

ILLINOIS NATURAL HISTORY SURVEY  
 CENTER FOR AQUATIC ECOLOGY  
 1998 CREEL SURVEY RESULTS

**1998 KAKUSHKA**  
 53 ACRES  
 REGION 1, DISTRICT 2

STRATIFICATION SUMMARY:

Day creel only.  
 Results cover 04/01/1998 through 10/31/1998  
 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: 226/642 = 35.2%

NUMBER OF INTERVIEWS: 274

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	2089	1420-2758 ( 32%)	39	27-52 ( 32%)	8%
	HOLIDAY	2324	1865-2784 ( 20%)	44	35-53 ( 20%)	22%
	TOTAL	4413	3613-5214 ( 18%)	83	68-98 ( 18%)	15%
SHORE	WEEKDAY	1251	824-1679 ( 34%)	24	16-32 ( 34%)	8%
	HOLIDAY	915	623-1206 ( 32%)	17	12-23 ( 32%)	16%
	TOTAL	2166	1657-2675 ( 24%)	41	31-50 ( 24%)	11%
BOAT & SHORE	WEEKDAY	3341	2547-4134 ( 24%)	63	48-78 ( 24%)	8%
	HOLIDAY	3239	2719-3759 ( 16%)	61	51-71 ( 16%)	20%
	TOTAL	6580	5631-7529 ( 14%)	124	106-142 ( 14%)	14%

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

# HARVESTED	95% CI		#/HOUR	95% CI	#/HA	#/ACRE	SPECIES
1903	958-2849	( 50%)	.152	.088-.216 ( 42%)	88.74	35.91	All species
74	0-186	(151%)	.002	.000-.003 (118%)	3.45	1.40	Black crappie
1327	350-2303	( 74%)	.098	.039-.157 ( 60%)	61.85	25.03	Bluegill
382	190-574	( 50%)	.035	.010-.060 ( 72%)	17.80	7.20	Channel catfish
10	0-35	(257%)	.002	.000-.005 (257%)	0.46	0.18	Golden shiner
71	0-151	(112%)	.011	.000-.028 (161%)	3.32	1.35	Largemouth bass
12	0-28	(143%)	.001	.000-.003 (137%)	0.54	0.22	Yellow bullhead
28	0-70	(151%)	.003	.000-.008 (132%)	1.31	0.53	Yellow bass

Table 3. Total fishing harvest and harvest rates, in kilograms.

KG HARVESTED	95% CI		KG/HOUR	95% CI	KG/HA	AVE KG	SPECIES
409	228-590	( 44%)	.035	.017-.053 ( 50%)	19.05	0.215	All species
10	0-30	(203%)	.000	.000-.001 (147%)	0.46	0.134	Black crappie
141	20-261	( 85%)	.010	.003-.017 ( 71%)	6.56	0.106	Bluegill
205	36-374	( 82%)	.018	.001-.035 ( 94%)	9.56	0.538	Channel catfish
1	0-4	(245%)	.000	.000-.001 (245%)	0.05	0.129	Golden shiner
38	2-73	( 94%)	.005	.000-.011 (144%)	1.75	0.530	Largemouth bass
9	0-22	(136%)	.001	.000-.003 (120%)	0.44	0.863	Yellow bullhead
5	0-11	(141%)	.001	.000-.002 (189%)	0.21	0.163	Yellow bass

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

LB HARVESTED	95% CI		LB/HOUR	95% CI	LB/ACRE	AVE LB	SPECIES
901	502-1300	( 44%)	.077	.038-.116 ( 50%)	17.00	0.473	All species
22	0-66	(203%)	.000	.000-.001 (147%)	0.41	0.297	Black crappie
310	45-576	( 85%)	.021	.006-.037 ( 71%)	5.86	0.234	Bluegill
452	80-824	( 82%)	.040	.002-.078 ( 94%)	8.53	1.187	Channel catfish
3	0-9	(257%)	.000	.000-.001 (245%)	0.05	0.284	Golden shiner
83	5-160	( 94%)	.010	.000-.025 (144%)	1.56	1.168	Largemouth bass
21	0-49	(136%)	.003	.000-.007 (120%)	0.39	1.902	Yellow bullhead
10	0-24	(141%)	.001	.000-.004 (189%)	0.19	0.360	Yellow bass

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
3846	2575-5117	( 33%)	.264	.182-.346 ( 31%)	179.31	72.56	All species
128	4-251	( 97%)	.003	.001-.005 ( 79%)	5.95	2.41	Black crappie
2102	1077-3128	( 49%)	.137	.070-.203 ( 49%)	98.02	39.67	Bluegill
793	498-1088	( 37%)	.063	.026-.100 ( 58%)	36.98	14.96	Channel catfish
73	0-168	(131%)	.006	.000-.017 (169%)	3.39	1.37	Golden shiner
710	377-1043	( 47%)	.051	.027-.075 ( 47%)	33.12	13.40	Largemouth bass
12	0-28	(143%)	.001	.000-.003 (137%)	0.54	0.22	Yellow bullhead
28	0-70	(151%)	.003	.000-.008 (132%)	1.31	0.53	Yellow bass

Table 6. Total fishing catch and catch rates, in kilograms.

KG CAUGHT	95% CI		KG/HOUR	95% CI	KG/HA	AVE KG	SPECIES
920	621-1220	( 33%)	.065	.044-.087 ( 33%)	42.89	0.239	All species
14	0-32	(128%)	.000	.000-.001 (102%)	0.66	0.111	Black crappie
196	75-316	( 62%)	.012	.006-.019 ( 56%)	9.12	0.093	Bluegill
272	105-439	( 61%)	.023	.006-.040 ( 75%)	12.70	0.343	Channel catfish
9	0-20	(128%)	.001	.000-.002 (179%)	0.41	0.122	Golden shiner
415	190-640	( 54%)	.027	.014-.040 ( 48%)	19.36	0.585	Largemouth bass
9	0-22	(136%)	.001	.000-.003 (120%)	0.44	0.863	Yellow bullhead
5	0-11	(141%)	.001	.000-.002 (189%)	0.21	0.163	Yellow bass

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

LB CAUGHT	95% CI		LB/HOUR	95% CI	LB/ACRE	AVE LB	SPECIES
2028	1368-2689	( 33%)	.144	.096-.192 ( 33%)	38.27	0.528	All species
31	0-71	(128%)	.001	.000-.001 (102%)	0.58	0.244	Black crappie
431	166-697	( 62%)	.027	.012-.043 ( 56%)	8.14	0.205	Bluegill
601	232-969	( 61%)	.051	.013-.089 ( 75%)	11.33	0.757	Channel catfish
19	0-44	(128%)	.001	.000-.004 (179%)	0.37	0.269	Golden shiner
915	419-1412	( 54%)	.059	.031-.087 ( 48%)	17.27	1.289	Largemouth bass
21	0-49	(136%)	.003	.000-.007 (120%)	0.39	1.902	Yellow bullhead
10	0-24	(141%)	.001	.000-.004 (189%)	0.19	0.360	Yellow bass

