

ILLINOIS NATURAL HISTORY SURVEY
 CENTER FOR AQUATIC ECOLOGY
 1991 CREEL SURVEY RESULTS

1991 CARLTON
 72 ACRES
 REGION 1, DISTRICT 1

STRATIFICATION SUMMARY:

Day creel only.
 Results cover 01/01/1991 through 11/15/1991
 Year periods stratified.
 Fishing modes (boat vs. shore) stratified.
 Day types (weekday vs. weekend/holiday) stratified.
 Day periods (morning, midday, and afternoon) stratified.
 Yearperiod 1 coalesced with yearperiod 2.
 Yearperiod 9 coalesced with yearperiod 10.

SAMPLING RATIO: 353/957 = 36.9%

NUMBER OF INTERVIEWS: 3290

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	12811	11257-14365 (12%)	178	157-200 (12%)	24%
	HOLIDAY	17492	15924-19061 (9%)	244	222-265 (9%)	46%
	TOTAL	30303	28095-32511 (7%)	422	391-453 (7%)	37%
SHORE	WEEKDAY	8645	7315-9976 (15%)	120	102-139 (15%)	19%
	HOLIDAY	7384	6608-8160 (11%)	103	92-114 (11%)	34%
	TOTAL	16029	14489-17570 (10%)	223	202-245 (10%)	26%
BOAT & SHORE	WEEKDAY	21456	19410-23502 (10%)	299	270-327 (10%)	22%
	HOLIDAY	24876	23126-26627 (7%)	346	322-371 (7%)	43%
	TOTAL	46332	43640-49025 (6%)	645	608-683 (6%)	33%

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

# HARVESTED	95% CI		#/HOUR	95% CI	#/HA	#/ACRE	SPECIES
24522	21418-27626	(13%)	.501	.381-.622 (24%)	843.94	341.54	All species
3	0-17	(430%)	.000	.000-.000 (318%)	0.11	0.04	Bluegill x
Green su							
5	0-15	(210%)	.000	.000-.000 (210%)	0.17	0.07	Black bullhead
13018	10892-15145	(16%)	.313	.206-.420 (34%)	448.03	181.32	Black crappie
10687	8750-12625	(18%)	.177	.117-.237 (34%)	367.81	148.85	Bluegill
340	220-459	(35%)	.004	.002-.005 (46%)	11.69	4.73	Channel catfish
55	0-164	(199%)	.003	.000-.010 (264%)	1.89	0.76	Green sunfish
106	58-154	(45%)	.001	.001-.002 (59%)	3.65	1.48	Largemouth bass
14	2-26	(86%)	.000	.000-.000 (93%)	0.48	0.19	Muskellunge
275	167-383	(39%)	.003	.002-.005 (47%)	9.46	3.83	Redear sunfish
19	2-37	(91%)	.000	.000-.000 (136%)	0.66	0.27	Walleye

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

KG HARVESTED	95% CI		KG/HOUR	95% CI	KG/HA	AVE KG	SPECIES
2690	2357-3024	(12%)	.052	.040-.065 (24%)	92.59	0.110	All species
0	0-1	(318%)	.000	.000-.000 (430%)	0.01	0.087	Bluegill x
Green su							
1	0-2	(211%)	.000	.000-.000 (210%)	0.02	0.131	Black bullhead
1493	1246-1740	(17%)	.035	.023-.047 (34%)	51.38	0.115	Black crappie
759	621-897	(18%)	.013	.008-.017 (35%)	26.12	0.071	Bluegill
200	107-293	(46%)	.002	.001-.003 (48%)	6.88	0.590	Channel catfish
9	0-31	(228%)	.001	.000-.002 (270%)	0.33	0.175	Green sunfish
105	57-152	(45%)	.001	.000-.002 (60%)	3.60	0.988	Largemouth bass
52	5-98	(90%)	.000	.000-.001 (106%)	1.78	3.968	Muskellunge
51	24-78	(53%)	.001	.000-.001 (55%)	1.75	0.186	Redear sunfish
21	2-41	(92%)	.000	.000-.000 (117%)	0.73	1.113	Walleye

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

LB HARVESTED	95% CI		LB/HOUR	95% CI	LB/ACRE	AVE LB	SPECIES
5931	5196-6667	(12%)	.115	.087-.143 (24%)	82.61	0.242	All species
1	0-2	(318%)	.000	.000-.000 (430%)	0.01	0.191	Bluegill x
Green su							
1	0-4	(210%)	.000	.000-.000 (211%)	0.02	0.289	Black bullhead
3291	2747-3836	(17%)	.077	.051-.103 (34%)	45.84	0.253	Black crappie
1673	1370-1977	(18%)	.028	.018-.037 (35%)	23.30	0.157	Bluegill
441	236-645	(46%)	.004	.002-.006 (48%)	6.14	1.300	Channel catfish
21	0-69	(228%)	.001	.000-.004 (270%)	0.29	0.387	Green sunfish
231	127-335	(45%)	.003	.001-.004 (60%)	3.22	2.178	Largemouth bass
114	11-217	(90%)	.001	.000-.001 (106%)	1.58	8.748	Muskellunge
112	52-172	(53%)	.001	.001-.002 (55%)	1.56	0.410	Redear sunfish
47	4-89	(92%)	.000	.000-.001 (117%)	0.65	2.453	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	
70539	62944-78134	(11%)	1.391	1.084-1.699	(22%)	2427.61	982.44	All species
3	0-17	(430%)	.000	.000-.000	(318%)	0.11	0.04	Bluegill x
Green su								
29	0-60	(105%)	.000	.000-.001	(141%)	1.01	0.41	Black bullhead
25246	21770-28722	(14%)	.601	.422-.779	(30%)	868.84	351.62	Black crappie
41775	35998-47551	(14%)	.732	.545-.919	(26%)	1437.67	581.82	Bluegill
772	574-969	(26%)	.010	.007-.013	(33%)	26.55	10.75	Channel catfish
57	0-166	(191%)	.003	.000-.010	(264%)	1.96	0.79	Green sunfish
2218	1881-2555	(15%)	.040	.030-.050	(26%)	76.34	30.89	Largemouth bass
90	58-123	(36%)	.001	.000-.001	(53%)	3.10	1.26	Muskellunge
327	212-443	(35%)	.004	.002-.006	(43%)	11.27	4.56	Redear sunfish
22	4-40	(83%)	.000	.000-.001	(118%)	0.75	0.30	Walleye

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

KG CAUGHT	95% CI		KG/HOUR	95% CI	KG/HA	AVE KG	SPECIES	
5586	5042-6130	(10%)	.106	.085-.127	(20%)	192.23	0.079	All species
0	0-1	(318%)	.000	.000-.000	(430%)	0.01	0.087	Bluegill x
Green su								
3	0-7	(124%)	.000	.000-.000	(107%)	0.10	0.103	Black bullhead
2338	2010-2666	(14%)	.053	.039-.068	(27%)	80.46	0.093	Black crappie
1814	1557-2070	(14%)	.033	.024-.041	(26%)	62.41	0.043	Bluegill
238	144-333	(40%)	.003	.002-.004	(44%)	8.19	0.309	Channel catfish
10	0-31	(227%)	.001	.000-.002	(270%)	0.33	0.170	Green sunfish
870	712-1029	(18%)	.014	.010-.017	(26%)	29.95	0.392	Largemouth bass
220	133-306	(40%)	.002	.001-.003	(48%)	7.55	2.439	Muskellunge
57	30-84	(48%)	.001	.000-.001	(51%)	1.95	0.173	Redear sunfish
37	0-76	(105%)	.000	.000-.001	(116%)	1.27	1.760	Walleye

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

LB CAUGHT	95% CI		LB/HOUR	95% CI	LB/ACRE	AVE LB	SPECIES	
12314	11115-13514	(10%)	.233	.188-.279	(20%)	171.51	0.175	All species
1	0-2	(318%)	.000	.000-.000	(430%)	0.01	0.191	Bluegill x
Green su								
7	0-15	(124%)	.000	.000-.000	(107%)	0.09	0.226	Black bullhead
5154	4432-5876	(14%)	.117	.085-.149	(27%)	71.78	0.204	Black crappie
3998	3432-4565	(14%)	.072	.053-.091	(26%)	55.69	0.096	Bluegill
525	317-733	(40%)	.006	.003-.009	(44%)	7.31	0.681	Channel catfish
21	0-69	(227%)	.001	.000-.004	(270%)	0.29	0.375	Green sunfish
1919	1569-2268	(18%)	.030	.023-.038	(26%)	26.72	0.865	Largemouth bass
484	293-675	(40%)	.004	.002-.006	(48%)	6.74	5.377	Muskellunge
125	65-185	(48%)	.001	.001-.002	(51%)	1.74	0.382	Redear sunfish
82	0-167	(105%)	.001	.000-.002	(116%)	1.14	3.881	Walleye

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 Results cover 03/15/1991 through 06/15/1991
 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: 133/279 = 47.7%

NUMBER OF INTERVIEWS: 1585

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	4758	3895-5621 (18%)	66	54-78 (18%)	27%
	HOLIDAY	7197	6043-8350 (16%)	100	84-116 (16%)	56%
	TOTAL	11955	10554-13356 (12%)	167	147-186 (12%)	44%
SHORE	WEEKDAY	2512	2042-2981 (19%)	35	28-42 (19%)	20%
	HOLIDAY	3736	3096-4377 (17%)	52	43-61 (17%)	36%
	TOTAL	6248	5478-7017 (12%)	87	76-98 (12%)	30%
BOAT & SHORE	WEEKDAY	7270	6287-8253 (14%)	101	88-115 (14%)	24%
	HOLIDAY	10933	9672-12194 (12%)	152	135-170 (12%)	49%
	TOTAL	18203	16604-19801 (9%)	254	231-276 (9%)	39%

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	
28590	23693-33487	(17%)	1.300	.953-1.647	(27%)	983.92	398.19	All species
3	0-17	(430%)	.000	.000-.001	(318%)	0.11	0.04	Bluegill x
Green su								
2	0-6	(278%)	.000	.000-.000	(278%)	0.05	0.02	Black bullhead
10232	8366-12098	(18%)	.595	.317-.872	(47%)	352.13	142.51	Black crappie
17307	13301-21314	(23%)	.658	.388-.929	(41%)	595.63	241.05	Bluegill
42	0-84	(103%)	.001	.000-.001	(79%)	1.43	0.58	Channel catfish
14	0-37	(156%)	.000	.000-.001	(198%)	0.50	0.20	Green sunfish
802	621-982	(23%)	.042	.024-.059	(42%)	27.59	11.16	Largemouth bass
45	22-67	(50%)	.001	.000-.002	(81%)	1.54	0.62	Muskellunge
134	59-209	(56%)	.003	.001-.004	(69%)	4.62	1.87	Redear sunfish
9	0-23	(143%)	.000	.000-.002	(230%)	0.32	0.13	Walleye

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

KG CAUGHT	95% CI		KG/HOUR	95% CI	KG/HA	AVE KG	SPECIES	
2343	2003-2684	(15%)	.112	.079-.145	(29%)	80.65	0.082	All species
0	0-1	(318%)	.000	.000-.000	(430%)	0.01	0.087	Bluegill x
Green su								
0	0-0	(278%)	.000	.000-.000	(278%)	0.00	0.114	Black bullhead
1000	794-1206	(21%)	.059	.027-.092	(55%)	34.41	0.098	Black crappie
774	601-947	(22%)	.029	.017-.040	(41%)	26.64	0.045	Bluegill
65	6-125	(91%)	.002	.000-.003	(110%)	2.25	1.596	Channel catfish
1	0-4	(188%)	.000	.000-.000	(209%)	0.05	0.106	Green sunfish
346	259-432	(25%)	.018	.011-.026	(42%)	11.90	0.432	Largemouth bass
109	47-170	(57%)	.003	.001-.005	(73%)	3.74	2.469	Muskellunge
22	9-35	(59%)	.000	.000-.001	(48%)	0.76	0.166	Redear sunfish
26	0-63	(144%)	.001	.000-.003	(149%)	0.89	2.866	Walleye

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

LB CAUGHT	95% CI		LB/HOUR	95% CI	LB/ACRE	AVE LB	SPECIES	
5166	4416-5917	(15%)	.247	.175-.319	(29%)	71.96	0.181	All species
1	0-2	(318%)	.000	.000-.000	(318%)	0.01	0.191	Bluegill x
Green su								
0	0-1	(278%)	.000	.000-.000	(278%)	0.00	0.251	Black bullhead
2204	1750-2658	(21%)	.130	.059-.202	(55%)	30.70	0.215	Black crappie
1706	1324-2089	(22%)	.063	.037-.089	(41%)	23.77	0.099	Bluegill
144	13-276	(91%)	.003	.000-.007	(110%)	2.01	3.519	Channel catfish
3	0-9	(188%)	.000	.000-.000	(209%)	0.05	0.235	Green sunfish
762	571-953	(25%)	.040	.023-.057	(42%)	10.62	0.952	Largemouth bass
239	104-375	(57%)	.007	.002-.012	(73%)	3.34	5.443	Muskellunge
49	20-78	(59%)	.001	.000-.001	(48%)	0.68	0.366	Redear sunfish
57	0-139	(144%)	.002	.000-.006	(149%)	0.79	6.319	Walleye