

ILLINOIS NATURAL HISTORY SURVEY
 CENTER FOR AQUATIC ECOLOGY
 1996 CREEL SURVEY RESULTS

1996 RAMSEY LAKE
 54 ACRES
 REGION 5, DISTRICT 22

STRATIFICATION SUMMARY:

Day creel only.
 Results cover 03/15/1996 through 11/15/1996
 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: 324/738 = 43.9%

NUMBER OF INTERVIEWS: 1626

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	6629	5646-7612 (15%)	124	105-142 (15%)	25%
	HOLIDAY	7683	6850-8516 (11%)	143	128-159 (11%)	50%
	TOTAL	14312	13024-15600 (9%)	267	243-291 (9%)	38%
SHORE	WEEKDAY	3024	2514-3535 (17%)	56	47-66 (17%)	15%
	HOLIDAY	2278	1971-2585 (13%)	42	37-48 (13%)	31%
	TOTAL	5302	4707-5898 (11%)	99	88-110 (11%)	22%
BOAT & SHORE	WEEKDAY	9653	8546-10760 (11%)	180	159-201 (11%)	22%
	HOLIDAY	9961	9073-10849 (9%)	186	169-202 (9%)	46%
	TOTAL	19614	18195-21033 (7%)	366	339-392 (7%)	34%

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

# HARVESTED	95% CI		#/HOUR	95% CI	#/HA	#/ACRE	SPECIES
12654	10858-14449	(14%)	.489	.402-.575 (18%)	583.34	236.08	All species
2005	1459-2551	(27%)	.103	.063-.143 (39%)	92.42	37.40	Black crappie
9477	7946-11008	(16%)	.350	.276-.424 (21%)	436.91	176.82	Bluegill
468	273-664	(42%)	.012	.006-.019 (55%)	21.58	8.73	Channel catfish
3	0-9	(245%)	.000	.000-.000 (257%)	0.13	0.05	Green sunfish
243	160-325	(34%)	.008	.004-.012 (48%)	11.19	4.53	Largemouth bass
457	236-678	(48%)	.015	.008-.021 (43%)	21.06	8.52	Redear sunfish
			****	NOT RECORDED	****		Walleye x
Sauger hy							
1	0-5	(257%)	.000	.000-.000 (257%)	0.06	0.02	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
2046	1771-2321	(13%)	.080	.066-.094 (17%)	94.32	0.162	All species
388	289-487	(26%)	.021	.012-.029 (40%)	17.89	0.194	Black crappie
1023	856-1190	(16%)	.038	.030-.046 (22%)	47.16	0.108	Bluegill
349	204-493	(42%)	.011	.004-.018 (66%)	16.07	0.745	Channel catfish
0	0-2	(245%)	.000	.000-.000 (257%)	0.02	0.239	Green sunfish
197	129-265	(35%)	.007	.004-.011 (52%)	9.10	0.815	Largemouth bass
87	47-128	(46%)	.003	.002-.005 (47%)	4.03	0.192	Redear sunfish
			****	NOT RECORDED	****		Walleye x
Sauger hy							
1	0-4	(257%)	.000	.000-.000 (245%)	0.05	1.189	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
4510	3904-5117	(13%)	.177	.146-.207 (17%)	84.15	0.356	All species
855	636-1074	(26%)	.045	.027-.063 (40%)	15.96	0.427	Black crappie
2255	1886-2624	(16%)	.084	.066-.102 (22%)	42.07	0.238	Bluegill
768	449-1087	(42%)	.024	.008-.040 (66%)	14.33	1.642	Channel catfish
1	0-4	(257%)	.000	.000-.000 (245%)	0.02	0.528	Green sunfish
435	285-585	(35%)	.016	.008-.024 (52%)	8.12	1.797	Largemouth bass
193	104-282	(46%)	.007	.004-.011 (47%)	3.60	0.423	Redear sunfish
			****	NOT RECORDED	****		Walleye x
Sauger hy							
3	0-9	(245%)	.000	.000-.000 (257%)	0.05	2.621	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
31008	27536-34480	(11%)	1.142	1.007-1.278	(12%)	1429.50	578.51 All species
3568	2699-4436	(24%)	.172	.114-.230	(34%)	164.48	66.56 Black crappie
18162	15626-20698	(14%)	.635	.531-.739	(16%)	837.28	338.84 Bluegill
738	479-996	(35%)	.019	.012-.026	(38%)	34.00	13.76 Channel catfish
14	0-29	(100%)	.002	.000-.005	(217%)	0.67	0.27 Green sunfish
7781	6493-9069	(17%)	.291	.235-.348	(19%)	358.71	145.17 Largemouth bass
680	385-975	(43%)	.021	.012-.029	(42%)	31.34	12.68 Redear sunfish
64	0-132	(106%)	.003	.000-.008	(128%)	2.97	1.20 Walleye x
Sauger hy							
1	0-5	(257%)	.000	.000-.000	(257%)	0.06	0.02 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
5164	4531-5796	(12%)	.197	.171-.223	(13%)	238.05	0.167 All species
523	402-644	(23%)	.026	.017-.036	(35%)	24.10	0.147 Black crappie
1406	1155-1656	(18%)	.049	.040-.058	(19%)	64.81	0.077 Bluegill
398	251-546	(37%)	.012	.005-.019	(59%)	18.37	0.541 Channel catfish
2	0-3	(112%)	.000	.000-.001	(232%)	0.07	0.111 Green sunfish
2717	2231-3203	(18%)	.105	.083-.126	(21%)	125.26	0.349 Largemouth bass
113	64-163	(44%)	.004	.002-.006	(44%)	5.23	0.167 Redear sunfish
3	0-7	(103%)	.000	.000-.000	(125%)	0.15	0.052 Walleye x
Sauger hy							
1	0-4	(257%)	.000	.000-.000	(245%)	0.05	1.189 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
11384	9990-12778	(12%)	.434	.377-.492	(13%)	212.39	0.367 All species
1153	886-1419	(23%)	.058	.038-.079	(35%)	21.50	0.323 Black crappie
3100	2547-3652	(18%)	.108	.088-.129	(19%)	57.83	0.171 Bluegill
879	554-1203	(37%)	.027	.011-.043	(59%)	16.39	1.192 Channel catfish
3	0-7	(112%)	.001	.000-.002	(232%)	0.06	0.244 Green sunfish
5990	4919-7061	(18%)	.231	.183-.279	(21%)	111.75	0.770 Largemouth bass
250	141-359	(44%)	.009	.005-.013	(44%)	4.66	0.368 Redear sunfish
7	0-15	(103%)	.000	.000-.001	(125%)	0.14	0.115 Walleye x
Sauger hy							
3	0-9	(245%)	.000	.000-.000	(257%)	0.05	2.621 Yellow bullhead

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 Day periods (morning, midday, and afternoon) stratified.

SAMPLING RATIO: 127/279 = 45.5%

NUMBER OF INTERVIEWS: 715

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	2777	2199-3356 (21%)	52	41-63 (21%)	30%
	HOLIDAY	2982	2455-3509 (18%)	56	46-65 (18%)	54%
	TOTAL	5759	4977-6542 (14%)	107	93-122 (14%)	42%
SHORE	WEEKDAY	896	646-1147 (28%)	17	12-21 (28%)	21%
	HOLIDAY	991	760-1221 (23%)	18	14-23 (23%)	29%
	TOTAL	1887	1554-2220 (18%)	35	29-41 (18%)	25%
BOAT & SHORE	WEEKDAY	3674	3047-4300 (17%)	69	57-80 (17%)	28%
	HOLIDAY	3973	3397-4548 (14%)	74	63-85 (14%)	48%
	TOTAL	7646	6796-8497 (11%)	143	127-159 (11%)	38%

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

# HARVESTED	95% CI	#/HOUR	95% CI	#/HA	#/ACRE	SPECIES
5942	4839-7044 (19%)	.573	.421-.725 (27%)	273.92	110.86	All species
824	550-1098 (33%)	.137	.044-.230 (68%)	37.98	15.37	Black crappie
4533	3553-5512 (22%)	.392	.271-.513 (31%)	208.96	84.57	Bluegill
286	97-475 (66%)	.020	.002-.038 (89%)	13.17	5.33	Channel catfish
3	0-9 (245%)	.000	.000-.000 (257%)	0.13	0.05	Green sunfish
120	62-178 (49%)	.015	.005-.025 (66%)	5.52	2.23	Largemouth bass
176	58-294 (67%)	.009	.001-.017 (93%)	8.11	3.28	Redear sunfish
		****	NOT RECORDED ****			Walleye x
Sauger hy						
1	0-5 (257%)	.000	.000-.000 (245%)	0.06	0.02	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
1033	844-1222 (18%)	.107	.079-.134 (26%)	47.63	0.174	All species
173	114-231 (34%)	.029	.010-.049 (67%)	7.96	0.210	Black crappie
533	413-652 (22%)	.046	.032-.060 (31%)	24.56	0.118	Bluegill
180	54-306 (70%)	.015	.000-.034 (124%)	8.28	0.631	Channel catfish
0	0-2 (245%)	.000	.000-.000 (245%)	0.02	0.239	Green sunfish
104	54-154 (48%)	.014	.004-.023 (68%)	4.79	0.872	Largemouth bass
43	6-79 (86%)	.003	.000-.006 (110%)	1.97	0.244	Redear sunfish
		****	NOT RECORDED ****			Walleye x
Sauger hy						
1	0-4 (257%)	.000	.000-.000 (257%)	0.05	1.189	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
2278	1861-2695 (18%)	.235	.174-.296 (26%)	42.50	0.383	All species
381	252-509 (34%)	.064	.021-.107 (67%)	7.10	0.462	Black crappie
1174	911-1438 (22%)	.101	.070-.133 (31%)	21.91	0.259	Bluegill
396	119-674 (70%)	.033	.000-.074 (124%)	7.39	1.390	Channel catfish
1	0-4 (257%)	.000	.000-.000 (245%)	0.02	0.528	Green sunfish
229	119-339 (48%)	.031	.010-.051 (68%)	4.27	1.923	Largemouth bass
94	13-175 (86%)	.006	.000-.012 (110%)	1.76	0.538	Redear sunfish
		****	NOT RECORDED ****			Walleye x
Sauger hy						
3	0-9 (245%)	.000	.000-.001 (245%)	0.05	2.621	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
13013	10915-15111	(16%)	1.179	.964-1.393	(18%)	599.91	242.78 All species
1094	731-1457	(33%)	.170	.075-.264	(56%)	50.43	20.41 Black crappie
7943	6115-9772	(23%)	.583	.429-.737	(26%)	366.18	148.19 Bluegill
332	144-520	(57%)	.023	.006-.041	(75%)	15.31	6.19 Channel catfish
6	0-15	(156%)	.004	.000-.013	(241%)	0.27	0.11 Green sunfish
3315	2658-3973	(20%)	.381	.282-.479	(26%)	152.84	61.86 Largemouth bass
298	86-510	(71%)	.014	.005-.024	(68%)	13.76	5.57 Redear sunfish
23	0-64	(179%)	.004	.000-.011	(183%)	1.06	0.43 Walleye x
Sauger hy							
1	0-5	(257%)	.000	.000-.000	(245%)	0.06	0.02 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
2497	2024-2970	(19%)	.265	.206-.324	(22%)	115.11	0.192 All species
202	136-269	(33%)	.033	.013-.052	(59%)	9.33	0.185 Black crappie
734	515-952	(30%)	.055	.040-.071	(28%)	33.82	0.092 Bluegill
191	70-311	(63%)	.016	.000-.035	(117%)	8.79	0.574 Channel catfish
1	0-3	(156%)	.001	.000-.002	(241%)	0.05	0.206 Green sunfish
1310	941-1678	(28%)	.157	.108-.207	(31%)	60.39	0.395 Largemouth bass
57	13-101	(77%)	.003	.000-.006	(96%)	2.63	0.191 Redear sunfish
1	0-2	(154%)	.000	.000-.000	(172%)	0.04	0.039 Walleye x
Sauger hy							
1	0-4	(257%)	.000	.000-.000	(257%)	0.05	1.189 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
5505	4462-6548	(19%)	.585	.455-.714	(22%)	102.70	0.423 All species
446	300-592	(33%)	.072	.030-.115	(59%)	8.33	0.408 Black crappie
1618	1135-2100	(30%)	.122	.087-.156	(28%)	30.18	0.204 Bluegill
420	155-686	(63%)	.035	.000-.076	(117%)	7.84	1.267 Channel catfish
2	0-6	(156%)	.001	.000-.005	(241%)	0.04	0.455 Green sunfish
2888	2075-3700	(28%)	.347	.238-.456	(31%)	53.88	0.871 Largemouth bass
126	29-222	(77%)	.007	.000-.013	(96%)	2.34	0.422 Redear sunfish
2	0-5	(154%)	.000	.000-.001	(172%)	0.04	0.087 Walleye x
Sauger hy							
3	0-9	(245%)	.000	.000-.001	(245%)	0.05	2.621 Yellow bullhead

