

ILLINOIS NATURAL HISTORY SURVEY
 CENTER FOR AQUATIC ECOLOGY
 2002 CREEL SURVEY RESULTS

2002 PISTAKEE
 1675 ACRES
 REGION 2, DISTRICT 7

STRATIFICATION SUMMARY:

Day creel only.
 Results cover 03/15/2002 through 10/31/2002
 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: 1296

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	9153	7503-10802 (18%)	5	4-6 (18%)	7%
	HOLIDAY	10443	8857-12030 (15%)	6	5-7 (15%)	14%
	TOTAL	19596	17308-21885 (12%)	12	10-13 (12%)	11%
SHORE	WEEKDAY	7416	5406-9426 (27%)	4	3-6 (27%)	6%
	HOLIDAY	6925	5587-8262 (19%)	4	3-5 (19%)	14%
	TOTAL	14341	11996-16686 (16%)	9	7-10 (16%)	10%
BOAT & SHORE	WEEKDAY	16568	14032-19105 (15%)	10	8-11 (15%)	6%
	HOLIDAY	17368	15294-19443 (12%)	10	9-12 (12%)	14%
	TOTAL	33937	30660-37213 (10%)	20	18-22 (10%)	10%

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

# HARVESTED	95% CI		#/HOUR	95% CI	#/HA	#/ACRE	SPECIES
17435	13251-21619	(24%)	.290	.231-.350 (20%)	25.72	10.41	All species
1541	622-2459	(60%)	.036	.019-.054 (49%)	2.27	0.92	Black crappie
5238	3359-7117	(36%)	.076	.053-.099 (30%)	7.73	3.13	Bluegill
154	54-253	(65%)	.002	.000-.003 (77%)	0.23	0.09	Carp
2447	1690-3204	(31%)	.046	.031-.060 (31%)	3.61	1.46	Channel catfish
10	0-37	(278%)	.000	.000-.000 (257%)	0.01	0.01	Flathead catfish
2397	1532-3263	(36%)	.043	.020-.066 (53%)	3.54	1.43	Freshwater drum
218	51-385	(76%)	.006	.000-.013 (107%)	0.32	0.13	Green sunfish
54	0-115	(112%)	.001	.000-.003 (177%)	0.08	0.03	Largemouth bass
5	0-16	(257%)	.000	.000-.000 (278%)	0.01	0.00	Longear sunfish
			****	NOT RECORDED ****			Shorthead redhorse
			****	NOT RECORDED ****			Smallmouth bass
4	0-17	(278%)	.000	.000-.000 (257%)	0.01	0.00	Striped bass
752	532-971	(29%)	.019	.011-.027 (44%)	1.11	0.45	Walleye
4024	1221-6827	(70%)	.051	.024-.079 (54%)	5.94	2.40	White bass
340	110-569	(68%)	.005	.002-.008 (63%)	0.50	0.20	White crappie
46	0-104	(125%)	.001	.000-.002 (132%)	0.07	0.03	Yellow bullhead
79	16-142	(80%)	.001	.000-.004 (144%)	0.12	0.05	Yellow perch
126	22-231	(83%)	.003	.000-.006 (106%)	0.19	0.08	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
5665	4425-6906	(22%)	.093	.075-.111 (19%)	8.36	0.325	All species
381	120-642	(68%)	.008	.004-.013 (50%)	0.56	0.248	Black crappie
654	417-892	(36%)	.010	.007-.012 (30%)	0.97	0.125	Bluegill
255	68-443	(73%)	.002	.001-.004 (75%)	0.38	1.663	Carp
1715	1158-2273	(33%)	.031	.021-.042 (33%)	2.53	0.701	Channel catfish
6	0-20	(257%)	.000	.000-.000 (257%)	0.01	0.570	Flathead catfish
1022	440-1605	(57%)	.015	.009-.022 (42%)	1.51	0.426	Freshwater drum
17	4-30	(76%)	.001	.000-.001 (111%)	0.03	0.078	Green sunfish
42	0-94	(123%)	.001	.000-.003 (169%)	0.06	0.778	Largemouth bass
1	0-3	(278%)	.000	.000-.000 (278%)	0.00	0.187	Longear sunfish
			****	NOT RECORDED ****			Shorthead redhorse
			****	NOT RECORDED ****			Smallmouth bass
1	0-5	(278%)	.000	.000-.000 (278%)	0.00	0.266	Striped bass
508	334-683	(34%)	.012	.007-.018 (44%)	0.75	0.676	Walleye
911	198-1624	(78%)	.010	.005-.015 (51%)	1.34	0.226	White bass
101	25-177	(75%)	.001	.000-.002 (69%)	0.15	0.297	White crappie
16	0-36	(129%)	.000	.000-.001 (156%)	0.02	0.345	Yellow bullhead
9	2-17	(83%)	.000	.000-.000 (134%)	0.01	0.116	Yellow perch
24	2-46	(90%)	.001	.000-.001 (118%)	0.04	0.192	Yellow bass

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Table 4. Total fishing harvest and harvest rates, in pounds.

LB HARVESTED	95% CI		LB/HOUR	95% CI	LB/ACRE	AVE LB	SPECIES
12490	9755-15225	(22%)	.206	.166-.246 (19%)	7.46	0.716	All species
841	266-1416	(68%)	.018	.009-.028 (50%)	0.50	0.546	Black crappie
1443	919-1967	(36%)	.021	.015-.027 (30%)	0.86	0.275	Bluegill
563	150-977	(73%)	.005	.001-.010 (75%)	0.34	3.667	Carp
3782	2552-5011	(33%)	.069	.046-.092 (33%)	2.26	1.545	Channel catfish
12	0-46	(278%)	.000	.000-.000 (278%)	0.01	1.256	Flathead catfish
2254	969-3538	(57%)	.034	.020-.048 (42%)	1.35	0.940	Freshwater drum
38	9-66	(76%)	.001	.000-.002 (111%)	0.02	0.172	Green sunfish
93	0-208	(123%)	.002	.000-.006 (169%)	0.06	1.716	Largemouth bass
2	0-7	(257%)	.000	.000-.000 (278%)	0.00	0.412	Longear sunfish
			****	NOT RECORDED ****			Shorthead redhorse
			****	NOT RECORDED ****			Smallmouth bass
3	0-10	(278%)	.000	.000-.000 (257%)	0.00	0.587	Striped bass
1121	735-1507	(34%)	.027	.015-.039 (44%)	0.67	1.491	Walleye
2008	436-3581	(78%)	.022	.011-.034 (51%)	1.20	0.499	White bass
223	56-389	(75%)	.003	.001-.005 (69%)	0.13	0.655	White crappie
35	0-80	(129%)	.001	.000-.002 (156%)	0.02	0.760	Yellow bullhead
20	3-37	(83%)	.000	.000-.001 (134%)	0.01	0.256	Yellow perch
53	5-101	(90%)	.001	.000-.003 (118%)	0.03	0.423	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
53155	43779-62532 (18%)	.975	.817-1.133 (16%)	78.41	31.73	All species
4125	1379-6871 (67%)	.085	.037-.133 (57%)	6.08	2.46	Black crappie
9648	6573-12722 (32%)	.151	.105-.197 (31%)	14.23	5.76	Bluegill
719	275-1162 (62%)	.011	.005-.017 (53%)	1.06	0.43	Carp
4127	3268-4986 (21%)	.081	.063-.098 (22%)	6.09	2.46	Channel catfish
25	0-66 (167%)	.001	.000-.002 (227%)	0.04	0.01	Flathead catfish
10060	7904-12216 (21%)	.171	.134-.208 (22%)	14.84	6.01	Freshwater drum
224	56-391 (75%)	.006	.000-.013 (106%)	0.33	0.13	Green sunfish
2667	1980-3353 (26%)	.052	.034-.070 (34%)	3.93	1.59	Largemouth bass
5	0-16 (257%)	.000	.000-.000 (278%)	0.01	0.00	Longear sunfish
8	0-27 (220%)	.000	.000-.000 (220%)	0.01	0.01	Shorthead redhorse
132	38-226 (71%)	.003	.000-.006 (92%)	0.20	0.08	Smallmouth bass
4	0-17 (278%)	.000	.000-.000 (257%)	0.01	0.00	Striped bass
8867	7085-10649 (20%)	.183	.140-.226 (24%)	13.08	5.29	Walleye
11462	6624-16301 (42%)	.211	.111-.312 (48%)	16.91	6.84	White bass
617	296-937 (52%)	.009	.004-.014 (60%)	0.91	0.37	White crappie
58	0-119 (108%)	.001	.000-.002 (125%)	0.08	0.03	Yellow bullhead
160	74-246 (54%)	.003	.001-.005 (82%)	0.24	0.10	Yellow perch
249	48-450 (81%)	.006	.000-.013 (110%)	0.37	0.15	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
14679	12241-17117 (17%)	.260	.220-.300 (16%)	21.65	0.276	All species
880	169-1591 (81%)	.017	.006-.027 (65%)	1.30	0.213	Black crappie
964	652-1276 (32%)	.015	.011-.020 (28%)	1.42	0.100	Bluegill
643	266-1020 (59%)	.010	.005-.014 (47%)	0.95	0.895	Carp
2402	1816-2987 (24%)	.045	.034-.056 (25%)	3.54	0.582	Channel catfish
10	0-27 (161%)	.000	.000-.001 (211%)	0.02	0.414	Flathead catfish
3272	2512-4032 (23%)	.052	.041-.063 (21%)	4.83	0.325	Freshwater drum
17	4-30 (75%)	.001	.000-.001 (110%)	0.03	0.077	Green sunfish
1006	680-1333 (32%)	.017	.010-.024 (40%)	1.48	0.377	Largemouth bass
1	0-3 (278%)	.000	.000-.000 (278%)	0.00	0.187	Longear sunfish
1	0-4 (218%)	.000	.000-.000 (220%)	0.00	0.162	Shorthead redhorse
61	17-106 (73%)	.002	.000-.003 (114%)	0.09	0.463	Smallmouth bass
1	0-5 (278%)	.000	.000-.000 (278%)	0.00	0.266	Striped bass
3094	2430-3758 (21%)	.062	.046-.078 (26%)	4.56	0.349	Walleye
2100	998-3202 (52%)	.037	.017-.056 (52%)	3.10	0.183	White bass
148	59-236 (60%)	.002	.001-.003 (58%)	0.22	0.240	White crappie
22	0-46 (109%)	.000	.000-.001 (146%)	0.03	0.382	Yellow bullhead
15	7-24 (56%)	.000	.000-.000 (89%)	0.02	0.094	Yellow perch
40	11-70 (73%)	.001	.000-.002 (97%)	0.06	0.161	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
32362	26987-37738 (17%)	.573	.484-.662 (16%)	19.32	0.609	All species
1941	373-3508 (81%)	.037	.013-.060 (65%)	1.16	0.470	Black crappie
2126	1438-2813 (32%)	.033	.024-.043 (28%)	1.27	0.220	Bluegill
1418	587-2249 (59%)	.021	.011-.031 (47%)	0.85	1.973	Carp
5295	4003-6586 (24%)	.100	.075-.124 (25%)	3.16	1.283	Channel catfish
23	0-59 (161%)	.000	.000-.001 (211%)	0.01	0.912	Flathead catfish
7214	5538-8890 (23%)	.114	.090-.139 (21%)	4.31	0.717	Freshwater drum
38	10-67 (75%)	.001	.000-.002 (110%)	0.02	0.171	Green sunfish
2218	1499-2938 (32%)	.038	.023-.053 (40%)	1.32	0.832	Largemouth bass
2	0-7 (257%)	.000	.000-.000 (278%)	0.00	0.412	Longear sunfish
3	0-10 (220%)	.000	.000-.000 (220%)	0.00	0.357	Shorthead redhorse
135	37-233 (73%)	.004	.000-.008 (114%)	0.08	1.021	Smallmouth bass
3	0-10 (278%)	.000	.000-.000 (257%)	0.00	0.587	Striped bass
6822	5358-8286 (21%)	.136	.101-.171 (26%)	4.07	0.769	Walleye
4630	2201-7060 (52%)	.080	.038-.122 (52%)	2.76	0.404	White bass
326	131-521 (60%)	.005	.002-.007 (58%)	0.19	0.529	White crappie
48	0-101 (109%)	.001	.000-.002 (146%)	0.03	0.842	Yellow bullhead
33	14-52 (56%)	.001	.000-.001 (89%)	0.02	0.208	Yellow perch
88	24-153 (73%)	.002	.000-.004 (97%)	0.05	0.356	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	1.9	1.3-2.5 (31%)	0.4	4.8	24
SHORE	2.2	1.8-2.7 (20%)	0.4	4.0	35
BOAT & SHORE	2.1	1.8-2.4 (16%)	0.4	4.8	59
MILES TRAVELED	25.1	22.8-27.5 (9%)	1	1100	1153
SUCCESS RATING (1-10)	2.4	2.3-2.5 (4%)	1	10	1117

*11 samples were from split interviews of completed trips.
4.6% of all 1285 interviews were completed trips.

ILLEGAL HARVEST: Clerk noted 4 out of 1285 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	276	425	94	7	3					
SHORE INTERVIEWS	212	204	55	5	2	2				

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

207 (16.1%)	ANY	All species
45 (3.5%)	BLG	Bluegill
9 (0.7%)	CAP	Carp
1 (0.1%)	CAT	Unidentified catfish
140 (10.9%)	CCF	Channel catfish
104 (8.1%)	CRP	Crappie spp.
5 (0.4%)	FRD	Freshwater drum
96 (7.5%)	LMB	Largemouth bass
5 (0.4%)	MUE	Muskellunge
1 (0.1%)	SUN	Sunfish spp. excluding Crappie and Black Bass
629 (48.9%)	WAE	Walleye
43 (3.3%)	WHB	White bass

