

ILLINOIS NATURAL HISTORY SURVEY  
 CENTER FOR AQUATIC ECOLOGY  
 1989 CREEL SURVEY RESULTS

1989 PITTSFIELD  
 241 ACRES  
 REGION 4, DISTRICT 10

STRATIFICATION SUMMARY:

Day creel only.  
 Results cover 03/15/1989 through 10/31/1989  
 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: 333/693 = 48.1%

NUMBER OF INTERVIEWS: 2649

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	5775	4936-6614 ( 15%)	24	20-27 ( 15%)	23%
	HOLIDAY	8823	7869-9778 ( 11%)	37	33-41 ( 11%)	42%
	TOTAL	14598	13328-15869 ( 9%)	61	55-66 ( 9%)	34%
SHORE	WEEKDAY	7436	6488-8383 ( 13%)	31	27-35 ( 13%)	18%
	HOLIDAY	11018	9373-12664 ( 15%)	46	39-53 ( 15%)	29%
	TOTAL	18454	16555-20353 ( 10%)	77	69-84 ( 10%)	25%
BOAT & SHORE	WEEKDAY	13210	11944-14476 ( 10%)	55	50-60 ( 10%)	20%
	HOLIDAY	19842	17940-21744 ( 10%)	82	74-90 ( 10%)	35%
	TOTAL	33052	30767-35337 ( 7%)	137	128-147 ( 7%)	29%

1989 PITTSFIELD

DAY CREEL

03/15/1989 - 10/31/1989

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

# HARVESTED	95% CI		#/HOUR	95% CI	#/HA	#/ACRE	SPECIES
26600	23235-29964	( 13%)	.671	.526-.815 ( 22%)	272.73	110.37	All species
142	53-232	( 63%)	.005	.001-.008 ( 81%)	1.46	0.59	Bluegill x
Green su							
269	163-375	( 39%)	.005	.002-.008 ( 54%)	2.76	1.12	Black bullhead
918	609-1227	( 34%)	.027	.006-.048 ( 77%)	9.42	3.81	Black crappie
4305	3279-5331	( 24%)	.113	.074-.152 ( 34%)	44.14	17.86	Bluegill
504	133-875	( 74%)	.008	.002-.013 ( 70%)	5.17	2.09	Carp
1120	856-1383	( 23%)	.025	.018-.032 ( 28%)	11.48	4.65	Channel catfish
5	0-13	(180%)	.000	.000-.000 (149%)	0.05	0.02	Flathead
catfish							
256	0-639	(150%)	.009	.000-.023 (165%)	2.62	1.06	Golden shiner
916	510-1321	( 44%)	.025	.012-.037 ( 50%)	9.39	3.80	Green sunfish
1508	0-3385	(125%)	.088	.000-.216 (146%)	15.46	6.26	Gizzard shad
175	106-243	( 39%)	.005	.002-.009 ( 71%)	1.79	0.73	Largemouth bass
112	2-223	( 99%)	.003	.000-.006 (130%)	1.15	0.47	Striped bass
hybrid							
159	24-293	( 85%)	.004	.000-.008 (112%)	1.63	0.66	Walleye
16139	13882-18396	( 14%)	.353	.301-.405 ( 15%)	165.48	66.97	White crappie
72	17-127	( 76%)	.001	.000-.002 ( 80%)	0.74	0.30	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
4476	3939-5013	( 12%)	.100	.087-.112 ( 12%)	45.89	0.168	All species
8	3-13	( 58%)	.000	.000-.000 ( 90%)	0.08	0.058	Bluegill x
Green su							
64	39-90	( 40%)	.002	.001-.003 ( 60%)	0.66	0.239	Black bullhead
161	105-218	( 35%)	.005	.001-.009 ( 79%)	1.65	0.176	Black crappie
315	242-388	( 23%)	.008	.005-.011 ( 35%)	3.23	0.073	Bluegill
232	60-404	( 74%)	.003	.001-.006 ( 70%)	2.38	0.462	Carp
556	412-700	( 26%)	.013	.009-.016 ( 31%)	5.70	0.497	Channel catfish
2	0-6	(152%)	.000	.000-.000 (171%)	0.02	0.608	Flathead
catfish							
0	0-1	(206%)	.000	.000-.000 (175%)	0.00	0.001	Golden shiner
67	37-98	( 45%)	.002	.001-.003 ( 53%)	0.69	0.074	Green sunfish
13	3-24	( 77%)	.001	.000-.002 (138%)	0.14	0.009	Gizzard shad
116	67-165	( 42%)	.003	.001-.005 ( 62%)	1.19	0.667	Largemouth bass
81	12-150	( 86%)	.002	.000-.004 (102%)	0.83	0.724	Striped bass
hybrid							
124	15-234	( 88%)	.003	.000-.006 (111%)	1.27	0.787	Walleye
2722	2310-3134	( 15%)	.058	.049-.067 ( 16%)	27.91	0.169	White crappie
12	5-20	( 62%)	.000	.000-.000 ( 66%)	0.12	0.168	Yellow bullhead

1989 PITTSFIELD

DAY CREEL

03/15/1989 - 10/31/1989

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

LB HARVESTED	95% CI		LB/HOUR	95% CI	LB/ACRE	AVE LB	SPECIES
9868	8684-11052	( 12%)	.220	.193-.246 ( 12%)	40.95	0.371	All species
18	8-29	( 58%)	.001	.000-.001 ( 90%)	0.07	0.127	Bluegill x
Green su							
142	85-199	( 40%)	.003	.001-.006 ( 60%)	0.59	0.527	Black bullhead
356	232-480	( 35%)	.010	.002-.019 ( 79%)	1.48	0.387	Black crappie
694	534-854	( 23%)	.018	.011-.024 ( 35%)	2.88	0.161	Bluegill
512	132-892	( 74%)	.007	.002-.013 ( 70%)	2.12	1.018	Carp
1226	909-1544	( 26%)	.028	.019-.036 ( 31%)	5.09	1.096	Channel catfish
5	0-13	(152%)	.000	.000-.000 (171%)	0.02	1.340	Flathead
catfish							
1	0-2	(206%)	.000	.000-.000 (175%)	0.00	0.002	Golden shiner
148	82-215	( 45%)	.004	.002-.006 ( 53%)	0.62	0.162	Green sunfish
30	7-53	( 77%)	.002	.000-.004 (138%)	0.12	0.020	Gizzard shad
256	148-364	( 42%)	.007	.003-.011 ( 62%)	1.06	1.471	Largemouth bass
179	26-331	( 86%)	.005	.000-.009 (102%)	0.74	1.595	Striped bass
hybrid							
274	33-515	( 88%)	.006	.000-.014 (111%)	1.14	1.735	Walleye
6001	5093-6908	( 15%)	.128	.108-.148 ( 16%)	24.90	0.372	White crappie
27	10-43	( 62%)	.000	.000-.001 ( 66%)	0.11	0.370	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
41400	36867-45933	( 11%)	1.090	.898-1.281 ( 18%)	424.48	171.78	All species
160	69-251	( 57%)	.005	.001-.009 ( 78%)	1.64	0.66	Bluegill x
Green su							
379	250-508	( 34%)	.007	.004-.011 ( 44%)	3.89	1.57	Black bullhead
994	688-1300	( 31%)	.028	.007-.049 ( 74%)	10.19	4.12	Black crappie
6063	4887-7238	( 19%)	.153	.107-.199 ( 30%)	62.16	25.16	Bluegill
508	137-879	( 73%)	.008	.003-.014 ( 67%)	5.21	2.11	Carp
1416	1101-1730	( 22%)	.039	.027-.051 ( 31%)	14.51	5.87	Channel catfish
5	0-13	(180%)	.000	.000-.000 (149%)	0.05	0.02	Flathead
catfish							
256	0-639	(150%)	.009	.000-.023 (165%)	2.62	1.06	Golden shiner
1337	881-1794	( 34%)	.033	.017-.049 ( 50%)	13.71	5.55	Green sunfish
1508	0-3385	(125%)	.088	.000-.216 (146%)	15.46	6.26	Gizzard shad
3130	2611-3650	( 17%)	.093	.067-.119 ( 28%)	32.10	12.99	Largemouth bass
496	181-811	( 63%)	.015	.004-.025 ( 70%)	5.09	2.06	Striped bass
hybrid							
752	475-1030	( 37%)	.020	.008-.032 ( 60%)	7.71	3.12	Walleye
24297	20872-27721	( 14%)	.590	.441-.738 ( 25%)	249.12	100.82	White crappie
101	40-161	( 60%)	.002	.001-.003 ( 66%)	1.03	0.42	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
6650	5938-7362	( 11%)	.162	.140-.184 ( 13%)	68.19	0.161	All species
9	4-14	( 52%)	.000	.000-.000 ( 85%)	0.10	0.059	Bluegill x
Green su							
79	51-107	( 35%)	.002	.001-.003 ( 50%)	0.81	0.208	Black bullhead
168	112-225	( 34%)	.005	.001-.009 ( 78%)	1.73	0.170	Black crappie
432	352-512	( 19%)	.011	.008-.014 ( 28%)	4.43	0.071	Bluegill
233	61-405	( 74%)	.003	.001-.006 ( 69%)	2.39	0.459	Carp
610	466-755	( 24%)	.015	.011-.019 ( 27%)	6.26	0.431	Channel catfish
2	0-6	(152%)	.000	.000-.000 (171%)	0.02	0.608	Flathead
catfish							
0	0-1	(206%)	.000	.000-.000 (175%)	0.00	0.001	Golden shiner
92	60-125	( 35%)	.002	.001-.003 ( 47%)	0.95	0.069	Green sunfish
13	3-24	( 77%)	.001	.000-.002 (138%)	0.14	0.009	Gizzard shad
1215	978-1452	( 20%)	.035	.024-.045 ( 30%)	12.46	0.388	Largemouth bass
213	98-328	( 54%)	.006	.002-.010 ( 63%)	2.18	0.430	Striped bass
hybrid							
224	118-330	( 47%)	.005	.002-.008 ( 59%)	2.30	0.298	Walleye
3342	2847-3838	( 15%)	.077	.058-.095 ( 24%)	34.27	0.138	White crappie
15	6-24	( 59%)	.000	.000-.000 ( 66%)	0.15	0.150	Yellow bullhead

1989 PITTSFIELD

DAY CREEL

03/15/1989 - 10/31/1989

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

LB CAUGHT	95% CI		LB/HOUR	95% CI	LB/ACRE	AVE LB	SPECIES
14662	13092-16231	( 11%)	.357	.309-.405 ( 13%)	60.84	0.354	All species
21	10-32	( 52%)	.001	.000-.001 ( 85%)	0.09	0.130	Bluegill x
Green su							
174	113-235	( 35%)	.004	.002-.006 ( 50%)	0.72	0.459	Black bullhead
371	246-497	( 34%)	.011	.002-.019 ( 78%)	1.54	0.374	Black crappie
953	777-1130	( 19%)	.024	.017-.030 ( 28%)	3.96	0.157	Bluegill
514	134-893	( 74%)	.008	.002-.013 ( 69%)	2.13	1.013	Carp
1346	1028-1664	( 24%)	.033	.024-.041 ( 27%)	5.58	0.951	Channel catfish
5	0-13	(152%)	.000	.000-.000 (171%)	0.02	1.340	Flathead
catfish							
1	0-2	(206%)	.000	.000-.000 (175%)	0.00	0.002	Golden shiner
203	131-276	( 35%)	.005	.003-.007 ( 47%)	0.84	0.152	Green sunfish
30	7-53	( 77%)	.002	.000-.004 (138%)	0.12	0.020	Gizzard shad
2678	2156-3201	( 20%)	.076	.054-.099 ( 30%)	11.11	0.856	Largemouth bass
469	216-722	( 54%)	.013	.005-.021 ( 63%)	1.95	0.948	Striped bass
hybrid							
494	260-728	( 47%)	.012	.005-.019 ( 59%)	2.05	0.657	Walleye
7369	6276-8461	( 15%)	.169	.129-.209 ( 24%)	30.58	0.303	White crappie
33	14-53	( 59%)	.001	.000-.001 ( 66%)	0.14	0.332	Yellow bullhead