

ILLINOIS NATURAL HISTORY SURVEY  
CENTER FOR AQUATIC ECOLOGY  
2001 CREEL SURVEY RESULTS

**2001 KANKAKEE RIVER**  
**Kankakee Dam**  
13 ACRES  
REGION 2, DISTRICT 9

STRATIFICATION SUMMARY:

Day creel only.  
Results cover 03/15/2001 through 10/31/2001  
Year periods stratified.  
Day types (weekday vs. weekend/holiday) stratified.  
Day periods (morning, midday, and afternoon) stratified.

SAMPLING RATIO: 132/693 = 19.0%

NUMBER OF INTERVIEWS: 492

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	14642	12006-17279 ( 18%)	1135	931-1339 ( 18%)	3%
	HOLIDAY	8181	6943-9418 ( 15%)	634	538-730 ( 15%)	8%
	TOTAL	22823	20000-25646 ( 12%)	1769	1550-1988 ( 12%)	4%

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

# HARVESTED	95% CI	#/HOUR	95% CI	#/HA	#/ACRE	SPECIES
5630	3851-7409 ( 32%)	.259	.180-.338 ( 31%)	1078.48	436.46	All species
103	0-246 (139%)	.005	.000-.016 (228%)	19.67	7.96	Black crappie
113	0-597 (430%)	.005	.000-.070 (1271%)	21.56	8.72	Bluegill
660	65-1255 ( 90%)	.027	.006-.048 ( 79%)	126.46	51.18	Carp
1816	1014-2619 ( 44%)	.073	.034-.113 ( 54%)	347.94	140.81	Channel catfish
107	0-520 (386%)	.003	.000-.013 (379%)	20.46	8.28	Flathead catfish
34	0-123 (259%)	.001	.000-.005 (251%)	6.57	2.66	Freshwater drum
		****	NOT RECORDED ****			Longnose gar
		****	NOT RECORDED ****			Northern pike
923	319-1528 ( 65%)	.044	.015-.074 ( 67%)	176.83	71.56	Rock bass
		****	NOT RECORDED ****			Smallmouth buffalo
1204	392-2016 ( 67%)	.054	.022-.087 ( 60%)	230.62	93.33	Smallmouth bass
466	0-2647 (468%)	.033	.000-.194 (490%)	89.23	36.11	Walleye
160	0-604 (278%)	.012	.000-.050 (321%)	30.63	12.40	White crappie
44	0-194 (337%)	.001	.000-.006 (343%)	8.50	3.44	White sucker

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

KG HARVESTED	95% CI	KG/HOUR	95% CI	KG/HA	AVE KG	SPECIES
3786	2124-5447 ( 44%)	.182	.030-.334 ( 84%)	725.19	0.672	All species
53	0-147 (176%)	.002	.000-.005 (138%)	10.22	0.520	Black crappie
5	0-27 (430%)	.000	.000-.003 (1271%)	0.96	0.044	Bluegill
928	150-1706 ( 84%)	.038	.007-.070 ( 82%)	177.77	1.406	Carp
1093	622-1565 ( 43%)	.048	.025-.071 ( 48%)	209.40	0.602	Channel catfish
53	0-269 (407%)	.001	.000-.006 (402%)	10.17	0.497	Flathead catfish
15	0-54 (259%)	.001	.000-.002 (251%)	2.85	0.435	Freshwater drum
		****	NOT RECORDED ****			Longnose gar
		****	NOT RECORDED ****			Northern pike
221	81-362 ( 64%)	.011	.003-.020 ( 76%)	42.38	0.240	Rock bass
		****	NOT RECORDED ****			Smallmouth buffalo
756	307-1205 ( 59%)	.035	.017-.053 ( 52%)	144.83	0.628	Smallmouth bass
588	0-5716 (872%)	.040	.000-.393 (879%)	112.63	1.262	Walleye
40	0-156 (289%)	.003	.000-.013 (322%)	7.69	0.251	White crappie
33	0-158 (383%)	.001	.000-.005 (387%)	6.28	0.738	White sucker

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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
8346	4683-12010	( 44%)	.401	.066-.737 ( 84%)	647.01	1.482	All species
118	0-324	(176%)	.005	.000-.012 (138%)	9.12	1.146	Black crappie
11	0-59	(430%)	.000	.000-.007 (1271%)	0.86	0.098	Bluegill
2046	331-3761	( 84%)	.085	.016-.154 ( 82%)	158.61	3.099	Carp
2410	1371-3449	( 43%)	.107	.056-.157 ( 48%)	186.83	1.327	Channel catfish
117	0-593	(407%)	.003	.000-.014 (402%)	9.07	1.096	Flathead catfish
33	0-118	(259%)	.001	.000-.004 (251%)	2.55	0.958	Freshwater drum
			****	NOT RECORDED ****			Longnose gar
			****	NOT RECORDED ****			Northern pike
488	178-798	( 64%)	.025	.006-.044 ( 76%)	37.81	0.528	Rock bass
			****	NOT RECORDED ****			Smallmouth buffalo
1667	677-2657	( 59%)	.077	.037-.117 ( 52%)	129.22	1.384	Smallmouth bass
1296	0-12603	(872%)	.088	.000-.866 (879%)	100.49	2.783	Walleye
89	0-344	(289%)	.007	.000-.029 (322%)	6.86	0.554	White crappie
72	0-349	(383%)	.002	.000-.011 (387%)	5.60	1.628	White sucker

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
14422	11211-17634 ( 22%)	.635	.487-.784 ( 23%)	2762.55	1117.99	All species
108	0-242 (125%)	.005	.000-.016 (224%)	20.60	8.34	Black crappie
327	0-711 (117%)	.012	.000-.030 (157%)	62.62	25.34	Bluegill
1040	428-1652 ( 59%)	.042	.018-.067 ( 58%)	199.26	80.64	Carp
2183	1292-3075 ( 41%)	.089	.047-.130 ( 47%)	418.19	169.24	Channel catfish
107	0-520 (386%)	.003	.000-.013 (379%)	20.46	8.28	Flathead catfish
34	0-123 (259%)	.001	.000-.005 (251%)	6.57	2.66	Freshwater drum
91	0-301 (230%)	.005	.000-.022 (341%)	17.50	7.08	Longnose gar
393	106-681 ( 73%)	.020	.003-.038 ( 86%)	75.35	30.49	Northern pike
2319	955-3683 ( 59%)	.097	.063-.132 ( 36%)	444.17	179.75	Rock bass
3	0-37 (1271%)	.000	.000-.000 (430%)	0.51	0.21	Smallmouth buffalo
6319	4327-8312 ( 32%)	.267	.175-.360 ( 35%)	1210.48	489.88	Smallmouth bass
1293	201-2386 ( 84%)	.080	.000-.165 (106%)	247.70	100.24	Walleye
160	0-604 (278%)	.012	.000-.050 (321%)	30.63	12.40	White crappie
44	0-194 (337%)	.001	.000-.006 (343%)	8.50	3.44	White sucker

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

KG CAUGHT	95% CI	KG/HOUR	95% CI	KG/HA	AVE KG	SPECIES
8402	5633-11171 ( 33%)	.411	.260-.561 ( 37%)	1609.37	0.583	All species
53	0-147 (176%)	.002	.000-.005 (138%)	10.23	0.497	Black crappie
15	0-32 (118%)	.001	.000-.001 (159%)	2.78	0.044	Bluegill
1331	538-2124 ( 60%)	.055	.021-.088 ( 61%)	254.91	1.279	Carp
1228	740-1715 ( 40%)	.053	.030-.076 ( 44%)	235.17	0.562	Channel catfish
53	0-269 (407%)	.001	.000-.006 (402%)	10.17	0.497	Flathead catfish
15	0-54 (259%)	.001	.000-.002 (251%)	2.85	0.435	Freshwater drum
256	0-833 (225%)	.013	.000-.044 (234%)	49.05	2.803	Longnose gar
561	73-1049 ( 87%)	.036	.000-.079 (121%)	107.42	1.426	Northern pike
399	234-564 ( 41%)	.018	.010-.027 ( 47%)	76.41	0.172	Rock bass
8	0-43 (430%)	.000	.000-.001 (430%)	1.54	3.008	Smallmouth buffalo
3133	1319-4946 ( 58%)	.146	.044-.247 ( 69%)	600.09	0.496	Smallmouth bass
1278	0-3542 (177%)	.081	.000-.227 (180%)	244.77	0.988	Walleye
40	0-156 (289%)	.003	.000-.013 (322%)	7.69	0.251	White crappie
33	0-158 (383%)	.001	.000-.005 (387%)	6.28	0.738	White sucker

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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
18523	12419-24627 ( 33%)	.905	.574-1.236 ( 37%)	1435.88	1.284	All species
118	0-325 (176%)	.005	.000-.012 (138%)	9.13	1.095	Black crappie
32	0-70 (118%)	.001	.000-.003 (159%)	2.48	0.098	Bluegill
2934	1185-4683 ( 60%)	.121	.047-.194 ( 61%)	227.43	2.820	Carp
2707	1632-3781 ( 40%)	.117	.065-.168 ( 44%)	209.82	1.240	Channel catfish
117	0-593 (407%)	.003	.000-.014 (402%)	9.07	1.096	Flathead catfish
33	0-118 (259%)	.001	.000-.004 (251%)	2.55	0.958	Freshwater drum
565	0-1836 (225%)	.029	.000-.096 (234%)	43.76	6.181	Longnose gar
1236	160-2313 ( 87%)	.078	.000-.174 (121%)	95.84	3.143	Northern pike
879	516-1243 ( 41%)	.040	.022-.059 ( 47%)	68.17	0.379	Rock bass
18	0-94 (430%)	.000	.000-.003 (430%)	1.37	6.631	Smallmouth buffalo
6907	2908-10905 ( 58%)	.321	.098-.545 ( 69%)	535.40	1.093	Smallmouth bass
2817	0-7808 (177%)	.178	.000-.500 (180%)	218.38	2.179	Walleye
89	0-344 (289%)	.007	.000-.029 (322%)	6.86	0.554	White crappie
72	0-349 (383%)	.002	.000-.011 (387%)	5.60	1.628	White sucker

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

	MEAN	95% CI	MIN	MAX	#SAMPLES
HOURS PER COMPLETED TRIP*					
BOAT	1.2 ***	undefined ***	1.2	1.2	1
SHORE	1.7	1.5-1.9 ( 11%)	0.5	11.0	259
BOAT & SHORE	1.7	1.5-1.9 ( 11%)	0.5	11.0	260
MILES TRAVELED	7.8	6.6-8.9 ( 15%)	1	70	437
SUCCESS RATING (1-10)	3.0	2.8-3.3 ( 8%)	1	10	416

\*38 samples were from split interviews of completed trips.  
57.3% of all 454 interviews were completed trips.

ILLEGAL HARVEST: Clerk noted 6 out of 454 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		2								
SHORE INTERVIEWS	306	107	22	13	1	2	1			

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

277 ( 61.0%)	ANY	All species
5 ( 1.1%)	BSS	Black bass spp.
6 ( 1.3%)	CAP	Carp
23 ( 5.1%)	CAT	Unidentified catfish
37 ( 8.1%)	CCF	Channel catfish
5 ( 1.1%)	NOP	Northern pike
14 ( 3.1%)	ROB	Rock bass
59 ( 13.0%)	SMB	Smallmouth bass
28 ( 6.2%)	WAE	Walleye

