

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

1996 REND LAKE
 16135 ACRES
 REGION 5, DISTRICT 32

STRATIFICATION SUMMARY:

Day creel only.
 Results cover 10/01/1996 through 10/31/1996
 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: 68/93 = 73.1%

NUMBER OF INTERVIEWS: 364

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	5432	3532-7332 (35%)	0	0-0 (35%)	7%
	HOLIDAY	3590	2247-4934 (37%)	0	0-0 (37%)	22%
	TOTAL	9022	6696-11349 (26%)	1	0-1 (26%)	13%
SHORE	WEEKDAY	1018	373-1663 (63%)	0	0-0 (63%)	4%
	HOLIDAY	946	388-1505 (59%)	0	0-0 (59%)	15%
	TOTAL	1964	1154-2774 (41%)	0	0-0 (41%)	9%
BOAT & SHORE	WEEKDAY	6450	4455-8445 (31%)	0	0-1 (31%)	7%
	HOLIDAY	4537	3091-5982 (32%)	0	0-0 (32%)	20%
	TOTAL	10987	8523-13451 (22%)	1	1-1 (22%)	12%

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

# HARVESTED	95% CI	#/HOUR	95% CI	#/HA	#/ACRE	SPECIES
13439	8868-18010 (34%)	.646	.412-.881 (36%)	2.06	0.83	All species
32	0-64 (101%)	.001	.000-.002 (135%)	0.00	0.00	Black crappie
1226	0-2463 (101%)	.104	.000-.231 (122%)	0.19	0.08	Bluegill
92	21-163 (77%)	.003	.000-.007 (96%)	0.01	0.01	Channel catfish
14	0-44 (220%)	.000	.000-.001 (218%)	0.00	0.00	Flathead
catfish						
		****	NOT RECORDED ****			Freshwater drum
		****	NOT RECORDED ****			Gizzard shad
100	31-170 (69%)	.005	.001-.008 (82%)	0.02	0.01	Largemouth bass
86	0-254 (197%)	.001	.000-.004 (197%)	0.01	0.01	Striped bass
hybrid						
		****	NOT RECORDED ****			Warmouth
1183	318-2049 (73%)	.047	.003-.090 (93%)	0.18	0.07	White bass
10705	6850-14560 (36%)	.485	.287-.684 (41%)	1.64	0.66	White crappie
		****	NOT RECORDED ****			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
1804	1202-2406 (33%)	.077	.051-.103 (34%)	0.28	0.134	All species
3	0-6 (104%)	.000	.000-.000 (134%)	0.00	0.095	Black crappie
63	3-123 (95%)	.006	.000-.013 (125%)	0.01	0.052	Bluegill
52	8-95 (84%)	.002	.000-.003 (93%)	0.01	0.564	Channel catfish
47	0-148 (218%)	.001	.000-.003 (218%)	0.01	3.366	Flathead
catfish						
		****	NOT RECORDED ****			Freshwater drum
		****	NOT RECORDED ****			Gizzard shad
91	31-152 (67%)	.004	.001-.007 (72%)	0.01	0.910	Largemouth bass
43	0-129 (199%)	.001	.000-.002 (198%)	0.01	0.504	Striped bass
hybrid						
		****	NOT RECORDED ****			Warmouth
339	87-592 (74%)	.013	.001-.025 (91%)	0.05	0.287	White bass
1165	746-1585 (36%)	.051	.031-.071 (40%)	0.18	0.109	White crappie
		****	NOT RECORDED ****			Yellow bass

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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
3977	2649-5304	(33%)	.170	.113-.227 (34%)	0.25	0.296	All species
7	0-14	(104%)	.000	.000-.000 (134%)	0.00	0.209	Black crappie
139	7-272	(95%)	.013	.000-.029 (125%)	0.01	0.114	Bluegill
114	18-210	(84%)	.004	.000-.007 (93%)	0.01	1.242	Channel catfish
103	0-327	(218%)	.002	.000-.007 (220%)	0.01	7.422	Flathead
catfish							
			****	NOT RECORDED ****			Freshwater drum
			****	NOT RECORDED ****			Gizzard shad
201	67-335	(67%)	.009	.002-.015 (72%)	0.01	2.006	Largemouth bass
95	0-284	(199%)	.002	.000-.005 (198%)	0.01	1.111	Striped bass
hybrid							
			****	NOT RECORDED ****			Warmouth
748	192-1304	(74%)	.029	.003-.055 (91%)	0.05	0.632	White bass
2569	1645-3493	(36%)	.112	.068-.156 (40%)	0.16	0.240	White crappie
			****	NOT RECORDED ****			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
31347	20901-41792 (33%)	1.635	1.094-2.176(33%)	4.80	1.94	All species
353	0-792 (125%)	.033	.000-.077 (132%)	0.05	0.02	Black crappie
2369	415-4323 (82%)	.211	.000-.469 (123%)	0.36	0.15	Bluegill
95	24-167 (75%)	.003	.000-.007 (94%)	0.01	0.01	Channel catfish
14	0-44 (220%)	.000	.000-.001 (218%)	0.00	0.00	Flathead
catfish						
6	0-19 (220%)	.000	.000-.001 (220%)	0.00	0.00	Freshwater drum
31	0-96 (207%)	.003	.000-.010 (207%)	0.00	0.00	Gizzard shad
1071	517-1626 (52%)	.034	.014-.054 (59%)	0.16	0.07	Largemouth bass
137	0-364 (167%)	.003	.000-.007 (136%)	0.02	0.01	Striped bass
hybrid						
3	0-11 (220%)	.000	.000-.000 (218%)	0.00	0.00	Warmouth
2008	700-3316 (65%)	.076	.012-.139 (84%)	0.31	0.12	White bass
25175	15960-34390 (37%)	1.269	.776-1.762(39%)	3.86	1.56	White crappie
84	0-216 (157%)	.002	.000-.005 (138%)	0.01	0.01	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
2799	1961-3637 (30%)	.118	.085-.152 (28%)	0.43	0.089	All species
17	0-36 (112%)	.001	.000-.003 (119%)	0.00	0.049	Black crappie
89	17-162 (82%)	.008	.000-.019 (122%)	0.01	0.038	Bluegill
53	9-96 (82%)	.002	.000-.003 (92%)	0.01	0.554	Channel catfish
47	0-148 (218%)	.001	.000-.003 (218%)	0.01	3.366	Flathead
catfish						
2	0-6 (220%)	.000	.000-.000 (220%)	0.00	0.322	Freshwater drum
0	0-1 (207%)	.000	.000-.000 (207%)	0.00	0.012	Gizzard shad
506	257-754 (49%)	.016	.008-.024 (50%)	0.08	0.472	Largemouth bass
74	0-186 (151%)	.002	.000-.004 (131%)	0.01	0.541	Striped bass
hybrid						
0	0-1 (218%)	.000	.000-.000 (218%)	0.00	0.063	Warmouth
467	158-775 (66%)	.017	.003-.032 (83%)	0.07	0.232	White bass
1537	998-2075 (35%)	.071	.045-.097 (37%)	0.24	0.061	White crappie
7	0-16 (125%)	.000	.000-.000 (120%)	0.00	0.086	Yellow bass

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10/01/1996 - 10/31/1996

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

LB CAUGHT	95% CI		LB/HOUR	95% CI	LB/ACRE	AVE LB	SPECIES
6170	4322-8018	(30%)	.261	.187-.335 (28%)	0.38	0.197	All species
38	0-80	(112%)	.003	.000-.006 (119%)	0.00	0.107	Black crappie
197	36-358	(82%)	.018	.000-.041 (122%)	0.01	0.083	Bluegill
116	20-212	(82%)	.004	.000-.007 (92%)	0.01	1.221	Channel catfish
103	0-327	(218%)	.002	.000-.007 (220%)	0.01	7.422	Flathead
catfish							
4	0-14	(220%)	.000	.000-.001 (223%)	0.00	0.710	Freshwater drum
1	0-2	(207%)	.000	.000-.000 (207%)	0.00	0.026	Gizzard shad
1115	568-1662	(49%)	.035	.017-.053 (50%)	0.07	1.041	Largemouth bass
163	0-409	(151%)	.004	.000-.009 (131%)	0.01	1.193	Striped bass
hybrid							
0	0-2	(220%)	.000	.000-.000 (218%)	0.00	0.140	Warmouth
1029	348-1709	(66%)	.038	.007-.070 (83%)	0.06	0.512	White bass
3388	2201-4576	(35%)	.156	.098-.213 (37%)	0.21	0.135	White crappie
16	0-36	(125%)	.000	.000-.001 (120%)	0.00	0.189	Yellow bass

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

SAMPLING RATIO: 33/45 = 73.3%

NUMBER OF INTERVIEWS: 19

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	372	35-709 (91%)	0	0-0 (91%)	7%
	HOLIDAY	507	0-1032 (104%)	0	0-0 (104%)	3%
	TOTAL	879	286-1471 (67%)	0	0-0 (67%)	5%
SHORE	WEEKDAY	177	0-432 (144%)	0	0-0 (144%)	6%
	HOLIDAY	28	0-80 (182%)	0	0-0 (182%)	14%
	TOTAL	205	0-460 (124%)	0	0-0 (124%)	7%
BOAT & SHORE	WEEKDAY	549	152-945 (72%)	0	0-0 (72%)	7%
	HOLIDAY	535	8-1062 (99%)	0	0-0 (99%)	3%
	TOTAL	1084	457-1711 (58%)	0	0-0 (58%)	5%

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DAY CREEL

11/01/1996 - 11/15/1996

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

# HARVESTED	95% CI	#/HOUR	95% CI	#/HA	#/ACRE	SPECIES
1251	0-2803 (124%)	.301	.000-.719 (139%)	0.19	0.08	All species
		**** NOT RECORDED ****				Largemouth bass
		**** NOT RECORDED ****				White bass
1251	0-2803 (124%)	.301	.000-.719 (139%)	0.19	0.08	White crappie

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

KG HARVESTED	95% CI	KG/HOUR	95% CI	KG/HA	AVE KG	SPECIES
102	0-228 (123%)	.025	.000-.058 (137%)	0.02	0.082	All species
		**** NOT RECORDED ****				Largemouth bass
		**** NOT RECORDED ****				White bass
102	0-228 (123%)	.025	.000-.058 (137%)	0.02	0.082	White crappie

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

LB HARVESTED	95% CI	LB/HOUR	95% CI	LB/ACRE	AVE LB	SPECIES
226	0-503 (123%)	.054	.000-.129 (137%)	0.01	0.181	All species
		**** NOT RECORDED ****				Largemouth bass
		**** NOT RECORDED ****				White bass
226	0-503 (123%)	.054	.000-.129 (137%)	0.01	0.181	White crappie

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
3653	0-8115 (122%)	.893	.000-2.118(137%)	0.56	0.23	All species
87	0-287 (229%)	.013	.000-.030 (127%)	0.01	0.01	Largemouth bass
213	0-889 (318%)	.013	.000-.056 (318%)	0.03	0.01	White bass
3353	0-7836 (134%)	.867	.000-2.092(141%)	0.51	0.21	White crappie

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

KG CAUGHT	95% CI	KG/HOUR	95% CI	KG/HA	AVE KG	SPECIES
286	0-594 (108%)	.056	.000-.121 (118%)	0.04	0.078	All species
45	0-150 (235%)	.006	.000-.013 (131%)	0.01	0.511	Largemouth bass
58	0-241 (318%)	.004	.000-.014 (278%)	0.01	0.271	White bass
183	0-421 (130%)	.046	.000-.111 (138%)	0.03	0.055	White crappie

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

LB CAUGHT	95% CI	LB/HOUR	95% CI	LB/ACRE	AVE LB	SPECIES
629	0-1310 (108%)	.123	.000-.267 (118%)	0.04	0.172	All species
98	0-330 (235%)	.012	.000-.028 (131%)	0.01	1.126	Largemouth bass
127	0-531 (318%)	.008	.000-.034 (318%)	0.01	0.597	White bass
404	0-928 (130%)	.102	.000-.244 (138%)	0.03	0.121	White crappie

