

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

2003 MCLEANSBORO  
 75 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: 303/693 = 43.7%

NUMBER OF INTERVIEWS: 699

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	1144	826-1463 ( 28%)	15	11-20 ( 28%)	24%
	HOLIDAY	1921	749-3092 ( 61%)	26	10-41 ( 61%)	54%
	TOTAL	3065	1861-4269 ( 39%)	41	25-57 ( 39%)	43%
SHORE	WEEKDAY	1961	1490-2432 ( 24%)	26	20-32 ( 24%)	17%
	HOLIDAY	1513	1114-1911 ( 26%)	20	15-25 ( 26%)	39%
	TOTAL	3474	2869-4079 ( 17%)	46	38-54 ( 17%)	27%
BOAT & SHORE	WEEKDAY	3106	2537-3674 ( 18%)	41	34-49 ( 18%)	20%
	HOLIDAY	3433	2213-4653 ( 36%)	46	30-62 ( 36%)	48%
	TOTAL	6539	5208-7871 ( 20%)	87	69-105 ( 20%)	34%

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

# HARVESTED	95% CI	#/HOUR	95% CI	#/HA	#/ACRE	SPECIES
8055	4672-11439 ( 42%)	.604	.298-.909 ( 51%)	265.40	107.41	All species
526	0-1182 (125%)	.058	.000-.181 (211%)	17.34	7.02	Black crappie
1049	473-1625 ( 55%)	.139	.034-.244 ( 76%)	34.56	13.99	Bluegill
		****	NOT RECORDED ****			Brown bullhead
1210	920-1501 ( 24%)	.090	.061-.120 ( 32%)	39.87	16.14	Channel catfish
		****	NOT RECORDED ****			Flathead catfish
16	0-42 (161%)	.002	.000-.004 (161%)	0.53	0.22	Green sunfish
		****	NOT RECORDED ****			Gizzard shad
26	5-48 ( 83%)	.004	.000-.008 (127%)	0.87	0.35	Largemouth bass
131	0-284 (117%)	.059	.000-.160 (173%)	4.32	1.75	Longear sunfish
39	0-80 (103%)	.023	.000-.067 (186%)	1.30	0.53	Redear sunfish
45	0-155 (246%)	.004	.000-.013 (259%)	1.48	0.60	Warmouth
4943	1919-7967 ( 61%)	.212	.086-.338 ( 59%)	162.86	65.91	White crappie
3	0-10 (209%)	.000	.000-.001 (209%)	0.11	0.04	Yellow bullhead
		****	NOT RECORDED ****			Yellow perch
66	0-221 (236%)	.013	.000-.044 (245%)	2.16	0.88	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
1227	807-1647 ( 34%)	.079	.058-.101 ( 27%)	40.43	0.152	All species
47	1-94 ( 99%)	.004	.000-.012 (196%)	1.56	0.090	Black crappie
93	42-144 ( 55%)	.008	.004-.013 ( 56%)	3.06	0.088	Bluegill
		****	NOT RECORDED ****			Brown bullhead
588	448-728 ( 24%)	.044	.030-.059 ( 33%)	19.37	0.486	Channel catfish
		****	NOT RECORDED ****			Flathead catfish
2	0-7 (189%)	.000	.000-.001 (189%)	0.08	0.144	Green sunfish
		****	NOT RECORDED ****			Gizzard shad
22	2-41 ( 90%)	.003	.000-.006 (121%)	0.71	0.812	Largemouth bass
12	0-29 (140%)	.003	.000-.008 (132%)	0.40	0.093	Longear sunfish
7	0-14 (112%)	.001	.000-.003 (131%)	0.22	0.173	Redear sunfish
7	0-25 (260%)	.001	.000-.002 (275%)	0.23	0.156	Warmouth
441	76-806 ( 83%)	.013	.006-.020 ( 51%)	14.52	0.089	White crappie
5	0-17 (209%)	.001	.000-.002 (209%)	0.18	1.595	Yellow bullhead
		****	NOT RECORDED ****			Yellow perch
3	0-11 (245%)	.001	.000-.002 (236%)	0.11	0.050	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
2705	1779-3632	( 34%)	.175	.128-.222 ( 27%)	36.07	0.336	All species
104	1-207	( 99%)	.009	.000-.027 (196%)	1.39	0.198	Black crappie
204	92-316	( 55%)	.018	.008-.028 ( 56%)	2.73	0.195	Bluegill
			****	NOT RECORDED ****			Brown bullhead
1296	988-1604	( 24%)	.098	.065-.130 ( 33%)	17.28	1.071	Channel catfish
			****	NOT RECORDED ****			Flathead catfish
5	0-15	(189%)	.001	.000-.002 (189%)	0.07	0.317	Green sunfish
			****	NOT RECORDED ****			Gizzard shad
47	5-90	( 90%)	.006	.000-.013 (121%)	0.63	1.791	Largemouth bass
27	0-65	(140%)	.007	.000-.017 (132%)	0.36	0.206	Longear sunfish
15	0-32	(112%)	.003	.000-.007 (131%)	0.20	0.381	Redear sunfish
15	0-55	(260%)	.001	.000-.005 (275%)	0.21	0.343	Warmouth
972	167-1776	( 83%)	.029	.014-.044 ( 51%)	12.95	0.197	White crappie
12	0-37	(210%)	.001	.000-.004 (209%)	0.16	3.516	Yellow bullhead
			****	NOT RECORDED ****			Yellow perch
7	0-25	(245%)	.001	.000-.005 (236%)	0.10	0.110	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
16824	10755-22893 ( 36%)		1.223	.836-1.611 ( 32%)	554.29	224.32	All species
790	57-1523 ( 93%)		.074	.000-.199 (171%)	26.03	10.53	Black crappie
4373	2516-6229 ( 42%)		.305	.185-.426 ( 39%)	144.06	58.30	Bluegill
29	0-63 (118%)		.005	.000-.011 (134%)	0.95	0.39	Brown bullhead
2362	1774-2951 ( 25%)		.189	.135-.244 ( 29%)	77.83	31.50	Channel catfish
3	0-11 (257%)		.001	.000-.002 (278%)	0.10	0.04	Flathead catfish
21	0-49 (131%)		.002	.000-.004 (154%)	0.70	0.28	Green sunfish
2	0-8 (236%)		.000	.000-.000 (245%)	0.08	0.03	Gizzard shad
914	568-1259 ( 38%)		.092	.058-.126 ( 37%)	30.10	12.18	Largemouth bass
151	0-305 (102%)		.059	.000-.160 (172%)	4.98	2.02	Longear sunfish
105	26-183 ( 75%)		.025	.000-.068 (175%)	3.45	1.40	Redear sunfish
159	35-283 ( 78%)		.006	.000-.016 (155%)	5.25	2.12	Warmouth
7495	4078-10912 ( 46%)		.425	.232-.618 ( 45%)	246.94	99.94	White crappie
113	60-167 ( 47%)		.010	.005-.015 ( 51%)	3.74	1.51	Yellow bullhead
7	0-19 (168%)		.000	.000-.001 (156%)	0.24	0.10	Yellow perch
299	94-504 ( 69%)		.031	.000-.063 (106%)	9.84	3.98	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
2155	1446-2863 ( 33%)		.154	.125-.184 ( 19%)	70.99	0.128	All species
64	12-117 ( 82%)		.005	.000-.014 (160%)	2.12	0.081	Black crappie
313	162-463 ( 48%)		.018	.011-.025 ( 38%)	10.30	0.071	Bluegill
3	0-6 (116%)		.000	.000-.001 (131%)	0.09	0.094	Brown bullhead
768	602-934 ( 22%)		.059	.042-.075 ( 28%)	25.31	0.325	Channel catfish
5	0-20 (257%)		.001	.000-.003 (257%)	0.18	1.821	Flathead catfish
3	0-7 (171%)		.000	.000-.001 (186%)	0.08	0.121	Green sunfish
0	0-1 (245%)		.000	.000-.000 (236%)	0.01	0.062	Gizzard shad
361	242-481 ( 33%)		.040	.026-.055 ( 36%)	11.90	0.395	Largemouth bass
14	0-32 (122%)		.003	.000-.008 (131%)	0.47	0.095	Longear sunfish
16	4-28 ( 77%)		.002	.000-.004 (110%)	0.52	0.150	Redear sunfish
18	1-35 ( 92%)		.001	.000-.002 (178%)	0.60	0.113	Warmouth
533	159-907 ( 70%)		.019	.012-.027 ( 39%)	17.57	0.071	White crappie
31	14-47 ( 55%)		.003	.001-.005 ( 67%)	1.01	0.270	Yellow bullhead
1	0-1 (158%)		.000	.000-.000 (150%)	0.02	0.074	Yellow perch
25	9-42 ( 66%)		.002	.000-.004 ( 88%)	0.83	0.084	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
4751	3189-6313	( 33%)	.340	.275-.406 ( 19%)	63.34	0.282	All species
142	25-258	( 82%)	.012	.000-.030 (160%)	1.89	0.179	Black crappie
689	357-1021	( 48%)	.040	.024-.055 ( 38%)	9.19	0.158	Bluegill
6	0-13	(116%)	.001	.000-.002 (131%)	0.08	0.208	Brown bullhead
1694	1328-2060	( 22%)	.130	.094-.165 ( 28%)	22.59	0.717	Channel catfish
12	0-43	(257%)	.002	.000-.008 (257%)	0.16	4.016	Flathead catfish
6	0-15	(171%)	.001	.000-.002 (186%)	0.08	0.266	Green sunfish
0	0-1	(245%)	.000	.000-.000 (245%)	0.00	0.137	Gizzard shad
796	533-1060	( 33%)	.089	.057-.121 ( 36%)	10.61	0.871	Largemouth bass
32	0-70	(122%)	.007	.000-.017 (131%)	0.42	0.210	Longear sunfish
35	8-61	( 77%)	.004	.000-.008 (110%)	0.46	0.330	Redear sunfish
40	3-76	( 92%)	.002	.000-.005 (178%)	0.53	0.250	Warmouth
1176	351-2000	( 70%)	.043	.026-.059 ( 39%)	15.68	0.157	White crappie
67	30-105	( 55%)	.007	.002-.012 ( 67%)	0.90	0.594	Yellow bullhead
1	0-3	(158%)	.000	.000-.000 (150%)	0.02	0.163	Yellow perch
55	19-92	( 66%)	.004	.000-.008 ( 88%)	0.74	0.186	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	4.2	3.9-4.5	( 8%)	0.6	8.2	159
SHORE	1.9	1.6-2.2	( 13%)	0.2	7.0	151
BOAT & SHORE	3.1	2.8-3.3	( 8%)	0.2	8.2	310
MILES TRAVELED	19.0	11.2-26.9	( 41%)	1	1100	521
SUCCESS RATING (1-10)	3.7	3.4-3.9	( 7%)	1	10	521

\*145 samples were from split interviews of completed trips.  
 56.2% of all 552 interviews were completed trips.

ILLEGAL HARVEST: Clerk noted 2 out of 552 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	56	122	18		1					
SHORE INTERVIEWS	171	135	27	15	6					1

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

163 ( 29.5%)	ANY	All species
16 ( 2.9%)	BLG	Bluegill
109 ( 19.7%)	CAT	Unidentified catfish
80 ( 14.5%)	CCF	Channel catfish
100 ( 18.1%)	CRP	Crappie spp.
83 ( 15.0%)	LMB	Largemouth bass
1 ( 0.2%)	RSF	Redear sunfish



2003 MCLEANSBORO

DAY CREEL

03/15/2003 - 10/31/2003

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+
Yellow perch																
HARVEST	538	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	536	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Yellow bass																
HARVEST	537	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-
RELEASE	503	17	4	7	-	5	-	-	-	-	2	-	-	-	-	-