

ILLINOIS NATURAL HISTORY SURVEY  
 CENTER FOR AQUATIC ECOLOGY  
 2001 CREEL SURVEY RESULTS

**2001 COFFEEN LAKE**  
 1102 ACRES  
 REGION 4, DISTRICT 20

STRATIFICATION SUMMARY:

Day creel only.  
 Results cover 03/15/2001 through 10/31/2001  
 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: 410/693 = 59.2%

NUMBER OF INTERVIEWS: 1924

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	27124	22016-32231 ( 19%)	25	20-29 ( 19%)	7%
	HOLIDAY	28347	23853-32841 ( 16%)	26	22-30 ( 16%)	15%
	TOTAL	55471	48668-62274 ( 12%)	50	44-57 ( 12%)	11%
SHORE	WEEKDAY	3718	2246-5191 ( 40%)	3	2-5 ( 40%)	7%
	HOLIDAY	4420	3391-5449 ( 23%)	4	3-5 ( 23%)	16%
	TOTAL	8138	6422-9855 ( 21%)	7	6-9 ( 21%)	12%
BOAT & SHORE	WEEKDAY	30842	25553-36131 ( 17%)	28	23-33 ( 17%)	7%
	HOLIDAY	32767	28157-37377 ( 14%)	30	26-34 ( 14%)	15%
	TOTAL	63609	56593-70625 ( 11%)	58	51-64 ( 11%)	11%

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

# HARVESTED	95% CI	#/HOUR	95% CI	#/HA	#/ACRE	SPECIES
26849	22434-31264 ( 16%)	.260	.176-.344 ( 32%)	60.20	24.36	All species
3140	1270-5011 ( 60%)	.049	.009-.090 ( 82%)	7.04	2.85	Bluegill
10961	8986-12936 ( 18%)	.108	.084-.132 ( 22%)	24.58	9.95	Channel catfish
81	12-149 ( 85%)	.000	.000-.000 (105%)	0.18	0.07	Flathead catfish
246	0-585 (138%)	.019	.000-.058 (206%)	0.55	0.22	Green sunfish
1813	1339-2286 ( 26%)	.018	.012-.025 ( 35%)	4.06	1.64	Largemouth bass
		****	NOT RECORDED ****			Longear sunfish
118	0-277 (134%)	.002	.000-.004 (154%)	0.27	0.11	Redear sunfish
10	0-33 (223%)	.000	.000-.000 (220%)	0.02	0.01	Striped bass
10476	7509-13442 ( 28%)	.063	.045-.082 ( 29%)	23.49	9.51	White crappie
4	0-13 (236%)	.000	.000-.000 (245%)	0.01	0.00	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
10108	8490-11726 ( 16%)	.090	.075-.105 ( 17%)	22.67	0.376	All species
112	44-180 ( 61%)	.002	.000-.003 ( 78%)	0.25	0.036	Bluegill
5012	4102-5921 ( 18%)	.050	.038-.061 ( 23%)	11.24	0.457	Channel catfish
503	0-1006 (100%)	.001	.000-.003 (116%)	1.13	6.246	Flathead catfish
15	0-35 (135%)	.001	.000-.003 (205%)	0.03	0.060	Green sunfish
2004	1418-2591 ( 29%)	.022	.013-.031 ( 40%)	4.49	1.106	Largemouth bass
		****	NOT RECORDED ****			Longear sunfish
16	0-38 (140%)	.000	.000-.001 (146%)	0.04	0.135	Redear sunfish
12	0-39 (223%)	.000	.000-.000 (223%)	0.03	1.176	Striped bass
2432	1718-3146 ( 29%)	.014	.010-.018 ( 30%)	5.45	0.232	White crappie
3	0-10 (245%)	.000	.000-.000 (245%)	0.01	0.708	Yellow bullhead
		****	NOT RECORDED ****			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
22285	18718-25852 ( 16%)	.199	.166-.232 ( 17%)	20.22	0.830	All species
247	97-397 ( 61%)	.004	.001-.007 ( 78%)	0.22	0.079	Bluegill
11049	9044-13054 ( 18%)	.109	.085-.134 ( 23%)	10.03	1.008	Channel catfish
1109	0-2217 (100%)	.003	.000-.007 (116%)	1.01	13.769	Flathead catfish
32	0-76 (135%)	.002	.000-.007 (205%)	0.03	0.132	Green sunfish
4419	3126-5712 ( 29%)	.049	.029-.068 ( 40%)	4.01	2.438	Largemouth bass
		****	NOT RECORDED ****			Longear sunfish
35	0-84 (140%)	.000	.000-.001 (146%)	0.03	0.297	Redear sunfish
27	0-85 (220%)	.000	.000-.000 (220%)	0.02	2.592	Striped bass
5361	3787-6935 ( 29%)	.031	.022-.041 ( 30%)	4.87	0.512	White crappie
6	0-21 (245%)	.000	.000-.000 (245%)	0.01	1.562	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
82381	70382-94379 ( 15%)	.754	.615-.894 ( 18%)	184.72	74.76	All species
16926	11561-22290 ( 32%)	.212	.123-.300 ( 42%)	37.95	15.36	Bluegill
19592	16464-22721 ( 16%)	.204	.162-.245 ( 20%)	43.93	17.78	Channel catfish
91	20-163 ( 78%)	.000	.000-.001 ( 92%)	0.21	0.08	Flathead catfish
868	297-1439 ( 66%)	.023	.000-.062 (168%)	1.95	0.79	Green sunfish
15925	13189-18662 ( 17%)	.113	.093-.133 ( 18%)	35.71	14.45	Largemouth bass
6	0-18 (220%)	.001	.000-.004 (223%)	0.01	0.00	Longear sunfish
354	0-744 (110%)	.003	.000-.006 (104%)	0.79	0.32	Redear sunfish
14	0-37 (171%)	.000	.000-.000 (178%)	0.03	0.01	Striped bass
28448	21063-35832 ( 26%)	.196	.146-.245 ( 25%)	63.79	25.81	White crappie
152	16-288 ( 90%)	.002	.000-.004 (126%)	0.34	0.14	Yellow bullhead
5	0-17 (226%)	.000	.000-.000 (226%)	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
22746	19571-25921 ( 14%)	.178	.157-.200 ( 12%)	51.00	0.276	All species
451	310-592 ( 31%)	.005	.003-.008 ( 40%)	1.01	0.027	Bluegill
5909	4920-6897 ( 17%)	.062	.048-.075 ( 21%)	13.25	0.302	Channel catfish
664	72-1256 ( 89%)	.002	.000-.004 ( 99%)	1.49	7.259	Flathead catfish
46	12-81 ( 75%)	.001	.000-.003 (173%)	0.10	0.054	Green sunfish
11481	9480-13481 ( 17%)	.082	.066-.098 ( 19%)	25.74	0.721	Largemouth bass
0	0-0 (220%)	.000	.000-.000 (220%)	0.00	0.023	Longear sunfish
29	1-56 ( 96%)	.000	.000-.001 (118%)	0.06	0.081	Redear sunfish
17	0-44 (165%)	.000	.000-.000 (177%)	0.04	1.216	Striped bass
4101	2909-5294 ( 29%)	.025	.018-.031 ( 26%)	9.20	0.144	White crappie
49	0-108 (122%)	.000	.000-.001 (111%)	0.11	0.322	Yellow bullhead
0	0-1 (226%)	.000	.000-.000 (223%)	0.00	0.046	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
50147	43148-57146 ( 14%)	.393	.345-.440 ( 12%)	45.51	0.609	All species
994	684-1304 ( 31%)	.012	.007-.017 ( 40%)	0.90	0.059	Bluegill
13026	10846-15206 ( 17%)	.136	.107-.165 ( 21%)	11.82	0.665	Channel catfish
1464	159-2769 ( 89%)	.005	.000-.009 ( 99%)	1.33	16.004	Flathead catfish
102	25-179 ( 75%)	.003	.000-.008 (173%)	0.09	0.118	Green sunfish
25310	20901-29720 ( 17%)	.181	.147-.215 ( 19%)	22.97	1.589	Largemouth bass
0	0-1 (220%)	.000	.000-.000 (220%)	0.00	0.052	Longear sunfish
63	3-123 ( 96%)	.001	.000-.001 (118%)	0.06	0.178	Redear sunfish
37	0-98 (167%)	.000	.000-.000 (177%)	0.03	2.682	Striped bass
9042	6412-11671 ( 29%)	.055	.041-.069 ( 26%)	8.20	0.318	White crappie
108	0-239 (122%)	.001	.000-.001 (111%)	0.10	0.709	Yellow bullhead
1	0-2 (223%)	.000	.000-.000 (226%)	0.00	0.100	Yellow bass

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

	MEAN	95% CI		MIN	MAX	#SAMPLES
<b>HOURS PER COMPLETED TRIP*</b>						
BOAT	4.3	4.1-4.5	( 5%)	0.9	12.5	446
SHORE	2.5	2.0-3.0	( 22%)	0.2	8.0	42
BOAT & SHORE	4.2	3.9-4.4	( 5%)	0.2	12.5	488
MILES TRAVELED	46.7	45.5-47.9	( 3%)	1	300	1390
SUCCESS RATING (1-10)	4.1	3.9-4.2	( 4%)	1	10	1389

\*292 samples were from split interviews of completed trips.  
 30.3% of all 1609 interviews were completed trips.

ILLEGAL HARVEST: Clerk noted 2 out of 1609 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	283	974	71	18	2	3				
SHORE INTERVIEWS	64	119	39	30	1	4		1		

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

181 ( 11.2%)	ANY	All species
5 ( 0.3%)	BLG	Bluegill
544 ( 33.8%)	CAT	Unidentified catfish
2 ( 0.1%)	CCF	Channel catfish
212 ( 13.2%)	CRP	Crappie spp.
1 ( 0.1%)	FCF	Flathead catfish
664 ( 41.3%)	LMB	Largemouth bass

