

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

1989 SAUK TRAIL  
 58 ACRES  
 REGION 1, DISTRICT 1

STRATIFICATION SUMMARY:

Day creel only.  
 Results cover 01/01/1989 through 11/15/1989  
 Year periods stratified.  
 Fishing modes (boat vs. shore) stratified.  
 Day types (weekday vs. weekend/holiday) stratified.  
 Day periods (morning, midday, and afternoon) stratified.  
 Yearperiod 8 coalesced with yearperiod 9.

SAMPLING RATIO: 340/957 = 35.5%

NUMBER OF INTERVIEWS: 2373

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	5048	3461-6634 ( 31%)	87	60-114 ( 31%)	17%
	HOLIDAY	6331	5356-7307 ( 15%)	109	92-126 ( 15%)	39%
	TOTAL	11379	9742-13016 ( 14%)	196	168-224 ( 14%)	30%
SHORE	WEEKDAY	7394	6384-8405 ( 14%)	127	110-145 ( 14%)	16%
	HOLIDAY	6680	5824-7536 ( 13%)	115	100-130 ( 13%)	27%
	TOTAL	14074	12750-15398 ( 9%)	243	220-265 ( 9%)	21%
BOAT & SHORE	WEEKDAY	12442	10802-14082 ( 13%)	215	186-243 ( 13%)	16%
	HOLIDAY	13011	11713-14309 ( 10%)	224	202-247 ( 10%)	33%
	TOTAL	25453	23463-27443 ( 8%)	439	405-473 ( 8%)	25%

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

# HARVESTED	95% CI		#/HOUR	95% CI	#/HA	#/ACRE	SPECIES
38822	32107-45536	( 17%)	1.041	.827-1.255 ( 21%)	1653.94	669.34	All species
16	0-34	(109%)	.000	.000-.001 (122%)	0.69	0.28	Black bullhead
4324	3030-5617	( 30%)	.112	.067-.158 ( 40%)	184.21	74.55	Black crappie
30036	23845-36227	( 21%)	.757	.591-.924 ( 22%)	1279.65	517.87	Bluegill
33	0-77	(135%)	.001	.000-.001 (130%)	1.40	0.57	Bluegill x
Redear s							
3	0-13	(278%)	.000	.000-.000 (278%)	0.14	0.06	Carp
1879	884-2874	( 53%)	.063	.027-.098 ( 57%)	80.05	32.40	Channel catfish
25	0-57	(128%)	.001	.000-.001 (111%)	1.06	0.43	Golden shiner
45	0-101	(126%)	.001	.000-.002 ( 93%)	1.91	0.77	Green sunfish
179	73-285	( 59%)	.007	.001-.012 ( 85%)	7.63	3.09	Largemouth bass
**** NOT RECORDED ****							
577	379-775	( 34%)	.012	.007-.017 ( 40%)	24.59	9.95	Redear sunfish
9	0-21	(132%)	.000	.000-.000 (154%)	0.38	0.15	Tiger muskie
1670	856-2483	( 49%)	.086	.000-.186 (116%)	71.13	28.79	White crappie
26	5-47	( 82%)	.001	.000-.001 ( 95%)	1.10	0.45	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
3971	3332-4611	( 16%)	.110	.090-.130 ( 18%)	169.20	0.102	All species
6	0-13	(104%)	.000	.000-.000 (191%)	0.27	0.392	Black bullhead
464	329-600	( 29%)	.012	.007-.017 ( 40%)	19.79	0.107	Black crappie
2363	1840-2886	( 22%)	.059	.045-.073 ( 24%)	100.69	0.079	Bluegill
2	0-6	(136%)	.000	.000-.000 (129%)	0.11	0.078	Bluegill x
Redear s							
6	0-22	(257%)	.000	.000-.001 (278%)	0.26	2.055	Carp
740	408-1073	( 45%)	.023	.013-.034 ( 46%)	31.53	0.394	Channel catfish
3	0-8	(133%)	.000	.000-.000 (119%)	0.14	0.137	Golden shiner
2	0-5	(121%)	.000	.000-.000 ( 92%)	0.09	0.051	Green sunfish
147	54-241	( 63%)	.006	.000-.012 (103%)	6.28	0.823	Largemouth bass
**** NOT RECORDED ****							
67	44-89	( 34%)	.001	.001-.002 ( 39%)	2.85	0.116	Redear sunfish
25	0-60	(135%)	.000	.000-.001 (159%)	1.08	3.170	Tiger muskie
138	70-205	( 49%)	.007	.000-.016 (118%)	5.87	0.083	White crappie
6	0-11	( 91%)	.000	.000-.000 ( 93%)	0.24	0.229	Yellow bullhead

1989 SAUK TRAIL

DAY CREEL

01/01/1989 - 11/15/1989

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

LB HARVESTED	95% CI		LB/HOUR	95% CI	LB/ACRE	AVE LB	SPECIES
8755	7345-10166	( 16%)	.243	.199-.286 ( 18%)	150.96	0.226	All species
14	0-28	(104%)	.000	.000-.001 (191%)	0.24	0.863	Black bullhead
1024	725-1323	( 29%)	.026	.016-.037 ( 40%)	17.65	0.237	Black crappie
5210	4057-6364	( 22%)	.131	.100-.162 ( 24%)	89.83	0.173	Bluegill
5	0-13	(136%)	.000	.000-.000 (129%)	0.09	0.172	Bluegill x
Redear s							
14	0-51	(278%)	.000	.000-.002 (257%)	0.23	4.531	Carp
1632	899-2365	( 45%)	.051	.028-.075 ( 46%)	28.13	0.869	Channel catfish
7	0-17	(133%)	.000	.000-.000 (119%)	0.13	0.302	Golden shiner
5	0-11	(121%)	.000	.000-.000 ( 92%)	0.08	0.111	Green sunfish
325	119-531	( 63%)	.013	.000-.026 (103%)	5.60	1.815	Largemouth bass
			****	NOT RECORDED	****		Muskellunge
147	98-197	( 34%)	.003	.002-.004 ( 39%)	2.54	0.256	Redear sunfish
56	0-131	(135%)	.001	.000-.002 (159%)	0.96	6.988	Tiger muskie
304	155-452	( 49%)	.016	.000-.034 (118%)	5.24	0.182	White crappie
13	1-24	( 91%)	.000	.000-.000 ( 93%)	0.22	0.505	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
71481	57280-85682	( 20%)	1.906	1.534-2.277 ( 19%)	3045.33	1232.43	All species
29	0-58	( 99%)	.000	.000-.001 ( 99%)	1.25	0.51	Black bullhead
4719	3382-6056	( 28%)	.127	.080-.173 ( 37%)	201.06	81.37	Black crappie
59129	45789-72470	( 23%)	1.500	1.162-1.839 ( 23%)	2519.12	1019.47	Bluegill
33	0-77	(135%)	.001	.000-.001 (130%)	1.40	0.57	Bluegill x
Redear s							
3	0-13	(278%)	.000	.000-.000 (278%)	0.14	0.06	Carp
2499	1463-3534	( 41%)	.089	.028-.150 ( 69%)	106.45	43.08	Channel catfish
252	0-547	(117%)	.006	.000-.013 (108%)	10.72	4.34	Golden shiner
50	0-107	(114%)	.001	.000-.002 ( 89%)	2.14	0.87	Green sunfish
1318	912-1724	( 31%)	.053	.022-.084 ( 58%)	56.16	22.73	Largemouth bass
3	0-11	(257%)	.000	.000-.000 (257%)	0.14	0.06	Muskellunge
1486	613-2360	( 59%)	.035	.006-.064 ( 82%)	63.32	25.63	Redear sunfish
9	0-21	(132%)	.000	.000-.000 (154%)	0.38	0.15	Tiger muskie
1923	952-2894	( 50%)	.093	.000-.193 (109%)	81.92	33.15	White crappie
27	6-48	( 79%)	.001	.000-.001 (100%)	1.15	0.46	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
5207	4440-5974	( 15%)	.149	.124-.173 ( 16%)	221.84	0.073	All species
7	1-14	( 93%)	.000	.000-.000 (180%)	0.31	0.249	Black bullhead
488	350-626	( 28%)	.013	.008-.018 ( 37%)	20.80	0.103	Black crappie
3040	2388-3693	( 21%)	.076	.059-.092 ( 22%)	129.52	0.051	Bluegill
2	0-6	(136%)	.000	.000-.000 (129%)	0.11	0.078	Bluegill x
Redear s							
6	0-22	(257%)	.000	.000-.001 (278%)	0.26	2.055	Carp
810	475-1145	( 41%)	.026	.014-.038 ( 46%)	34.51	0.324	Channel catfish
23	0-50	(114%)	.001	.000-.001 (114%)	0.99	0.093	Golden shiner
2	0-5	(118%)	.000	.000-.000 ( 91%)	0.10	0.046	Green sunfish
546	360-732	( 34%)	.023	.009-.037 ( 60%)	23.25	0.414	Largemouth bass
5	0-21	(278%)	.000	.000-.000 (278%)	0.23	1.832	Muskellunge
98	66-129	( 33%)	.002	.001-.003 ( 41%)	4.16	0.066	Redear sunfish
25	0-60	(135%)	.000	.000-.001 (159%)	1.08	3.170	Tiger muskie
147	76-219	( 49%)	.007	.000-.016 (115%)	6.28	0.077	White crappie
6	1-11	( 90%)	.000	.000-.000 ( 88%)	0.25	0.224	Yellow bullhead

1989 SAUK TRAIL

DAY CREEL

01/01/1989 - 11/15/1989

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

LB CAUGHT	95% CI		LB/HOUR	95% CI	LB/ACRE	AVE LB	SPECIES
11480	9788-13171	( 15%)	.328	.274-.382 ( 16%)	197.92	0.161	All species
16	1-31	( 93%)	.000	.000-.001 (180%)	0.27	0.550	Black bullhead
1076	772-1381	( 28%)	.028	.018-.039 ( 37%)	18.56	0.228	Black crappie
6702	5264-8141	( 21%)	.167	.131-.203 ( 22%)	115.56	0.113	Bluegill
5	0-13	(136%)	.000	.000-.000 (129%)	0.09	0.172	Bluegill x
Redear s							
14	0-51	(278%)	.000	.000-.002 (257%)	0.23	4.531	Carp
1786	1048-2524	( 41%)	.057	.031-.083 ( 46%)	30.79	0.715	Channel catfish
51	0-110	(114%)	.001	.000-.002 (114%)	0.88	0.204	Golden shiner
5	0-11	(118%)	.000	.000-.000 ( 91%)	0.09	0.101	Green sunfish
1203	793-1613	( 34%)	.052	.021-.082 ( 60%)	20.74	0.913	Largemouth bass
12	0-46	(278%)	.000	.000-.000 (257%)	0.21	4.038	Muskellunge
215	145-285	( 33%)	.005	.003-.007 ( 41%)	3.71	0.145	Redear sunfish
56	0-131	(135%)	.001	.000-.002 (159%)	0.96	6.988	Tiger muskie
325	167-482	( 49%)	.016	.000-.035 (115%)	5.60	0.169	White crappie
13	1-24	( 90%)	.000	.000-.000 ( 88%)	0.22	0.493	Yellow bullhead