

ILLINOIS NATURAL HISTORY SURVEY
 CENTER FOR AQUATIC ECOLOGY
 2003 CREEL SURVEY RESULTS

2003 DOLAN LAKE
 72 ACRES
 REGION 5, DISTRICT 20

STRATIFICATION SUMMARY:

Day creel only.
 Results cover 03/15/2003 through 10/31/2003
 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: 298/693 = 43.0%

NUMBER OF INTERVIEWS: 899

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	1852	1373-2330 (26%)	26	19-33 (26%)	14%
	HOLIDAY	2254	1870-2639 (17%)	32	26-37 (17%)	30%
	TOTAL	4106	3492-4720 (15%)	57	49-66 (15%)	22%
SHORE	WEEKDAY	3612	2890-4333 (20%)	51	40-61 (20%)	12%
	HOLIDAY	4828	4087-5570 (15%)	68	57-78 (15%)	28%
	TOTAL	8440	7405-9474 (12%)	118	104-133 (12%)	21%
BOAT & SHORE	WEEKDAY	5463	4598-6329 (16%)	76	64-89 (16%)	12%
	HOLIDAY	7083	6247-7918 (12%)	99	87-111 (12%)	28%
	TOTAL	12546	11343-13749 (10%)	175	159-192 (10%)	21%

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

# HARVESTED	95% CI	#/HOUR	95% CI	#/HA	#/ACRE	SPECIES
3682	2811-4553 (24%)	.220	.156-.284 (29%)	127.25	51.50	All species
		****	NOT RECORDED			Black bullhead
86	0-320 (270%)	.009	.000-.037 (306%)	2.99	1.21	Black crappie
40	0-138 (245%)	.001	.000-.003 (236%)	1.39	0.56	Bluegill
		****	NOT RECORDED			Unidentified catfis
2344	1895-2793 (19%)	.142	.105-.180 (26%)	81.01	32.79	Channel catfish
		****	NOT RECORDED			Green sunfish
121	45-196 (62%)	.004	.001-.006 (67%)	4.18	1.69	Largemouth bass
		****	NOT RECORDED			Redear sunfish
2	0-10 (318%)	.000	.000-.000 (318%)	0.08	0.03	Walleye
		****	NOT RECORDED			Warmouth
		****	NOT RECORDED			White bass
986	276-1697 (72%)	.060	.008-.112 (86%)	34.08	13.79	White crappie
60	0-129 (113%)	.003	.000-.008 (157%)	2.09	0.85	Yellow bullhead
41	0-114 (177%)	.001	.000-.003 (178%)	1.43	0.58	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
1350	1097-1604 (19%)	.089	.061-.117 (31%)	46.67	0.367	All species
		****	NOT RECORDED			Black bullhead
7	0-25 (271%)	.001	.000-.003 (306%)	0.23	0.078	Black crappie
3	0-10 (236%)	.000	.000-.000 (245%)	0.10	0.072	Bluegill
		****	NOT RECORDED			Unidentified catfis
1112	884-1341 (21%)	.079	.052-.107 (35%)	38.44	0.474	Channel catfish
		****	NOT RECORDED			Green sunfish
128	60-197 (54%)	.004	.002-.007 (59%)	4.44	1.062	Largemouth bass
		****	NOT RECORDED			Redear sunfish
4	0-22 (430%)	.000	.000-.001 (430%)	0.14	1.730	Walleye
		****	NOT RECORDED			Warmouth
		****	NOT RECORDED			White bass
60	17-104 (72%)	.003	.000-.006 (89%)	2.08	0.061	White crappie
22	0-55 (149%)	.001	.000-.002 (136%)	0.76	0.363	Yellow bullhead
14	0-44 (218%)	.000	.000-.001 (218%)	0.48	0.335	Yellow bass

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

LB HARVESTED	95% CI		LB/HOUR	95% CI	LB/ACRE	AVE LB	SPECIES
2977	2418-3536	(19%)	.196	.134-.257 (31%)	41.64	0.809	All species
			****	NOT RECORDED	****		Black bullhead
15	0-55	(271%)	.002	.000-.006 (306%)	0.21	0.172	Black crappie
6	0-22	(245%)	.000	.000-.001 (236%)	0.09	0.158	Bluegill
			****	NOT RECORDED	****		Unidentified catfis
2452	1948-2956	(21%)	.174	.114-.235 (35%)	34.29	1.046	Channel catfish
			****	NOT RECORDED	****		Green sunfish
283	131-435	(54%)	.010	.004-.015 (59%)	3.96	2.341	Largemouth bass
			****	NOT RECORDED	****		Redear sunfish
9	0-38	(318%)	.000	.000-.002 (430%)	0.13	3.814	Walleye
			****	NOT RECORDED	****		Warmouth
			****	NOT RECORDED	****		White bass
133	37-228	(72%)	.007	.001-.014 (89%)	1.86	0.135	White crappie
48	0-120	(149%)	.002	.000-.004 (136%)	0.68	0.800	Yellow bullhead
31	0-97	(218%)	.001	.000-.002 (218%)	0.43	0.739	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
15881	12777-18984 (20%)	.848	.684-1.012 (19%)	548.82	222.11	All species
2	0-6 (318%)	.000	.000-.000 (318%)	0.05	0.02	Black bullhead
217	0-525 (141%)	.020	.000-.049 (141%)	7.51	3.04	Black crappie
3597	2317-4876 (36%)	.123	.083-.162 (32%)	124.31	50.31	Bluegill
13	0-42 (220%)	.001	.000-.003 (220%)	0.46	0.18	Unidentified catfis
6755	5039-8471 (25%)	.420	.307-.533 (27%)	233.45	94.47	Channel catfish
38	0-121 (222%)	.001	.000-.002 (246%)	1.30	0.53	Green sunfish
1018	732-1304 (28%)	.047	.029-.066 (39%)	35.18	14.24	Largemouth bass
224	0-469 (109%)	.012	.000-.029 (136%)	7.74	3.13	Redear sunfish
38	0-95 (151%)	.001	.000-.004 (166%)	1.31	0.53	Walleye
21	0-48 (132%)	.000	.000-.001 (126%)	0.71	0.29	Warmouth
2	0-12 (430%)	.000	.000-.001 (430%)	0.08	0.03	White bass
3565	1972-5159 (45%)	.205	.108-.302 (47%)	123.22	49.87	White crappie
234	57-412 (76%)	.013	.000-.029 (125%)	8.10	3.28	Yellow bullhead
156	0-319 (104%)	.004	.001-.007 (84%)	5.40	2.19	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
2437	2069-2805 (15%)	.147	.114-.179 (22%)	84.22	0.153	All species
0	0-0 (318%)	.000	.000-.000 (318%)	0.00	0.074	Black bullhead
18	0-46 (154%)	.001	.000-.003 (176%)	0.63	0.084	Black crappie
225	143-306 (36%)	.008	.005-.010 (34%)	7.76	0.062	Bluegill
		****	NOT RECORDED ****			Unidentified catfis
1430	1159-1701 (19%)	.099	.069-.130 (31%)	49.42	0.212	Channel catfish
4	0-14 (241%)	.000	.000-.000 (253%)	0.14	0.110	Green sunfish
474	333-615 (30%)	.024	.015-.033 (38%)	16.39	0.466	Largemouth bass
28	0-61 (120%)	.001	.000-.003 (113%)	0.96	0.124	Redear sunfish
11	0-28 (148%)	.000	.000-.001 (149%)	0.38	0.294	Walleye
2	0-4 (141%)	.000	.000-.000 (127%)	0.06	0.085	Warmouth
0	0-2 (430%)	.000	.000-.000 (318%)	0.02	0.190	White bass
175	72-278 (59%)	.009	.004-.014 (53%)	6.06	0.049	White crappie
52	6-97 (89%)	.003	.000-.007 (129%)	1.78	0.220	Yellow bullhead
17	0-48 (175%)	.000	.000-.001 (156%)	0.60	0.111	Yellow bass

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

LB CAUGHT	95% CI		LB/HOUR	95% CI	LB/ACRE	AVE LB	SPECIES
5373	4560-6185	(15%)	.323	.251-.395 (22%)	75.14	0.338	All species
0	0-1	(318%)	.000	.000-.000 (430%)	0.00	0.162	Black bullhead
40	0-102	(154%)	.003	.000-.007 (176%)	0.56	0.185	Black crappie
495	315-675	(36%)	.017	.011-.023 (34%)	6.93	0.138	Bluegill
			****	NOT RECORDED	****		Unidentified catfis
3153	2556-3750	(19%)	.219	.151-.286 (31%)	44.10	0.467	Channel catfish
9	0-31	(241%)	.000	.000-.001 (253%)	0.13	0.243	Green sunfish
1046	735-1357	(30%)	.053	.033-.073 (38%)	14.63	1.027	Largemouth bass
61	0-135	(120%)	.003	.000-.006 (113%)	0.86	0.274	Redear sunfish
25	0-61	(148%)	.001	.000-.002 (149%)	0.34	0.649	Walleye
4	0-9	(141%)	.000	.000-.000 (127%)	0.05	0.187	Warmouth
1	0-5	(430%)	.000	.000-.000 (318%)	0.01	0.419	White bass
386	159-614	(59%)	.020	.009-.031 (53%)	5.40	0.108	White crappie
114	13-215	(89%)	.006	.000-.014 (129%)	1.59	0.485	Yellow bullhead
38	0-106	(175%)	.001	.000-.003 (156%)	0.54	0.245	Yellow bass

Table 8. Hours per completed trip and supplementary questions for all trips.

	MEAN	95% CI		MIN	MAX	#SAMPLES
HOURS PER COMPLETED TRIP*						
BOAT	3.1	2.7-3.4	(12%)	0.5	7.8	95
SHORE	1.8	1.6-2.1	(16%)	0.3	6.3	63
BOAT & SHORE	2.6	2.3-2.8	(10%)	0.3	7.8	158
MILES TRAVELED	28.4	24.2-32.7	(15%)	1	1000	748
SUCCESS RATING (1-10)	3.0	2.8-3.1	(6%)	1	10	746

*53 samples were from split interviews of completed trips.
18.7% of all 846 interviews were completed trips.

ILLEGAL HARVEST: Clerk noted 2 out of 846 interviews with illegal harvests.

Table 9. Frequency distribution of angler party size for all interviews.

PARTY SIZE:	1	2	3	4	5	6	7	8	9	10+
BOAT INTERVIEWS	63	180	14	6						
SHORE INTERVIEWS	114	303	78	60	17	9		1		1

Table 10. Number of interviews (and %) per species sought for all interviews.

244 (28.8%)	ANY	All species
6 (0.7%)	BLG	Bluegill
1 (0.1%)	CAP	Carp
421 (49.8%)	CAT	Unidentified catfish
2 (0.2%)	CCF	Channel catfish
41 (4.8%)	CRP	Crappie spp.
104 (12.3%)	LMB	Largemouth bass
1 (0.1%)	RSF	Redear sunfish
18 (2.1%)	WAE	Walleye
8 (0.9%)	WHC	White crappie

