

ILLINOIS NATURAL HISTORY SURVEY  
 CENTER FOR AQUATIC ECOLOGY  
 2003 CREEL SURVEY RESULTS

2003 GLENDALE  
 80 ACRES  
 REGION 5, DISTRICT 20

STRATIFICATION SUMMARY:

Day creel only.  
 Results cover 03/15/2003 through 10/31/2003  
 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: 306/693 = 44.2%

NUMBER OF INTERVIEWS: 975

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	1993	1590-2396 ( 20%)	25	20-30 ( 20%)	23%
	HOLIDAY	1868	1544-2191 ( 17%)	23	19-27 ( 17%)	47%
	TOTAL	3861	3344-4378 ( 13%)	48	42-55 ( 13%)	34%
SHORE	WEEKDAY	2696	2396-2997 ( 11%)	34	30-37 ( 11%)	23%
	HOLIDAY	2197	1847-2547 ( 16%)	27	23-32 ( 16%)	53%
	TOTAL	4893	4444-5343 ( 9%)	61	56-67 ( 9%)	36%
BOAT & SHORE	WEEKDAY	4689	4186-5192 ( 11%)	59	52-65 ( 11%)	23%
	HOLIDAY	4065	3600-4530 ( 11%)	51	45-57 ( 11%)	50%
	TOTAL	8754	8069-9439 ( 8%)	109	101-118 ( 8%)	35%

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

# HARVESTED	95% CI	#/HOUR	95% CI	#/HA	#/ACRE	SPECIES
3984	3305-4663 ( 17%)	.367	.227-.506 ( 38%)	123.06	49.80	All species
1179	858-1501 ( 27%)	.138	.000-.291 (111%)	36.43	14.74	Black crappie
1293	928-1657 ( 28%)	.096	.062-.130 ( 35%)	39.92	16.16	Bluegill
1009	711-1307 ( 30%)	.086	.057-.114 ( 33%)	31.16	12.61	Channel catfish
		****	NOT RECORDED	****		Grass pickerel
102	48-156 ( 53%)	.008	.002-.015 ( 76%)	3.14	1.27	Green sunfish
159	50-269 ( 69%)	.009	.004-.014 ( 53%)	4.92	1.99	Largemouth bass
43	11-74 ( 74%)	.003	.000-.006 ( 95%)	1.32	0.54	Redear sunfish
170	51-289 ( 70%)	.014	.004-.024 ( 72%)	5.25	2.12	Warmouth
6	0-19 (223%)	.001	.000-.002 (223%)	0.18	0.07	White catfish
23	5-42 ( 79%)	.012	.000-.033 (179%)	0.73	0.29	Yellow bullhead

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

KG HARVESTED	95% CI	KG/HOUR	95% CI	KG/HA	AVE KG	SPECIES
1175	911-1439 ( 22%)	.117	.068-.166 ( 42%)	36.29	0.295	All species
278	197-360 ( 29%)	.035	.000-.081 (131%)	8.59	0.236	Black crappie
118	80-155 ( 32%)	.008	.005-.012 ( 38%)	3.63	0.091	Bluegill
651	442-860 ( 32%)	.061	.032-.089 ( 47%)	20.11	0.645	Channel catfish
		****	NOT RECORDED	****		Grass pickerel
8	3-13 ( 59%)	.001	.000-.001 ( 97%)	0.25	0.080	Green sunfish
74	12-135 ( 83%)	.004	.002-.007 ( 58%)	2.27	0.462	Largemouth bass
7	2-11 ( 69%)	.000	.000-.001 ( 89%)	0.21	0.158	Redear sunfish
30	7-53 ( 77%)	.002	.001-.004 ( 80%)	0.93	0.177	Warmouth
		****	NOT RECORDED	****		White catfish
9	2-17 ( 81%)	.005	.000-.014 (183%)	0.29	0.403	Yellow bullhead

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

LB HARVESTED	95% CI	LB/HOUR	95% CI	LB/ACRE	AVE LB	SPECIES
2590	2008-3172 ( 22%)	.258	.151-.365 ( 42%)	32.38	0.650	All species
613	434-793 ( 29%)	.077	.000-.178 (131%)	7.67	0.520	Black crappie
259	177-342 ( 32%)	.019	.011-.026 ( 38%)	3.24	0.201	Bluegill
1435	975-1896 ( 32%)	.134	.071-.196 ( 47%)	17.94	1.423	Channel catfish
		****	NOT RECORDED	****		Grass pickerel
18	7-29 ( 59%)	.002	.000-.003 ( 97%)	0.22	0.176	Green sunfish
162	27-297 ( 83%)	.009	.004-.015 ( 58%)	2.03	1.019	Largemouth bass
15	5-25 ( 69%)	.001	.000-.002 ( 89%)	0.19	0.347	Redear sunfish
66	15-117 ( 77%)	.006	.001-.010 ( 80%)	0.83	0.390	Warmouth
		****	NOT RECORDED	****		White catfish
21	4-38 ( 81%)	.011	.000-.031 (183%)	0.26	0.889	Yellow bullhead

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
11149	9482-12815 ( 15%)	1.009	.764-1.254 ( 24%)	344.35	139.36	All species
1609	1200-2019 ( 25%)	.205	.000-.468 (128%)	49.71	20.12	Black crappie
4202	3136-5267 ( 25%)	.313	.218-.408 ( 30%)	129.78	52.52	Bluegill
1482	964-2001 ( 35%)	.123	.086-.159 ( 30%)	45.79	18.53	Channel catfish
17	0-38 (118%)	.002	.000-.006 (183%)	0.54	0.22	Grass pickerel
330	221-438 ( 33%)	.031	.019-.043 ( 39%)	10.18	4.12	Green sunfish
2968	2428-3509 ( 18%)	.274	.222-.326 ( 19%)	91.68	37.10	Largemouth bass
45	13-77 ( 71%)	.003	.000-.006 ( 89%)	1.39	0.56	Redear sunfish
460	262-659 ( 43%)	.045	.027-.064 ( 41%)	14.22	5.75	Warmouth
10	0-25 (150%)	.001	.000-.003 (147%)	0.31	0.12	White catfish
24	6-43 ( 76%)	.012	.000-.033 (179%)	0.76	0.31	Yellow bullhead

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

KG CAUGHT	95% CI	KG/HOUR	95% CI	KG/HA	AVE KG	SPECIES
2375	1992-2757 ( 16%)	.233	.178-.289 ( 24%)	73.35	0.213	All species
318	233-404 ( 27%)	.040	.000-.092 (132%)	9.83	0.198	Black crappie
242	182-302 ( 25%)	.018	.012-.023 ( 29%)	7.48	0.058	Bluegill
776	539-1013 ( 31%)	.071	.042-.100 ( 41%)	23.97	0.523	Channel catfish
1	0-3 (108%)	.000	.000-.000 (166%)	0.04	0.082	Grass pickerel
21	14-27 ( 33%)	.002	.001-.003 ( 44%)	0.64	0.063	Green sunfish
931	748-1115 ( 20%)	.090	.070-.110 ( 22%)	28.77	0.314	Largemouth bass
7	2-12 ( 68%)	.000	.000-.001 ( 87%)	0.21	0.152	Redear sunfish
68	28-109 ( 60%)	.007	.003-.010 ( 50%)	2.11	0.148	Warmouth
		****	NOT RECORDED ****			White catfish
10	2-17 ( 78%)	.005	.000-.014 (183%)	0.30	0.399	Yellow bullhead

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

LB CAUGHT	95% CI	LB/HOUR	95% CI	LB/ACRE	AVE LB	SPECIES
5235	4392-6079 ( 16%)	.515	.392-.637 ( 24%)	65.44	0.470	All species
702	513-890 ( 27%)	.088	.000-.204 (132%)	8.77	0.436	Black crappie
534	401-667 ( 25%)	.039	.027-.050 ( 29%)	6.67	0.127	Bluegill
1711	1189-2232 ( 31%)	.157	.093-.221 ( 41%)	21.38	1.154	Channel catfish
3	0-7 (108%)	.000	.000-.001 (166%)	0.04	0.180	Grass pickerel
45	30-61 ( 33%)	.004	.002-.006 ( 44%)	0.57	0.138	Green sunfish
2053	1649-2457 ( 20%)	.199	.154-.243 ( 22%)	25.66	0.692	Largemouth bass
15	5-25 ( 68%)	.001	.000-.002 ( 87%)	0.19	0.336	Redear sunfish
151	61-241 ( 60%)	.015	.008-.023 ( 50%)	1.88	0.327	Warmouth
		****	NOT RECORDED ****			White catfish
22	5-38 ( 78%)	.011	.000-.031 (183%)	0.27	0.880	Yellow bullhead

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

	MEAN	95% CI		MIN	MAX	#SAMPLES
HOURS PER COMPLETED TRIP*						
BOAT	2.9	2.7-3.1	( 7%)	0.5	7.7	200
SHORE	1.8	1.7-1.9	( 6%)	0.2	8.8	464
BOAT & SHORE	2.1	2.0-2.2	( 5%)	0.2	8.8	664
MILES TRAVELED	16.9	14.8-19.1	( 13%)	1	350	772
SUCCESS RATING (1-10)	4.8	4.5-5.1	( 6%)	1	10	772

\*177 samples were from split interviews of completed trips.  
83.8% of all 792 interviews were completed trips.

ILLEGAL HARVEST: Clerk noted 11 out of 792 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	54	164	30	5	2					
SHORE INTERVIEWS	265	179	41	33	12	4	1	1		1

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

389 ( 49.1%)	ANY	All species
13 ( 1.6%)	BLC	Black crappie
20 ( 2.5%)	BLG	Bluegill
75 ( 9.5%)	CAT	Unidentified catfish
9 ( 1.1%)	CCF	Channel catfish
58 ( 7.3%)	CRP	Crappie spp.
222 ( 28.0%)	LMB	Largemouth bass
6 ( 0.8%)	SUN	Sunfish spp. excluding Crappie and Black Bass

