

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

2003 HILLSBORO  
 100 ACRES  
 REGION 4, DISTRICT 15

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: 290/693 = 41.8%

NUMBER OF INTERVIEWS: 735

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	2205	1646-2764 ( 25%)	22	16-28 ( 25%)	13%
	HOLIDAY	3056	2645-3467 ( 13%)	30	26-35 ( 13%)	27%
	TOTAL	5261	4567-5955 ( 13%)	52	46-59 ( 13%)	21%
SHORE	WEEKDAY	2244	1791-2697 ( 20%)	22	18-27 ( 20%)	13%
	HOLIDAY	1875	1507-2243 ( 20%)	19	15-22 ( 20%)	20%
	TOTAL	4119	3535-4703 ( 14%)	41	35-47 ( 14%)	16%
BOAT & SHORE	WEEKDAY	4449	3730-5169 ( 16%)	44	37-52 ( 16%)	13%
	HOLIDAY	4931	4379-5483 ( 11%)	49	44-55 ( 11%)	25%
	TOTAL	9380	8473-10287 ( 10%)	94	84-103 ( 10%)	19%

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

# HARVESTED	95% CI		#/HOUR	95% CI	#/HA	#/ACRE	SPECIES
4729	3365-6094	( 29%)	.352	.244-.459 ( 31%)	116.51	47.15	All species
			****	NOT RECORDED	****		Black bullhead
174	68-280	( 61%)	.008	.003-.012 ( 64%)	4.28	1.73	Black crappie
739	315-1163	( 57%)	.080	.000-.172 (115%)	18.20	7.37	Bluegill
1215	865-1564	( 29%)	.104	.069-.139 ( 34%)	29.92	12.11	Channel catfish
9	0-29	(218%)	.000	.000-.001 (220%)	0.23	0.09	Flathead catfish
13	0-31	(147%)	.001	.000-.002 (108%)	0.31	0.13	Freshwater drum
2	0-9	(245%)	.000	.000-.000 (245%)	0.06	0.02	Green sunfish
			****	NOT RECORDED	****		Gizzard shad
103	46-159	( 55%)	.008	.003-.014 ( 63%)	2.53	1.03	Largemouth bass
3	0-12	(278%)	.000	.000-.000 (318%)	0.08	0.03	Redear sunfish
			****	NOT RECORDED	****		White bass
2354	1067-3641	( 55%)	.129	.069-.189 ( 47%)	57.99	23.47	White crappie
55	0-174	(215%)	.011	.000-.034 (210%)	1.36	0.55	Yellow bullhead
62	0-174	(180%)	.011	.000-.032 (196%)	1.54	0.62	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
1045	800-1290	( 23%)	.086	.053-.119 ( 38%)	25.75	0.221	All species
			****	NOT RECORDED	****		Black bullhead
28	4-52	( 84%)	.001	.000-.002 ( 89%)	0.70	0.163	Black crappie
78	31-125	( 61%)	.009	.000-.019 (112%)	1.91	0.105	Bluegill
510	337-684	( 34%)	.049	.019-.080 ( 62%)	12.57	0.420	Channel catfish
30	0-96	(218%)	.001	.000-.004 (218%)	0.75	3.295	Flathead catfish
20	0-54	(170%)	.001	.000-.002 (114%)	0.49	1.590	Freshwater drum
0	0-1	(236%)	.000	.000-.000 (236%)	0.01	0.108	Green sunfish
			****	NOT RECORDED	****		Gizzard shad
73	20-127	( 73%)	.005	.002-.007 ( 63%)	1.80	0.712	Largemouth bass
1	0-3	(318%)	.000	.000-.000 (318%)	0.02	0.250	Redear sunfish
			****	NOT RECORDED	****		White bass
285	125-444	( 56%)	.016	.008-.023 ( 48%)	7.02	0.121	White crappie
16	0-51	(209%)	.003	.000-.010 (204%)	0.40	0.296	Yellow bullhead
3	0-8	(163%)	.001	.000-.002 (179%)	0.08	0.049	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
2304	1764-2845	( 23%)	.189	.117-.262 ( 38%)	22.97	0.487	All species
			****	NOT RECORDED	****		Black bullhead
63	10-115	( 84%)	.003	.000-.005 ( 89%)	0.62	0.360	Black crappie
171	67-275	( 61%)	.020	.000-.042 (112%)	1.71	0.232	Bluegill
1125	743-1507	( 34%)	.109	.041-.176 ( 62%)	11.21	0.926	Channel catfish
67	0-212	(218%)	.003	.000-.009 (218%)	0.67	7.264	Flathead catfish
44	0-119	(170%)	.002	.000-.005 (114%)	0.44	3.505	Freshwater drum
1	0-2	(236%)	.000	.000-.000 (236%)	0.01	0.238	Green sunfish
			****	NOT RECORDED	****		Gizzard shad
161	44-279	( 73%)	.010	.004-.017 ( 63%)	1.61	1.570	Largemouth bass
2	0-7	(278%)	.000	.000-.000 (318%)	0.02	0.552	Redear sunfish
			****	NOT RECORDED	****		White bass
628	276-980	( 56%)	.034	.018-.051 ( 48%)	6.26	0.267	White crappie
36	0-112	(209%)	.007	.000-.022 (204%)	0.36	0.652	Yellow bullhead
7	0-18	(163%)	.001	.000-.003 (179%)	0.07	0.109	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
14377	11962-16792 ( 17%)	1.059	.845-1.273 ( 20%)	354.19	143.34	All species
5	0-14 (153%)	.000	.000-.001 (154%)	0.14	0.05	Black bullhead
385	219-551 ( 43%)	.021	.006-.036 ( 73%)	9.48	3.84	Black crappie
2877	1740-4014 ( 40%)	.261	.093-.429 ( 64%)	70.88	28.69	Bluegill
2863	2276-3450 ( 21%)	.223	.169-.277 ( 24%)	70.54	28.55	Channel catfish
9	0-29 (218%)	.000	.000-.001 (220%)	0.23	0.09	Flathead catfish
72	0-183 (154%)	.006	.000-.015 (144%)	1.78	0.72	Freshwater drum
23	0-71 (212%)	.001	.000-.003 (220%)	0.56	0.23	Green sunfish
23	0-121 (430%)	.005	.000-.020 (318%)	0.56	0.23	Gizzard shad
2364	1829-2899 ( 23%)	.144	.109-.178 ( 24%)	58.25	23.57	Largemouth bass
3	0-12 (278%)	.000	.000-.000 (318%)	0.08	0.03	Redear sunfish
8	0-21 (155%)	.000	.000-.001 (164%)	0.20	0.08	White bass
5272	3410-7133 ( 35%)	.351	.224-.478 ( 36%)	129.87	52.56	White crappie
68	0-189 (177%)	.012	.000-.035 (192%)	1.68	0.68	Yellow bullhead
404	210-597 ( 48%)	.034	.011-.057 ( 67%)	9.95	4.03	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
2558	2120-2996 ( 17%)	.188	.147-.229 ( 22%)	63.02	0.178	All species
1	0-2 (170%)	.000	.000-.000 (175%)	0.02	0.128	Black bullhead
47	21-73 ( 56%)	.003	.001-.004 ( 64%)	1.15	0.121	Black crappie
175	95-254 ( 45%)	.016	.004-.029 ( 76%)	4.30	0.061	Bluegill
693	509-876 ( 27%)	.062	.031-.094 ( 50%)	17.06	0.242	Channel catfish
30	0-96 (218%)	.001	.000-.004 (218%)	0.75	3.295	Flathead catfish
60	0-124 (107%)	.006	.000-.020 (209%)	1.47	0.830	Freshwater drum
1	0-2 (156%)	.000	.000-.000 (170%)	0.02	0.028	Green sunfish
1	0-8 (430%)	.000	.000-.001 (318%)	0.04	0.065	Gizzard shad
1023	708-1337 ( 31%)	.060	.039-.081 ( 35%)	25.19	0.432	Largemouth bass
1	0-3 (318%)	.000	.000-.000 (318%)	0.02	0.250	Redear sunfish
5	0-17 (212%)	.000	.000-.001 (214%)	0.13	0.667	White bass
481	297-666 ( 38%)	.033	.019-.047 ( 43%)	11.86	0.091	White crappie
18	0-53 (187%)	.003	.000-.010 (194%)	0.45	0.269	Yellow bullhead
23	11-34 ( 51%)	.002	.001-.003 ( 60%)	0.56	0.056	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
5639	4674-6605	( 17%)	.414	.323-.505 ( 22%)	56.22	0.392	All species
2	0-4	(170%)	.000	.000-.000 (175%)	0.02	0.283	Black bullhead
103	46-160	( 56%)	.006	.002-.009 ( 64%)	1.03	0.268	Black crappie
385	210-560	( 45%)	.036	.009-.064 ( 76%)	3.84	0.134	Bluegill
1527	1122-1932	( 27%)	.138	.069-.206 ( 50%)	15.22	0.533	Channel catfish
67	0-212	(218%)	.003	.000-.009 (218%)	0.67	7.264	Flathead catfish
132	0-274	(107%)	.014	.000-.043 (209%)	1.32	1.831	Freshwater drum
1	0-4	(156%)	.000	.000-.000 (170%)	0.01	0.061	Green sunfish
3	0-17	(430%)	.001	.000-.004 (430%)	0.03	0.142	Gizzard shad
2254	1561-2947	( 31%)	.133	.087-.179 ( 35%)	22.48	0.953	Largemouth bass
2	0-7	(278%)	.000	.000-.000 (318%)	0.02	0.552	Redear sunfish
12	0-37	(215%)	.000	.000-.001 (214%)	0.12	1.471	White bass
1061	655-1467	( 38%)	.072	.041-.103 ( 43%)	10.58	0.201	White crappie
41	0-116	(187%)	.008	.000-.022 (194%)	0.40	0.593	Yellow bullhead
50	25-75	( 51%)	.004	.002-.007 ( 60%)	0.50	0.124	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	2.1	1.6-2.6 ( 25%)	0.3	7.2	27
SHORE	1.1	0.8-1.5 ( 30%)	0.2	3.9	26
BOAT & SHORE	1.6	1.3-2.0 ( 20%)	0.2	7.2	53
MILES TRAVELED	21.0	16.5-25.4 ( 21%)	1	1200	657
SUCCESS RATING (1-10)	3.9	3.7-4.0 ( 5%)	1	10	657

\*4 samples were from split interviews of completed trips.  
7.3% of all 731 interviews were completed trips.

ILLEGAL HARVEST: Clerk noted 0 out of 731 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	121	202	58	19	2					
SHORE INTERVIEWS	157	94	48	24	4		2			

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

314 ( 43.0%)	ANY	All species
2 ( 0.3%)	BLC	Black crappie
20 ( 2.7%)	BLG	Bluegill
166 ( 22.7%)	CCF	Channel catfish
52 ( 7.1%)	CRP	Crappie spp.
176 ( 24.1%)	LMB	Largemouth bass
1 ( 0.1%)	WHC	White crappie

