

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

2006 BANNER MARSH
 1150 ACRES
 REGION 1, DISTRICT 4

STRATIFICATION SUMMARY:

Day creel only.
 Results cover 03/15/2006 through 10/18/2006
 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: 413/654 = 63.1%

NUMBER OF INTERVIEWS: 4864

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	35877	30128-41626 (16%)	31	26-36 (16%)	14%
	HOLIDAY	38812	34110-43514 (12%)	34	30-38 (12%)	28%
	TOTAL	74689	67483-81894 (10%)	65	59-71 (10%)	21%
SHORE	WEEKDAY	11930	10364-13497 (13%)	10	9-12 (13%)	10%
	HOLIDAY	11371	9799-12943 (14%)	10	9-11 (14%)	20%
	TOTAL	23301	21082-25520 (10%)	20	18-22 (10%)	15%
BOAT & SHORE	WEEKDAY	47807	41871-53743 (12%)	42	36-47 (12%)	13%
	HOLIDAY	50183	45225-55141 (10%)	44	39-48 (10%)	26%
	TOTAL	97990	90451-105529(8%)	85	79-92 (8%)	20%

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

# HARVESTED	95% CI		#/HOUR	95% CI	#/HA	#/ACRE	SPECIES
13394	11451-15337	(15%)	.135	.102-.169 (25%)	28.78	11.65	All species
4	0-11	(211%)	.000	.000-.000 (211%)	0.01	0.00	Bluegill x Green
su							
1902	1446-2358	(24%)	.016	.010-.022 (38%)	4.09	1.65	Black crappie
3693	2478-4909	(33%)	.044	.013-.076 (71%)	7.94	3.21	Bluegill
59	0-119	(100%)	.001	.000-.001 (141%)	0.13	0.05	Carp
2350	1943-2756	(17%)	.026	.020-.032 (23%)	5.05	2.04	Channel catfish
			****	NOT RECORDED ****			Crappie spp.
			****	NOT RECORDED ****			Flathead catfish
			****	NOT RECORDED ****			Freshwater drum
61	21-101	(66%)	.001	.000-.001 (71%)	0.13	0.05	Green sunfish
2055	1687-2423	(18%)	.021	.016-.026 (24%)	4.42	1.79	Largemouth bass
			****	NOT RECORDED ****			Muskellunge
2	0-8	(245%)	.000	.000-.000 (245%)	0.01	0.00	Northern pike
102	3-200	(97%)	.001	.000-.001 (94%)	0.22	0.09	Redear sunfish
			****	NOT RECORDED ****			Smallmouth bass
88	38-138	(56%)	.000	.000-.001 (56%)	0.19	0.08	Walleye
			****	NOT RECORDED ****			Warmouth
44	6-82	(86%)	.000	.000-.001 (98%)	0.09	0.04	White bass
2514	1889-3140	(25%)	.019	.015-.024 (25%)	5.40	2.19	White crappie
519	338-700	(35%)	.006	.003-.008 (42%)	1.12	0.45	Yellow bullhead
			****	NOT RECORDED ****			Yellow perch

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

KG HARVESTED	95% CI		KG/HOUR	95% CI	KG/HA	AVE KG	SPECIES
5218	4534-5903	(13%)	.051	.042-.060 (17%)	11.21	0.390	All species
0	0-1	(212%)	.000	.000-.000 (212%)	0.00	0.068	Bluegill x Green
su							
593	440-747	(26%)	.005	.003-.007 (46%)	1.27	0.312	Black crappie
282	188-376	(33%)	.004	.001-.007 (87%)	0.61	0.076	Bluegill
104	0-232	(123%)	.001	.000-.003 (170%)	0.22	1.754	Carp
1990	1605-2374	(19%)	.021	.016-.027 (26%)	4.28	0.847	Channel catfish
			****	NOT RECORDED ****			Crappie spp.
			****	NOT RECORDED ****			Flathead catfish
			****	NOT RECORDED ****			Freshwater drum
5	1-9	(71%)	.000	.000-.000 (75%)	0.01	0.083	Green sunfish
1190	957-1423	(20%)	.012	.009-.015 (26%)	2.56	0.579	Largemouth bass
			****	NOT RECORDED ****			Muskellunge
11	0-37	(245%)	.000	.000-.000 (245%)	0.02	4.609	Northern pike
9	0-19	(110%)	.000	.000-.000 (105%)	0.02	0.090	Redear sunfish
			****	NOT RECORDED ****			Smallmouth bass
144	59-229	(59%)	.001	.000-.001 (69%)	0.31	1.634	Walleye
			****	NOT RECORDED ****			Warmouth
17	2-32	(86%)	.000	.000-.000 (100%)	0.04	0.384	White bass
717	511-923	(29%)	.005	.004-.007 (27%)	1.54	0.285	White crappie
156	101-211	(35%)	.002	.001-.003 (43%)	0.33	0.300	Yellow bullhead
			****	NOT RECORDED ****			Yellow perch

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

LB HARVESTED	95% CI	LB/HOUR	95% CI	LB/ACRE	AVE LB	SPECIES
11504	9995-13013 (13%)	.112	.093-.131 (17%)	10.00	0.859	All species
1	0-2 (212%)	.000	.000-.000 (212%)	0.00	0.150	Bluegill x Green
su						
1308	969-1647 (26%)	.011	.006-.016 (46%)	1.14	0.688	Black crappie
622	414-830 (33%)	.009	.001-.016 (87%)	0.54	0.168	Bluegill
229	0-512 (123%)	.003	.000-.008 (170%)	0.20	3.866	Carp
4386	3538-5234 (19%)	.047	.035-.059 (26%)	3.81	1.867	Channel catfish
		****	NOT RECORDED ****			Crappie spp.
		****	NOT RECORDED ****			Flathead catfish
		****	NOT RECORDED ****			Freshwater drum
11	3-19 (71%)	.000	.000-.000 (75%)	0.01	0.183	Green sunfish
2624	2110-3138 (20%)	.026	.019-.032 (26%)	2.28	1.276	Largemouth bass
		****	NOT RECORDED ****			Muskellunge
24	0-82 (245%)	.000	.000-.000 (245%)	0.02	10.161	Northern pike
20	0-42 (110%)	.000	.000-.000 (105%)	0.02	0.198	Redear sunfish
		****	NOT RECORDED ****			Smallmouth bass
318	131-505 (59%)	.002	.001-.003 (69%)	0.28	3.602	Walleye
		****	NOT RECORDED ****			Warmouth
37	5-70 (86%)	.000	.000-.001 (100%)	0.03	0.846	White bass
1581	1127-2035 (29%)	.012	.009-.015 (27%)	1.37	0.629	White crappie
344	223-464 (35%)	.004	.002-.006 (43%)	0.30	0.662	Yellow bullhead
		****	NOT RECORDED ****			Yellow perch

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
112203	100139-124266 (11%)	.965	.875-1.054 (9%)	241.09	97.57	All species
4	0-11 (211%)	.000	.000-.000 (211%)	0.01	0.00	Bluegill x Green
su						
8822	6915-10730 (22%)	.087	.060-.114 (31%)	18.96	7.67	Black crappie
25758	21280-30237 (17%)	.255	.193-.318 (24%)	55.35	22.40	Bluegill
509	324-695 (36%)	.006	.003-.008 (39%)	1.09	0.44	Carp
4316	3672-4960 (15%)	.048	.039-.058 (20%)	9.27	3.75	Channel catfish
219	0-549 (151%)	.000	.000-.001 (140%)	0.47	0.19	Crappie spp.
2	0-8 (245%)	.000	.000-.000 (245%)	0.01	0.00	Flathead catfish
74	25-124 (67%)	.001	.000-.001 (90%)	0.16	0.06	Freshwater drum
130	66-194 (49%)	.003	.000-.007 (139%)	0.28	0.11	Green sunfish
51966	46870-57061 (10%)	.399	.370-.429 (7%)	111.66	45.19	Largemouth bass
505	379-631 (25%)	.003	.002-.005 (31%)	1.09	0.44	Muskellunge
432	276-588 (36%)	.004	.002-.005 (44%)	0.93	0.38	Northern pike
121	19-223 (85%)	.001	.000-.001 (82%)	0.26	0.11	Redear sunfish
7	0-17 (145%)	.000	.000-.000 (146%)	0.01	0.01	Smallmouth bass
243	163-323 (33%)	.005	.000-.012 (169%)	0.52	0.21	Walleye
4	0-14 (245%)	.000	.000-.000 (245%)	0.01	0.00	Warmouth
107	35-180 (67%)	.001	.000-.001 (67%)	0.23	0.09	White bass
18238	12267-24208 (33%)	.143	.107-.179 (25%)	39.19	15.86	White crappie
741	507-975 (32%)	.009	.005-.013 (47%)	1.59	0.64	Yellow bullhead
4	0-12 (257%)	.000	.000-.000 (257%)	0.01	0.00	Yellow perch

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

KG CAUGHT	95% CI	KG/HOUR	95% CI	KG/HA	AVE KG	SPECIES
44571	40206-48936 (10%)	.339	.313-.365 (8%)	95.77	0.397	All species
0	0-1 (212%)	.000	.000-.000 (212%)	0.00	0.068	Bluegill x Green
su						
1436	1126-1746 (22%)	.013	.009-.018 (33%)	3.09	0.163	Black crappie
786	642-930 (18%)	.009	.005-.013 (47%)	1.69	0.030	Bluegill
434	258-611 (41%)	.005	.002-.008 (52%)	0.93	0.852	Carp
2945	2468-3422 (16%)	.030	.024-.036 (21%)	6.33	0.682	Channel catfish
12	0-30 (144%)	.000	.000-.000 (134%)	0.03	0.057	Crappie spp.
3	0-12 (236%)	.000	.000-.000 (245%)	0.01	1.498	Flathead catfish
52	14-91 (74%)	.000	.000-.001 (123%)	0.11	0.704	Freshwater drum
9	4-13 (52%)	.000	.000-.000 (92%)	0.02	0.068	Green sunfish
33853	30229-37478 (11%)	.241	.220-.263 (9%)	72.74	0.651	Largemouth bass
1455	1078-1832 (26%)	.010	.007-.013 (33%)	3.13	2.881	Muskellunge
892	607-1176 (32%)	.007	.004-.011 (45%)	1.92	2.063	Northern pike
10	0-20 (103%)	.000	.000-.000 (99%)	0.02	0.082	Redear sunfish
3	0-8 (167%)	.000	.000-.000 (173%)	0.01	0.453	Smallmouth bass
221	126-315 (43%)	.002	.000-.005 (113%)	0.47	0.909	Walleye
0	0-1 (236%)	.000	.000-.000 (236%)	0.00	0.047	Warmouth
53	14-93 (75%)	.000	.000-.001 (90%)	0.11	0.498	White bass
2226	1581-2871 (29%)	.017	.013-.022 (24%)	4.78	0.122	White crappie
179	122-235 (32%)	.002	.001-.003 (40%)	0.38	0.241	Yellow bullhead
0	0-1 (257%)	.000	.000-.000 (278%)	0.00	0.089	Yellow perch

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

LB CAUGHT	95% CI	LB/HOUR	95% CI	LB/ACRE	AVE LB	SPECIES
98262	88639-107885 (10%)	.747	.690-.804 (8%)	85.45	0.876	All species
1	0-2 (212%)	.000	.000-.000 (212%)	0.00	0.150	Bluegill x Green
su						
3166	2483-3849 (22%)	.030	.020-.039 (33%)	2.75	0.359	Black crappie
1732	1415-2049 (18%)	.019	.010-.028 (47%)	1.51	0.067	Bluegill
957	568-1346 (41%)	.011	.006-.017 (52%)	0.83	1.879	Carp
6493	5442-7544 (16%)	.066	.052-.080 (21%)	5.65	1.504	Channel catfish
27	0-67 (144%)	.000	.000-.000 (134%)	0.02	0.126	Crappie spp.
8	0-27 (245%)	.000	.000-.000 (236%)	0.01	3.303	Flathead catfish
115	30-201 (74%)	.001	.000-.002 (123%)	0.10	1.553	Freshwater drum
20	9-30 (52%)	.000	.000-.000 (92%)	0.02	0.151	Green sunfish
74634	66643-82625 (11%)	.532	.484-.580 (9%)	64.90	1.436	Largemouth bass
3208	2376-4039 (26%)	.022	.015-.029 (33%)	2.79	6.352	Muskellunge
1966	1338-2594 (32%)	.016	.009-.024 (45%)	1.71	4.549	Northern pike
22	0-44 (103%)	.000	.000-.000 (99%)	0.02	0.180	Redear sunfish
7	0-18 (167%)	.000	.000-.000 (173%)	0.01	0.998	Smallmouth bass
487	279-695 (43%)	.005	.000-.011 (113%)	0.42	2.005	Walleye
0	0-1 (245%)	.000	.000-.000 (236%)	0.00	0.104	Warmouth
118	30-206 (75%)	.001	.000-.002 (90%)	0.10	1.098	White bass
4907	3484-6330 (29%)	.038	.029-.047 (24%)	4.27	0.269	White crappie
394	269-519 (32%)	.005	.003-.006 (40%)	0.34	0.531	Yellow bullhead
1	0-2 (257%)	.000	.000-.000 (278%)	0.00	0.197	Yellow perch

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

	MEAN	95% CI		MIN	MAX	#SAMPLES
HOURS PER COMPLETED TRIP*						
BOAT	4.5	4.4-4.6	(2%)	0.7	11.8	1555
SHORE	1.8	1.7-2.0	(8%)	0.4	5.2	220
BOAT & SHORE	4.2	4.1-4.3	(2%)	0.4	11.8	1775
MILES TRAVELED	21.5	20.8-22.1	(3%)	1	500	3203
SUCCESS RATING (1-10)	3.5	3.4-3.6	(2%)	1	10	3135

*1167 samples were from split interviews of completed trips.
48.6% of all 3651 interviews were completed trips.

ILLEGAL HARVEST: Clerk noted 32 out of 3651 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	714	1530	148	33	1	2				
SHORE INTERVIEWS	494	540	133	36	16	3	1			

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

406 (11.1%)	ANY	All species
127 (3.5%)	BLG	Bluegill
3 (0.1%)	CAP	Carp
77 (2.1%)	CAT	Unidentified catfish
282 (7.7%)	CCF	Channel catfish
583 (16.0%)	CRP	Crappie spp.
2035 (55.7%)	LMB	Largemouth bass
75 (2.1%)	MUE	Muskellunge
2 (0.1%)	NOP	Northern pike
1 (0.0%)	SMB	Smallmouth bass
2 (0.1%)	SUN	Sunfish spp. excluding Crappie and Black Bass
57 (1.6%)	WAE	Walleye
1 (0.0%)	YEB	Yellow bullhead

