

ILLINOIS NATURAL HISTORY SURVEY  
 CENTER FOR AQUATIC ECOLOGY  
 1991 CREEL SURVEY RESULTS

**1991 PITTSFIELD LAKE**  
 214 ACRES  
 REGION 4, DISTRICT 10

STRATIFICATION SUMMARY:

Day creel only.  
 Results cover 03/15/1991 through 11/15/1991  
 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: 349/738 = 47.3%

NUMBER OF INTERVIEWS: 2597

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	7718	6861-8574 ( 11%)	36	32-40 ( 11%)	23%
	HOLIDAY	7181	6319-8042 ( 12%)	34	30-38 ( 12%)	48%
	TOTAL	14898	13683-16113 ( 8%)	70	64-75 ( 8%)	35%
SHORE	WEEKDAY	7809	6779-8839 ( 13%)	37	32-41 ( 13%)	18%
	HOLIDAY	7816	6684-8948 ( 14%)	37	31-42 ( 14%)	37%
	TOTAL	15625	14094-17155 ( 10%)	73	66-80 ( 10%)	27%
BOAT & SHORE	WEEKDAY	15526	14187-16866 ( 9%)	73	66-79 ( 9%)	21%
	HOLIDAY	14996	13574-16419 ( 9%)	70	63-77 ( 9%)	42%
	TOTAL	30523	28568-32477 ( 6%)	143	134-152 ( 6%)	31%

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

# HARVESTED	95% CI	#/HOUR	95% CI	#/HA	#/ACRE	SPECIES
21432	18842-24021 ( 12%)	.664	.574-.754 ( 14%)	247.58	100.20	All species
150	46-254 ( 70%)	.003	.000-.006 ( 88%)	1.73	0.70	Bluegill x Green su
154	71-238 ( 54%)	.005	.001-.010 ( 86%)	1.78	0.72	Black bullhead
1604	1169-2040 ( 27%)	.060	.034-.085 ( 42%)	18.53	7.50	Black crappie
3809	2754-4864 ( 28%)	.085	.059-.112 ( 31%)	44.00	17.81	Bluegill
318	185-451 ( 42%)	.008	.004-.012 ( 50%)	3.67	1.49	Carp
551	376-727 ( 32%)	.022	.013-.030 ( 39%)	6.37	2.58	Channel catfish
11	0-28 (152%)	.000	.000-.001 (191%)	0.13	0.05	Flathead catfish
926	550-1302 ( 41%)	.021	.011-.030 ( 46%)	10.70	4.33	Green sunfish
76	0-247 (223%)	.006	.000-.018 (220%)	0.88	0.36	Gizzard shad
350	146-554 ( 58%)	.005	.003-.008 ( 51%)	4.04	1.64	Largemouth bass
88	40-137 ( 55%)	.002	.001-.002 ( 54%)	1.02	0.41	Striped bass hybrid
240	155-325 ( 35%)	.008	.003-.013 ( 60%)	2.77	1.12	Walleye
5	0-12 (154%)	.000	.000-.000 (154%)	0.06	0.02	White bass
13016	11159-14874 ( 14%)	.435	.364-.505 ( 16%)	150.37	60.85	White crappie
132	46-218 ( 65%)	.005	.000-.010 ( 93%)	1.53	0.62	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
3586	3186-3987 ( 11%)	.114	.099-.130 ( 13%)	41.43	0.167	All species
14	3-26 ( 80%)	.000	.000-.000 ( 82%)	0.16	0.096	Bluegill x Green su
45	21-70 ( 54%)	.002	.000-.003 ( 83%)	0.52	0.295	Black bullhead
235	176-295 ( 25%)	.009	.006-.012 ( 37%)	2.72	0.147	Black crappie
272	194-350 ( 29%)	.006	.004-.008 ( 31%)	3.14	0.071	Bluegill
169	91-246 ( 46%)	.004	.001-.007 ( 68%)	1.95	0.531	Carp
438	269-607 ( 39%)	.019	.010-.027 ( 45%)	5.06	0.795	Channel catfish
6	0-15 (152%)	.000	.000-.000 (192%)	0.07	0.608	Flathead catfish
79	45-112 ( 43%)	.002	.001-.002 ( 47%)	0.91	0.085	Green sunfish
2	0-7 (223%)	.000	.000-.000 (220%)	0.02	0.028	Gizzard shad
244	16-472 ( 93%)	.004	.001-.008 ( 87%)	2.82	0.699	Largemouth bass
127	62-192 ( 51%)	.002	.001-.004 ( 53%)	1.47	1.442	Striped bass hybrid
210	133-287 ( 36%)	.007	.002-.013 ( 75%)	2.43	0.879	Walleye
1	0-2 (257%)	.000	.000-.000 (253%)	0.01	0.142	White bass
1713	1482-1945 ( 14%)	.057	.048-.066 ( 16%)	19.79	0.132	White crappie
31	11-51 ( 64%)	.002	.000-.003 (108%)	0.36	0.237	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
7907	7024-8790	( 11%)	.252	.218-.286 ( 13%)	36.96	0.369	All species
31	6-57	( 80%)	.001	.000-.001 ( 82%)	0.15	0.211	Bluegill x Green su
100	46-154	( 54%)	.004	.001-.007 ( 83%)	0.47	0.650	Black bullhead
519	387-651	( 25%)	.019	.012-.026 ( 37%)	2.43	0.324	Black crappie
599	427-771	( 29%)	.013	.009-.017 ( 31%)	2.80	0.157	Bluegill
372	201-543	( 46%)	.009	.003-.016 ( 68%)	1.74	1.171	Carp
965	592-1338	( 39%)	.041	.022-.060 ( 45%)	4.51	1.752	Channel catfish
13	0-34	(152%)	.000	.000-.001 (192%)	0.06	1.340	Flathead catfish
174	100-247	( 43%)	.004	.002-.005 ( 47%)	0.81	0.188	Green sunfish
5	0-15	(220%)	.000	.000-.001 (223%)	0.02	0.061	Gizzard shad
538	36-1040	( 93%)	.009	.001-.018 ( 87%)	2.51	1.541	Largemouth bass
280	137-423	( 51%)	.005	.002-.008 ( 53%)	1.31	3.180	Striped bass hybrid
463	294-632	( 36%)	.016	.004-.028 ( 75%)	2.16	1.937	Walleye
1	0-4	(257%)	.000	.000-.000 (253%)	0.01	0.312	White bass
3777	3267-4288	( 14%)	.126	.106-.146 ( 16%)	17.66	0.290	White crappie
69	25-113	( 64%)	.004	.000-.007 (108%)	0.32	0.521	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
45266	41248-49284 ( 9%)	1.349	1.221-1.477 ( 10%)	522.92	211.62	All species
153	49-258 ( 68%)	.003	.000-.006 ( 85%)	1.77	0.72	Bluegill x Green su
248	116-379 ( 53%)	.007	.002-.012 ( 69%)	2.86	1.16	Black bullhead
2098	1585-2611 ( 24%)	.078	.051-.104 ( 34%)	24.24	9.81	Black crappie
6637	5279-7995 ( 20%)	.163	.123-.204 ( 25%)	76.67	31.03	Bluegill
350	215-485 ( 39%)	.008	.005-.012 ( 47%)	4.04	1.64	Carp
659	482-836 ( 27%)	.026	.017-.034 ( 34%)	7.61	3.08	Channel catfish
23	0-49 (119%)	.000	.000-.001 (126%)	0.26	0.11	Flathead catfish
1050	666-1434 ( 37%)	.028	.016-.041 ( 44%)	12.13	4.91	Green sunfish
76	0-247 (223%)	.006	.000-.018 (220%)	0.88	0.36	Gizzard shad
5037	4313-5760 ( 14%)	.176	.144-.209 ( 18%)	58.19	23.55	Largemouth bass
301	196-407 ( 35%)	.009	.002-.017 ( 82%)	3.48	1.41	Striped bass hybrid
382	261-503 ( 32%)	.012	.005-.018 ( 56%)	4.41	1.78	Walleye
39	4-73 ( 90%)	.001	.000-.002 ( 89%)	0.45	0.18	White bass
27985	24792-31179 ( 11%)	.825	.724-.926 ( 12%)	323.29	130.83	White crappie
228	33-423 ( 86%)	.006	.001-.011 ( 80%)	2.63	1.07	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
6718	6124-7311 ( 9%)	.214	.192-.235 ( 10%)	77.60	0.148	All species
15	3-26 ( 77%)	.000	.000-.001 ( 78%)	0.17	0.096	Bluegill x Green su
55	28-81 ( 48%)	.002	.000-.003 ( 77%)	0.63	0.221	Black bullhead
275	211-339 ( 23%)	.010	.007-.014 ( 32%)	3.18	0.131	Black crappie
407	318-496 ( 22%)	.010	.007-.012 ( 24%)	4.70	0.061	Bluegill
186	107-265 ( 43%)	.005	.002-.007 ( 64%)	2.15	0.533	Carp
485	308-663 ( 37%)	.020	.012-.029 ( 42%)	5.60	0.737	Channel catfish
10	0-22 (121%)	.000	.000-.000 (142%)	0.11	0.443	Flathead catfish
87	53-121 ( 39%)	.002	.001-.003 ( 44%)	1.00	0.083	Green sunfish
2	0-7 (223%)	.000	.000-.000 (220%)	0.02	0.028	Gizzard shad
1680	1369-1990 ( 18%)	.056	.044-.067 ( 21%)	19.40	0.334	Largemouth bass
289	180-397 ( 38%)	.009	.001-.018 ( 94%)	3.34	0.959	Striped bass hybrid
253	166-341 ( 34%)	.009	.003-.014 ( 67%)	2.93	0.665	Walleye
9	2-16 ( 77%)	.000	.000-.000 ( 82%)	0.10	0.234	White bass
2928	2598-3258 ( 11%)	.089	.077-.100 ( 13%)	33.83	0.105	White crappie
38	14-62 ( 64%)	.002	.000-.003 (103%)	0.44	0.166	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
14810	13500-16119 ( 9%)	.471	.424-.518 ( 10%)	69.24	0.327	All species
33	7-58 ( 77%)	.001	.000-.001 ( 78%)	0.15	0.213	Bluegill x Green su
120	63-178 ( 48%)	.004	.001-.007 ( 77%)	0.56	0.487	Black bullhead
606	464-748 ( 23%)	.023	.016-.030 ( 32%)	2.83	0.289	Black crappie
897	700-1094 ( 22%)	.021	.016-.026 ( 24%)	4.19	0.135	Bluegill
410	235-585 ( 43%)	.010	.004-.016 ( 64%)	1.92	1.175	Carp
1070	678-1461 ( 37%)	.045	.026-.064 ( 42%)	5.00	1.625	Channel catfish
22	0-47 (121%)	.000	.000-.001 (142%)	0.10	0.977	Flathead catfish
191	117-266 ( 39%)	.005	.003-.007 ( 44%)	0.89	0.182	Green sunfish
5	0-15 (220%)	.000	.000-.001 (223%)	0.02	0.061	Gizzard shad
3703	3019-4387 ( 18%)	.122	.097-.148 ( 21%)	17.31	0.735	Largemouth bass
636	397-876 ( 38%)	.021	.001-.040 ( 94%)	2.98	2.115	Striped bass hybrid
559	366-751 ( 34%)	.019	.006-.032 ( 67%)	2.61	1.467	Walleye
20	4-35 ( 77%)	.001	.000-.001 ( 82%)	0.09	0.516	White bass
6456	5728-7183 ( 11%)	.196	.171-.221 ( 13%)	30.18	0.231	White crappie
83	30-136 ( 64%)	.004	.000-.008 (103%)	0.39	0.366	Yellow bullhead