

ILLINOIS NATURAL HISTORY SURVEY
 CENTER FOR AQUATIC ECOLOGY
 1998 CREEL SURVEY RESULTS

1998 DOLAN LAKE
 72 ACRES
 REGION 5, DISTRICT 20

STRATIFICATION SUMMARY:

Day creel only.
 Results cover 03/15/1998 through 10/31/1998
 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: 291/693 = 42.0%

NUMBER OF INTERVIEWS: 1150

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	2768	2157-3379 (22%)	39	30-47 (22%)	14%
	HOLIDAY	3566	3083-4049 (14%)	50	43-57 (14%)	27%
	TOTAL	6334	5556-7113 (12%)	89	78-99 (12%)	21%
SHORE	WEEKDAY	6833	5526-8139 (19%)	96	77-114 (19%)	11%
	HOLIDAY	6230	5388-7072 (14%)	87	75-99 (14%)	20%
	TOTAL	13062	11562-14562 (11%)	183	162-204 (11%)	16%
BOAT & SHORE	WEEKDAY	9601	8200-11001 (15%)	134	115-154 (15%)	12%
	HOLIDAY	9796	8825-10766 (10%)	137	123-151 (10%)	23%
	TOTAL	19396	17773-21020 (8%)	271	249-294 (8%)	18%

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

# HARVESTED	95% CI		#/HOUR	95% CI	#/HA	#/ACRE	SPECIES
13216	10567-15866	(20%)	.520	.302-.738 (42%)	456.75	184.84	All species
394	35-753	(91%)	.015	.001-.030 (94%)	13.61	5.51	Black crappie
4670	2893-6447	(38%)	.235	.000-.478 (103%)	161.40	65.32	Bluegill
6	0-21	(257%)	.000	.000-.000 (245%)	0.20	0.08	Carp
2394	1932-2855	(19%)	.102	.076-.129 (26%)	82.72	33.48	Channel catfish
			****	NOT RECORDED ****			Golden shiner
18	0-49	(174%)	.000	.000-.001 (174%)	0.62	0.25	Green sunfish
5	0-21	(318%)	.000	.000-.000 (318%)	0.18	0.07	Gizzard shad
71	28-114	(61%)	.002	.001-.004 (66%)	2.44	0.99	Largemouth bass
			****	NOT RECORDED ****			Muskellunge
279	123-435	(56%)	.010	.004-.015 (62%)	9.65	3.91	Redear sunfish
51	0-164	(220%)	.001	.000-.004 (223%)	1.77	0.72	Walleye
20	0-44	(125%)	.000	.000-.001 (174%)	0.68	0.27	Warmouth
17	0-46	(171%)	.001	.000-.004 (214%)	0.59	0.24	White bass
5000	3318-6683	(34%)	.144	.082-.205 (43%)	172.81	69.93	White crappie
124	45-202	(63%)	.004	.000-.007 (88%)	4.27	1.73	Yellow bullhead
168	0-354	(110%)	.005	.000-.019 (289%)	5.81	2.35	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
2154	1806-2502	(16%)	.082	.066-.097 (19%)	74.44	0.163	All species
63	7-119	(88%)	.002	.000-.005 (92%)	2.19	0.161	Black crappie
305	203-406	(33%)	.013	.007-.018 (45%)	10.54	0.065	Bluegill
2	0-7	(245%)	.000	.000-.000 (257%)	0.07	0.397	Carp
1110	874-1346	(21%)	.047	.035-.058 (25%)	38.35	0.464	Channel catfish
			****	NOT RECORDED ****			Golden shiner
1	0-4	(174%)	.000	.000-.000 (174%)	0.05	0.073	Green sunfish
1	0-6	(318%)	.000	.000-.000 (318%)	0.05	0.279	Gizzard shad
62	19-104	(69%)	.002	.001-.003 (72%)	2.13	0.880	Largemouth bass
			****	NOT RECORDED ****			Muskellunge
71	28-113	(61%)	.002	.001-.003 (63%)	2.44	0.253	Redear sunfish
3	0-10	(220%)	.000	.000-.000 (223%)	0.11	0.064	Walleye
2	0-6	(150%)	.000	.000-.000 (209%)	0.08	0.116	Warmouth
1	0-3	(171%)	.000	.000-.000 (214%)	0.04	0.072	White bass
438	274-602	(37%)	.013	.007-.020 (49%)	15.14	0.088	White crappie
63	19-108	(70%)	.002	.000-.003 (77%)	2.19	0.516	Yellow bullhead
31	0-74	(140%)	.001	.000-.004 (315%)	1.07	0.186	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
4749	3982-5516 (16%)	.180	.146-.214 (19%)	66.42	0.359	All species
140	16-263 (88%)	.005	.000-.010 (92%)	1.95	0.355	Black crappie
672	448-896 (33%)	.028	.015-.041 (45%)	9.40	0.144	Bluegill
4	0-16 (257%)	.000	.000-.000 (245%)	0.06	0.875	Carp
2446	1926-2966 (21%)	.103	.077-.129 (25%)	34.21	1.022	Channel catfish
		****	NOT RECORDED ****			Golden shiner
3	0-8 (174%)	.000	.000-.000 (174%)	0.04	0.160	Green sunfish
3	0-16 (430%)	.000	.000-.000 (430%)	0.04	0.615	Gizzard shad
136	42-229 (69%)	.004	.001-.007 (72%)	1.90	1.940	Largemouth bass
		****	NOT RECORDED ****			Muskellunge
156	61-250 (61%)	.004	.002-.007 (63%)	2.18	0.558	Redear sunfish
7	0-23 (223%)	.000	.000-.001 (223%)	0.10	0.140	Walleye
5	0-12 (150%)	.000	.000-.000 (209%)	0.07	0.256	Warmouth
3	0-7 (171%)	.000	.000-.001 (214%)	0.04	0.159	White bass
966	605-1327 (37%)	.029	.015-.043 (49%)	13.51	0.193	White crappie
140	43-237 (70%)	.003	.001-.006 (77%)	1.96	1.138	Yellow bullhead
68	0-164 (140%)	.002	.000-.009 (315%)	0.96	0.410	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
27103	22990-31215 (15%)	1.019	.788-1.250 (23%)	936.65	379.06	All species
742	16-1468 (98%)	.025	.000-.050 (99%)	25.64	10.38	Black crappie
9167	6943-11390 (24%)	.388	.175-.600 (55%)	316.80	128.21	Bluegill
10	0-25 (151%)	.000	.000-.000 (158%)	0.34	0.14	Carp
3698	2986-4409 (19%)	.158	.122-.194 (23%)	127.79	51.71	Channel catfish
13	0-31 (139%)	.000	.000-.001 (139%)	0.46	0.18	Golden shiner
61	0-171 (182%)	.002	.000-.006 (214%)	2.10	0.85	Green sunfish
21	0-93 (342%)	.001	.000-.007 (416%)	0.73	0.30	Gizzard shad
2234	1802-2667 (19%)	.100	.073-.127 (27%)	77.22	31.25	Largemouth bass
4	0-14 (245%)	.000	.000-.000 (257%)	0.14	0.06	Muskellunge
305	146-464 (52%)	.010	.004-.016 (58%)	10.55	4.27	Redear sunfish
164	2-327 (99%)	.004	.000-.008 (101%)	5.68	2.30	Walleye
203	104-302 (49%)	.009	.000-.029 (210%)	7.02	2.84	Warmouth
39	0-91 (138%)	.003	.000-.007 (145%)	1.33	0.54	White bass
9143	6781-11505 (26%)	.272	.191-.353 (30%)	315.99	127.88	White crappie
746	488-1004 (35%)	.024	.014-.034 (41%)	25.79	10.44	Yellow bullhead
552	229-876 (59%)	.022	.000-.050 (128%)	19.09	7.72	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
3604	3136-4071 (13%)	.140	.120-.161 (14%)	124.54	0.133	All species
80	12-147 (85%)	.003	.000-.006 (91%)	2.76	0.108	Black crappie
430	316-545 (27%)	.017	.010-.023 (38%)	14.87	0.047	Bluegill
4	0-10 (143%)	.000	.000-.000 (148%)	0.14	0.441	Carp
1309	1053-1565 (20%)	.055	.043-.068 (23%)	45.24	0.354	Channel catfish
0	0-1 (153%)	.000	.000-.000 (153%)	0.01	0.022	Golden shiner
4	0-13 (182%)	.000	.000-.000 (215%)	0.15	0.075	Green sunfish
2	0-7 (204%)	.000	.000-.000 (368%)	0.08	0.104	Gizzard shad
647	515-779 (20%)	.031	.022-.039 (28%)	22.35	0.289	Largemouth bass
1	0-3 (257%)	.000	.000-.000 (257%)	0.03	0.187	Muskellunge
73	31-116 (58%)	.002	.001-.003 (60%)	2.54	0.241	Redear sunfish
15	0-30 (97%)	.000	.000-.001 (99%)	0.52	0.092	Walleye
24	10-37 (56%)	.001	.000-.006 (292%)	0.83	0.118	Warmouth
2	0-5 (128%)	.000	.000-.000 (149%)	0.07	0.056	White bass
662	470-854 (29%)	.020	.013-.027 (37%)	22.87	0.072	White crappie
276	146-406 (47%)	.007	.005-.010 (36%)	9.54	0.370	Yellow bullhead
74	25-123 (67%)	.003	.000-.007 (139%)	2.55	0.134	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
7945	6914-8975 (13%)	.309	.264-.354 (14%)	111.11	0.293	All species
176	27-325 (85%)	.006	.001-.012 (91%)	2.46	0.237	Black crappie
949	696-1201 (27%)	.037	.023-.051 (38%)	13.27	0.104	Bluegill
9	0-21 (143%)	.000	.000-.000 (148%)	0.12	0.973	Carp
2886	2322-3451 (20%)	.122	.094-.151 (23%)	40.37	0.781	Channel catfish
1	0-2 (153%)	.000	.000-.000 (153%)	0.01	0.048	Golden shiner
10	0-28 (182%)	.000	.000-.001 (215%)	0.14	0.164	Green sunfish
5	0-15 (204%)	.000	.000-.001 (368%)	0.07	0.230	Gizzard shad
1426	1135-1716 (20%)	.068	.049-.087 (28%)	19.94	0.638	Largemouth bass
2	0-6 (257%)	.000	.000-.000 (257%)	0.02	0.411	Muskellunge
162	67-257 (58%)	.005	.002-.007 (60%)	2.26	0.531	Redear sunfish
33	1-66 (97%)	.001	.000-.002 (99%)	0.47	0.203	Walleye
53	23-82 (56%)	.003	.000-.013 (292%)	0.74	0.259	Warmouth
5	0-11 (128%)	.000	.000-.001 (149%)	0.07	0.123	White bass
1459	1036-1882 (29%)	.044	.028-.060 (37%)	20.40	0.160	White crappie
608	322-895 (47%)	.016	.010-.022 (36%)	8.51	0.815	Yellow bullhead
163	54-271 (67%)	.006	.000-.014 (139%)	2.28	0.295	Yellow bass

