

ILLINOIS NATURAL HISTORY SURVEY
 CENTER FOR AQUATIC ECOLOGY
 2007 CREEL SURVEY RESULTS

2007 COFFEEN LAKE
 1102 ACRES
 REGION 4, DISTRICT 14

STRATIFICATION SUMMARY:

Day creel only.
 Results cover 03/15/2007 through 10/31/2007
 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: 416/693 = 60.0%

NUMBER OF INTERVIEWS: 3306

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	31749	27397-36101 (14%)	29	25-33 (14%)	14%
	HOLIDAY	37016	31246-42786 (16%)	34	28-39 (16%)	20%
	TOTAL	68765	61538-75992 (11%)	62	56-69 (11%)	17%
SHORE	WEEKDAY	4278	3232-5324 (24%)	4	3-5 (24%)	13%
	HOLIDAY	7423	5576-9269 (25%)	7	5-8 (25%)	26%
	TOTAL	11701	9579-13823 (18%)	11	9-13 (18%)	22%
BOAT & SHORE	WEEKDAY	36027	31551-40503 (12%)	33	29-37 (12%)	14%
	HOLIDAY	44439	38381-50496 (14%)	40	35-46 (14%)	21%
	TOTAL	80466	72934-87998 (9%)	73	66-80 (9%)	18%

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

# HARVESTED	95% CI	#/HOUR	95% CI	#/HA	#/ACRE	SPECIES
7246	5814-8678 (20%)	.057	.042-.072 (27%)	16.25	6.58	All species
444	17-871 (96%)	.004	.000-.008 (100%)	1.00	0.40	Black crappie
328	0-702 (114%)	.001	.000-.002 (111%)	0.74	0.30	Bluegill
		****	NOT RECORDED ****			Carp
3845	2766-4925 (28%)	.037	.023-.051 (38%)	8.62	3.49	Channel catfish
35	0-82 (138%)	.001	.000-.003 (198%)	0.08	0.03	Flathead catfish
		****	NOT RECORDED ****			Green sunfish
2275	1742-2809 (23%)	.012	.009-.015 (29%)	5.10	2.06	Largemouth bass
		****	NOT RECORDED ****			Redear sunfish
319	110-528 (66%)	.002	.000-.003 (82%)	0.71	0.29	Striped bass
		****	NOT RECORDED ****			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
4671	3608-5734 (23%)	.031	.024-.038 (24%)	10.47	0.645	All species
395	0-942 (138%)	.003	.000-.006 (117%)	0.89	0.890	Black crappie
17	0-39 (135%)	.000	.000-.000 (129%)	0.04	0.051	Bluegill
		****	NOT RECORDED ****			Carp
1251	939-1563 (25%)	.013	.008-.017 (38%)	2.81	0.325	Channel catfish
24	0-61 (156%)	.001	.000-.003 (205%)	0.05	0.690	Flathead catfish
		****	NOT RECORDED ****			Green sunfish
2435	1796-3074 (26%)	.011	.008-.014 (27%)	5.46	1.070	Largemouth bass
		****	NOT RECORDED ****			Redear sunfish
549	174-924 (68%)	.003	.000-.006 (86%)	1.23	1.722	Striped bass
		****	NOT RECORDED ****			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
10298	7955-12641 (23%)	.068	.052-.085 (24%)	9.34	1.421	All species
871	0-2076 (138%)	.006	.000-.014 (117%)	0.79	1.963	Black crappie
37	0-86 (135%)	.000	.000-.000 (129%)	0.03	0.112	Bluegill
		****	NOT RECORDED ****			Carp
2758	2071-3446 (25%)	.028	.017-.038 (38%)	2.50	0.717	Channel catfish
53	0-135 (156%)	.002	.000-.006 (205%)	0.05	1.522	Flathead catfish
		****	NOT RECORDED ****			Green sunfish
5368	3958-6778 (26%)	.025	.018-.032 (27%)	4.87	2.359	Largemouth bass
		****	NOT RECORDED ****			Redear sunfish
1211	384-2037 (68%)	.007	.001-.013 (86%)	1.10	3.797	Striped bass
		****	NOT RECORDED ****			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
133927	119061-148793 (11%)	1.072	.946-1.198 (12%)	300.30	121.53	All species
1157	268-2045 (77%)	.014	.002-.026 (89%)	2.59	1.05	Black crappie
10793	8099-13488 (25%)	.193	.102-.283 (47%)	24.20	9.79	Bluegill
3	0-9 (236%)	.000	.000-.000 (231%)	0.01	0.00	Carp
12411	10340-14483 (17%)	.131	.105-.157 (20%)	27.83	11.26	Channel catfish
52	0-104 (99%)	.001	.000-.003 (186%)	0.12	0.05	Flathead catfish
1257	576-1937 (54%)	.012	.006-.018 (53%)	2.82	1.14	Green sunfish
105002	91843-118160 (13%)	.676	.589-.763 (13%)	235.44	95.28	Largemouth bass
1860	381-3340 (80%)	.033	.001-.066 (97%)	4.17	1.69	Redear sunfish
1388	319-2458 (77%)	.012	.000-.026 (120%)	3.11	1.26	Striped bass
3	0-11 (236%)	.000	.000-.000 (236%)	0.01	0.00	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
63573	55909-71237 (12%)	.421	.372-.469 (12%)	142.55	0.475	All species
476	0-1069 (124%)	.003	.000-.007 (104%)	1.07	0.412	Black crappie
285	169-401 (41%)	.004	.002-.005 (39%)	0.64	0.026	Bluegill
3	0-11 (231%)	.000	.000-.000 (231%)	0.01	1.275	Carp
2051	1567-2536 (24%)	.021	.014-.028 (33%)	4.60	0.165	Channel catfish
117	0-311 (167%)	.001	.000-.003 (176%)	0.26	2.227	Flathead catfish
17	7-27 (58%)	.000	.000-.000 (58%)	0.04	0.014	Green sunfish
59419	52005-66834 (12%)	.381	.334-.428 (12%)	133.24	0.566	Largemouth bass
28	6-51 (79%)	.001	.000-.002 (133%)	0.06	0.015	Redear sunfish
1175	457-1893 (61%)	.009	.000-.018 (96%)	2.63	0.847	Striped bass
1	0-2 (236%)	.000	.000-.000 (236%)	0.00	0.173	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
140155	123259-157051 (12%)	.927	.820-1.034 (12%)	127.18	1.047	All species
1050	0-2357 (124%)	.008	.000-.016 (104%)	0.95	0.908	Black crappie
628	372-883 (41%)	.008	.005-.011 (39%)	0.57	0.058	Bluegill
7	0-25 (231%)	.000	.000-.000 (231%)	0.01	2.810	Carp
4523	3454-5591 (24%)	.046	.031-.061 (33%)	4.10	0.364	Channel catfish
257	0-686 (167%)	.002	.000-.006 (176%)	0.23	4.911	Flathead catfish
38	16-59 (58%)	.000	.000-.001 (58%)	0.03	0.030	Green sunfish
130997	114650-147344 (12%)	.841	.737-.944 (12%)	118.87	1.248	Largemouth bass
63	13-112 (79%)	.001	.000-.003 (133%)	0.06	0.034	Redear sunfish
2591	1008-4173 (61%)	.021	.001-.041 (96%)	2.35	1.866	Striped bass
1	0-4 (236%)	.000	.000-.000 (236%)	0.00	0.382	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	5.3	5.0-5.5 (4%)	0.2	12.8	499
SHORE	3.1	2.6-3.7 (18%)	0.2	9.8	71
BOAT & SHORE	5.0	4.8-5.2 (5%)	0.2	12.8	570
MILES TRAVELED	41.5	40.2-42.8 (3%)	1	300	1917
SUCCESS RATING (1-10)	5.2	5.1-5.4 (2%)	1	10	1921

*424 samples were from split interviews of completed trips.
20.2% of all 2819 interviews were completed trips.

ILLEGAL HARVEST: Clerk noted 15 out of 2819 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	820	1419	161	32	4					
SHORE INTERVIEWS	79	158	87	29	28	2				

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

255 (9.0%)	ANY	All species
49 (1.7%)	BLC	Black crappie
9 (0.3%)	BLG	Bluegill
482 (17.1%)	CCF	Channel catfish
1 (0.0%)	FCF	Flathead catfish
1981 (70.3%)	LMB	Largemouth bass
42 (1.5%)	STB	Striped bass

