

ILLINOIS NATURAL HISTORY SURVEY
 CENTER FOR AQUATIC ECOLOGY
 1996 CREEL SURVEY RESULTS

1996 LAKE PITTSFIELD
 208 ACRES
 REGION 4, DISTRICT 15

STRATIFICATION SUMMARY:

Day creel only.
 Results cover 03/15/1996 through 11/15/1996
 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: 324/738 = 43.9%

NUMBER OF INTERVIEWS: 2045

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	5222	4395-6049 (16%)	25	21-29 (16%)	22%
	HOLIDAY	5034	4430-5638 (12%)	24	21-27 (12%)	42%
	TOTAL	10256	9232-11280 (10%)	49	44-54 (10%)	32%
SHORE	WEEKDAY	7886	6827-8944 (13%)	38	33-43 (13%)	18%
	HOLIDAY	8161	7022-9301 (14%)	39	34-45 (14%)	31%
	TOTAL	16047	14492-17603 (10%)	77	70-85 (10%)	25%
BOAT & SHORE	WEEKDAY	13108	11764-14451 (10%)	63	57-70 (10%)	20%
	HOLIDAY	13195	11906-14485 (10%)	64	57-70 (10%)	35%
	TOTAL	26303	24441-28165 (7%)	127	118-136 (7%)	27%

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

# HARVESTED	95% CI		#/HOUR	95% CI	#/HA	#/ACRE	SPECIES
39333	32848-45818	(16%)	1.040	.894-1.187 (14%)	467.72	189.28	All species
5	0-14	(155%)	.000	.000-.000 (182%)	0.06	0.03	Bluegill x
Green su							
50	5-96	(90%)	.002	.000-.004 (153%)	0.60	0.24	Black bullhead
3021	2189-3852	(28%)	.092	.065-.120 (30%)	35.92	14.54	Black crappie
13704	9227-18181	(33%)	.254	.187-.321 (26%)	162.96	65.95	Bluegill
17	0-35	(107%)	.000	.000-.001 (209%)	0.20	0.08	Carp
255	150-361	(41%)	.011	.004-.018 (62%)	3.03	1.23	Channel catfish
16	1-31	(96%)	.000	.000-.000 (104%)	0.19	0.08	Flathead
catfish							
687	15-1358	(98%)	.012	.006-.019 (55%)	8.16	3.30	Green sunfish
198	124-272	(37%)	.005	.003-.008 (45%)	2.36	0.95	Largemouth bass
104	0-215	(106%)	.007	.000-.016 (116%)	1.24	0.50	Striped bass
hybrid							
52	23-82	(57%)	.002	.000-.004 (99%)	0.62	0.25	Walleye
21139	17801-24478	(16%)	.650	.534-.766 (18%)	251.37	101.73	White crappie
84	43-126	(49%)	.003	.000-.006 (94%)	1.00	0.41	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
4674	4041-5307	(14%)	.136	.118-.153 (13%)	55.58	0.119	All species
1	0-2	(159%)	.000	.000-.000 (187%)	0.01	0.165	Bluegill x
Green su							
20	0-42	(106%)	.001	.000-.002 (161%)	0.24	0.408	Black bullhead
370	271-470	(27%)	.012	.008-.017 (36%)	4.40	0.123	Black crappie
1411	977-1845	(31%)	.026	.020-.033 (25%)	16.78	0.103	Bluegill
13	0-27	(110%)	.000	.000-.001 (172%)	0.15	0.803	Carp
374	205-544	(45%)	.013	.005-.021 (61%)	4.45	1.468	Channel catfish
8	0-15	(102%)	.000	.000-.000 (110%)	0.09	0.504	Flathead
catfish							
78	13-143	(83%)	.001	.001-.002 (50%)	0.93	0.114	Green sunfish
177	106-249	(40%)	.006	.003-.008 (51%)	2.11	0.896	Largemouth bass
51	0-110	(117%)	.004	.000-.009 (119%)	0.60	0.489	Striped bass
hybrid							
51	16-86	(69%)	.002	.000-.005 (98%)	0.60	0.977	Walleye
2086	1772-2400	(15%)	.068	.056-.080 (18%)	24.81	0.099	White crappie
33	15-51	(54%)	.002	.000-.003 (124%)	0.40	0.397	Yellow bullhead

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

LB HARVESTED	95% CI		LB/HOUR	95% CI	LB/ACRE	AVE LB	SPECIES
10304	8908-11701	(14%)	.299	.259-.338 (13%)	49.59	0.262	All species
2	0-5	(159%)	.000	.000-.000 (187%)	0.01	0.363	Bluegill x
Green su							
45	0-93	(106%)	.002	.000-.005 (161%)	0.22	0.900	Black bullhead
816	596-1035	(27%)	.027	.017-.036 (36%)	3.93	0.270	Black crappie
3111	2155-4068	(31%)	.058	.043-.073 (25%)	14.97	0.227	Bluegill
28	0-59	(110%)	.001	.000-.002 (172%)	0.14	1.771	Carp
825	452-1199	(45%)	.028	.011-.045 (61%)	3.97	3.236	Channel catfish
17	0-34	(102%)	.000	.000-.000 (110%)	0.08	1.110	Flathead
catfish							
172	29-315	(83%)	.003	.002-.005 (50%)	0.83	0.251	Green sunfish
391	233-549	(40%)	.012	.006-.019 (51%)	1.88	1.975	Largemouth bass
112	0-243	(117%)	.009	.000-.021 (119%)	0.54	1.078	Striped bass
hybrid							
112	35-189	(69%)	.005	.000-.011 (98%)	0.54	2.154	Walleye
4599	3906-5292	(15%)	.150	.123-.176 (18%)	22.13	0.218	White crappie
74	34-113	(54%)	.003	.000-.007 (124%)	0.35	0.875	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	
59417	52190-66645	(12%)	1.761	1.559-1.964	(11%)	706.55	285.94	All species
10	0-24	(131%)	.001	.000-.002	(199%)	0.12	0.05	Bluegill x
Green su								
61	13-108	(78%)	.002	.000-.005	(127%)	0.72	0.29	Black bullhead
3192	2293-4091	(28%)	.097	.065-.129	(33%)	37.96	15.36	Black crappie
17516	12866-22167	(27%)	.346	.273-.418	(21%)	208.29	84.29	Bluegill
17	0-35	(107%)	.000	.000-.001	(209%)	0.20	0.08	Carp
318	203-432	(36%)	.013	.006-.020	(55%)	3.78	1.53	Channel catfish
16	1-31	(96%)	.000	.000-.000	(104%)	0.19	0.08	Flathead
catfish								
1226	610-1841	(50%)	.027	.017-.038	(37%)	14.57	5.90	Green sunfish
4081	3429-4732	(16%)	.168	.118-.218	(30%)	48.52	19.64	Largemouth bass
414	271-556	(35%)	.019	.009-.029	(54%)	4.92	1.99	Striped bass
hybrid								
236	155-318	(35%)	.010	.004-.016	(57%)	2.81	1.14	Walleye
32201	27749-36653	(14%)	1.073	.895-1.251	(17%)	382.91	154.96	White crappie
131	75-187	(43%)	.006	.001-.010	(74%)	1.56	0.63	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	
7348	6585-8111	(10%)	.248	.217-.280	(13%)	87.38	0.124	All species
1	0-3	(126%)	.000	.000-.000	(183%)	0.02	0.138	Bluegill x
Green su								
22	0-44	(99%)	.001	.000-.002	(150%)	0.26	0.371	Black bullhead
385	281-489	(27%)	.012	.008-.017	(37%)	4.58	0.121	Black crappie
1660	1224-2095	(26%)	.032	.025-.039	(22%)	19.73	0.095	Bluegill
13	0-27	(110%)	.000	.000-.001	(172%)	0.15	0.803	Carp
406	235-577	(42%)	.013	.006-.021	(58%)	4.83	1.282	Channel catfish
8	0-15	(102%)	.000	.000-.000	(110%)	0.09	0.504	Flathead
catfish								
115	53-178	(54%)	.003	.002-.003	(36%)	1.37	0.094	Green sunfish
1723	1407-2040	(18%)	.078	.049-.106	(36%)	20.49	0.422	Largemouth bass
157	87-226	(44%)	.009	.003-.014	(67%)	1.86	0.379	Striped bass
hybrid								
99	59-139	(40%)	.005	.002-.007	(60%)	1.17	0.419	Walleye
2717	2347-3087	(14%)	.093	.078-.108	(16%)	32.31	0.084	White crappie
42	23-62	(47%)	.002	.000-.004	(93%)	0.50	0.325	Yellow bullhead

1996 LAKE PITTSFIELD

DAY CREEL

03/15/1996 - 11/15/1996

Table 7. Total fishing catch and catch rates, in pounds.

LB CAUGHT	95% CI		LB/HOUR	95% CI	LB/ACRE	AVE LB	SPECIES
16200	14519-17882	(10%)	.547	.477-.617 (13%)	77.96	0.273	All species
3	0-7	(126%)	.000	.000-.000 (183%)	0.01	0.305	Bluegill x
Green su							
49	1-97	(99%)	.002	.000-.005 (150%)	0.24	0.817	Black bullhead
849	619-1079	(27%)	.028	.017-.038 (37%)	4.09	0.266	Black crappie
3659	2698-4620	(26%)	.071	.056-.087 (22%)	17.61	0.209	Bluegill
28	0-59	(110%)	.001	.000-.002 (172%)	0.14	1.771	Carp
896	519-1273	(42%)	.030	.012-.047 (58%)	4.31	2.826	Channel catfish
17	0-34	(102%)	.000	.000-.000 (110%)	0.08	1.110	Flathead
catfish							
254	116-392	(54%)	.006	.004-.008 (36%)	1.22	0.207	Green sunfish
3799	3101-4497	(18%)	.171	.109-.233 (36%)	18.28	0.931	Largemouth bass
345	193-497	(44%)	.019	.006-.032 (67%)	1.66	0.835	Striped bass
hybrid							
218	130-306	(40%)	.010	.004-.016 (60%)	1.05	0.923	Walleye
5991	5175-6807	(14%)	.206	.173-.239 (16%)	28.83	0.186	White crappie
93	50-136	(47%)	.005	.000-.009 (93%)	0.45	0.716	Yellow bullhead

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 Day periods (morning, midday, and afternoon) stratified.

SAMPLING RATIO: 128/279 = 45.9%

NUMBER OF INTERVIEWS: 916

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	1479	1049-1909 (29%)	7	5-9 (29%)	26%
	HOLIDAY	1745	1302-2188 (25%)	8	6-11 (25%)	43%
	TOTAL	3224	2625-3824 (19%)	16	13-18 (19%)	35%
SHORE	WEEKDAY	3159	2496-3821 (21%)	15	12-18 (21%)	22%
	HOLIDAY	4131	3233-5030 (22%)	20	16-24 (22%)	33%
	TOTAL	7290	6217-8363 (15%)	35	30-40 (15%)	28%
BOAT & SHORE	WEEKDAY	4638	3848-5428 (17%)	22	19-26 (17%)	23%
	HOLIDAY	5876	4894-6859 (17%)	28	24-33 (17%)	36%
	TOTAL	10514	9285-11743 (12%)	51	45-57 (12%)	31%

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

# HARVESTED	95% CI		#/HOUR	95% CI	#/HA	#/ACRE	SPECIES
20224	14740-25708	(27%)	1.046	.823-1.268 (21%)	240.49	97.32	All species
5	0-14	(155%)	.000	.000-.001 (182%)	0.06	0.03	Bluegill x
Green su							
13	0-30	(137%)	.000	.000-.000 (143%)	0.15	0.06	Black bullhead
1829	1077-2582	(41%)	.127	.063-.190 (50%)	21.75	8.80	Black crappie
5618	1761-9474	(69%)	.147	.085-.209 (42%)	66.80	27.03	Bluegill
3	0-14	(430%)	.000	.000-.000 (318%)	0.03	0.01	Carp
65	0-137	(110%)	.005	.000-.011 (126%)	0.78	0.31	Channel catfish
12	0-25	(117%)	.000	.000-.001 (111%)	0.14	0.06	Flathead
catfish							
506	0-1160	(129%)	.014	.003-.024 (75%)	6.02	2.44	Green sunfish
37	13-61	(66%)	.001	.000-.003 (99%)	0.44	0.18	Largemouth bass
33	0-116	(247%)	.000	.000-.001 (277%)	0.40	0.16	Striped bass
hybrid							
20	2-38	(90%)	.001	.000-.004 (197%)	0.24	0.10	Walleye
12053	9454-14652	(22%)	.749	.550-.948 (27%)	143.33	58.00	White crappie
30	0-60	(100%)	.001	.000-.001 (153%)	0.36	0.14	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
2063	1580-2546	(23%)	.115	.091-.140 (21%)	24.53	0.102	All species
1	0-2	(159%)	.000	.000-.000 (187%)	0.01	0.165	Bluegill x
Green su							
4	0-11	(146%)	.000	.000-.000 (187%)	0.05	0.360	Black bullhead
210	129-291	(39%)	.016	.006-.027 (66%)	2.50	0.115	Black crappie
565	232-898	(59%)	.015	.009-.021 (40%)	6.72	0.101	Bluegill
3	0-18	(430%)	.000	.000-.001 (430%)	0.04	1.700	Carp
96	9-182	(90%)	.009	.000-.026 (175%)	1.14	1.474	Channel catfish
6	0-13	(119%)	.000	.000-.000 (116%)	0.07	0.541	Flathead
catfish							
55	0-123	(121%)	.002	.000-.003 (72%)	0.66	0.110	Green sunfish
28	0-56	(100%)	.002	.000-.004 (159%)	0.33	0.775	Largemouth bass
11	0-31	(184%)	.000	.000-.000 (253%)	0.13	0.328	Striped bass
hybrid							
20	0-50	(150%)	.002	.000-.007 (236%)	0.24	1.006	Walleye
1053	834-1272	(21%)	.069	.052-.086 (25%)	12.52	0.087	White crappie
10	0-22	(121%)	.000	.000-.001 (205%)	0.12	0.335	Yellow bullhead

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

LB HARVESTED	95% CI		LB/HOUR	95% CI	LB/ACRE	AVE LB	SPECIES
4548	3484-5613	(23%)	.254	.201-.308 (21%)	21.89	0.225	All species
2	0-5	(159%)	.000	.000-.000 (187%)	0.01	0.363	Bluegill x
Green su							
10	0-23	(146%)	.000	.000-.001 (187%)	0.05	0.793	Black bullhead
463	284-643	(39%)	.036	.012-.059 (66%)	2.23	0.253	Black crappie
1246	511-1981	(59%)	.033	.020-.046 (40%)	6.00	0.222	Bluegill
7	0-40	(430%)	.000	.000-.001 (430%)	0.04	3.747	Carp
211	20-402	(90%)	.020	.000-.056 (175%)	1.02	3.249	Channel catfish
13	0-29	(119%)	.001	.000-.001 (116%)	0.06	1.194	Flathead
catfish							
122	0-271	(121%)	.004	.001-.006 (72%)	0.59	0.242	Green sunfish
62	0-123	(100%)	.004	.000-.010 (159%)	0.30	1.709	Largemouth bass
24	0-68	(184%)	.000	.000-.001 (253%)	0.11	0.723	Striped bass
hybrid							
44	0-111	(150%)	.004	.000-.015 (236%)	0.21	2.217	Walleye
2322	1840-2804	(21%)	.151	.114-.189 (25%)	11.17	0.193	White crappie
22	0-49	(121%)	.000	.000-.001 (205%)	0.11	0.739	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
28894	22923-34865	(21%)	1.759	1.392-2.127 (21%)	343.59	139.05	All species
10	0-24	(131%)	.002	.000-.005 (199%)	0.12	0.05	Bluegill x
Green su							
13	0-30	(137%)	.000	.000-.000 (143%)	0.15	0.06	Black bullhead
1947	1115-2779	(43%)	.137	.063-.212 (54%)	23.15	9.37	Black crappie
6627	2807-10448	(58%)	.183	.121-.244 (34%)	78.81	31.89	Bluegill
3	0-14	(430%)	.000	.000-.000 (318%)	0.03	0.01	Carp
72	0-145	(101%)	.005	.000-.011 (120%)	0.86	0.35	Channel catfish
12	0-25	(117%)	.000	.000-.001 (111%)	0.14	0.06	Flathead
catfish							
678	39-1317	(94%)	.018	.007-.028 (58%)	8.06	3.26	Green sunfish
1159	811-1507	(30%)	.071	.048-.094 (33%)	13.79	5.58	Largemouth bass
145	61-228	(58%)	.005	.001-.009 (74%)	1.72	0.70	Striped bass
hybrid							
123	66-180	(47%)	.017	.003-.031 (85%)	1.46	0.59	Walleye
18068	14758-21379	(18%)	1.320	.972-1.669 (26%)	214.86	86.95	White crappie
37	4-70	(90%)	.001	.000-.002 (107%)	0.44	0.18	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
2911	2368-3455	(19%)	.183	.152-.214 (17%)	34.62	0.101	All species
1	0-3	(126%)	.000	.000-.001 (183%)	0.02	0.138	Bluegill x
Green su							
4	0-11	(146%)	.000	.000-.000 (187%)	0.05	0.360	Black bullhead
219	133-305	(39%)	.017	.006-.028 (66%)	2.61	0.113	Black crappie
628	296-961	(53%)	.017	.012-.023 (34%)	7.47	0.095	Bluegill
3	0-18	(430%)	.000	.000-.001 (430%)	0.04	1.700	Carp
104	17-191	(84%)	.010	.000-.026 (171%)	1.23	1.441	Channel catfish
6	0-13	(119%)	.000	.000-.000 (116%)	0.07	0.541	Flathead
catfish							
63	0-128	(102%)	.002	.001-.003 (63%)	0.75	0.093	Green sunfish
389	208-570	(46%)	.026	.012-.040 (53%)	4.63	0.336	Largemouth bass
50	21-79	(58%)	.002	.000-.004 (84%)	0.60	0.350	Striped bass
hybrid							
41	12-71	(72%)	.005	.000-.010 (91%)	0.49	0.337	Walleye
1389	1135-1643	(18%)	.103	.078-.127 (24%)	16.52	0.077	White crappie
11	0-24	(107%)	.000	.000-.001 (127%)	0.14	0.309	Yellow bullhead

Table 7. Total fishing catch and catch rates, in pounds.

LB CAUGHT	95% CI		LB/HOUR	95% CI	LB/ACRE	AVE LB	SPECIES
6418	5220-7617	(19%)	.403	.334-.471 (17%)	30.89	0.222	All species
3	0-7	(126%)	.000	.000-.001 (183%)	0.01	0.305	Bluegill x
Green su							
10	0-23	(146%)	.000	.000-.001 (187%)	0.05	0.793	Black bullhead
484	294-673	(39%)	.037	.013-.062 (66%)	2.33	0.248	Black crappie
1385	652-2118	(53%)	.038	.025-.051 (34%)	6.67	0.209	Bluegill
7	0-40	(430%)	.000	.000-.001 (430%)	0.04	3.747	Carp
229	37-421	(84%)	.021	.000-.057 (171%)	1.10	3.176	Channel catfish
13	0-29	(119%)	.001	.000-.001 (116%)	0.06	1.194	Flathead
catfish							
140	0-282	(102%)	.004	.001-.006 (63%)	0.67	0.206	Green sunfish
858	460-1257	(46%)	.058	.027-.089 (53%)	4.13	0.740	Largemouth bass
111	47-175	(58%)	.005	.001-.008 (84%)	0.53	0.772	Striped bass
hybrid							
91	26-155	(72%)	.012	.001-.022 (91%)	0.44	0.743	Walleye
3063	2503-3623	(18%)	.226	.172-.280 (24%)	14.74	0.170	White crappie
25	0-52	(107%)	.001	.000-.001 (127%)	0.12	0.680	Yellow bullhead

