie
24	0-61	(155%)	.001	.000-.004 (195%)	0.77	0.995	Walleye

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

LB HARVESTED	95% CI		LB/HOUR	95% CI	LB/ACRE	AVE LB	SPECIES
1759	1345-2173	(24%)	.099	.061-.136 (38%)	22.96	0.407	All species
501	376-627	(25%)	.041	.022-.060 (47%)	6.55	0.390	Black crappie
316	174-457	(45%)	.012	.002-.023 (85%)	4.12	0.123	Bluegill
149	13-285	(91%)	.016	.000-.052 (220%)	1.94	3.458	Channel catfish
17	0-37	(119%)	.001	.000-.001 (116%)	0.22	0.237	Green sunfish
655	408-902	(38%)	.024	.012-.036 (50%)	8.55	2.086	Largemouth bass
68	0-152	(123%)	.002	.000-.003 (125%)	0.89	4.016	Muskellunge
			****	NOT RECORDED ****			Tiger muskie
53	0-134	(155%)	.003	.000-.008 (195%)	0.69	2.195	Walleye

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
13180	11285-15075 (14%)	.672	.533-.810 (21%)	425.17	172.06	All species
3293	2602-3985 (21%)	.272	.162-.381 (40%)	106.24	42.99	Black crappie
7883	6254-9512 (21%)	.309	.221-.397 (28%)	254.30	102.91	Bluegill
48	12-85 (76%)	.003	.000-.009 (184%)	1.55	0.63	Channel catfish
130	0-327 (152%)	.004	.000-.008 (122%)	4.19	1.69	Green sunfish
1590	1319-1861 (17%)	.074	.054-.094 (27%)	51.30	20.76	Largemouth bass
184	102-266 (45%)	.008	.003-.013 (65%)	5.93	2.40	Muskellunge
10	0-21 (102%)	.000	.000-.001 (144%)	0.33	0.13	Tiger muskie
41	0-83 (100%)	.002	.000-.004 (115%)	1.34	0.54	Walleye

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

KG CAUGHT	95% CI	KG/HOUR	95% CI	KG/HA	AVE KG	SPECIES
2592	2243-2942 (13%)	.130	.105-.155 (19%)	83.62	0.197	All species
382	300-463 (21%)	.032	.019-.044 (39%)	12.31	0.116	Black crappie
308	219-397 (29%)	.012	.005-.019 (59%)	9.92	0.039	Bluegill
68	7-130 (90%)	.007	.000-.024 (219%)	2.21	1.427	Channel catfish
10	0-22 (127%)	.000	.000-.001 (112%)	0.31	0.076	Green sunfish
1330	1100-1560 (17%)	.058	.040-.076 (31%)	42.90	0.836	Largemouth bass
415	238-593 (43%)	.018	.008-.028 (55%)	13.40	2.270	Muskellunge
27	0-57 (108%)	.001	.000-.001 (132%)	0.88	2.735	Tiger muskie
52	0-127 (145%)	.002	.000-.006 (140%)	1.68	1.269	Walleye

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

LB CAUGHT	95% CI	LB/HOUR	95% CI	LB/ACRE	AVE LB	SPECIES
5715	4944-6485 (13%)	.287	.231-.342 (19%)	74.60	0.434	All species
841	661-1021 (21%)	.070	.042-.097 (39%)	10.98	0.255	Black crappie
678	482-874 (29%)	.026	.011-.042 (59%)	8.85	0.086	Bluegill
151	15-287 (90%)	.016	.000-.052 (219%)	1.97	3.145	Channel catfish
21	0-49 (127%)	.001	.000-.001 (112%)	0.28	0.167	Green sunfish
2932	2426-3439 (17%)	.127	.087-.167 (31%)	38.28	1.844	Largemouth bass
916	524-1307 (43%)	.040	.018-.062 (55%)	11.96	5.004	Muskellunge
60	0-125 (108%)	.001	.000-.003 (132%)	0.79	6.029	Tiger muskie
115	0-281 (145%)	.005	.000-.013 (140%)	1.50	2.797	Walleye