

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

2005 FORBES
 558 ACRES
 REGION 5, DISTRICT 18

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: 304/693 = 43.9%

NUMBER OF INTERVIEWS: 1567

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	14819	13178-16460 (11%)	27	24-29 (11%)	11%
	HOLIDAY	16880	12834-20927 (24%)	30	23-38 (24%)	25%
	TOTAL	31700	27529-35870 (13%)	57	49-64 (13%)	18%
SHORE	WEEKDAY	2941	2317-3564 (21%)	5	4-6 (21%)	11%
	HOLIDAY	2496	1878-3114 (25%)	4	3-6 (25%)	21%
	TOTAL	5436	4559-6314 (16%)	10	8-11 (16%)	15%
BOAT & SHORE	WEEKDAY	17760	16005-19515 (10%)	32	29-35 (10%)	11%
	HOLIDAY	19376	15287-23466 (21%)	35	27-42 (21%)	24%
	TOTAL	37136	32874-41398 (11%)	67	59-74 (11%)	18%

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

# HARVESTED	95% CI	#/HOUR	95% CI	#/HA	#/ACRE	SPECIES
31982	21839-42124 (32%)	.422	.355-.488 (16%)	141.62	57.31	All species
		****	NOT RECORDED			Black bullhead
874	476-1273 (46%)	.020	.006-.034 (72%)	3.87	1.57	Bluegill
20	20-20 (0%)	.001	.000-.019 (1271%)	0.09	0.04	Carp
2561	1344-3779 (48%)	.037	.000-.082 (121%)	11.34	4.59	Channel catfish
39	0-119 (204%)	.000	.000-.000 (168%)	0.17	0.07	Crappie spp.
61	0-127 (106%)	.001	.000-.002 (119%)	0.27	0.11	Green sunfish
5014	3962-6065 (21%)	.093	.067-.119 (28%)	22.20	8.98	Largemouth bass
		****	NOT RECORDED			Longear sunfish
		****	NOT RECORDED			Muskellunge
		****	NOT RECORDED			Redear sunfish
361	47-676 (87%)	.004	.001-.006 (80%)	1.60	0.65	Striped bass x White
		****	NOT RECORDED			Smallmouth bass
4	0-15 (257%)	.000	.000-.001 (257%)	0.02	0.01	Warmouth
22607	12693-32521 (44%)	.261	.205-.318 (22%)	100.11	40.51	White crappie
		****	NOT RECORDED			White sucker
365	194-536 (47%)	.002	.001-.003 (65%)	1.62	0.65	Walleye x Sauger
74	36-112 (51%)	.002	.000-.004 (144%)	0.33	0.13	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
12184	8598-15770 (29%)	.170	.129-.210 (24%)	53.95	0.381	All species
		****	NOT RECORDED			Black bullhead
161	92-230 (43%)	.004	.001-.007 (65%)	0.71	0.184	Bluegill
46	46-46 (0%)	.003	.003-.003 (0%)	0.20	2.313	Carp
2422	1104-3739 (54%)	.034	.000-.082 (143%)	10.72	0.945	Channel catfish
10	0-36 (250%)	.000	.000-.000 (184%)	0.05	0.266	Crappie spp.
10	0-22 (123%)	.000	.000-.000 (106%)	0.04	0.162	Green sunfish
3088	2438-3738 (21%)	.055	.039-.070 (28%)	13.68	0.616	Largemouth bass
		****	NOT RECORDED			Longear sunfish
		****	NOT RECORDED			Muskellunge
		****	NOT RECORDED			Redear sunfish
527	162-893 (69%)	.005	.001-.009 (73%)	2.33	1.459	Striped bass x White
		****	NOT RECORDED			Smallmouth bass
1	0-3 (257%)	.000	.000-.000 (257%)	0.00	0.193	Warmouth
5884	2328-9441 (60%)	.067	.050-.085 (26%)	26.06	0.260	White crappie
		****	NOT RECORDED			White sucker
		****	NOT RECORDED			Walleye x Sauger
35	19-50 (46%)	.001	.000-.001 (88%)	0.15	0.465	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
26861	18956-34766 (29%)	.374	.284-.463 (24%)	48.14	0.840	All species
		****	NOT RECORDED	****		Black bullhead
354	202-506 (43%)	.009	.003-.015 (65%)	0.63	0.405	Bluegill
102	0-1398 (1271%)	.007	.000-.097 (1271%)	0.18	5.099	Carp
5339	2433-8244 (54%)	.075	.000-.182 (143%)	9.57	2.084	Channel catfish
23	0-80 (250%)	.000	.000-.000 (184%)	0.04	0.587	Crappie spp.
22	0-49 (123%)	.000	.000-.001 (106%)	0.04	0.357	Green sunfish
6808	5374-8242 (21%)	.120	.086-.154 (28%)	12.20	1.358	Largemouth bass
		****	NOT RECORDED	****		Longear sunfish
		****	NOT RECORDED	****		Muskellunge
		****	NOT RECORDED	****		Redear sunfish
1162	357-1968 (69%)	.012	.003-.021 (73%)	2.08	3.217	Striped bass x White
		****	NOT RECORDED	****		Smallmouth bass
2	0-6 (257%)	.000	.000-.001 (278%)	0.00	0.425	Warmouth
12973	5132-20814 (60%)	.148	.109-.187 (26%)	23.25	0.574	White crappie
		****	NOT RECORDED	****		White sucker
		****	NOT RECORDED	****		Walleye x Sauger
76	41-111 (46%)	.002	.000-.003 (88%)	0.14	1.025	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
112633	84597-140669 (25%)	1.551	1.363-1.740 (12%)	498.77	201.85	All species
35	0-71 (103%)	.001	.000-.002 (145%)	0.16	0.06	Black bullhead
6910	4963-8857 (28%)	.182	.119-.245 (35%)	30.60	12.38	Bluegill
57	0-472 (735%)	.002	.000-.029 (1217%)	0.25	0.10	Carp
4234	2695-5773 (36%)	.068	.021-.114 (69%)	18.75	7.59	Channel catfish
630	0-1312 (108%)	.007	.000-.027 (278%)	2.79	1.13	Crappie spp.
169	45-293 (73%)	.004	.000-.009 (128%)	0.75	0.30	Green sunfish
24272	19296-29248 (20%)	.352	.286-.418 (19%)	107.48	43.50	Largemouth bass
4	0-13 (257%)	.000	.000-.000 (257%)	0.02	0.01	Longear sunfish
26	0-70 (165%)	.000	.000-.001 (165%)	0.12	0.05	Muskellunge
76	0-163 (114%)	.001	.000-.001 (121%)	0.34	0.14	Redear sunfish
821	385-1257 (53%)	.008	.004-.012 (52%)	3.63	1.47	Striped bass x White
4	0-21 (430%)	.000	.000-.001 (1271%)	0.02	0.01	Smallmouth bass
46	0-118 (158%)	.001	.000-.003 (234%)	0.20	0.08	Warmouth
73796	47358-100233 (36%)	.912	.753-1.072 (17%)	326.79	132.25	White crappie
12	0-40 (223%)	.000	.000-.000 (220%)	0.05	0.02	White sucker
1397	286-2508 (80%)	.010	.004-.016 (57%)	6.19	2.50	Walleye x Sauger
145	66-223 (54%)	.004	.001-.007 (84%)	0.64	0.26	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
19816	15000-24633 (24%)	.257	.209-.305 (19%)	87.75	0.176	All species
8	0-18 (130%)	.000	.000-.000 (123%)	0.03	0.220	Black bullhead
399	284-513 (29%)	.011	.007-.014 (37%)	1.76	0.058	Bluegill
106	0-874 (723%)	.004	.000-.053 (1218%)	0.47	1.877	Carp
2878	1362-4395 (53%)	.040	.000-.096 (140%)	12.75	0.680	Channel catfish
33	4-63 (89%)	.000	.000-.001 (263%)	0.15	0.053	Crappie spp.
17	3-30 (79%)	.000	.000-.001 (99%)	0.07	0.098	Green sunfish
7048	5748-8348 (18%)	.093	.074-.113 (21%)	31.21	0.290	Largemouth bass
0	0-0 (257%)	.000	.000-.000 (257%)	0.00	0.023	Longear sunfish
15	0-33 (130%)	.000	.000-.000 (176%)	0.06	0.551	Muskellunge
5	0-10 (112%)	.000	.000-.000 (128%)	0.02	0.060	Redear sunfish
876	339-1414 (61%)	.009	.003-.014 (61%)	3.88	1.068	Striped bass x White
2	0-22 (1271%)	.000	.000-.000 (430%)	0.01	0.404	Smallmouth bass
5	0-14 (169%)	.000	.000-.000 (237%)	0.02	0.114	Warmouth
8370	3935-12804 (53%)	.098	.077-.120 (22%)	37.06	0.113	White crappie
0	0-1 (220%)	.000	.000-.000 (220%)	0.00	0.025	White sucker
		****	NOT RECORDED ****			Walleye x Sauger
55	30-80 (46%)	.001	.000-.002 (76%)	0.24	0.379	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
43687	33069-54306 (24%)	.566	.460-.671 (19%)	78.29	0.388	All species
17	0-39 (130%)	.000	.000-.000 (123%)	0.03	0.486	Black bullhead
879	626-1131 (29%)	.023	.015-.032 (37%)	1.57	0.127	Bluegill
234	0-1927 (723%)	.009	.000-.117 (1218%)	0.42	4.138	Carp
6346	3002-9689 (53%)	.088	.000-.211 (140%)	11.37	1.499	Channel catfish
74	8-139 (89%)	.001	.000-.002 (263%)	0.13	0.117	Crappie spp.
37	8-66 (79%)	.001	.000-.001 (99%)	0.07	0.217	Green sunfish
15538	12672-18404 (18%)	.206	.162-.249 (21%)	27.85	0.640	Largemouth bass
0	0-1 (257%)	.000	.000-.000 (278%)	0.00	0.052	Longear sunfish
32	0-74 (130%)	.000	.000-.001 (176%)	0.06	1.215	Muskellunge
10	0-21 (112%)	.000	.000-.000 (128%)	0.02	0.132	Redear sunfish
1932	747-3117 (61%)	.019	.007-.030 (61%)	3.46	2.354	Striped bass x Whit
4	0-49 (1271%)	.000	.000-.000 (430%)	0.01	0.890	Smallmouth bass
12	0-31 (169%)	.000	.000-.001 (237%)	0.02	0.252	Warmouth
18452	8676-28229 (53%)	.217	.169-.264 (22%)	33.07	0.250	White crappie
1	0-2 (220%)	.000	.000-.000 (223%)	0.00	0.055	White sucker
		****	NOT RECORDED ****			Walleye x Sauger hy
121	65-177 (46%)	.003	.001-.005 (76%)	0.22	0.835	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	5.7	5.5-6.0 (4%)	1.0	9.0	401
SHORE	1.8	1.5-2.2 (20%)	0.8	3.8	20
BOAT & SHORE	5.5	5.3-5.8 (5%)	0.8	9.0	421
MILES TRAVELED	41.1	37.5-44.7 (9%)	1	360	1052
SUCCESS RATING (1-10)	3.6	3.4-3.7 (4%)	1	10	1004

*113 samples were from split interviews of completed trips.
29.2% of all 1442 interviews were completed trips.

ILLEGAL HARVEST: Clerk noted 13 out of 1442 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	474	647	62	13	5		2			
SHORE INTERVIEWS	92	88	43	13	1	1	1			

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

169 (11.7%)	ANY	All species
37 (2.6%)	BLG	Bluegill
5 (0.3%)	CAT	Unidentified catfish
128 (8.9%)	CCF	Channel catfish
265 (18.4%)	CRP	Crappie spp.
727 (50.4%)	LMB	Largemouth bass
15 (1.0%)	SBH	Striped bass x White bass hybrid (Wiper)
2 (0.1%)	WHB	White bass
81 (5.6%)	WHC	White crappie
13 (0.9%)	WSH	Walleye x Sauger hybrid (Saugeye)

2005 FORBES

DAY CREEL

03/15/2005 - 10/31/2005

Table 11. Number of anglers with a given harvest & release for completed trips

# OF FISH:	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25+	
Bluegill																											
HARVEST	609	6	-	5	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	569	6	18	14	-	3	1	2	2	-	1	-	-	2	-	-	-	-	-	-	3	-	-	-	-	-	-
Carp																											
HARVEST	620	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	613	8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Channel catfish																											
HARVEST	575	25	5	6	2	5	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	572	37	4	5	-	1	1	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Crappie spp.																											
HARVEST	618	-	-	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	618	-	-	2	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Green sunfish																											
HARVEST	618	-	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	617	3	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Largemouth bass																											
HARVEST	507	58	36	7	8	3	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	171	102	105	50	42	29	16	14	11	11	17	5	6	2	3	4	7	3	3	-	3	-	1	2	-	14	
Muskellunge																											
HARVEST	621	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	620	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Redear sunfish																											
HARVEST	621	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	619	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

2005 FORBES

DAY CREEL

03/15/2005 - 10/31/2005

Table 11 Cont. Number of anglers with a given harvest & release for completed trips

# OF FISH:	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25+	
Striped bass x White bass hybrid (Wiper)																											
HARVEST	608	7	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	602	11	2	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Smallmouth bass																											
HARVEST	621	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	619	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Warmouth																											
HARVEST	621	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	616	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
White crappie																											
HARVEST	479	9	17	31	5	24	16	8	2	-	3	8	1	9	-	3	-	-	-	2	-	-	-	2	-	2	
RELEASE	381	18	21	25	20	15	14	6	23	-	15	3	5	8	-	10	4	-	14	2	9	-	-	4	-	24	
Walleye x Sauger hybrid (Saugeye)																											
HARVEST	604	14	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	567	38	9	1	3	-	-	1	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Yellow bullhead																											
HARVEST	621	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	620	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

