

ILLINOIS NATURAL HISTORY SURVEY  
 CENTER FOR AQUATIC ECOLOGY  
 1992 CREEL SURVEY RESULTS

**1992 CARLTON**  
 71 ACRES  
 REGION 1, DISTRICT 2

STRATIFICATION SUMMARY:

Day creel only.  
 Results cover 01/01/1992 through 11/15/1992  
 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: 392/960 = 40.8%

NUMBER OF INTERVIEWS: 3171

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	12997	11673-14321 ( 10%)	183	164-202 ( 10%)	25%
	HOLIDAY	16987	15547-18427 ( 8%)	239	219-260 ( 8%)	44%
	TOTAL	29984	28028-31940 ( 7%)	422	395-450 ( 7%)	36%
SHORE	WEEKDAY	9336	8084-10588 ( 13%)	131	114-149 ( 13%)	18%
	HOLIDAY	9328	8100-10557 ( 13%)	131	114-149 ( 13%)	33%
	TOTAL	18664	16910-20419 ( 9%)	263	238-288 ( 9%)	25%
BOAT & SHORE	WEEKDAY	22333	20511-24155 ( 8%)	315	289-340 ( 8%)	22%
	HOLIDAY	26315	24422-28208 ( 7%)	371	344-397 ( 7%)	40%
	TOTAL	48649	46021-51276 ( 5%)	685	648-722 ( 5%)	32%

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

# HARVESTED	95% CI	#/HOUR	95% CI	#/HA	#/ACRE	SPECIES
31413	27760-35065 ( 12%)	.596	.512-.681 ( 14%)	1093.24	442.43	All species
5	0-16 (211%)	.000	.000-.000 (211%)	0.18	0.07	Black bullhead
14679	12155-17203 ( 17%)	.306	.244-.369 ( 20%)	510.88	206.75	Black crappie
16384	13759-19010 ( 16%)	.285	.227-.343 ( 20%)	570.22	230.77	Bluegill
64	5-124 ( 92%)	.001	.000-.001 (112%)	2.24	0.91	Channel catfish
2	0-5 (220%)	.000	.000-.000 (220%)	0.05	0.02	Green sunfish
157	62-251 ( 60%)	.002	.000-.004 ( 84%)	5.45	2.21	Largemouth bass
8	0-20 (150%)	.000	.000-.000 (206%)	0.28	0.12	Muskellunge
4	0-13 (216%)	.000	.000-.000 (216%)	0.14	0.06	Redear x Green sun
104	57-151 ( 45%)	.002	.001-.003 ( 58%)	3.63	1.47	Redear sunfish
4	0-12 (163%)	.000	.000-.000 (153%)	0.15	0.06	Walleye
**** NOT RECORDED ****						Walleye x Sauger

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

KG HARVESTED	95% CI	KG/HOUR	95% CI	KG/HA	AVE KG	SPECIES
3291	2884-3697 ( 12%)	.062	.053-.071 ( 15%)	114.52	0.105	All species
2	0-8 (211%)	.000	.000-.000 (212%)	0.09	0.490	Black bullhead
1757	1418-2097 ( 19%)	.036	.028-.044 ( 21%)	61.16	0.120	Black crappie
1284	1083-1485 ( 16%)	.023	.018-.027 ( 20%)	44.68	0.078	Bluegill
45	9-81 ( 80%)	.000	.000-.001 ( 98%)	1.56	0.702	Channel catfish
0	0-0 (220%)	.000	.000-.000 (220%)	0.00	0.112	Green sunfish
143	73-212 ( 49%)	.002	.001-.003 ( 58%)	4.97	0.916	Largemouth bass
31	0-83 (165%)	.000	.000-.001 (173%)	1.09	3.897	Muskellunge
0	0-1 (216%)	.000	.000-.000 (214%)	0.01	0.069	Redear x Green sun
17	9-25 ( 47%)	.000	.000-.001 ( 62%)	0.59	0.164	Redear sunfish
10	0-28 (165%)	.000	.000-.000 (153%)	0.36	2.604	Walleye
**** NOT RECORDED ****						Walleye x Sauger

1992 CARLTON

DAY CREEL

01/01/1992 - 11/15/1992

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

LB HARVESTED	95% CI		LB/HOUR	95% CI	LB/ACRE	AVE LB	SPECIES
7255	6358-8151	( 12%)	.136	.116-.156 ( 15%)	102.18	0.231	All species
5	0-17	(211%)	.000	.000-.000 (212%)	0.08	1.080	Black bullhead
3875	3125-4624	( 19%)	.080	.063-.097 ( 21%)	54.57	0.264	Black crappie
2831	2387-3274	( 16%)	.050	.040-.060 ( 20%)	39.87	0.173	Bluegill
99	20-178	( 80%)	.001	.000-.002 ( 98%)	1.40	1.548	Channel catfish
0	0-1	(220%)	.000	.000-.000 (220%)	0.00	0.246	Green sunfish
315	161-468	( 49%)	.004	.002-.006 ( 58%)	4.43	2.018	Largemouth bass
69	0-182	(165%)	.001	.000-.002 (173%)	0.97	8.592	Muskellunge
1	0-2	(216%)	.000	.000-.000 (214%)	0.01	0.152	Redear x Green sun
38	20-55	( 47%)	.001	.000-.001 ( 62%)	0.53	0.362	Redear sunfish
23	0-61	(165%)	.000	.000-.001 (153%)	0.32	5.741	Walleye
			****	NOT RECORDED	****		Walleye x Sauger

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
88832	81395-96270 ( 8%)	1.699	1.498-1.900 ( 12%)	3091.62	1251.16	All species
5	0-16 (211%)	.000	.000-.000 (211%)	0.18	0.07	Black bullhead
20710	17409-24012 ( 16%)	.447	.364-.531 ( 19%)	720.78	291.70	Black crappie
63148	57134-69163 ( 10%)	1.144	.965-1.324 ( 16%)	2197.74	889.41	Bluegill
99	27-170 ( 73%)	.001	.000-.002 ( 84%)	3.43	1.39	Channel catfish
8	0-19 (148%)	.001	.000-.002 (194%)	0.26	0.11	Green sunfish
4160	3590-4731 ( 14%)	.087	.066-.109 ( 25%)	144.79	58.60	Largemouth bass
123	26-220 ( 79%)	.002	.000-.003 ( 94%)	4.28	1.73	Muskellunge
4	0-13 (216%)	.000	.000-.000 (216%)	0.14	0.06	Redear x Green sun
130	65-195 ( 50%)	.002	.001-.003 ( 55%)	4.54	1.84	Redear sunfish
383	229-537 ( 40%)	.014	.000-.034 (144%)	13.34	5.40	Walleye
57	0-131 (130%)	.000	.000-.001 (164%)	1.99	0.80	Walleye x Sauger

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

KG CAUGHT	95% CI	KG/HOUR	95% CI	KG/HA	AVE KG	SPECIES
7381	6617-8145 ( 10%)	.138	.123-.153 ( 11%)	256.87	0.083	All species
2	0-8 (211%)	.000	.000-.000 (212%)	0.09	0.490	Black bullhead
2245	1843-2647 ( 18%)	.048	.038-.057 ( 20%)	78.13	0.108	Black crappie
3294	2963-3625 ( 10%)	.061	.052-.069 ( 14%)	114.65	0.052	Bluegill
51	14-88 ( 73%)	.000	.000-.001 ( 91%)	1.77	0.519	Channel catfish
1	0-1 (138%)	.000	.000-.000 (194%)	0.02	0.086	Green sunfish
1359	1151-1566 ( 15%)	.023	.019-.027 ( 18%)	47.28	0.327	Largemouth bass
360	25-695 ( 93%)	.004	.000-.009 (110%)	12.53	2.952	Muskellunge
0	0-1 (216%)	.000	.000-.000 (214%)	0.01	0.069	Redear x Green sun
20	10-30 ( 49%)	.000	.000-.001 ( 60%)	0.71	0.157	Redear sunfish
47	20-74 ( 57%)	.001	.000-.002 ( 87%)	1.64	0.123	Walleye
1	0-3 (119%)	.000	.000-.000 (156%)	0.04	0.023	Walleye x Sauger

1992 CARLTON

DAY CREEL

01/01/1992 - 11/15/1992

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

LB CAUGHT	95% CI	LB/HOUR	95% CI	LB/ACRE	AVE LB	SPECIES
16272	14587-17956 ( 10%)	.304	.271-.337 ( 11%)	229.18	0.183	All species
5	0-17 (211%)	.000	.000-.000 (212%)	0.08	1.080	Black bullhead
4949	4064-5835 ( 18%)	.105	.085-.126 ( 20%)	69.71	0.239	Black crappie
7262	6533-7991 ( 10%)	.133	.115-.152 ( 14%)	102.29	0.115	Bluegill
112	30-195 ( 73%)	.001	.000-.002 ( 91%)	1.58	1.145	Channel catfish
1	0-3 (138%)	.000	.000-.000 (194%)	0.02	0.191	Green sunfish
2995	2538-3452 ( 15%)	.051	.042-.060 ( 18%)	42.18	0.720	Largemouth bass
794	56-1532 ( 93%)	.010	.000-.021 (110%)	11.18	6.508	Muskellunge
1	0-2 (216%)	.000	.000-.000 (214%)	0.01	0.152	Redear x Green sun
45	23-67 ( 49%)	.001	.000-.001 ( 60%)	0.63	0.346	Redear sunfish
104	45-163 ( 57%)	.002	.000-.004 ( 87%)	1.46	0.271	Walleye
3	0-6 (119%)	.000	.000-.000 (156%)	0.04	0.050	Walleye x Sauger

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STRATIFICATION SUMMARY:

Day creel only.  
 Results cover 03/15/1992 through 06/15/1992  
 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: 140/279 = 50.2%

NUMBER OF INTERVIEWS: 1285

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	4481	3599-5362 ( 20%)	63	51-76 ( 20%)	29%
	HOLIDAY	6034	5046-7023 ( 16%)	85	71-99 ( 16%)	52%
	TOTAL	10515	9221-11809 ( 12%)	148	130-166 ( 12%)	42%
SHORE	WEEKDAY	3596	2833-4359 ( 21%)	51	40-61 ( 21%)	21%
	HOLIDAY	3720	3033-4406 ( 18%)	52	43-62 ( 18%)	38%
	TOTAL	7316	6331-8300 ( 13%)	103	89-117 ( 13%)	30%
BOAT & SHORE	WEEKDAY	8077	6930-9223 ( 14%)	114	98-130 ( 14%)	25%
	HOLIDAY	9754	8601-10907 ( 12%)	137	121-154 ( 12%)	47%
	TOTAL	17830	16204-19456 ( 9%)	251	228-274 ( 9%)	37%

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

# HARVESTED	95% CI		#/HOUR	95% CI	#/HA	#/ACRE	SPECIES
8722	7154-10290	( 18%)	.448	.352-.544 ( 21%)	303.56	122.85	All species
3904	3009-4799	( 23%)	.247	.178-.316 ( 28%)	135.87	54.99	Black crappie
4689	3431-5947	( 27%)	.195	.120-.270 ( 38%)	163.19	66.04	Bluegill
2	0-10	(430%)	.000	.000-.000 (318%)	0.07	0.03	Channel catfish
2	0-5	(220%)	.000	.000-.001 (220%)	0.05	0.02	Green sunfish
98	48-149	( 51%)	.004	.002-.007 ( 62%)	3.42	1.38	Largemouth bass
4	0-13	(245%)	.000	.000-.001 (245%)	0.13	0.05	Muskellunge
24	4-43	( 84%)	.001	.000-.002 (105%)	0.82	0.33	Redear sunfish
			****	NOT RECORDED	****		Walleye

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

KG HARVESTED	95% CI		KG/HOUR	95% CI	KG/HA	AVE KG	SPECIES
926	772-1079	( 17%)	.049	.039-.058 ( 20%)	32.21	0.106	All species
436	336-536	( 23%)	.028	.020-.035 ( 28%)	15.18	0.112	Black crappie
359	266-451	( 26%)	.015	.009-.021 ( 38%)	12.48	0.076	Bluegill
0	0-1	(430%)	.000	.000-.000 (430%)	0.01	0.260	Channel catfish
0	0-0	(220%)	.000	.000-.000 (220%)	0.00	0.112	Green sunfish
118	51-185	( 57%)	.005	.002-.008 ( 69%)	4.10	1.201	Largemouth bass
9	0-32	(257%)	.001	.000-.003 (245%)	0.31	2.953	Muskellunge
4	1-7	( 83%)	.000	.000-.000 (108%)	0.14	0.170	Redear sunfish
			****	NOT RECORDED	****		Walleye

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

LB HARVESTED	95% CI		LB/HOUR	95% CI	LB/ACRE	AVE LB	SPECIES
2041	1703-2378	( 17%)	.107	.086-.128 ( 20%)	28.74	0.234	All species
961	740-1182	( 23%)	.061	.044-.078 ( 28%)	13.54	0.246	Black crappie
791	587-994	( 26%)	.033	.021-.046 ( 38%)	11.13	0.169	Bluegill
1	0-3	(430%)	.000	.000-.000 (318%)	0.01	0.573	Channel catfish
0	0-1	(220%)	.000	.000-.000 (218%)	0.00	0.246	Green sunfish
260	112-407	( 57%)	.011	.003-.018 ( 69%)	3.66	2.649	Largemouth bass
20	0-70	(257%)	.002	.000-.006 (245%)	0.28	6.511	Muskellunge
9	1-16	( 83%)	.000	.000-.001 (108%)	0.12	0.376	Redear sunfish
			****	NOT RECORDED	****		Walleye

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
28427	24971-31883 ( 12%)	1.546	1.189-1.904 ( 23%)	989.34	400.38	All species
6332	5050-7614 ( 20%)	.476	.294-.658 ( 38%)	220.37	89.18	Black crappie
20753	17749-23756 ( 14%)	.982	.643-1.320 ( 34%)	722.25	292.29	Bluegill
2	0-10 (430%)	.000	.000-.000 (318%)	0.07	0.03	Channel catfish
3	0-7 (155%)	.000	.000-.001 (207%)	0.09	0.04	Green sunfish
1231	972-1490 ( 21%)	.084	.053-.114 ( 37%)	42.84	17.34	Largemouth bass
28	5-50 ( 82%)	.001	.000-.002 (106%)	0.97	0.39	Muskellunge
50	0-102 (106%)	.002	.000-.003 ( 85%)	1.72	0.70	Redear sunfish
30	0-64 (116%)	.002	.000-.005 (143%)	1.03	0.42	Walleye

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

KG CAUGHT	95% CI	KG/HOUR	95% CI	KG/HA	AVE KG	SPECIES
2134	1865-2402 ( 13%)	.120	.098-.141 ( 18%)	74.25	0.075	All species
629	502-757 ( 20%)	.047	.029-.065 ( 38%)	21.91	0.099	Black crappie
866	730-1003 ( 16%)	.041	.029-.053 ( 29%)	30.16	0.042	Bluegill
0	0-1 (430%)	.000	.000-.000 (430%)	0.01	0.260	Channel catfish
0	0-1 (168%)	.000	.000-.000 (200%)	0.01	0.123	Green sunfish
546	417-674 ( 24%)	.029	.021-.037 ( 27%)	19.00	0.444	Largemouth bass
82	10-153 ( 88%)	.002	.000-.004 (101%)	2.84	3.020	Muskellunge
7	0-14 ( 97%)	.000	.000-.001 ( 91%)	0.25	0.148	Redear sunfish
3	0-8 (213%)	.000	.000-.001 (247%)	0.09	0.087	Walleye

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

LB CAUGHT	95% CI	LB/HOUR	95% CI	LB/ACRE	AVE LB	SPECIES
4704	4113-5295 ( 13%)	.264	.216-.312 ( 18%)	66.25	0.165	All species
1388	1107-1668 ( 20%)	.104	.064-.144 ( 38%)	19.54	0.219	Black crappie
1910	1610-2211 ( 16%)	.091	.065-.117 ( 29%)	26.90	0.092	Bluegill
1	0-3 (430%)	.000	.000-.000 (318%)	0.01	0.573	Channel catfish
1	0-1 (168%)	.000	.000-.000 (200%)	0.01	0.270	Green sunfish
1203	920-1487 ( 24%)	.063	.046-.081 ( 27%)	16.95	0.978	Largemouth bass
180	22-338 ( 88%)	.005	.000-.010 (101%)	2.53	6.659	Muskellunge
16	0-31 ( 97%)	.001	.000-.001 ( 91%)	0.22	0.326	Redear sunfish
6	0-17 (213%)	.001	.000-.002 (247%)	0.08	0.193	Walleye