

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

1990 CARLTON
 72 ACRES
 REGION 1, DISTRICT 1

STRATIFICATION SUMMARY:

Day creel only.
 Results cover 01/01/1990 through 11/15/1990
 Year periods stratified.
 Fishing modes (boat vs. shore) stratified.
 Day types (weekday vs. weekend/holiday) stratified.
 Day periods (morning, midday, and afternoon) stratified.
 Yearperiod 9 coalesced with yearperiod 10.

SAMPLING RATIO: 372/957 = 38.9%

NUMBER OF INTERVIEWS: 3308

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	10948	9460-12437 (14%)	152	132-173 (14%)	26%
	HOLIDAY	14415	13025-15805 (10%)	201	181-220 (10%)	47%
	TOTAL	25364	23327-27400 (8%)	353	325-382 (8%)	38%
SHORE	WEEKDAY	7267	6002-8533 (17%)	101	84-119 (17%)	20%
	HOLIDAY	8256	7114-9399 (14%)	115	99-131 (14%)	36%
	TOTAL	15524	13819-17228 (11%)	216	192-240 (11%)	29%
BOAT & SHORE	WEEKDAY	18216	16262-20169 (11%)	254	226-281 (11%)	24%
	HOLIDAY	22671	20872-24471 (8%)	316	291-341 (8%)	43%
	TOTAL	40887	38231-43543 (6%)	569	532-606 (6%)	35%

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

# HARVESTED	95% CI	#/HOUR	95% CI	#/HA	#/ACRE	SPECIES
13718	11292-16144 (18%)	.302	.183-.420 (39%)	472.09	191.05	All species
		****	NOT RECORDED			Black bullhead
1841	1435-2247 (22%)	.040	.026-.053 (33%)	63.36	25.64	Black crappie
11463	9299-13626 (19%)	.255	.147-.364 (42%)	394.49	159.65	Bluegill
86	36-137 (58%)	.003	.000-.006 (110%)	2.97	1.20	Channel catfish
		****	NOT RECORDED			Green sunfish
214	152-276 (29%)	.002	.001-.003 (40%)	7.37	2.98	Largemouth bass
18	1-36 (96%)	.000	.000-.000 (109%)	0.63	0.26	Muskellunge
77	22-131 (71%)	.001	.000-.002 (93%)	2.63	1.07	Redear sunfish
7	0-21 (194%)	.000	.000-.001 (219%)	0.24	0.10	Tiger muskie
12	1-22 (95%)	.000	.000-.000 (91%)	0.40	0.16	Walleye
		****	NOT RECORDED			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
1436	1221-1650 (15%)	.029	.020-.037 (31%)	49.41	0.105	All species
		****	NOT RECORDED			Black bullhead
208	162-255 (22%)	.004	.003-.006 (31%)	7.17	0.113	Black crappie
755	606-904 (20%)	.017	.010-.025 (44%)	25.99	0.066	Bluegill
117	44-189 (62%)	.002	.000-.005 (115%)	4.01	1.355	Channel catfish
		****	NOT RECORDED			Green sunfish
233	166-300 (29%)	.003	.001-.004 (44%)	8.02	1.088	Largemouth bass
61	0-127 (108%)	.001	.000-.001 (115%)	2.09	3.382	Muskellunge
14	2-26 (87%)	.000	.000-.000 (88%)	0.48	0.182	Redear sunfish
31	0-95 (203%)	.001	.000-.004 (223%)	1.07	4.459	Tiger muskie
17	0-37 (121%)	.000	.000-.000 (125%)	0.58	1.526	Walleye
		****	NOT RECORDED			White crappie

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

LB HARVESTED	95% CI		LB/HOUR	95% CI	LB/ACRE	AVE LB	SPECIES
3165	2692-3638	(15%)	.063	.044-.082 (31%)	44.08	0.231	All species
			****	NOT RECORDED	****		Black bullhead
460	357-562	(22%)	.010	.007-.012 (31%)	6.40	0.250	Black crappie
1665	1336-1994	(20%)	.038	.021-.055 (44%)	23.18	0.145	Bluegill
257	97-417	(62%)	.005	.000-.011 (115%)	3.58	2.987	Channel catfish
			****	NOT RECORDED	****		Green sunfish
513	366-661	(29%)	.006	.003-.008 (44%)	7.15	2.399	Largemouth bass
134	0-279	(108%)	.001	.000-.003 (115%)	1.87	7.456	Muskellunge
31	4-57	(87%)	.000	.000-.001 (88%)	0.43	0.402	Redear sunfish
69	0-209	(203%)	.003	.000-.009 (223%)	0.96	9.831	Tiger muskie
37	0-82	(121%)	.000	.000-.000 (125%)	0.52	3.365	Walleye
			****	NOT RECORDED	****		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
62860	56428-69293	(10%)	1.173	.912-1.434 (22%)	2163.35	875.49	All species
7	0-17	(149%)	.000	.000-.001 (145%)	0.24	0.10	Black bullhead
10485	8575-12395	(18%)	.194	.152-.235 (21%)	360.84	146.03	Black crappie
49346	43673-55019	(11%)	.921	.654-1.189 (29%)	1698.23	687.27	Bluegill
138	79-197	(43%)	.003	.000-.007 (91%)	4.75	1.92	Channel catfish
4	0-13	(231%)	.000	.000-.000 (231%)	0.13	0.05	Green sunfish
2422	2080-2764	(14%)	.046	.037-.056 (21%)	83.36	33.73	Largemouth bass
234	167-300	(28%)	.004	.002-.006 (47%)	8.04	3.25	Muskellunge
104	45-163	(56%)	.001	.000-.002 (80%)	3.59	1.45	Redear sunfish
7	0-21	(194%)	.000	.000-.001 (219%)	0.24	0.10	Tiger muskie
20	4-35	(77%)	.000	.000-.000 (95%)	0.68	0.28	Walleye
95	0-212	(124%)	.002	.000-.005 (159%)	3.25	1.32	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
5061	4539-5583	(10%)	.094	.080-.108 (15%)	174.18	0.081	All species
2	0-6	(157%)	.000	.000-.000 (163%)	0.07	0.307	Black bullhead
720	599-842	(17%)	.014	.011-.017 (20%)	24.79	0.069	Black crappie
2036	1796-2276	(12%)	.039	.028-.051 (29%)	70.08	0.041	Bluegill
168	75-262	(56%)	.003	.000-.005 (97%)	5.79	1.228	Channel catfish
0	0-0	(231%)	.000	.000-.000 (231%)	0.00	0.047	Green sunfish
1482	1193-1770	(19%)	.025	.019-.031 (25%)	50.99	0.612	Largemouth bass
581	417-745	(28%)	.012	.006-.018 (53%)	19.98	2.492	Muskellunge
18	5-30	(70%)	.000	.000-.000 (75%)	0.61	0.170	Redear sunfish
31	0-95	(203%)	.001	.000-.004 (223%)	1.07	4.459	Tiger muskie
20	0-41	(104%)	.000	.000-.000 (106%)	0.69	1.049	Walleye
3	0-7	(125%)	.000	.000-.000 (146%)	0.11	0.033	White crappie

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

LB CAUGHT	95% CI		LB/HOUR	95% CI	LB/ACRE	AVE LB	SPECIES
11158	10007-12309	(10%)	.207	.176-.237 (15%)	155.40	0.178	All species
5	0-12	(157%)	.000	.000-.001 (163%)	0.07	0.676	Black bullhead
1588	1320-1856	(17%)	.031	.025-.037 (20%)	22.12	0.151	Black crappie
4489	3961-5018	(12%)	.086	.061-.111 (29%)	62.52	0.091	Bluegill
371	165-577	(56%)	.006	.000-.012 (97%)	5.17	2.708	Channel catfish
0	0-1	(236%)	.000	.000-.000 (231%)	0.00	0.104	Green sunfish
3266	2631-3902	(19%)	.054	.041-.067 (25%)	45.49	1.349	Largemouth bass
1280	919-1641	(28%)	.026	.012-.040 (53%)	17.83	5.494	Muskellunge
39	12-66	(70%)	.000	.000-.001 (75%)	0.54	0.375	Redear sunfish
69	0-209	(203%)	.003	.000-.009 (223%)	0.96	9.831	Tiger muskie
44	0-90	(104%)	.000	.000-.001 (106%)	0.61	2.312	Walleye
7	0-15	(125%)	.000	.000-.000 (146%)	0.09	0.072	White crappie