

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

2003 BLOOMINGTON
 635 ACRES
 REGION 3, DISTRICT 10

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: 313/693 = 45.2%

NUMBER OF INTERVIEWS: 1976

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	17460	14918-20002 (15%)	27	23-31 (15%)	11%
	HOLIDAY	14042	11940-16145 (15%)	22	19-25 (15%)	22%
	TOTAL	31502	28204-34801 (10%)	50	44-55 (10%)	16%
SHORE	WEEKDAY	6083	4663-7504 (23%)	10	7-12 (23%)	6%
	HOLIDAY	6389	5127-7651 (20%)	10	8-12 (20%)	14%
	TOTAL	12472	10572-14372 (15%)	20	17-23 (15%)	10%
BOAT & SHORE	WEEKDAY	23543	20631-26455 (12%)	37	32-42 (12%)	10%
	HOLIDAY	20431	17979-22883 (12%)	32	28-36 (12%)	19%
	TOTAL	43974	40167-47781 (9%)	69	63-75 (9%)	14%

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

# HARVESTED	95% CI		#/HOUR	95% CI	#/HA	#/ACRE	SPECIES
25264	21153-29376	(16%)	.343	.287-.398 (16%)	98.31	39.79	All species
18	0-38	(113%)	.001	.000-.003 (167%)	0.07	0.03	Black bullhead
6478	5125-7832	(21%)	.087	.066-.107 (23%)	25.21	10.20	Black crappie
2313	1510-3116	(35%)	.039	.024-.055 (40%)	9.00	3.64	Bluegill
			****	NOT RECORDED ****			Bullhead spp.
2	0-9	(245%)	.000	.000-.000 (245%)	0.01	0.00	Black x White crapp
12	0-30	(157%)	.000	.000-.000 (148%)	0.05	0.02	Carp
504	342-666	(32%)	.007	.004-.010 (42%)	1.96	0.79	Channel catfish
8	0-19	(142%)	.000	.000-.000 (146%)	0.03	0.01	Flathead catfish
77	1-153	(99%)	.000	.000-.001 (119%)	0.30	0.12	Freshwater drum
10	0-32	(218%)	.000	.000-.000 (220%)	0.04	0.02	Green sunfish
			****	NOT RECORDED ****			Gizzard shad
126	52-201	(59%)	.001	.000-.003 (101%)	0.49	0.20	Largemouth bass
			****	NOT RECORDED ****			Northern pike
			****	NOT RECORDED ****			Rock bass
			****	NOT RECORDED ****			Redear sunfish
29	0-61	(109%)	.001	.000-.001 (118%)	0.11	0.05	Striped bass x Whit
33	0-86	(166%)	.001	.000-.003 (148%)	0.13	0.05	Smallmouth bass
			****	NOT RECORDED ****			Striped bass
207	124-290	(40%)	.003	.001-.004 (58%)	0.80	0.33	Walleye
4	0-10	(149%)	.000	.000-.000 (148%)	0.02	0.01	Warmouth
			****	NOT RECORDED ****			White bass
14060	11348-16773	(19%)	.181	.143-.219 (21%)	54.71	22.14	White crappie
1383	883-1884	(36%)	.022	.011-.032 (49%)	5.38	2.18	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
5432	4622-6242	(15%)	.075	.063-.086 (16%)	21.14	0.215	All species
6	0-12	(104%)	.000	.000-.001 (152%)	0.02	0.341	Black bullhead
1409	1125-1693	(20%)	.019	.015-.023 (23%)	5.48	0.218	Black crappie
347	240-455	(31%)	.006	.004-.008 (37%)	1.35	0.150	Bluegill
			****	NOT RECORDED ****			Bullhead spp.
0	0-2	(245%)	.000	.000-.000 (236%)	0.00	0.188	Black x White crapp
12	0-31	(155%)	.000	.000-.000 (148%)	0.05	1.045	Carp
413	278-547	(33%)	.006	.003-.009 (46%)	1.61	0.819	Channel catfish
9	0-22	(142%)	.000	.000-.000 (146%)	0.03	1.134	Flathead catfish
45	0-95	(111%)	.000	.000-.001 (127%)	0.18	0.589	Freshwater drum
1	0-2	(218%)	.000	.000-.000 (220%)	0.00	0.073	Green sunfish
			****	NOT RECORDED ****			Gizzard shad
150	45-255	(70%)	.001	.000-.003 (117%)	0.58	1.186	Largemouth bass
			****	NOT RECORDED ****			Northern pike
			****	NOT RECORDED ****			Rock bass
			****	NOT RECORDED ****			Redear sunfish
33	0-69	(112%)	.001	.000-.001 (123%)	0.13	1.115	Striped bass x Whit
40	0-109	(174%)	.001	.000-.003 (147%)	0.15	1.220	Smallmouth bass
			****	NOT RECORDED ****			Striped bass
147	83-211	(43%)	.002	.001-.003 (55%)	0.57	0.713	Walleye
1	0-2	(151%)	.000	.000-.000 (149%)	0.00	0.183	Warmouth
			****	NOT RECORDED ****			White bass
2614	2133-3094	(18%)	.034	.027-.042 (21%)	10.17	0.186	White crappie
206	133-279	(35%)	.003	.002-.005 (49%)	0.80	0.149	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
11976	10191-13762 (15%)	.164	.138-.190 (16%)	18.86	0.474	All species
13	0-27 (104%)	.001	.000-.002 (152%)	0.02	0.751	Black bullhead
3107	2481-3733 (20%)	.042	.032-.052 (23%)	4.89	0.480	Black crappie
765	529-1002 (31%)	.013	.008-.018 (37%)	1.21	0.331	Bluegill
		****	NOT RECORDED ****			Bullhead spp.
1	0-3 (236%)	.000	.000-.000 (245%)	0.00	0.414	Black x White crapp
27	0-69 (155%)	.000	.000-.000 (148%)	0.04	2.304	Carp
910	614-1206 (33%)	.014	.007-.020 (46%)	1.43	1.807	Channel catfish
20	0-48 (142%)	.000	.000-.000 (146%)	0.03	2.500	Flathead catfish
99	0-209 (111%)	.001	.000-.001 (127%)	0.16	1.298	Freshwater drum
2	0-5 (220%)	.000	.000-.000 (218%)	0.00	0.160	Green sunfish
		****	NOT RECORDED ****			Gizzard shad
330	99-562 (70%)	.003	.000-.007 (117%)	0.52	2.615	Largemouth bass
		****	NOT RECORDED ****			Northern pike
		****	NOT RECORDED ****			Rock bass
		****	NOT RECORDED ****			Redear sunfish
72	0-152 (112%)	.001	.000-.003 (123%)	0.11	2.458	Striped bass x Whit
88	0-240 (174%)	.003	.000-.007 (147%)	0.14	2.689	Smallmouth bass
		****	NOT RECORDED ****			Striped bass
325	184-466 (43%)	.004	.002-.006 (55%)	0.51	1.571	Walleye
2	0-4 (152%)	.000	.000-.000 (151%)	0.00	0.402	Warmouth
		****	NOT RECORDED ****			White bass
5762	4702-6822 (18%)	.076	.060-.092 (21%)	9.07	0.410	White crappie
454	293-614 (35%)	.007	.004-.011 (49%)	0.71	0.328	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
96961	86534-107387 (11%)	1.498	1.328-1.668 (11%)	377.31	152.69	All species
60	0-131 (119%)	.002	.000-.005 (121%)	0.23	0.09	Black bullhead
11131	8956-13306 (20%)	.159	.116-.202 (27%)	43.31	17.53	Black crappie
16817	13607-20028 (19%)	.240	.187-.294 (22%)	65.44	26.48	Bluegill
5	0-20 (278%)	.000	.000-.000 (257%)	0.02	0.01	Bullhead spp.
2	0-9 (245%)	.000	.000-.000 (245%)	0.01	0.00	Black x White crapp
199	111-287 (44%)	.002	.000-.004 (77%)	0.77	0.31	Carp
1043	794-1291 (24%)	.014	.010-.017 (28%)	4.06	1.64	Channel catfish
69	27-110 (61%)	.001	.000-.001 (90%)	0.27	0.11	Flathead catfish
1764	1289-2239 (27%)	.019	.012-.026 (36%)	6.86	2.78	Freshwater drum
288	77-498 (73%)	.003	.000-.006 (98%)	1.12	0.45	Green sunfish
349	6-692 (98%)	.011	.000-.022 (98%)	1.36	0.55	Gizzard shad
23948	21053-26842 (12%)	.354	.306-.401 (13%)	93.19	37.71	Largemouth bass
226	127-325 (44%)	.002	.001-.004 (62%)	0.88	0.36	Northern pike
51	13-89 (74%)	.001	.000-.001 (92%)	0.20	0.08	Rock bass
21	0-66 (216%)	.000	.000-.001 (236%)	0.08	0.03	Redear sunfish
1734	1046-2422 (40%)	.038	.018-.059 (52%)	6.75	2.73	Striped bass x Whit
1125	757-1492 (33%)	.021	.014-.029 (35%)	4.38	1.77	Smallmouth bass
55	0-165 (199%)	.001	.000-.002 (193%)	0.21	0.09	Striped bass
1681	1354-2007 (19%)	.037	.022-.051 (40%)	6.54	2.65	Walleye
40	0-81 (102%)	.000	.000-.000 (99%)	0.16	0.06	Warmouth
9	0-31 (245%)	.000	.000-.000 (245%)	0.04	0.01	White bass
27265	23039-31490 (15%)	.423	.351-.496 (17%)	106.10	42.94	White crappie
9080	7353-10808 (19%)	.169	.094-.244 (44%)	35.34	14.30	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
21967	19706-24227 (10%)	.341	.302-.380 (11%)	85.48	0.227	All species
13	2-23 (86%)	.000	.000-.001 (111%)	0.05	0.209	Black bullhead
1883	1525-2241 (19%)	.026	.020-.031 (22%)	7.33	0.169	Black crappie
1726	1393-2060 (19%)	.024	.019-.030 (22%)	6.72	0.103	Bluegill
0	0-2 (278%)	.000	.000-.000 (278%)	0.00	0.081	Bullhead spp.
0	0-2 (245%)	.000	.000-.000 (236%)	0.00	0.188	Black x White crapp
110	57-163 (48%)	.001	.000-.002 (63%)	0.43	0.553	Carp
678	507-849 (25%)	.009	.006-.012 (32%)	2.64	0.650	Channel catfish
110	41-179 (63%)	.001	.000-.002 (90%)	0.43	1.605	Flathead catfish
615	449-780 (27%)	.007	.005-.009 (34%)	2.39	0.348	Freshwater drum
10	3-16 (65%)	.000	.000-.000 (81%)	0.04	0.033	Green sunfish
14	0-28 (98%)	.000	.000-.001 (99%)	0.06	0.041	Gizzard shad
8587	7347-9827 (14%)	.127	.107-.147 (16%)	33.42	0.359	Largemouth bass
275	97-452 (65%)	.002	.001-.004 (54%)	1.07	1.214	Northern pike
8	1-15 (89%)	.000	.000-.000 (95%)	0.03	0.153	Rock bass
1	0-4 (167%)	.000	.000-.000 (217%)	0.01	0.066	Redear sunfish
1628	924-2331 (43%)	.036	.016-.057 (57%)	6.33	0.939	Striped bass x Whit
939	661-1218 (30%)	.020	.011-.029 (46%)	3.66	0.835	Smallmouth bass
4	0-11 (147%)	.000	.000-.000 (143%)	0.02	0.081	Striped bass
624	489-759 (22%)	.012	.008-.016 (33%)	2.43	0.371	Walleye
4	0-8 (98%)	.000	.000-.000 (99%)	0.02	0.105	Warmouth
1	0-2 (245%)	.000	.000-.000 (245%)	0.00	0.071	White bass
3847	3243-4451 (16%)	.060	.049-.070 (18%)	14.97	0.141	White crappie
889	720-1058 (19%)	.015	.011-.020 (30%)	3.46	0.098	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
48428	43445-53411 (10%)	.752	.667-.838 (11%)	76.26	0.499	All species
28	4-51 (86%)	.001	.000-.002 (111%)	0.04	0.462	Black bullhead
4151	3362-4941 (19%)	.057	.044-.069 (22%)	6.54	0.373	Black crappie
3806	3071-4541 (19%)	.054	.042-.066 (22%)	5.99	0.226	Bluegill
1	0-4 (278%)	.000	.000-.000 (257%)	0.00	0.179	Bullhead spp.
1	0-3 (236%)	.000	.000-.000 (245%)	0.00	0.414	Black x White crapp
242	125-359 (48%)	.002	.001-.003 (63%)	0.38	1.219	Carp
1495	1117-1872 (25%)	.020	.013-.026 (32%)	2.35	1.434	Channel catfish
243	90-396 (63%)	.003	.000-.005 (90%)	0.38	3.538	Flathead catfish
1355	989-1721 (27%)	.015	.010-.020 (34%)	2.13	0.768	Freshwater drum
21	7-35 (65%)	.000	.000-.000 (81%)	0.03	0.073	Green sunfish
31	1-62 (98%)	.001	.000-.002 (99%)	0.05	0.090	Gizzard shad
18931	16198-21665 (14%)	.281	.236-.325 (16%)	29.81	0.791	Largemouth bass
605	215-996 (65%)	.005	.002-.008 (54%)	0.95	2.677	Northern pike
17	2-33 (89%)	.000	.000-.000 (95%)	0.03	0.338	Rock bass
3	0-8 (167%)	.000	.000-.000 (217%)	0.00	0.146	Redear sunfish
3589	2038-5140 (43%)	.080	.034-.126 (57%)	5.65	2.069	Striped bass x Whit
2071	1458-2685 (30%)	.043	.023-.063 (46%)	3.26	1.842	Smallmouth bass
10	0-24 (147%)	.000	.000-.000 (143%)	0.02	0.178	Striped bass
1375	1078-1672 (22%)	.026	.017-.034 (33%)	2.17	0.818	Walleye
9	0-18 (98%)	.000	.000-.000 (99%)	0.01	0.231	Warmouth
1	0-5 (245%)	.000	.000-.000 (236%)	0.00	0.156	White bass
8481	7149-9812 (16%)	.131	.108-.155 (18%)	13.36	0.311	White crappie
1960	1588-2333 (19%)	.034	.024-.044 (30%)	3.09	0.216	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	3.7	3.4-3.9	(7%)	0.7	9.9	250
SHORE	1.6	1.2-1.9	(21%)	0.3	4.0	27
BOAT & SHORE	3.5	3.2-3.7	(7%)	0.3	9.9	277
MILES TRAVELED	20.4	19.5-21.2	(4%)	1	200	1626
SUCCESS RATING (1-10)	3.1	3.0-3.2	(3%)	1	10	1600

*130 samples were from split interviews of completed trips.
15.0% of all 1846 interviews were completed trips.

ILLEGAL HARVEST: Clerk noted 62 out of 1846 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	445	669	185	27	1					
SHORE INTERVIEWS	206	239	64	9	1					

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

214 (11.6%)	ANY	All species
53 (2.9%)	BLG	Bluegill
3 (0.2%)	BSS	Black bass spp.
101 (5.5%)	CCF	Channel catfish
805 (43.6%)	CRP	Crappie spp.
1 (0.1%)	FRD	Freshwater drum
478 (25.9%)	LMB	Largemouth bass
39 (2.1%)	SBH	Striped bass x White bass hybrid (Wiper)
15 (0.8%)	SMB	Smallmouth bass
136 (7.4%)	WAE	Walleye
1 (0.1%)	YLB	Yellow bass

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+
Black bullhead																
HARVEST	485	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	483	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-
Black crappie																
HARVEST	328	64	33	19	12	8	1	5	2	7	-	1	1	3	-	1
RELEASE	408	19	5	14	10	3	7	5	10	2	1	-	1	-	-	-
Bluegill																
HARVEST	437	38	8	2	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	319	62	29	35	7	11	8	4	4	2	2	2	-	-	-	-
Black x White crappie hybrid																
HARVEST	483	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	485	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Carp																
HARVEST	485	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	481	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Channel catfish																
HARVEST	467	18	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	466	19	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Flathead catfish																
HARVEST	485	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	484	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Freshwater drum																
HARVEST	485	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	457	25	3	-	-	-	-	-	-	-	-	-	-	-	-	-
Green sunfish																
HARVEST	485	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	483	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Gizzard shad																
HARVEST	485	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	478	1	2	-	-	2	-	-	-	-	1	-	-	-	-	1
Largemouth bass																
HARVEST	481	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	176	94	64	52	26	19	21	9	6	2	3	1	3	1	1	7

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+
Northern pike																
HARVEST	485	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	474	11	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Rock bass																
HARVEST	485	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	483	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Redear sunfish																
HARVEST	485	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	483	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Striped bass x White bass hybrid (Wiper)																
HARVEST	483	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	448	20	4	7	1	2	-	1	1	-	1	-	-	-	-	-
Smallmouth bass																
HARVEST	482	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	468	16	-	-	-	-	1	-	-	-	-	-	-	-	-	-
Striped bass																
HARVEST	485	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	479	4	-	2	-	-	-	-	-	-	-	-	-	-	-	-
Walleye																
HARVEST	470	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	427	47	7	2	2	-	-	-	-	-	-	-	-	-	-	-
Warmouth																
HARVEST	483	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	483	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
White bass																
HARVEST	485	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	484	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-
White crappie																
HARVEST	286	34	19	24	12	25	16	10	12	10	7	4	1	10	1	14
RELEASE	265	60	24	22	21	25	26	11	14	5	5	2	-	3	-	2
Yellow bass																
HARVEST	479	4	2	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	382	34	20	17	16	4	7	-	3	1	-	-	1	-	-	-