

ILLINOIS NATURAL HISTORY SURVEY  
 CENTER FOR AQUATIC ECOLOGY  
 2005 CREEL SURVEY RESULTS

**2005 PANA LAKE**  
 205 ACRES  
 REGION 3, DISTRICT 11

STRATIFICATION SUMMARY:

Day creel only.  
 Results cover 03/15/2005 through 10/31/2005

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: 296/693 = 42.7%

NUMBER OF INTERVIEWS: 692

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	2407	1913-2902 ( 21%)	12	9-14 ( 21%)	14%
	HOLIDAY	2247	1909-2585 ( 15%)	11	9-13 ( 15%)	25%
	TOTAL	4654	4055-5254 ( 13%)	23	20-26 ( 13%)	20%
SHORE	WEEKDAY	1076	809-1343 ( 25%)	5	4-7 ( 25%)	11%
	HOLIDAY	1136	840-1432 ( 26%)	6	4-7 ( 26%)	22%
	TOTAL	2212	1813-2611 ( 18%)	11	9-13 ( 18%)	17%
BOAT & SHORE	WEEKDAY	3483	2921-4045 ( 16%)	17	14-20 ( 16%)	13%
	HOLIDAY	3383	2934-3833 ( 13%)	17	14-19 ( 13%)	24%
	TOTAL	6866	6147-7586 ( 10%)	33	30-37 ( 10%)	19%

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

# HARVESTED	95% CI		#/HOUR	95% CI	#/HA	#/ACRE	SPECIES
4661	3589-5733	( 23%)	.388	.292-.484 ( 25%)	56.18	22.74	All species
13	0-30	(135%)	.002	.000-.005 (199%)	0.15	0.06	Black crappie
400	174-626	( 57%)	.056	.000-.116 (107%)	4.82	1.95	Bluegill
			****	NOT RECORDED ****			Carp
1137	660-1614	( 42%)	.110	.063-.156 ( 42%)	13.71	5.55	Channel catfish
			****	NOT RECORDED ****			Freshwater drum
			****	NOT RECORDED ****			Green sunfish
374	246-501	( 34%)	.034	.020-.048 ( 41%)	4.50	1.82	Largemouth bass
			****	NOT RECORDED ****			Longear sunfish
6	0-19	(236%)	.000	.000-.000 (245%)	0.07	0.03	Redear sunfish
			****	NOT RECORDED ****			Warmouth
2711	1904-3519	( 30%)	.184	.127-.240 ( 31%)	32.68	13.23	White crappie
21	0-64	(206%)	.002	.000-.009 (289%)	0.25	0.10	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
1179	874-1485	( 26%)	.105	.074-.136 ( 30%)	14.22	0.253	All species
3	0-12	(246%)	.001	.000-.002 (284%)	0.04	0.268	Black crappie
49	0-98	(101%)	.012	.000-.035 (195%)	0.59	0.122	Bluegill
			****	NOT RECORDED ****			Carp
365	182-549	( 50%)	.036	.021-.051 ( 42%)	4.40	0.321	Channel catfish
			****	NOT RECORDED ****			Freshwater drum
			****	NOT RECORDED ****			Green sunfish
307	201-414	( 35%)	.029	.016-.042 ( 44%)	3.70	0.823	Largemouth bass
			****	NOT RECORDED ****			Longear sunfish
0	0-2	(245%)	.000	.000-.000 (245%)	0.01	0.083	Redear sunfish
			****	NOT RECORDED ****			Warmouth
451	308-594	( 32%)	.027	.020-.035 ( 28%)	5.43	0.166	White crappie
3	0-10	(206%)	.000	.000-.001 (289%)	0.04	0.150	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
2600	1927-3273	( 26%)	.231	.162-.299 ( 30%)	12.68	0.558	All species
8	0-26	(246%)	.001	.000-.005 (284%)	0.04	0.590	Black crappie
108	0-216	(101%)	.026	.000-.077 (195%)	0.53	0.269	Bluegill
			****	NOT RECORDED ****			Carp
805	401-1210	( 50%)	.078	.045-.111 ( 42%)	3.93	0.708	Channel catfish
			****	NOT RECORDED ****			Freshwater drum
			****	NOT RECORDED ****			Green sunfish
678	443-912	( 35%)	.064	.036-.092 ( 44%)	3.31	1.814	Largemouth bass
			****	NOT RECORDED ****			Longear sunfish
1	0-4	(245%)	.000	.000-.000 (236%)	0.01	0.184	Redear sunfish
			****	NOT RECORDED ****			Warmouth
994	679-1309	( 32%)	.060	.043-.077 ( 28%)	4.85	0.367	White crappie
7	0-21	(206%)	.001	.000-.003 (289%)	0.03	0.332	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
41530	35094-47967 ( 15%)	3.516	2.951-4.080 ( 16%)	500.59	202.59	All species
27	3-51 ( 89%)	.004	.000-.008 (118%)	0.33	0.13	Black crappie
5573	4261-6885 ( 24%)	.569	.392-.747 ( 31%)	67.17	27.19	Bluegill
3	0-8 (209%)	.001	.000-.005 (209%)	0.03	0.01	Carp
3085	2179-3991 ( 29%)	.283	.181-.386 ( 36%)	37.18	15.05	Channel catfish
2	0-7 (171%)	.000	.000-.001 (187%)	0.03	0.01	Freshwater drum
17	0-47 (168%)	.001	.000-.002 (196%)	0.21	0.08	Green sunfish
3073	2430-3716 ( 21%)	.258	.195-.321 ( 24%)	37.04	14.99	Largemouth bass
12	0-50 (318%)	.002	.000-.009 (430%)	0.14	0.06	Longear sunfish
19	0-63 (236%)	.000	.000-.001 (245%)	0.23	0.09	Redear sunfish
3	0-11 (257%)	.001	.000-.002 (278%)	0.04	0.01	Warmouth
29383	23686-35080 ( 19%)	2.332	1.826-2.839 ( 22%)	354.17	143.33	White crappie
333	0-677 (103%)	.064	.000-.129 (103%)	4.02	1.63	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
3812	3264-4359 ( 14%)	.335	.281-.389 ( 16%)	45.94	0.092	All species
5	0-13 (158%)	.001	.000-.002 (228%)	0.06	0.181	Black crappie
313	219-407 ( 30%)	.040	.008-.072 ( 81%)	3.77	0.056	Bluegill
3	0-8 (209%)	.002	.000-.005 (209%)	0.03	1.054	Carp
651	426-876 ( 35%)	.060	.037-.084 ( 39%)	7.85	0.211	Channel catfish
4	0-11 (189%)	.001	.000-.002 (213%)	0.05	1.538	Freshwater drum
1	0-2 (190%)	.000	.000-.000 (208%)	0.01	0.043	Green sunfish
1067	820-1313 ( 23%)	.090	.067-.113 ( 26%)	12.86	0.347	Largemouth bass
1	0-4 (318%)	.000	.000-.001 (430%)	0.01	0.086	Longear sunfish
1	0-3 (245%)	.000	.000-.000 (236%)	0.01	0.045	Redear sunfish
0	0-2 (278%)	.000	.000-.000 (257%)	0.01	0.145	Warmouth
1744	1403-2085 ( 20%)	.137	.106-.167 ( 23%)	21.02	0.059	White crappie
22	1-44 ( 95%)	.004	.000-.009 (111%)	0.27	0.067	Yellow bass

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

LB CAUGHT	95% CI		LB/HOUR	95% CI	LB/ACRE	AVE LB	SPECIES
8403	7197-9609	( 14%)	.738	.620-.857 ( 16%)	40.99	0.202	All species
11	0-28	(158%)	.002	.000-.005 (228%)	0.05	0.399	Black crappie
690	482-898	( 30%)	.088	.017-.159 ( 81%)	3.37	0.124	Bluegill
6	0-18	(209%)	.003	.000-.011 (209%)	0.03	2.324	Carp
1435	939-1931	( 35%)	.133	.081-.186 ( 39%)	7.00	0.465	Channel catfish
8	0-25	(189%)	.001	.000-.004 (213%)	0.04	3.391	Freshwater drum
2	0-5	(190%)	.000	.000-.000 (208%)	0.01	0.094	Green sunfish
2351	1808-2895	( 23%)	.199	.148-.250 ( 26%)	11.47	0.765	Largemouth bass
2	0-12	(430%)	.000	.000-.002 (430%)	0.01	0.190	Longear sunfish
2	0-6	(245%)	.000	.000-.000 (245%)	0.01	0.100	Redear sunfish
1	0-4	(278%)	.000	.000-.001 (257%)	0.00	0.319	Warmouth
3845	3093-4597	( 20%)	.301	.233-.369 ( 23%)	18.76	0.131	White crappie
50	2-97	( 95%)	.010	.000-.020 (111%)	0.24	0.149	Yellow bass

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

	MEAN	95% CI	MIN	MAX	#SAMPLES
HOURS PER COMPLETED TRIP*					
BOAT	1.4	1.1-1.7 ( 21%)	0.2	4.6	53
SHORE	0.8	0.7-1.0 ( 22%)	0.2	3.0	35
BOAT & SHORE	1.2	1.0-1.4 ( 17%)	0.2	4.6	88
MILES TRAVELED	43.1	34.4-51.8 ( 20%)	1	2100	674
SUCCESS RATING (1-10)	4.4	4.2-4.6 ( 4%)	1	10	673

\*2 samples were from split interviews of completed trips.  
12.8% of all 690 interviews were completed trips.

ILLEGAL HARVEST: Clerk noted 27 out of 690 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	188	240	39	10	2					
SHORE INTERVIEWS	88	64	41	13	3	2				

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

105 ( 15.2%)	ANY	All species
4 ( 0.6%)	BLC	Black crappie
17 ( 2.5%)	BLG	Bluegill
126 ( 18.3%)	CCF	Channel catfish
2 ( 0.3%)	CRP	Crappie spp.
188 ( 27.2%)	LMB	Largemouth bass
248 ( 35.9%)	WHC	White crappie

