

ILLINOIS NATURAL HISTORY SURVEY
 CENTER FOR AQUATIC ECOLOGY
 1990 CREEL SURVEY RESULTS

1990 PITTSFIELD
 214 ACRES
 REGION 4, DISTRICT 10

STRATIFICATION SUMMARY:

Day creel only.
 Results cover 03/15/1990 through 11/15/1990
 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: 383/738 = 51.9%

NUMBER OF INTERVIEWS: 2842

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	6394	5427-7362 (15%)	30	25-34 (15%)	25%
	HOLIDAY	7281	6395-8166 (12%)	34	30-38 (12%)	48%
	TOTAL	13675	12364-14987 (10%)	64	58-70 (10%)	37%
SHORE	WEEKDAY	6182	5139-7224 (17%)	29	24-34 (17%)	20%
	HOLIDAY	7660	6666-8654 (13%)	36	31-40 (13%)	32%
	TOTAL	13841	12401-15282 (10%)	65	58-71 (10%)	27%
BOAT & SHORE	WEEKDAY	12576	11153-13999 (11%)	59	52-65 (11%)	23%
	HOLIDAY	14941	13609-16272 (9%)	70	64-76 (9%)	40%
	TOTAL	27517	25568-29465 (7%)	129	120-138 (7%)	32%

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

# HARVESTED	95% CI		#/HOUR	95% CI	#/HA	#/ACRE	SPECIES
16732	12966-20499	(23%)	.581	.408-.753 (30%)	193.29	78.23	All species
4	0-8	(122%)	.000	.000-.000 (141%)	0.04	0.02	Bluegill x Green su
268	169-366	(37%)	.005	.002-.008 (52%)	3.09	1.25	Black bullhead
509	316-701	(38%)	.014	.006-.022 (59%)	5.88	2.38	Black crappie
3464	1943-4984	(44%)	.081	.049-.112 (39%)	40.02	16.19	Bluegill
215	109-322	(49%)	.003	.001-.006 (66%)	2.49	1.01	Carp
744	562-925	(24%)	.023	.016-.030 (32%)	8.59	3.48	Channel catfish
5	0-13	(153%)	.000	.000-.000 (164%)	0.06	0.02	Flathead catfish
108	0-344	(219%)	.005	.000-.015 (222%)	1.25	0.50	Golden shiner
270	109-431	(60%)	.007	.002-.012 (70%)	3.12	1.26	Green sunfish
2095	0-5334	(155%)	.084	.000-.239 (184%)	24.21	9.80	Gizzard shad
181	111-252	(39%)	.004	.002-.006 (41%)	2.10	0.85	Largemouth bass
38	12-64	(68%)	.001	.000-.002 (99%)	0.44	0.18	Striped bass hybrid
153	93-212	(39%)	.003	.002-.004 (43%)	1.76	0.71	Walleye
8604	7232-9975	(16%)	.348	.265-.430 (24%)	99.39	40.22	White crappie
76	13-138	(83%)	.002	.000-.004 (87%)	0.87	0.35	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
2639	2298-2980	(13%)	.081	.069-.094 (15%)	30.49	0.158	All species
0	0-1	(124%)	.000	.000-.000 (138%)	0.00	0.143	Bluegill x Green su
92	59-125	(36%)	.002	.001-.003 (52%)	1.06	0.345	Black bullhead
71	45-97	(37%)	.002	.001-.003 (53%)	0.82	0.140	Black crappie
252	132-373	(48%)	.006	.003-.008 (38%)	2.92	0.073	Bluegill
114	54-175	(53%)	.002	.001-.003 (68%)	1.32	0.532	Carp
435	310-560	(29%)	.012	.008-.015 (28%)	5.03	0.586	Channel catfish
4	0-9	(161%)	.000	.000-.000 (173%)	0.04	0.712	Flathead catfish
1	0-2	(164%)	.000	.000-.000 (183%)	0.01	0.007	Golden shiner
19	5-32	(72%)	.000	.000-.001 (58%)	0.22	0.069	Green sunfish
48	14-81	(71%)	.001	.000-.002 (98%)	0.55	0.023	Gizzard shad
141	86-196	(39%)	.003	.002-.005 (46%)	1.63	0.780	Largemouth bass
51	10-93	(81%)	.001	.000-.002 (104%)	0.59	1.351	Striped bass hybrid
135	77-193	(43%)	.002	.001-.003 (45%)	1.56	0.891	Walleye
1252	1030-1474	(18%)	.049	.037-.061 (24%)	14.46	0.146	White crappie
23	2-43	(90%)	.001	.000-.001 (96%)	0.26	0.304	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
5818	5066-6570	(13%)	.179	.152-.206 (15%)	27.20	0.348	All species
1	0-2	(124%)	.000	.000-.000 (138%)	0.00	0.315	Bluegill x Green su
203	129-276	(36%)	.004	.002-.006 (52%)	0.95	0.760	Black bullhead
157	99-215	(37%)	.004	.002-.007 (53%)	0.73	0.309	Black crappie
557	290-823	(48%)	.012	.008-.017 (38%)	2.60	0.161	Bluegill
252	118-387	(53%)	.004	.001-.007 (68%)	1.18	1.174	Carp
960	685-1235	(29%)	.026	.018-.033 (28%)	4.49	1.291	Channel catfish
8	0-20	(161%)	.000	.000-.000 (173%)	0.04	1.569	Flathead catfish
2	0-4	(164%)	.000	.000-.000 (183%)	0.01	0.015	Golden shiner
41	12-71	(72%)	.001	.000-.001 (58%)	0.19	0.152	Green sunfish
105	31-179	(71%)	.003	.000-.005 (98%)	0.49	0.050	Gizzard shad
311	190-433	(39%)	.007	.004-.011 (46%)	1.46	1.721	Largemouth bass
113	21-205	(81%)	.002	.000-.005 (104%)	0.53	2.979	Striped bass hybrid
298	171-426	(43%)	.005	.003-.008 (45%)	1.40	1.964	Walleye
2760	2270-3250	(18%)	.108	.082-.135 (24%)	12.90	0.321	White crappie
50	5-96	(90%)	.002	.000-.003 (96%)	0.23	0.669	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
35644	30122-41166 (15%)	1.189	.990-1.387 (17%)	411.77	166.64	All species
11	0-25 (127%)	.000	.000-.001 (121%)	0.12	0.05	Bluegill x Green su
360	239-481 (34%)	.007	.004-.011 (45%)	4.16	1.68	Black bullhead
888	572-1204 (36%)	.033	.011-.056 (67%)	10.26	4.15	Black crappie
5130	3460-6800 (33%)	.134	.093-.174 (30%)	59.27	23.98	Bluegill
281	155-407 (45%)	.006	.002-.010 (64%)	3.24	1.31	Carp
876	682-1071 (22%)	.028	.020-.037 (31%)	10.12	4.10	Channel catfish
8	0-18 (121%)	.000	.000-.000 (129%)	0.09	0.04	Flathead catfish
108	0-344 (219%)	.005	.000-.015 (222%)	1.25	0.50	Golden shiner
411	214-608 (48%)	.015	.006-.025 (63%)	4.75	1.92	Green sunfish
2226	0-5479 (146%)	.095	.000-.252 (165%)	25.72	10.41	Gizzard shad
2934	2466-3401 (16%)	.097	.076-.118 (22%)	33.89	13.72	Largemouth bass
384	185-582 (52%)	.015	.006-.024 (63%)	4.43	1.79	Striped bass hybrid
310	223-397 (28%)	.007	.004-.010 (41%)	3.58	1.45	Walleye
21606	17525-25688 (19%)	.740	.611-.869 (17%)	249.60	101.01	White crappie
111	20-202 (82%)	.005	.002-.009 (67%)	1.28	0.52	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
4762	4183-5340 (12%)	.150	.133-.168 (12%)	55.01	0.134	All species
1	0-2 (116%)	.000	.000-.000 (95%)	0.01	0.086	Bluegill x Green su
109	74-145 (33%)	.002	.001-.003 (46%)	1.26	0.304	Black bullhead
109	73-146 (34%)	.004	.002-.006 (57%)	1.26	0.123	Black crappie
362	227-497 (37%)	.008	.006-.011 (27%)	4.18	0.071	Bluegill
141	74-208 (48%)	.003	.001-.005 (68%)	1.63	0.503	Carp
464	337-591 (27%)	.013	.009-.016 (27%)	5.36	0.530	Channel catfish
5	0-11 (128%)	.000	.000-.000 (143%)	0.06	0.686	Flathead catfish
1	0-2 (164%)	.000	.000-.000 (183%)	0.01	0.007	Golden shiner
29	14-44 (51%)	.001	.000-.002 (55%)	0.34	0.071	Green sunfish
49	15-83 (69%)	.001	.000-.003 (90%)	0.57	0.022	Gizzard shad
873	701-1046 (20%)	.029	.022-.036 (23%)	10.09	0.298	Largemouth bass
221	96-345 (56%)	.008	.002-.013 (71%)	2.55	0.576	Striped bass hybrid
188	126-250 (33%)	.004	.002-.005 (34%)	2.17	0.606	Walleye
2179	1776-2581 (18%)	.076	.062-.090 (18%)	25.17	0.101	White crappie
30	6-55 (82%)	.001	.000-.002 (69%)	0.35	0.276	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
10497	9222-11773 (12%)	.332	.292-.371 (12%)	49.08	0.295	All species
2	0-4 (116%)	.000	.000-.000 (95%)	0.01	0.189	Bluegill x Green su
241	163-319 (33%)	.005	.003-.007 (46%)	1.13	0.669	Black bullhead
241	160-323 (34%)	.008	.004-.013 (57%)	1.13	0.272	Black crappie
798	500-1095 (37%)	.019	.014-.024 (27%)	3.73	0.156	Bluegill
310	162-459 (48%)	.007	.002-.012 (68%)	1.45	1.108	Carp
1023	744-1302 (27%)	.028	.020-.035 (27%)	4.78	1.168	Channel catfish
11	0-24 (128%)	.000	.000-.001 (143%)	0.05	1.513	Flathead catfish
2	0-4 (164%)	.000	.000-.000 (183%)	0.01	0.015	Golden shiner
65	32-97 (51%)	.002	.001-.003 (55%)	0.30	0.157	Green sunfish
108	34-183 (69%)	.003	.000-.006 (90%)	0.51	0.049	Gizzard shad
1926	1544-2307 (20%)	.064	.049-.078 (23%)	9.00	0.657	Largemouth bass
487	213-761 (56%)	.017	.005-.029 (71%)	2.28	1.271	Striped bass hybrid
414	277-551 (33%)	.008	.005-.011 (34%)	1.94	1.336	Walleye
4803	3916-5691 (18%)	.168	.137-.198 (18%)	22.46	0.222	White crappie
67	12-122 (82%)	.003	.001-.005 (69%)	0.31	0.608	Yellow bullhead