

ILLINOIS NATURAL HISTORY SURVEY
 CENTER FOR AQUATIC ECOLOGY
 1993 CREEL SURVEY RESULTS

1993 PITTSFIELD LAKE
 214 ACRES
 REGION 4, DISTRICT 10

STRATIFICATION SUMMARY:

Day creel only.
 Results cover 03/15/1993 through 11/15/1993
 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: 353/738 = 47.8%

NUMBER OF INTERVIEWS: 2311

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	5759	4940-6579 (14%)	27	23-31 (14%)	21%
	HOLIDAY	5449	4640-6259 (15%)	25	22-29 (15%)	47%
	TOTAL	11209	10057-12361 (10%)	52	47-58 (10%)	34%
SHORE	WEEKDAY	7012	6282-7742 (10%)	33	29-36 (10%)	20%
	HOLIDAY	7168	6221-8114 (13%)	34	29-38 (13%)	36%
	TOTAL	14180	12984-15375 (8%)	66	61-72 (8%)	28%
BOAT & SHORE	WEEKDAY	12772	11674-13869 (9%)	60	55-65 (9%)	21%
	HOLIDAY	12617	11371-13862 (10%)	59	53-65 (10%)	41%
	TOTAL	25388	23728-27049 (7%)	119	111-126 (7%)	31%

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

# HARVESTED	95% CI	#/HOUR	95% CI	#/HA	#/ACRE	SPECIES
25607	21674-29540 (15%)	.769	.640-.898 (17%)	295.81	119.71	All species
84	0-178 (113%)	.001	.000-.002 (97%)	0.97	0.39	Bluegill x Green su
206	78-335 (62%)	.004	.002-.006 (53%)	2.38	0.97	Black bullhead
1713	954-2472 (44%)	.042	.026-.057 (38%)	19.79	8.01	Black crappie
5823	3866-7780 (34%)	.171	.088-.255 (49%)	67.27	27.22	Bluegill
84	35-134 (59%)	.002	.000-.004 (81%)	0.98	0.39	Carp
579	421-737 (27%)	.018	.012-.023 (29%)	6.69	2.71	Channel catfish
32	2-61 (93%)	.001	.000-.002 (123%)	0.37	0.15	Flathead catfish
686	397-976 (42%)	.010	.006-.015 (43%)	7.93	3.21	Green sunfish
317	200-434 (37%)	.011	.005-.018 (56%)	3.67	1.48	Largemouth bass
47	0-97 (107%)	.001	.000-.002 (110%)	0.54	0.22	Striped bass hybrid
70	11-129 (85%)	.001	.000-.003 (91%)	0.80	0.33	Walleye
		****	NOT RECORDED ****			White bass
15931	13343-18520 (16%)	.506	.407-.604 (19%)	184.04	74.48	White crappie
34	0-73 (113%)	.001	.000-.002 (128%)	0.39	0.16	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
3789	3257-4322 (14%)	.116	.098-.134 (16%)	43.78	0.148	All species
10	0-20 (105%)	.000	.000-.000 (100%)	0.11	0.118	Bluegill x Green su
86	19-154 (78%)	.001	.001-.002 (56%)	1.00	0.419	Black bullhead
188	115-261 (39%)	.005	.003-.007 (36%)	2.17	0.110	Black crappie
529	351-707 (34%)	.015	.008-.021 (42%)	6.11	0.091	Bluegill
69	0-139 (101%)	.002	.000-.004 (118%)	0.80	0.821	Carp
733	468-998 (36%)	.023	.014-.032 (38%)	8.47	1.269	Channel catfish
213	0-450 (112%)	.006	.000-.015 (159%)	2.46	6.862	Flathead catfish
72	41-104 (44%)	.001	.001-.002 (44%)	0.83	0.105	Green sunfish
249	164-335 (34%)	.009	.004-.015 (60%)	2.88	0.787	Largemouth bass
41	6-77 (85%)	.001	.000-.002 (84%)	0.48	0.902	Striped bass hybrid
71	0-163 (128%)	.001	.000-.003 (120%)	0.82	1.034	Walleye
		****	NOT RECORDED ****			White bass
1521	1284-1758 (16%)	.051	.040-.061 (21%)	17.57	0.095	White crappie
6	0-13 (109%)	.000	.000-.000 (145%)	0.07	0.178	Yellow bullhead

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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
8354	7181-9528	(14%)	.255	.215-.295 (16%)	39.06	0.326	All species
22	0-44	(105%)	.000	.000-.000 (100%)	0.10	0.260	Bluegill x Green su
190	41-339	(78%)	.003	.001-.005 (56%)	0.89	0.924	Black bullhead
414	253-575	(39%)	.011	.007-.015 (36%)	1.94	0.242	Black crappie
1166	774-1558	(34%)	.032	.019-.046 (42%)	5.45	0.200	Bluegill
152	0-306	(101%)	.004	.000-.010 (118%)	0.71	1.810	Carp
1617	1033-2201	(36%)	.051	.032-.071 (38%)	7.56	2.797	Channel catfish
469	0-992	(112%)	.013	.000-.033 (159%)	2.19	15.127	Flathead catfish
159	89-229	(44%)	.002	.001-.003 (44%)	0.74	0.232	Green sunfish
550	361-740	(34%)	.021	.008-.033 (60%)	2.57	1.735	Largemouth bass
91	14-169	(85%)	.002	.000-.004 (84%)	0.43	1.988	Striped bass hybrid
157	0-359	(128%)	.003	.000-.006 (120%)	0.74	2.280	Walleye
			****	NOT RECORDED ****			White bass
3354	2831-3877	(16%)	.112	.088-.135 (21%)	15.68	0.211	White crappie
13	0-28	(109%)	.000	.000-.001 (145%)	0.06	0.392	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
49430	43799-55062	(11%)	1.622	1.405-1.839 (13%)	571.03	231.09	All species
90	0-185	(106%)	.001	.000-.002 (91%)	1.04	0.42	Bluegill x Green su
297	92-502	(69%)	.005	.003-.008 (50%)	3.43	1.39	Black bullhead
2568	1633-3503	(36%)	.070	.032-.109 (55%)	29.67	12.01	Black crappie
7237	5098-9377	(30%)	.210	.125-.295 (40%)	83.60	33.83	Bluegill
104	50-159	(52%)	.003	.001-.005 (65%)	1.20	0.49	Carp
628	465-792	(26%)	.020	.015-.026 (28%)	7.26	2.94	Channel catfish
33	3-62	(90%)	.001	.000-.002 (117%)	0.38	0.15	Flathead catfish
1058	715-1401	(32%)	.035	.000-.081 (131%)	12.22	4.95	Green sunfish
3847	3046-4647	(21%)	.136	.109-.164 (20%)	44.44	17.98	Largemouth bass
286	178-394	(38%)	.009	.005-.013 (46%)	3.30	1.34	Striped bass hybrid
220	129-311	(41%)	.007	.003-.011 (54%)	2.54	1.03	Walleye
2	0-6	(220%)	.000	.000-.000 (223%)	0.02	0.01	White bass
32982	28784-37180	(13%)	1.122	.940-1.305 (16%)	381.01	154.19	White crappie
79	0-178	(125%)	.001	.000-.003 (102%)	0.91	0.37	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
6695	5930-7460	(11%)	.223	.197-.250 (12%)	77.34	0.135	All species
10	0-21	(100%)	.000	.000-.000 (95%)	0.12	0.115	Bluegill x Green su
103	22-185	(79%)	.002	.001-.003 (57%)	1.19	0.348	Black bullhead
255	170-340	(34%)	.007	.004-.011 (46%)	2.95	0.099	Black crappie
610	424-796	(31%)	.017	.011-.023 (37%)	7.05	0.084	Bluegill
81	11-152	(87%)	.002	.000-.005 (101%)	0.94	0.781	Carp
784	516-1051	(34%)	.029	.017-.040 (40%)	9.05	1.248	Channel catfish
213	0-450	(111%)	.006	.000-.015 (158%)	2.46	6.657	Flathead catfish
97	63-131	(35%)	.003	.000-.007 (137%)	1.12	0.092	Green sunfish
1878	1445-2311	(23%)	.065	.050-.080 (23%)	21.69	0.488	Largemouth bass
135	84-187	(38%)	.004	.002-.007 (63%)	1.56	0.475	Striped bass hybrid
102	8-196	(92%)	.002	.001-.004 (71%)	1.18	0.466	Walleye
1	0-3	(220%)	.000	.000-.000 (220%)	0.01	0.871	White bass
2410	2100-2719	(13%)	.086	.071-.101 (17%)	27.84	0.073	White crappie
15	0-36	(136%)	.000	.000-.001 (113%)	0.18	0.194	Yellow bullhead

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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
14760	13073-16447 (11%)	.493	.433-.552 (12%)	69.00	0.299	All species
23	0-45 (100%)	.000	.000-.000 (95%)	0.11	0.255	Bluegill x Green su
228	48-408 (79%)	.004	.002-.006 (57%)	1.06	0.766	Black bullhead
562	374-751 (34%)	.016	.009-.023 (46%)	2.63	0.219	Black crappie
1345	934-1756 (31%)	.037	.023-.051 (37%)	6.29	0.186	Bluegill
179	23-335 (87%)	.005	.000-.010 (101%)	0.84	1.722	Carp
1728	1138-2317 (34%)	.063	.038-.089 (40%)	8.08	2.751	Channel catfish
470	0-993 (111%)	.013	.000-.033 (158%)	2.20	14.676	Flathead catfish
214	139-289 (35%)	.007	.000-.016 (137%)	1.00	0.203	Green sunfish
4140	3185-5094 (23%)	.143	.110-.176 (23%)	19.35	1.076	Largemouth bass
299	185-413 (38%)	.009	.003-.014 (63%)	1.40	1.048	Striped bass hybrid
225	18-432 (92%)	.005	.001-.008 (71%)	1.05	1.028	Walleye
2	0-6 (220%)	.000	.000-.000 (223%)	0.01	1.921	White bass
5313	4630-5995 (13%)	.190	.157-.222 (17%)	24.84	0.161	White crappie
34	0-80 (136%)	.001	.000-.001 (113%)	0.16	0.427	Yellow bullhead