

ILLINOIS NATURAL HISTORY SURVEY
 DIVISION OF ECOLOGY & CONSERVATION SCIENCE
 2006 CREEL SURVEY RESULTS

2006 BEAVER DAM LAKE
 56 ACRES
 REGION 4, DISTRICT 15

STRATIFICATION SUMMARY:

Day creel only.
 Results cover 03/15/2006 through 10/31/2006
 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: 305/693 = 44.0%

NUMBER OF INTERVIEWS: 956

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	3131	2433-3828 (22%)	55	43-68 (22%)	21%
	HOLIDAY	4224	3688-4759 (13%)	75	65-84 (13%)	33%
	TOTAL	7354	6475-8234 (12%)	130	115-146 (12%)	28%
SHORE	WEEKDAY	4098	3366-4829 (18%)	73	60-85 (18%)	17%
	HOLIDAY	4690	3278-6102 (30%)	83	58-108 (30%)	29%
	TOTAL	8788	7267-10309 (17%)	156	129-182 (17%)	23%
BOAT & SHORE	WEEKDAY	7229	6218-8239 (14%)	128	110-146 (14%)	19%
	HOLIDAY	8914	7450-10377 (16%)	158	132-184 (16%)	31%
	TOTAL	16142	14423-17862 (11%)	286	255-316 (11%)	25%

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

# HARVESTED	95% CI		#/HOUR	95% CI	#/HA	#/ACRE	SPECIES
4399	3111-5688	(29%)	.221	.148-.293 (33%)	192.39	77.86	All species
663	217-1108	(67%)	.041	.013-.068 (68%)	28.99	11.73	Black crappie
2355	1470-3240	(38%)	.129	.063-.195 (51%)	103.01	41.69	Bluegill
578	384-773	(34%)	.035	.019-.051 (45%)	25.30	10.24	Channel catfish
23	0-77	(228%)	.001	.000-.003 (238%)	1.02	0.41	Golden shiner
13	0-33	(160%)	.001	.000-.001 (145%)	0.56	0.23	Green sunfish
125	41-210	(67%)	.009	.000-.020 (129%)	5.48	2.22	Largemouth bass
635	0-1583	(149%)	.006	.000-.015 (164%)	27.77	11.24	Rainbow trout
4	0-12	(168%)	.000	.000-.000 (160%)	0.19	0.08	Redear sunfish
2	0-6	(278%)	.000	.000-.001 (318%)	0.07	0.03	White bass

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

KG HARVESTED	95% CI		KG/HOUR	95% CI	KG/HA	AVE KG	SPECIES
1738	1189-2287	(32%)	.091	.064-.119 (30%)	76.02	0.395	All species
372	28-715	(92%)	.021	.004-.038 (83%)	16.25	0.561	Black crappie
388	244-532	(37%)	.021	.010-.033 (54%)	16.96	0.165	Bluegill
577	383-771	(34%)	.037	.020-.054 (47%)	25.24	0.998	Channel catfish
4	0-12	(195%)	.000	.000-.001 (219%)	0.18	0.179	Golden shiner
2	0-4	(160%)	.000	.000-.000 (145%)	0.07	0.134	Green sunfish
113	33-192	(70%)	.010	.000-.027 (178%)	4.93	0.899	Largemouth bass
280	0-695	(148%)	.002	.000-.007 (199%)	12.27	0.442	Rainbow trout
1	0-4	(168%)	.000	.000-.000 (160%)	0.06	0.311	Redear sunfish
1	0-5	(318%)	.000	.000-.000 (278%)	0.05	0.674	White bass

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

LB HARVESTED	95% CI		LB/HOUR	95% CI	LB/ACRE	AVE LB	SPECIES
3832	2622-5043	(32%)	.201	.140-.262 (30%)	67.83	0.871	All species
819	62-1577	(92%)	.045	.008-.083 (83%)	14.50	1.236	Black crappie
855	538-1172	(37%)	.047	.022-.072 (54%)	15.13	0.363	Bluegill
1272	844-1700	(34%)	.081	.043-.119 (47%)	22.52	2.200	Channel catfish
9	0-27	(195%)	.000	.000-.001 (219%)	0.16	0.396	Golden shiner
4	0-10	(160%)	.000	.000-.000 (145%)	0.07	0.295	Green sunfish
248	73-423	(70%)	.021	.000-.059 (178%)	4.40	1.983	Largemouth bass
618	0-1533	(148%)	.005	.000-.016 (199%)	10.94	0.974	Rainbow trout
3	0-8	(168%)	.000	.000-.000 (160%)	0.05	0.685	Redear sunfish
2	0-9	(278%)	.000	.000-.001 (318%)	0.04	1.485	White 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
8862	7046-10678 (20%)	.433	.347-.519 (20%)	387.56	156.85	All species
852	377-1327 (56%)	.053	.023-.082 (55%)	37.25	15.07	Black crappie
3240	2229-4252 (31%)	.167	.100-.235 (40%)	141.72	57.35	Bluegill
895	665-1125 (26%)	.055	.033-.077 (40%)	39.16	15.85	Channel catfish
42	0-103 (148%)	.001	.000-.004 (167%)	1.82	0.74	Golden shiner
22	0-48 (121%)	.001	.000-.002 (118%)	0.95	0.39	Green sunfish
3082	1773-4392 (42%)	.143	.097-.190 (32%)	134.80	54.55	Largemouth bass
722	0-1673 (132%)	.012	.002-.021 (81%)	31.59	12.79	Rainbow trout
4	0-12 (168%)	.000	.000-.000 (160%)	0.19	0.08	Redear sunfish
2	0-6 (278%)	.000	.000-.001 (318%)	0.07	0.03	White bass

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

KG CAUGHT	95% CI	KG/HOUR	95% CI	KG/HA	AVE KG	SPECIES
3768	3001-4535 (20%)	.195	.154-.236 (21%)	164.79	0.425	All species
442	95-788 (78%)	.025	.008-.042 (69%)	19.32	0.519	Black crappie
498	339-657 (32%)	.026	.015-.037 (43%)	21.77	0.154	Bluegill
788	562-1014 (29%)	.050	.029-.072 (43%)	34.47	0.880	Channel catfish
7	0-17 (139%)	.000	.000-.001 (157%)	0.31	0.169	Golden shiner
3	0-6 (121%)	.000	.000-.000 (118%)	0.13	0.134	Green sunfish
1706	1148-2264 (33%)	.088	.058-.117 (34%)	74.60	0.553	Largemouth bass
322	0-739 (130%)	.005	.001-.010 (85%)	14.08	0.446	Rainbow trout
1	0-4 (168%)	.000	.000-.000 (160%)	0.06	0.311	Redear sunfish
1	0-5 (318%)	.000	.000-.000 (278%)	0.05	0.674	White bass

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

LB CAUGHT	95% CI	LB/HOUR	95% CI	LB/ACRE	AVE LB	SPECIES
8307	6616-9998 (20%)	.430	.339-.521 (21%)	147.02	0.937	All species
974	210-1738 (78%)	.055	.017-.093 (69%)	17.24	1.144	Black crappie
1097	747-1447 (32%)	.057	.033-.082 (43%)	19.42	0.339	Bluegill
1738	1239-2236 (29%)	.111	.063-.159 (43%)	30.75	1.941	Channel catfish
15	0-37 (139%)	.000	.000-.001 (157%)	0.27	0.371	Golden shiner
6	0-14 (121%)	.000	.000-.001 (118%)	0.11	0.295	Green sunfish
3761	2531-4991 (33%)	.194	.129-.259 (34%)	66.56	1.220	Largemouth bass
710	0-1629 (130%)	.012	.002-.022 (85%)	12.56	0.982	Rainbow trout
3	0-8 (168%)	.000	.000-.000 (160%)	0.05	0.685	Redear sunfish
2	0-9 (278%)	.000	.000-.001 (318%)	0.04	1.485	White bass

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

	MEAN	95% CI		MIN	MAX	#SAMPLES
HOURS PER COMPLETED TRIP*						
BOAT	3.5	3.2-3.7	(7%)	0.5	12.0	280
SHORE	2.6	2.4-2.8	(7%)	0.3	9.0	326
BOAT & SHORE	3.0	2.9-3.1	(5%)	0.3	12.0	606
MILES TRAVELED	26.9	25.3-28.6	(6%)	1	300	677
SUCCESS RATING (1-10)	3.4	3.2-3.7	(7%)	1	10	678

*238 samples were from split interviews of completed trips.
85.4% of all 710 interviews were completed trips.

ILLEGAL HARVEST: Clerk noted 7 out of 710 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	73	165	49	4						1
SHORE INTERVIEWS	147	187	50	26		4				4

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

283 (39.9%)	ANY	All species
37 (5.2%)	BLC	Black crappie
95 (13.4%)	BLG	Bluegill
118 (16.6%)	CCF	Channel catfish
3 (0.4%)	CRP	Crappie spp.
152 (21.4%)	LMB	Largemouth bass
22 (3.1%)	RBT	Rainbow trout

