

ILLINOIS NATURAL HISTORY SURVEY
 CENTER FOR AQUATIC ECOLOGY
 1990 CREEL SURVEY RESULTS

1990 COFFEEN
 1102 ACRES
 REGION 4, DISTRICT 12

STRATIFICATION SUMMARY:

Day creel only.
 Results cover 03/15/1990 through 06/15/1990
 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: 195/279 = 69.9%

NUMBER OF INTERVIEWS: 1752

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	15098	12467-17729 (17%)	14	11-16 (17%)	10%
	HOLIDAY	17103	12968-21237 (24%)	16	12-19 (24%)	25%
	TOTAL	32201	27301-37102 (15%)	29	25-34 (15%)	18%
SHORE	WEEKDAY	3175	2410-3941 (24%)	3	2-4 (24%)	10%
	HOLIDAY	3025	2190-3859 (28%)	3	2-4 (28%)	17%
	TOTAL	6200	5068-7332 (18%)	6	5-7 (18%)	14%
BOAT & SHORE	WEEKDAY	18274	15534-21014 (15%)	17	14-19 (15%)	10%
	HOLIDAY	20127	15910-24345 (21%)	18	14-22 (21%)	24%
	TOTAL	38401	33372-43431 (13%)	35	30-39 (13%)	17%

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

# HARVESTED	95% CI		#/HOUR	95% CI	#/HA	#/ACRE	SPECIES
13503	11266-15741	(17%)	.248	.202-.294 (18%)	30.28	12.25	All species
3	0-9	(209%)	.000	.000-.001 (209%)	0.01	0.00	Black bullhead
8	0-26	(223%)	.000	.000-.000 (226%)	0.02	0.01	Black crappie
268	55-481	(80%)	.005	.000-.012 (127%)	0.60	0.24	Bluegill
8	0-20	(161%)	.000	.000-.001 (191%)	0.02	0.01	Carp
9324	7486-11162	(20%)	.188	.144-.231 (23%)	20.91	8.46	Channel catfish
2739	2157-3321	(21%)	.039	.027-.051 (31%)	6.14	2.49	Largemouth bass
5	0-17	(223%)	.000	.000-.000 (226%)	0.01	0.00	Redear sunfish
948	485-1410	(49%)	.009	.005-.013 (42%)	2.12	0.86	White crappie
179	67-292	(63%)	.006	.000-.012 (104%)	0.40	0.16	Yellow bullhead
22	0-64	(187%)	.000	.000-.001 (207%)	0.05	0.02	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
6364	5325-7404	(16%)	.108	.089-.128 (18%)	14.27	0.471	All species
1	0-2	(209%)	.000	.000-.000 (208%)	0.00	0.264	Black bullhead
0	0-1	(226%)	.000	.000-.000 (223%)	0.00	0.051	Black crappie
14	3-25	(81%)	.000	.000-.001 (124%)	0.03	0.052	Bluegill
5	0-14	(152%)	.000	.000-.001 (198%)	0.01	0.776	Carp
2898	2310-3485	(20%)	.060	.045-.074 (25%)	6.50	0.311	Channel catfish
3204	2502-3906	(22%)	.045	.032-.057 (28%)	7.18	1.170	Largemouth bass
0	0-1	(226%)	.000	.000-.000 (226%)	0.00	0.079	Redear sunfish
195	97-294	(51%)	.002	.001-.003 (43%)	0.44	0.206	White crappie
44	15-73	(66%)	.002	.000-.003 (105%)	0.10	0.246	Yellow bullhead
2	0-6	(165%)	.000	.000-.000 (199%)	0.01	0.105	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
14031	11739-16323	(16%)	.239	.196-.282 (18%)	12.73	1.039	All species
2	0-5	(208%)	.000	.000-.000 (209%)	0.00	0.582	Black bullhead
1	0-3	(226%)	.000	.000-.000 (223%)	0.00	0.111	Black crappie
31	6-55	(81%)	.001	.000-.001 (124%)	0.03	0.114	Bluegill
12	0-30	(152%)	.001	.000-.002 (198%)	0.01	1.711	Carp
6389	5094-7684	(20%)	.132	.099-.164 (25%)	5.80	0.685	Channel catfish
7063	5516-8610	(22%)	.098	.071-.126 (28%)	6.41	2.580	Largemouth bass
1	0-3	(226%)	.000	.000-.000 (226%)	0.00	0.173	Redear sunfish
430	213-648	(51%)	.004	.002-.006 (43%)	0.39	0.454	White crappie
97	33-161	(66%)	.004	.000-.007 (105%)	0.09	0.543	Yellow bullhead
5	0-13	(165%)	.000	.000-.000 (199%)	0.00	0.231	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
23061	19366-26755 (16%)	.375	.321-.429 (14%)	51.71	20.93	All species
3	0-9 (209%)	.000	.000-.001 (209%)	0.01	0.00	Black bullhead
17	0-43 (147%)	.000	.000-.001 (179%)	0.04	0.02	Black crappie
1912	1044-2781 (45%)	.026	.014-.038 (46%)	4.29	1.74	Bluegill
8	0-20 (161%)	.000	.000-.001 (191%)	0.02	0.01	Carp
10032	8038-12026 (20%)	.195	.151-.239 (23%)	22.49	9.10	Channel catfish
8417	6786-10048 (19%)	.107	.085-.130 (21%)	18.87	7.64	Largemouth bass
5	0-17 (223%)	.000	.000-.000 (226%)	0.01	0.00	Redear sunfish
2258	1286-3230 (43%)	.025	.014-.035 (43%)	5.06	2.05	White crappie
340	156-525 (54%)	.021	.005-.036 (75%)	0.76	0.31	Yellow bullhead
68	5-131 (92%)	.001	.000-.002 (107%)	0.15	0.06	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
9784	8209-11360 (16%)	.150	.127-.173 (15%)	21.94	0.424	All species
1	0-2 (209%)	.000	.000-.000 (208%)	0.00	0.264	Black bullhead
1	0-1 (171%)	.000	.000-.000 (148%)	0.00	0.032	Black crappie
47	26-67 (45%)	.001	.000-.001 (54%)	0.10	0.024	Bluegill
5	0-14 (152%)	.000	.000-.001 (198%)	0.01	0.776	Carp
2950	2353-3548 (20%)	.060	.045-.075 (24%)	6.62	0.294	Channel catfish
6401	5153-7649 (19%)	.082	.064-.100 (22%)	14.35	0.761	Largemouth bass
0	0-1 (226%)	.000	.000-.000 (226%)	0.00	0.079	Redear sunfish
304	173-436 (43%)	.003	.002-.004 (37%)	0.68	0.135	White crappie
71	28-113 (60%)	.004	.001-.006 (69%)	0.16	0.208	Yellow bullhead
4	0-8 (107%)	.000	.000-.000 (137%)	0.01	0.057	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
21571	18097-25044 (16%)	.331	.280-.382 (15%)	19.57	0.935	All species
2	0-5 (208%)	.000	.000-.000 (209%)	0.00	0.582	Black bullhead
1	0-3 (171%)	.000	.000-.000 (148%)	0.00	0.071	Black crappie
103	57-149 (45%)	.002	.001-.002 (54%)	0.09	0.054	Bluegill
12	0-30 (152%)	.001	.000-.002 (198%)	0.01	1.711	Carp
6505	5188-7821 (20%)	.133	.100-.165 (24%)	5.90	0.648	Channel catfish
14112	11361-16863 (19%)	.181	.141-.220 (22%)	12.81	1.677	Largemouth bass
1	0-3 (226%)	.000	.000-.000 (226%)	0.00	0.173	Redear sunfish
671	381-961 (43%)	.007	.004-.010 (37%)	0.61	0.297	White crappie
156	63-249 (60%)	.008	.002-.014 (69%)	0.14	0.458	Yellow bullhead
8	0-18 (107%)	.000	.000-.000 (137%)	0.01	0.125	Yellow bass