

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

**1996 EAST FORK LAKE**  
 935 ACRES  
 REGION 5, DISTRICT 23

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: 330/738 = 44.7%

NUMBER OF INTERVIEWS: 2278

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	25018	20036-29999 ( 20%)	27	21-32 ( 20%)	9%
	HOLIDAY	27803	24145-31461 ( 13%)	30	26-34 ( 13%)	26%
	TOTAL	52820	46958-58683 ( 11%)	56	50-63 ( 11%)	18%
SHORE	WEEKDAY	3841	2047-5634 ( 47%)	4	2-6 ( 47%)	4%
	HOLIDAY	3377	2475-4279 ( 27%)	4	3-5 ( 27%)	8%
	TOTAL	7218	5242-9194 ( 27%)	8	6-10 ( 27%)	6%
BOAT & SHORE	WEEKDAY	28858	23659-34058 ( 18%)	31	25-36 ( 18%)	8%
	HOLIDAY	31180	27412-34948 ( 12%)	33	29-37 ( 12%)	24%
	TOTAL	60038	53882-66195 ( 10%)	64	58-71 ( 10%)	17%

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

# HARVESTED	95% CI		#/HOUR	95% CI	#/HA	#/ACRE	SPECIES
5399	2869-7929	( 47%)	.053	.034-.072 ( 36%)	14.27	5.77	All species
294	68-521	( 77%)	.006	.001-.012 ( 82%)	0.78	0.31	Black crappie
1646	596-2697	( 64%)	.017	.007-.028 ( 62%)	4.35	1.76	Bluegill
180	13-348	( 93%)	.002	.000-.004 ( 92%)	0.48	0.19	Channel catfish
5	0-15	(223%)	.000	.000-.000 (223%)	0.01	0.01	Flathead catfish
27	0-55	(103%)	.000	.000-.000 (118%)	0.07	0.03	Green sunfish
			****	NOT RECORDED ****			Gizzard shad
604	337-871	( 44%)	.004	.002-.007 ( 57%)	1.60	0.65	Largemouth bass
106	0-314	(196%)	.001	.000-.002 (176%)	0.28	0.11	Longear sunfish
440	154-726	( 65%)	.004	.002-.007 ( 61%)	1.16	0.47	Redear sunfish
82	0-268	(227%)	.001	.000-.003 (252%)	0.22	0.09	Walleye
48	0-108	(126%)	.001	.000-.001 (140%)	0.13	0.05	Warmouth
1821	230-3412	( 87%)	.012	.002-.023 ( 86%)	4.81	1.95	White crappie
146	0-352	(142%)	.003	.000-.007 (127%)	0.38	0.16	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
1863	1042-2684	( 44%)	.018	.009-.028 ( 54%)	4.92	0.345	All species
47	14-80	( 70%)	.001	.000-.002 ( 85%)	0.12	0.160	Black crappie
159	58-260	( 63%)	.002	.001-.003 ( 71%)	0.42	0.097	Bluegill
234	64-404	( 73%)	.003	.000-.007 (101%)	0.62	1.295	Channel catfish
1	0-5	(223%)	.000	.000-.000 (223%)	0.00	0.312	Flathead catfish
3	0-7	(100%)	.000	.000-.000 (122%)	0.01	0.123	Green sunfish
			****	NOT RECORDED ****			Gizzard shad
774	398-1149	( 49%)	.006	.002-.009 ( 57%)	2.04	1.281	Largemouth bass
7	0-16	(149%)	.000	.000-.000 (202%)	0.02	0.062	Longear sunfish
65	27-103	( 58%)	.001	.000-.001 ( 60%)	0.17	0.148	Redear sunfish
224	0-759	(238%)	.003	.000-.009 (253%)	0.59	2.733	Walleye
8	0-18	(117%)	.000	.000-.000 (148%)	0.02	0.177	Warmouth
273	68-477	( 75%)	.002	.001-.003 ( 69%)	0.72	0.150	White crappie
68	0-156	(131%)	.002	.000-.004 (132%)	0.18	0.464	Yellow bullhead

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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
4107	2298-5916	( 44%)	.041	.019-.063 ( 54%)	4.39	0.761	All species
104	31-177	( 70%)	.002	.000-.004 ( 85%)	0.11	0.353	Black crappie
350	128-572	( 63%)	.004	.001-.007 ( 71%)	0.37	0.213	Bluegill
515	140-890	( 73%)	.007	.000-.015 (101%)	0.55	2.856	Channel catfish
3	0-11	(226%)	.000	.000-.000 (223%)	0.00	0.688	Flathead catfish
7	0-15	(100%)	.000	.000-.000 (122%)	0.01	0.270	Green sunfish
			****	NOT RECORDED ****			Gizzard shad
1706	878-2534	( 49%)	.013	.005-.020 ( 57%)	1.82	2.825	Largemouth bass
14	0-36	(149%)	.000	.000-.000 (202%)	0.02	0.136	Longear sunfish
144	60-228	( 58%)	.001	.001-.002 ( 60%)	0.15	0.326	Redear sunfish
495	0-1674	(238%)	.006	.000-.020 (253%)	0.53	6.026	Walleye
19	0-40	(117%)	.000	.000-.001 (148%)	0.02	0.391	Warmouth
601	149-1053	( 75%)	.004	.001-.006 ( 69%)	0.64	0.330	White crappie
149	0-343	(131%)	.004	.000-.008 (132%)	0.16	1.023	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
17025	12484-21566 ( 27%)	.164	.128-.199 ( 22%)	44.99	18.21	All species
728	30-1426 ( 96%)	.011	.003-.019 ( 70%)	1.92	0.78	Black crappie
3440	1838-5042 ( 47%)	.036	.018-.054 ( 51%)	9.09	3.68	Bluegill
243	61-424 ( 75%)	.002	.001-.004 ( 79%)	0.64	0.26	Channel catfish
5	0-15 (223%)	.000	.000-.000 (223%)	0.01	0.01	Flathead catfish
28	0-56 (100%)	.000	.000-.000 (115%)	0.07	0.03	Green sunfish
10	0-23 (132%)	.000	.000-.000 (134%)	0.03	0.01	Gizzard shad
8399	6921-9877 ( 18%)	.077	.060-.095 ( 23%)	22.20	8.98	Largemouth bass
106	0-314 (196%)	.001	.000-.002 (176%)	0.28	0.11	Longear sunfish
736	274-1197 ( 63%)	.009	.001-.017 ( 87%)	1.94	0.79	Redear sunfish
92	0-279 (204%)	.001	.000-.003 (246%)	0.24	0.10	Walleye
50	0-111 (120%)	.001	.000-.001 (136%)	0.13	0.05	Warmouth
2871	611-5131 ( 79%)	.021	.001-.041 ( 97%)	7.59	3.07	White crappie
317	32-602 ( 90%)	.004	.000-.008 (104%)	0.84	0.34	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
6890	5565-8215 ( 19%)	.063	.050-.076 ( 21%)	18.21	0.405	All species
87	28-146 ( 68%)	.001	.000-.002 ( 67%)	0.23	0.120	Black crappie
231	121-342 ( 48%)	.003	.001-.004 ( 61%)	0.61	0.067	Bluegill
295	104-486 ( 65%)	.004	.000-.007 ( 90%)	0.78	1.217	Channel catfish
1	0-5 (223%)	.000	.000-.000 (223%)	0.00	0.312	Flathead catfish
4	0-7 ( 95%)	.000	.000-.000 (118%)	0.01	0.124	Green sunfish
1	0-2 (147%)	.000	.000-.000 (133%)	0.00	0.088	Gizzard shad
5462	4465-6458 ( 18%)	.047	.037-.057 ( 22%)	14.43	0.650	Largemouth bass
7	0-16 (149%)	.000	.000-.000 (202%)	0.02	0.062	Longear sunfish
107	33-181 ( 69%)	.001	.000-.003 (102%)	0.28	0.145	Redear sunfish
231	0-766 (232%)	.003	.000-.009 (252%)	0.61	2.514	Walleye
9	0-19 (114%)	.000	.000-.000 (146%)	0.02	0.172	Warmouth
333	103-562 ( 69%)	.002	.001-.004 ( 71%)	0.88	0.116	White crappie
123	17-229 ( 86%)	.002	.000-.004 (112%)	0.32	0.387	Yellow bullhead

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

LB CAUGHT	95% CI		LB/HOUR	95% CI	LB/ACRE	AVE LB	SPECIES
15190	12269-18111	( 19%)	.138	.110-.167 ( 21%)	16.25	0.892	All species
192	62-323	( 68%)	.003	.001-.005 ( 67%)	0.21	0.264	Black crappie
510	266-754	( 48%)	.006	.002-.010 ( 61%)	0.55	0.148	Bluegill
651	230-1072	( 65%)	.008	.001-.016 ( 90%)	0.70	2.682	Channel catfish
3	0-11	(226%)	.000	.000-.000 (223%)	0.00	0.688	Flathead catfish
8	0-15	( 95%)	.000	.000-.000 (118%)	0.01	0.274	Green sunfish
2	0-5	(147%)	.000	.000-.000 (133%)	0.00	0.193	Gizzard shad
12041	9844-14238	( 18%)	.103	.081-.125 ( 22%)	12.88	1.434	Largemouth bass
14	0-36	(149%)	.000	.000-.000 (202%)	0.02	0.136	Longear sunfish
236	73-398	( 69%)	.003	.000-.006 (102%)	0.25	0.320	Redear sunfish
509	0-1689	(232%)	.006	.000-.020 (252%)	0.54	5.543	Walleye
19	0-41	(114%)	.000	.000-.001 (146%)	0.02	0.379	Warmouth
734	228-1240	( 69%)	.005	.001-.008 ( 71%)	0.79	0.256	White crappie
270	37-504	( 86%)	.004	.000-.009 (112%)	0.29	0.854	Yellow bullhead

Table 8. Hours per completed trip and supplementary questions for all trips.

	MEAN	95% CI		MIN	MAX	#SAMPLES
HOURS PER COMPLETED TRIP*						
BOAT	5.3	5.1-5.5	( 3%)	0.7	11.8	911
SHORE	2.1	1.5-2.7	( 28%)	0.4	6.7	18
BOAT & SHORE	5.2	5.1-5.4	( 3%)	0.4	11.8	929
MILES TRAVELED	70.0	64.7-75.3	( 8%)	1	900	1304
SUCCESS RATING (1-10)	4.3	4.1-4.4	( 3%)	1	10	1285

\*702 samples were from split interviews of completed trips.  
62.0% of all 1498 interviews were completed trips.

ILLEGAL HARVEST: Clerk noted 4 out of 1498 interviews with illegal harvests.

Table 9. Frequency distribution of angler party size for all interviews.

PARTY SIZE:	1	2	3	4	5	6	7	8	9	10+
BOAT INTERVIEWS	512	764	91	21	1					
SHORE INTERVIEWS	39	36	22	7	4	1				

Table 10. Number of interviews (and %) per species sought for all interviews.

194 ( 13.0%)	ANY	All species
193 ( 12.9%)	BLG	Bluegill
20 ( 1.3%)	BSS	Black bass spp.
6 ( 0.4%)	CAT	Unidentified catfish
34 ( 2.3%)	CCF	Channel catfish
164 ( 10.9%)	CRP	Crappie spp.
853 ( 56.9%)	LMB	Largemouth bass
11 ( 0.7%)	SUN	Sunfish spp. excluding Crappie and Black Bass
5 ( 0.3%)	WAE	Walleye
18 ( 1.2%)	WHC	White crappie

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Table 11. Number of anglers with a given harvest &amp; release for completed trips

# OF FISH:	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15+
Black crappie																
HARVEST	1601	10	6	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	1581	26	10	-	-	-	-	-	-	-	-	-	-	-	-	-
Bluegill																
HARVEST	1588	12	10	6	1	-	-	-	-	-	-	-	-	-	-	-
RELEASE	1550	50	10	5	2	-	-	-	-	-	-	-	-	-	-	-
Channel catfish																
HARVEST	1600	17	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	1608	9	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Flathead catfish																
HARVEST	1617	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	1617	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Green sunfish																
HARVEST	1607	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	1616	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Gizzard shad																
HARVEST	1617	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	1615	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Largemouth bass																
HARVEST	1570	32	13	2	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	1059	297	142	65	19	12	13	4	1	-	2	2	1	-	-	-
Longear sunfish																
HARVEST	1612	2	3	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	1617	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Redear sunfish																
HARVEST	1585	17	11	3	-	-	1	-	-	-	-	-	-	-	-	-
RELEASE	1608	9	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Walleye																
HARVEST	1614	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	1614	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Warmouth																
HARVEST	1614	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	1611	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-
White crappie																
HARVEST	1566	35	12	4	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	1567	35	11	2	1	-	-	-	1	-	-	-	-	-	-	-
Yellow bullhead																



