

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

1990 SHABBONA  
 314 ACRES  
 REGION 1, DISTRICT 2

STRATIFICATION SUMMARY:

Day creel only.  
 Results cover 03/15/1990 through 06/15/1990  
 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: 152/279 = 54.5%

NUMBER OF INTERVIEWS: 1962

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	14604	11666-17543 ( 20%)	47	37-56 ( 20%)	12%
	HOLIDAY	23921	17102-30741 ( 29%)	76	54-98 ( 29%)	17%
	TOTAL	38526	31442-45609 ( 18%)	123	100-145 ( 18%)	15%
SHORE	WEEKDAY	6286	5034-7538 ( 20%)	20	16-24 ( 20%)	11%
	HOLIDAY	14636	8770-20503 ( 40%)	47	28-65 ( 40%)	14%
	TOTAL	20923	14955-26890 ( 29%)	67	48-86 ( 29%)	13%
BOAT & SHORE	WEEKDAY	20890	17696-24084 ( 15%)	67	56-77 ( 15%)	11%
	HOLIDAY	38558	30134-46982 ( 22%)	123	96-150 ( 22%)	16%
	TOTAL	59448	50439-68458 ( 15%)	189	161-218 ( 15%)	14%



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

# HARVESTED	95% CI		#/HOUR	95% CI	#/HA	#/ACRE	SPECIES
5611	3978-7244	( 29%)	.105	.056-.154 ( 47%)	44.16	17.87	All species
16	0-53	(223%)	.000	.000-.001 (220%)	0.13	0.05	Black bullhead
1053	544-1562	( 48%)	.018	.002-.034 ( 88%)	8.29	3.35	Black crappie
2769	1823-3715	( 34%)	.058	.013-.103 ( 78%)	21.79	8.82	Bluegill
364	0-811	(123%)	.005	.000-.011 (113%)	2.86	1.16	Channel catfish
2	0-7	(236%)	.000	.000-.000 (236%)	0.02	0.01	Golden shiner
			****	NOT RECORDED	****		Gizzard shad
427	264-590	( 38%)	.009	.002-.015 ( 76%)	3.36	1.36	Largemouth bass
11	0-38	(257%)	.000	.000-.000 (245%)	0.08	0.03	Muskellunge
			****	NOT RECORDED	****		Smallmouth bass
305	157-452	( 48%)	.003	.001-.006 ( 66%)	2.40	0.97	Walleye
			****	NOT RECORDED	****		Warmouth
655	206-1103	( 69%)	.011	.003-.020 ( 75%)	5.15	2.08	White crappie
10	0-31	(220%)	.000	.000-.000 (223%)	0.08	0.03	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
1707	754-2660	( 56%)	.028	.015-.041 ( 46%)	13.43	0.304	All species
10	0-31	(223%)	.000	.000-.000 (223%)	0.08	0.602	Black bullhead
234	103-364	( 56%)	.004	.000-.008 ( 98%)	1.84	0.222	Black crappie
259	174-344	( 33%)	.005	.001-.009 ( 75%)	2.04	0.094	Bluegill
506	0-1210	(139%)	.007	.000-.016 (124%)	3.98	1.394	Channel catfish
0	0-0	(245%)	.000	.000-.000 (236%)	0.00	0.037	Golden shiner
			****	NOT RECORDED	****		Gizzard shad
370	227-512	( 39%)	.007	.002-.013 ( 76%)	2.91	0.868	Largemouth bass
27	0-95	(257%)	.000	.000-.000 (257%)	0.21	2.663	Muskellunge
			****	NOT RECORDED	****		Smallmouth bass
149	73-224	( 51%)	.001	.001-.002 ( 59%)	1.17	0.489	Walleye
			****	NOT RECORDED	****		Warmouth
148	34-261	( 77%)	.003	.001-.005 ( 78%)	1.16	0.226	White crappie
5	0-17	(223%)	.000	.000-.000 (223%)	0.04	0.599	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
3763	1661-5864	( 56%)	.062	.034-.091 ( 46%)	11.98	0.671	All species
21	0-68	(220%)	.000	.000-.001 (223%)	0.07	1.326	Black bullhead
515	228-803	( 56%)	.009	.000-.018 ( 98%)	1.64	0.489	Black crappie
571	385-758	( 33%)	.011	.003-.020 ( 75%)	1.82	0.206	Bluegill
1116	0-2668	(139%)	.016	.000-.036 (124%)	3.55	3.073	Channel catfish
0	0-1	(236%)	.000	.000-.000 (245%)	0.00	0.082	Golden shiner
			****	NOT RECORDED ****			Gizzard shad
815	501-1130	( 39%)	.016	.004-.028 ( 76%)	2.60	1.914	Largemouth bass
59	0-210	(257%)	.000	.000-.001 (257%)	0.19	5.871	Muskellunge
			****	NOT RECORDED ****			Smallmouth bass
328	162-493	( 51%)	.003	.001-.005 ( 59%)	1.04	1.078	Walleye
			****	NOT RECORDED ****			Warmouth
325	75-576	( 77%)	.006	.001-.011 ( 78%)	1.04	0.497	White crappie
12	0-38	(223%)	.000	.000-.000 (220%)	0.04	1.320	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
18601	14334-22867 ( 23%)	.250	.185-.315 ( 26%)	146.38	59.24	All species
152	0-324 (113%)	.003	.000-.007 (198%)	1.20	0.48	Black bullhead
1621	1029-2212 ( 36%)	.025	.008-.042 ( 67%)	12.75	5.16	Black crappie
9019	5974-12064 ( 34%)	.114	.059-.170 ( 49%)	70.98	28.72	Bluegill
463	0-928 (100%)	.007	.000-.013 ( 93%)	3.65	1.48	Channel catfish
2	0-7 (236%)	.000	.000-.000 (236%)	0.02	0.01	Golden shiner
78	0-245 (213%)	.000	.000-.000 (153%)	0.62	0.25	Gizzard shad
4264	3235-5292 ( 24%)	.061	.043-.079 ( 29%)	33.55	13.58	Largemouth bass
35	0-72 (107%)	.000	.000-.001 (165%)	0.27	0.11	Muskellunge
17	0-45 (171%)	.000	.000-.000 (181%)	0.13	0.05	Smallmouth bass
1680	1038-2323 ( 38%)	.017	.011-.023 ( 36%)	13.22	5.35	Walleye
4	0-12 (223%)	.000	.000-.000 (220%)	0.03	0.01	Warmouth
1251	652-1851 ( 48%)	.024	.010-.037 ( 57%)	9.85	3.98	White crappie
15	0-47 (223%)	.000	.000-.000 (220%)	0.11	0.05	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
3881	2792-4970 ( 28%)	.057	.041-.074 ( 28%)	30.54	0.209	All species
44	0-108 (149%)	.001	.000-.003 (214%)	0.34	0.286	Black bullhead
294	163-426 ( 45%)	.005	.001-.009 ( 85%)	2.31	0.182	Black crappie
550	380-721 ( 31%)	.007	.003-.011 ( 54%)	4.33	0.061	Bluegill
555	0-1264 (128%)	.009	.000-.018 (101%)	4.37	1.199	Channel catfish
0	0-0 (245%)	.000	.000-.000 (236%)	0.00	0.037	Golden shiner
24	0-75 (205%)	.000	.000-.000 (153%)	0.19	0.314	Gizzard shad
1632	1174-2090 ( 28%)	.026	.015-.038 ( 44%)	12.84	0.383	Largemouth bass
75	0-156 (106%)	.001	.000-.002 (176%)	0.59	2.218	Muskellunge
8	0-22 (171%)	.000	.000-.000 (181%)	0.06	0.514	Smallmouth bass
501	300-702 ( 40%)	.005	.003-.006 ( 36%)	3.94	0.298	Walleye
0	0-1 (220%)	.000	.000-.000 (223%)	0.00	0.063	Warmouth
190	73-307 ( 62%)	.004	.001-.006 ( 70%)	1.49	0.152	White crappie
7	0-22 (223%)	.000	.000-.000 (220%)	0.05	0.490	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
8557	6156-10958 ( 28%)	.127	.091-.162 ( 28%)	27.25	0.460	All species
96	0-239 (149%)	.002	.000-.006 (214%)	0.31	0.631	Black bullhead
648	359-938 ( 45%)	.010	.002-.019 ( 85%)	2.07	0.400	Black crappie
1213	837-1590 ( 31%)	.016	.008-.025 ( 54%)	3.86	0.135	Bluegill
1224	0-2788 (128%)	.020	.000-.040 (101%)	3.90	2.643	Channel catfish
0	0-1 (236%)	.000	.000-.000 (245%)	0.00	0.082	Golden shiner
54	0-165 (205%)	.000	.000-.000 (153%)	0.17	0.692	Gizzard shad
3597	2588-4607 ( 28%)	.058	.032-.083 ( 44%)	11.46	0.844	Largemouth bass
166	0-343 (106%)	.002	.000-.004 (176%)	0.53	4.890	Muskellunge
18	0-49 (171%)	.000	.000-.000 (181%)	0.06	1.133	Smallmouth bass
1105	662-1548 ( 40%)	.010	.007-.014 ( 36%)	3.52	0.658	Walleye
0	0-1 (223%)	.000	.000-.000 (223%)	0.00	0.140	Warmouth
419	160-677 ( 62%)	.008	.002-.014 ( 70%)	1.33	0.335	White crappie
15	0-49 (223%)	.000	.000-.000 (223%)	0.05	1.079	Yellow bullhead