

ILLINOIS NATURAL HISTORY SURVEY
 CENTER FOR AQUATIC ECOLOGY
 1993 CREEL SURVEY RESULTS

1993 DOLAN LAKE
 72 ACRES
 REGION 5, DISTRICT 16

STRATIFICATION SUMMARY:

Day creel only.
 Results cover 03/15/1993 through 11/15/1993
 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: 306/738 = 41.5%

NUMBER OF INTERVIEWS: 491

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	1076	697-1454 (35%)	15	10-20 (35%)	13%
	HOLIDAY	1079	717-1441 (34%)	15	10-20 (34%)	27%
	TOTAL	2154	1653-2656 (23%)	30	23-37 (23%)	20%
SHORE	WEEKDAY	2525	1960-3090 (22%)	35	27-43 (22%)	11%
	HOLIDAY	2120	1813-2428 (15%)	30	25-34 (15%)	26%
	TOTAL	4645	4002-5288 (14%)	65	56-74 (14%)	17%
BOAT & SHORE	WEEKDAY	3601	2930-4271 (19%)	50	41-60 (19%)	11%
	HOLIDAY	3199	2735-3663 (15%)	45	38-51 (15%)	26%
	TOTAL	6800	5984-7615 (12%)	95	84-107 (12%)	18%

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

# HARVESTED	95% CI		#/HOUR	95% CI	#/HA	#/ACRE	SPECIES
6306	4213-8400	(33%)	.497	.271-.722 (45%)	217.93	88.20	All species
10	0-23	(140%)	.001	.000-.002 (165%)	0.33	0.13	Black crappie
3651	1788-5513	(51%)	.251	.085-.417 (66%)	126.17	51.06	Bluegill
1054	741-1367	(30%)	.067	.048-.085 (28%)	36.42	14.74	Channel catfish
206	71-341	(66%)	.016	.004-.028 (77%)	7.13	2.88	Largemouth bass
71	0-157	(120%)	.002	.000-.005 (166%)	2.47	1.00	Redear sunfish
41	0-82	(100%)	.002	.000-.004 (103%)	1.42	0.58	Walleye
4	0-13	(223%)	.000	.000-.000 (226%)	0.13	0.05	Warmouth
1207	578-1836	(52%)	.155	.000-.339 (120%)	41.72	16.88	White crappie
34	0-70	(108%)	.002	.000-.005 (153%)	1.17	0.47	Walleye x Sauger hy
21	0-44	(108%)	.002	.000-.006 (214%)	0.73	0.29	Yellow bullhead
8	0-25	(236%)	.000	.000-.001 (236%)	0.26	0.10	Yellow bass

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

KG HARVESTED	95% CI		KG/HOUR	95% CI	KG/HA	AVE KG	SPECIES
1310	1018-1602	(22%)	.101	.069-.133 (32%)	45.28	0.208	All species
3	0-7	(126%)	.000	.000-.001 (187%)	0.11	0.350	Black crappie
294	143-445	(51%)	.020	.007-.034 (65%)	10.16	0.081	Bluegill
503	359-647	(29%)	.034	.021-.048 (39%)	17.38	0.478	Channel catfish
205	63-346	(69%)	.016	.003-.029 (81%)	7.07	0.993	Largemouth bass
6	0-14	(120%)	.000	.000-.000 (166%)	0.22	0.088	Redear sunfish
45	0-95	(113%)	.002	.000-.005 (113%)	1.54	1.090	Walleye
1	0-2	(223%)	.000	.000-.000 (226%)	0.02	0.182	Warmouth
187	94-280	(50%)	.023	.000-.052 (123%)	6.46	0.155	White crappie
62	0-133	(114%)	.003	.000-.008 (149%)	2.15	1.890	Walleye x Sauger hy
4	0-8	(109%)	.001	.000-.002 (241%)	0.13	0.192	Yellow bullhead
1	0-3	(236%)	.000	.000-.000 (245%)	0.03	0.109	Yellow bass

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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
2888	2244-3532	(22%)	.222	.151-.292 (32%)	40.39	0.458	All species
7	0-16	(126%)	.001	.000-.002 (187%)	0.10	0.771	Black crappie
648	316-980	(51%)	.045	.016-.074 (65%)	9.07	0.178	Bluegill
1109	792-1426	(29%)	.075	.046-.105 (39%)	15.51	1.053	Channel catfish
451	139-762	(69%)	.036	.007-.065 (81%)	6.31	2.189	Largemouth bass
14	0-30	(120%)	.000	.000-.001 (166%)	0.19	0.194	Redear sunfish
99	0-210	(113%)	.005	.000-.010 (113%)	1.38	2.403	Walleye
1	0-4	(223%)	.000	.000-.000 (226%)	0.02	0.401	Warmouth
412	208-616	(50%)	.051	.000-.115 (123%)	5.76	0.341	White crappie
137	0-294	(114%)	.007	.000-.018 (149%)	1.92	4.166	Walleye x Sauger hy
8	0-18	(109%)	.001	.000-.004 (241%)	0.12	0.424	Yellow bullhead
2	0-6	(245%)	.000	.000-.000 (245%)	0.02	0.240	Yellow bass

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
12020	8873-15167 (26%)	.907	.483-1.332 (47%)	415.42	168.12	All species
17	0-36 (115%)	.001	.000-.002 (142%)	0.58	0.24	Black crappie
5549	3315-7784 (40%)	.344	.163-.526 (53%)	191.78	77.61	Bluegill
1614	1208-2019 (25%)	.106	.080-.132 (24%)	55.77	22.57	Channel catfish
891	439-1343 (51%)	.056	.027-.085 (52%)	30.79	12.46	Largemouth bass
71	0-157 (120%)	.002	.000-.005 (166%)	2.47	1.00	Redear sunfish
56	0-130 (131%)	.003	.000-.006 (132%)	1.94	0.79	Walleye
12	0-27 (121%)	.000	.000-.000 (127%)	0.42	0.17	Warmouth
3423	1832-5014 (46%)	.374	.000-.795 (113%)	118.30	47.87	White crappie
34	0-70 (108%)	.002	.000-.005 (153%)	1.17	0.47	Walleye x Sauger hy
196	61-330 (69%)	.011	.003-.019 (74%)	6.77	2.74	Yellow bullhead
157	0-373 (137%)	.009	.001-.018 (93%)	5.44	2.20	Yellow bass

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

KG CAUGHT	95% CI	KG/HOUR	95% CI	KG/HA	AVE KG	SPECIES
1743	1391-2094 (20%)	.130	.087-.172 (33%)	60.22	0.145	All species
6	0-13 (117%)	.000	.000-.001 (161%)	0.21	0.375	Black crappie
422	252-592 (40%)	.027	.012-.041 (53%)	14.59	0.076	Bluegill
538	391-684 (27%)	.037	.023-.050 (36%)	18.59	0.333	Channel catfish
292	135-448 (54%)	.022	.007-.036 (66%)	10.08	0.328	Largemouth bass
6	0-14 (120%)	.000	.000-.000 (166%)	0.22	0.088	Redear sunfish
50	0-111 (124%)	.002	.000-.005 (121%)	1.72	0.888	Walleye
1	0-3 (126%)	.000	.000-.000 (140%)	0.05	0.114	Warmouth
323	172-475 (47%)	.036	.000-.077 (116%)	11.17	0.094	White crappie
62	0-133 (114%)	.003	.000-.008 (149%)	2.15	1.890	Walleye x Sauger hy
30	9-52 (70%)	.002	.000-.004 (82%)	1.05	0.156	Yellow bullhead
12	0-23 (99%)	.001	.000-.001 (87%)	0.40	0.073	Yellow bass

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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
3842	3067-4616	(20%)	.286	.191-.380 (33%)	53.73	0.320	All species
13	0-29	(117%)	.001	.000-.002 (161%)	0.19	0.828	Black crappie
931	556-1306	(40%)	.059	.027-.090 (53%)	13.02	0.168	Bluegill
1186	862-1509	(27%)	.081	.051-.110 (36%)	16.58	0.735	Channel catfish
643	298-988	(54%)	.048	.016-.080 (66%)	8.99	0.722	Largemouth bass
14	0-30	(120%)	.000	.000-.001 (166%)	0.19	0.194	Redear sunfish
110	0-246	(124%)	.005	.000-.011 (121%)	1.53	1.957	Walleye
3	0-7	(126%)	.000	.000-.000 (140%)	0.04	0.251	Warmouth
713	379-1046	(47%)	.079	.000-.170 (116%)	9.97	0.208	White crappie
137	0-294	(114%)	.007	.000-.018 (149%)	1.92	4.166	Walleye x Sauger hy
67	20-114	(70%)	.004	.001-.008 (82%)	0.94	0.344	Yellow bullhead
25	0-51	(99%)	.002	.000-.003 (87%)	0.35	0.162	Yellow bass