

ILLINOIS NATURAL HISTORY SURVEY
 CENTER FOR AQUATIC ECOLOGY
 2002 CREEL SURVEY RESULTS

2002 EAST FORK
 935 ACRES
 REGION 5, DISTRICT 19

STRATIFICATION SUMMARY:

Day creel only.
 Results cover 03/15/2002 through 10/31/2002
 Year periods stratified.
 Day types (weekday vs. weekend/holiday) stratified.
 Day periods (morning, midday, and afternoon) stratified.
 Yearperiod 7 coalesced with yearperiod 8.

SAMPLING RATIO: 310/693 = 44.7%

NUMBER OF INTERVIEWS: 2969

Table 1. Total fishing effort, by fishing mode and day type.

FISHING MODE	DAYTYPE	ANGLER-HOURS	95% CI	HOURS/ACRE	95% CI	% EFF
BOAT & SHORE	WEEKDAY	26954	24062-29846 (11%)	29	26-32 (11%)	12%
	HOLIDAY	37429	32476-42381 (13%)	40	35-45 (13%)	26%
	TOTAL	64383	58647-70118 (9%)	69	63-75 (9%)	20%

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

# HARVESTED	95% CI	#/HOUR	95% CI	#/HA	#/ACRE	SPECIES
111909	98216-125602 (12%)	1.725	1.535-1.915 (11%)	295.75	119.69	All species
5	0-17 (218%)	.000	.000-.001 (218%)	0.01	0.01	Blue catfish
141	0-473 (236%)	.000	.000-.001 (245%)	0.37	0.15	Black crappie
67605	55974-79236 (17%)	.889	.742-1.037 (17%)	178.66	72.30	Bluegill
		****	NOT RECORDED ****			Bowfin
309	187-432 (40%)	.007	.003-.011 (53%)	0.82	0.33	Channel catfish
246	113-379 (54%)	.005	.001-.008 (71%)	0.65	0.26	Largemouth bass
255	0-523 (105%)	.004	.000-.009 (105%)	0.67	0.27	Redear sunfish
803	490-1115 (39%)	.009	.004-.015 (57%)	2.12	0.86	Walleye
42545	36684-48406 (14%)	.809	.682-.936 (16%)	112.44	45.50	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
13869	12112-15626 (13%)	.218	.183-.253 (16%)	36.65	0.124	All species
6	0-21 (220%)	.000	.000-.001 (218%)	0.02	1.185	Blue catfish
8	0-28 (245%)	.000	.000-.000 (245%)	0.02	0.058	Black crappie
6801	5603-7998 (18%)	.090	.074-.105 (17%)	17.97	0.101	Bluegill
		****	NOT RECORDED ****			Bowfin
195	117-272 (40%)	.005	.002-.007 (52%)	0.51	0.629	Channel catfish
291	125-456 (57%)	.005	.002-.009 (69%)	0.77	1.181	Largemouth bass
51	2-100 (97%)	.001	.000-.002 (107%)	0.13	0.200	Redear sunfish
499	316-681 (37%)	.006	.003-.009 (52%)	1.32	0.621	Walleye
6019	4880-7157 (19%)	.111	.078-.144 (30%)	15.91	0.141	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
30576	26703-34449 (13%)	.481	.404-.558 (16%)	32.70	0.273	All species
14	0-46 (220%)	.000	.000-.001 (220%)	0.02	2.612	Blue catfish
18	0-62 (245%)	.000	.000-.000 (236%)	0.02	0.128	Black crappie
14993	12353-17632 (18%)	.198	.163-.232 (17%)	16.03	0.222	Bluegill
		****	NOT RECORDED ****			Bowfin
429	258-600 (40%)	.010	.005-.015 (52%)	0.46	1.386	Channel catfish
641	276-1006 (57%)	.012	.004-.020 (69%)	0.69	2.603	Largemouth bass
112	4-221 (97%)	.002	.000-.004 (107%)	0.12	0.441	Redear sunfish
1099	696-1502 (37%)	.013	.006-.020 (52%)	1.18	1.369	Walleye
13269	10760-15779 (19%)	.245	.173-.318 (30%)	14.19	0.312	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
163112	145954-180270 (11%)	2.460	2.262-2.659(8%)	431.07	174.45	All species
5	0-17 (218%)	.000	.000-.001 (218%)	0.01	0.01	Blue catfish
211	0-556 (163%)	.005	.000-.013 (188%)	0.56	0.23	Black crappie
77287	64362-90211 (17%)	1.033	.867-1.200(16%)	204.25	82.66	Bluegill
5	0-15 (220%)	.000	.000-.000 (220%)	0.01	0.00	Bowfin
462	299-626 (35%)	.011	.006-.015 (45%)	1.22	0.49	Channel catfish
25596	22101-29090 (14%)	.360	.316-.405 (12%)	67.64	27.38	Largemouth bass
255	0-523 (105%)	.004	.000-.009 (105%)	0.67	0.27	Redear sunfish
2337	1787-2887 (24%)	.033	.024-.043 (29%)	6.18	2.50	Walleye
56954	48718-65191 (14%)	1.014	.867-1.160(14%)	150.52	60.91	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
32923	29605-36241 (10%)	.488	.448-.529 (8%)	87.01	0.202	All species
6	0-21 (220%)	.000	.000-.001 (218%)	0.02	1.185	Blue catfish
12	0-33 (162%)	.000	.000-.001 (198%)	0.03	0.059	Black crappie
7414	6153-8675 (17%)	.099	.083-.116 (17%)	19.59	0.096	Bluegill
1	0-3 (218%)	.000	.000-.000 (220%)	0.00	0.208	Bowfin
322	191-453 (41%)	.008	.003-.014 (67%)	0.85	0.696	Channel catfish
17056	14567-19544 (15%)	.240	.208-.272 (13%)	45.07	0.666	Largemouth bass
51	2-100 (97%)	.001	.000-.002 (107%)	0.13	0.200	Redear sunfish
996	757-1235 (24%)	.014	.010-.018 (30%)	2.63	0.426	Walleye
7065	5734-8395 (19%)	.126	.092-.160 (27%)	18.67	0.124	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
72583	65269-79897 (10%)	1.077	.988-1.166(8%)	77.63	0.445	All species
14	0-46 (220%)	.000	.000-.001 (220%)	0.02	2.612	Blue catfish
27	0-72 (162%)	.001	.000-.002 (198%)	0.03	0.130	Black crappie
16345	13565-19126 (17%)	.219	.182-.255 (17%)	17.48	0.211	Bluegill
2	0-7 (218%)	.000	.000-.000 (218%)	0.00	0.460	Bowfin
710	421-998 (41%)	.019	.006-.031 (67%)	0.76	1.535	Channel catfish
37601	32114-43088 (15%)	.529	.459-.599 (13%)	40.22	1.469	Largemouth bass
112	4-221 (97%)	.002	.000-.004 (107%)	0.12	0.441	Redear sunfish
2196	1669-2722 (24%)	.030	.021-.039 (30%)	2.35	0.939	Walleye
15575	12641-18509 (19%)	.277	.203-.352 (27%)	16.66	0.273	White crappie

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%)	0.2	12.8	829
SHORE	1.8	1.0-2.6 (44%)	1.2	2.3	4
BOAT & SHORE	5.3	5.1-5.5 (3%)	0.2	12.8	833
MILES TRAVELED	59.3	55.5-63.1 (6%)	1	1100	1828
SUCCESS RATING (1-10)	5.4	5.3-5.5 (2%)	1	10	1802

*612 samples were from split interviews of completed trips.
35.6% of all 2339 interviews were completed trips.

ILLEGAL HARVEST: Clerk noted 0 out of 2339 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	715	1443	140	19						
SHORE INTERVIEWS	12	4	6							

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

368 (15.7%)	ANY	All species
2 (0.1%)	BLC	Black crappie
377 (16.1%)	BLG	Bluegill
9 (0.4%)	CCF	Channel catfish
1095 (46.8%)	LMB	Largemouth bass
103 (4.4%)	WAE	Walleye
385 (16.5%)	WHC	White crappie

2002 EAST FORK

DAY CREEL

03/15/2002 - 10/31/2002

Table 11. Number of anglers with a given harvest & 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	1496	-	-	-	-	3	-	-	-	-	-	-	-	-	-	-
RELEASE	1495	-	3	-	-	-	1	-	-	-	-	-	-	-	-	-
Bluegill																
HARVEST	1298	5	22	11	3	5	12	3	6	8	8	2	1	11	3	101
RELEASE	1367	25	37	32	16	6	4	-	4	-	7	-	-	-	-	1
Channel catfish																
HARVEST	1490	9	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	1492	5	-	-	2	-	-	-	-	-	-	-	-	-	-	-
Largemouth bass																
HARVEST	1486	9	3	1	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	469	67	110	243	292	180	61	31	22	8	7	6	2	1	-	-
Redear sunfish																
HARVEST	1496	2	1	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	1499	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Walleye																
HARVEST	1467	21	7	1	-	-	1	2	-	-	-	-	-	-	-	-
RELEASE	1437	28	14	11	8	1	-	-	-	-	-	-	-	-	-	-
White crappie																
HARVEST	1233	5	18	38	40	16	7	11	12	14	10	7	8	5	6	69
RELEASE	1261	56	50	47	13	17	14	7	11	-	12	-	1	6	-	4