

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

2006 MILL CREEK
 716 ACRES
 REGION 3, DISTRICT 11

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: 385/693 = 55.6%

NUMBER OF INTERVIEWS: 2477

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	24870	21054-28687 (15%)	35	29-40 (15%)	10%
	HOLIDAY	31936	26642-37230 (17%)	45	37-52 (17%)	32%
	TOTAL	56806	50280-63332 (11%)	79	70-88 (11%)	22%
SHORE	WEEKDAY	217	28-406 (87%)	0	0-1 (87%)	9%
	HOLIDAY	162	11-312 (93%)	0	0-0 (93%)	3%
	TOTAL	378	137-620 (64%)	1	0-1 (64%)	6%
BOAT & SHORE	WEEKDAY	25087	21266-28909 (15%)	35	30-40 (15%)	10%
	HOLIDAY	32097	26801-37394 (16%)	45	37-52 (16%)	32%
	TOTAL	57185	50654-63715 (11%)	80	71-89 (11%)	22%

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

# HARVESTED	95% CI	#/HOUR	95% CI	#/HA	#/ACRE	SPECIES
19567	15306-23828 (22%)	.172	.127-.217 (26%)	67.52	27.32	All species
		****	NOT RECORDED			Black bullhead
7849	5018-10679 (36%)	.061	.036-.087 (42%)	27.08	10.96	Black crappie
1355	654-2056 (52%)	.014	.004-.025 (72%)	4.68	1.89	Bluegill
962	444-1480 (54%)	.007	.003-.010 (59%)	3.32	1.34	Channel catfish
		****	NOT RECORDED			Crappie spp.
215	91-338 (58%)	.003	.000-.006 (145%)	0.74	0.30	Largemouth bass
3	0-11 (236%)	.000	.000-.000 (245%)	0.01	0.00	Longear sunfish
8	0-25 (223%)	.000	.000-.000 (223%)	0.03	0.01	Muskellunge
737	73-1402 (90%)	.006	.001-.011 (90%)	2.54	1.03	Redear sunfish
8434	6307-10560 (25%)	.082	.050-.114 (39%)	29.10	11.78	White crappie
4	0-16 (278%)	.000	.000-.000 (318%)	0.01	0.01	Yellow bullhead
		****	NOT RECORDED			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
5124	3911-6338 (24%)	.045	.032-.058 (29%)	17.68	0.262	All species
		****	NOT RECORDED			Black bullhead
1733	1133-2333 (35%)	.014	.008-.021 (45%)	5.98	0.221	Black crappie
180	86-275 (52%)	.002	.000-.004 (81%)	0.62	0.133	Bluegill
1346	495-2198 (63%)	.011	.002-.019 (78%)	4.65	1.400	Channel catfish
		****	NOT RECORDED			Crappie spp.
66	28-104 (57%)	.001	.000-.002 (159%)	0.23	0.308	Largemouth bass
0	0-0 (236%)	.000	.000-.000 (245%)	0.00	0.032	Longear sunfish
50	0-161 (220%)	.000	.000-.001 (220%)	0.17	6.391	Muskellunge
149	4-293 (97%)	.001	.000-.002 (97%)	0.51	0.201	Redear sunfish
1599	1172-2026 (27%)	.015	.009-.022 (44%)	5.52	0.190	White crappie
1	0-4 (318%)	.000	.000-.000 (318%)	0.00	0.230	Yellow bullhead
		****	NOT RECORDED			Yellow bass

2006 MILL CREEK

DAY CREEL

03/15/2006 - 10/31/2006

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

LB HARVESTED	95% CI	LB/HOUR	95% CI	LB/ACRE	AVE LB	SPECIES
11297	8622-13973 (24%)	.099	.070-.128 (29%)	15.78	0.577	All species
		****	NOT RECORDED			Black bullhead
3820	2497-5143 (35%)	.032	.017-.046 (45%)	5.33	0.487	Black crappie
398	190-605 (52%)	.004	.001-.008 (81%)	0.56	0.294	Bluegill
2968	1091-4845 (63%)	.024	.005-.043 (78%)	4.14	3.085	Channel catfish
		****	NOT RECORDED			Crappie spp.
146	62-229 (57%)	.002	.000-.005 (159%)	0.20	0.679	Largemouth bass
0	0-1 (236%)	.000	.000-.000 (236%)	0.00	0.070	Longear sunfish
111	0-357 (223%)	.001	.000-.003 (223%)	0.15	14.091	Muskellunge
328	10-645 (97%)	.003	.000-.005 (97%)	0.46	0.444	Redear sunfish
3525	2583-4467 (27%)	.034	.019-.049 (44%)	4.92	0.418	White crappie
2	0-8 (278%)	.000	.000-.000 (318%)	0.00	0.508	Yellow bullhead
		****	NOT RECORDED			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
81263	70120-92406 (14%)	.601	.512-.689 (15%)	280.40	113.48	All species
154	0-493 (220%)	.003	.000-.009 (223%)	0.53	0.22	Black bullhead
16924	11915-21932 (30%)	.139	.083-.194 (40%)	58.40	23.63	Black crappie
4762	2857-6666 (40%)	.044	.019-.069 (58%)	16.43	6.65	Bluegill
1200	553-1847 (54%)	.008	.003-.013 (59%)	4.14	1.68	Channel catfish
47	0-157 (236%)	.000	.000-.001 (236%)	0.16	0.06	Crappie spp.
36828	31343-42313 (15%)	.213	.180-.246 (15%)	127.07	51.43	Largemouth bass
3	0-11 (236%)	.000	.000-.000 (245%)	0.01	0.00	Longear sunfish
116	31-201 (73%)	.001	.000-.001 (73%)	0.40	0.16	Muskellunge
779	112-1447 (86%)	.006	.001-.011 (86%)	2.69	1.09	Redear sunfish
20324	15612-25036 (23%)	.187	.131-.243 (30%)	70.13	28.38	White crappie
123	0-368 (199%)	.001	.000-.003 (197%)	0.43	0.17	Yellow bullhead
2	0-8 (236%)	.000	.000-.000 (231%)	0.01	0.00	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
27934	24334-31533 (13%)	.178	.156-.201 (13%)	96.39	0.344	All species
2	0-5 (220%)	.000	.000-.000 (220%)	0.01	0.011	Black bullhead
2538	1765-3312 (30%)	.022	.013-.032 (43%)	8.76	0.150	Black crappie
392	225-559 (43%)	.004	.001-.007 (68%)	1.35	0.082	Bluegill
1436	556-2316 (61%)	.012	.003-.020 (75%)	4.95	1.196	Channel catfish
2	0-7 (231%)	.000	.000-.000 (236%)	0.01	0.044	Crappie spp.
20511	17528-23493 (15%)	.115	.098-.132 (15%)	70.77	0.557	Largemouth bass
0	0-0 (236%)	.000	.000-.000 (245%)	0.00	0.032	Longear sunfish
408	55-761 (87%)	.002	.000-.005 (81%)	1.41	3.513	Muskellunge
152	8-297 (95%)	.001	.000-.002 (95%)	0.53	0.196	Redear sunfish
2482	1831-3132 (26%)	.022	.014-.029 (35%)	8.56	0.122	White crappie
10	0-25 (159%)	.000	.000-.000 (161%)	0.03	0.080	Yellow bullhead
1	0-2 (231%)	.000	.000-.000 (231%)	0.00	0.318	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
61583	53648-69518 (13%)	.393	.343-.444 (13%)	85.99	0.758	All species
4	0-12 (223%)	.000	.000-.000 (220%)	0.01	0.024	Black bullhead
5596	3891-7302 (30%)	.049	.028-.070 (43%)	7.81	0.331	Black crappie
864	497-1232 (43%)	.009	.003-.015 (68%)	1.21	0.182	Bluegill
3166	1226-5106 (61%)	.025	.006-.045 (75%)	4.42	2.638	Channel catfish
4	0-15 (236%)	.000	.000-.000 (231%)	0.01	0.096	Crappie spp.
45218	38643-51794 (15%)	.254	.217-.291 (15%)	63.14	1.228	Largemouth bass
0	0-1 (236%)	.000	.000-.000 (236%)	0.00	0.070	Longear sunfish
900	121-1678 (87%)	.005	.001-.010 (81%)	1.26	7.746	Muskellunge
336	18-654 (95%)	.003	.000-.005 (95%)	0.47	0.431	Redear sunfish
5471	4037-6905 (26%)	.048	.031-.064 (35%)	7.64	0.269	White crappie
22	0-56 (159%)	.000	.000-.000 (161%)	0.03	0.175	Yellow bullhead
2	0-5 (231%)	.000	.000-.000 (231%)	0.00	0.701	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	6.4	6.2-6.5 (3%)	0.4	11.8	699
SHORE	2.8	*** undefined ***	2.8	2.8	1
BOAT & SHORE	6.4	6.2-6.5 (3%)	0.4	11.8	700
MILES TRAVELED	39.1	37.1-41.0 (5%)	1	700	1528
SUCCESS RATING (1-10)	3.5	3.4-3.6 (3%)	1	10	1524

*619 samples were from split interviews of completed trips.
 38.2% of all 1831 interviews were completed trips.

ILLEGAL HARVEST: Clerk noted 0 out of 1831 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	181	1596	43	2			1			
SHORE INTERVIEWS	4	1	3							

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

61 (3.3%)	ANY	All species
9 (0.5%)	BLG	Bluegill
29 (1.6%)	CAT	Unidentified catfish
3 (0.2%)	CCF	Channel catfish
298 (16.3%)	CRP	Crappie spp.
1410 (77.0%)	LMB	Largemouth bass
16 (0.9%)	MUE	Muskellunge
2 (0.1%)	RSF	Redear sunfish
3 (0.2%)	WAE	Walleye

