

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

**2001 KANKAKEE RIVER**  
**Wilmington Dam**  
 21 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.  
 Yearperiod 3 coalesced with yearperiod 4.  
 Yearperiod 8 coalesced with yearperiod 9.

SAMPLING RATIO: 131/693 = 18.9%

NUMBER OF INTERVIEWS: 420

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	15978	13007-18949 ( 19%)	757	616-898 ( 19%)	3%
	HOLIDAY	14548	10832-18264 ( 26%)	689	513-866 ( 26%)	5%
	TOTAL	30526	25961-35091 ( 15%)	1447	1230-1663 ( 15%)	4%

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

# HARVESTED	95% CI		#/HOUR	95% CI	#/HA	#/ACRE	SPECIES
4281	2595-5966	( 39%)	.109	.044-.173 ( 59%)	501.31	202.88	All species
108	0-573	(430%)	.006	.000-.076 (1271%)	12.65	5.12	Black bullhead
24	0-99	(318%)	.000	.000-.001 (318%)	2.76	1.12	Bluegill
528	0-1084	(105%)	.007	.000-.016 (124%)	61.79	25.00	Carp
1962	834-3089	( 57%)	.052	.003-.101 ( 94%)	229.72	92.97	Channel catfish
24	0-129	(430%)	.000	.000-.001 (430%)	2.84	1.15	Flathead catfish
1204	452-1955	( 62%)	.021	.003-.038 ( 84%)	140.95	57.04	Freshwater drum
18	0-248	(1271%)	.000	.000-.003 (1271%)	2.12	0.86	Largemouth bass
			****	NOT RECORDED ****			Longnose gar
			****	NOT RECORDED ****			Northern pike
77	0-290	(278%)	.005	.000-.017 (278%)	8.99	3.64	Rock bass
			****	NOT RECORDED ****			River carpsucker
12	0-49	(318%)	.000	.000-.002 (430%)	1.38	0.56	Striped bass x Whit
186	0-374	(102%)	.008	.000-.017 (123%)	21.76	8.80	Smallmouth bass
140	6-273	( 95%)	.010	.000-.021 (114%)	16.34	6.61	Walleye
			****	NOT RECORDED ****			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
3084	1958-4209	( 37%)	.078	.049-.107 ( 37%)	361.11	0.720	All species
10	0-52	(430%)	.001	.000-.007 (1271%)	1.15	0.091	Black bullhead
2	0-12	(430%)	.000	.000-.000 (318%)	0.26	0.092	Bluegill
554	0-1173	(112%)	.007	.000-.015 (107%)	64.86	1.050	Carp
1192	571-1812	( 52%)	.037	.012-.062 ( 68%)	139.56	0.608	Channel catfish
29	0-401	(1271%)	.000	.000-.002 (430%)	3.43	1.205	Flathead catfish
877	134-1621	( 85%)	.012	.004-.021 ( 71%)	102.75	0.729	Freshwater drum
7	0-37	(430%)	.000	.000-.001 (1271%)	0.83	0.390	Largemouth bass
			****	NOT RECORDED ****			Longnose gar
			****	NOT RECORDED ****			Northern pike
19	0-78	(318%)	.001	.000-.004 (278%)	2.18	0.242	Rock bass
			****	NOT RECORDED ****			River carpsucker
45	0-240	(430%)	.001	.000-.006 (318%)	5.31	3.838	Striped bass x Whit
189	0-423	(124%)	.008	.000-.021 (149%)	22.18	1.020	Smallmouth bass
159	0-343	(116%)	.010	.000-.021 (107%)	18.60	1.138	Walleye
			****	NOT RECORDED ****			White sucker

2001 KANKAKEE RIVER  
Wilmington Dam

DAY CREEL SECTION 2

03/15/2001 - 10/31/2001

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

LB HARVESTED	95% CI		LB/HOUR	95% CI	LB/ACRE	AVE LB	SPECIES
6798	4316-9280	( 37%)	.173	.109-.237 ( 37%)	322.18	1.588	All species
22	0-115	(430%)	.001	.000-.015 (1271%)	1.03	0.201	Black bullhead
5	0-20	(318%)	.000	.000-.000 (430%)	0.23	0.204	Bluegill
1221	0-2586	(112%)	.016	.000-.033 (107%)	57.87	2.314	Carp
2627	1259-3995	( 52%)	.081	.026-.136 ( 68%)	124.51	1.339	Channel catfish
64	0-342	(430%)	.001	.000-.009 (1271%)	3.06	2.657	Flathead catfish
1934	295-3574	( 85%)	.027	.008-.047 ( 71%)	91.67	1.607	Freshwater drum
16	0-83	(430%)	.000	.000-.002 (1271%)	0.74	0.860	Largemouth bass
			****	NOT RECORDED ****			Longnose gar
			****	NOT RECORDED ****			Northern pike
41	0-155	(278%)	.002	.000-.009 (278%)	1.94	0.533	Rock bass
			****	NOT RECORDED ****			River carpsucker
100	0-418	(318%)	.003	.000-.013 (318%)	4.73	8.462	Striped bass x Whit
418	0-933	(124%)	.019	.000-.046 (149%)	19.79	2.248	Smallmouth bass
350	0-756	(116%)	.022	.000-.046 (107%)	16.60	2.510	Walleye
			****	NOT RECORDED ****			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
16044	12362-19727 ( 23%)	.604	.482-.725 ( 20%)	1878.93	760.39	All species
157	0-666 (325%)	.006	.000-.030 (396%)	18.33	7.42	Black bullhead
492	15-968 ( 97%)	.013	.000-.027 (104%)	57.59	23.30	Bluegill
1336	0-2723 (104%)	.027	.005-.050 ( 83%)	156.46	63.32	Carp
3138	1702-4574 ( 46%)	.117	.070-.165 ( 41%)	367.50	148.73	Channel catfish
78	0-223 (185%)	.001	.000-.003 (191%)	9.17	3.71	Flathead catfish
4492	2509-6475 ( 44%)	.117	.063-.170 ( 46%)	526.09	212.91	Freshwater drum
154	0-375 (144%)	.003	.000-.008 (164%)	18.00	7.28	Largemouth bass
94	0-271 (190%)	.005	.000-.016 (230%)	10.95	4.43	Longnose gar
46	0-131 (184%)	.004	.000-.013 (207%)	5.41	2.19	Northern pike
485	118-853 ( 76%)	.027	.008-.046 ( 71%)	56.81	22.99	Rock bass
17	0-58 (245%)	.001	.000-.003 (245%)	1.98	0.80	River carpsucker
22	0-61 (182%)	.001	.000-.002 (182%)	2.55	1.03	Striped bass x Whit
4731	2490-6972 ( 47%)	.229	.154-.303 ( 33%)	554.05	224.22	Smallmouth bass
769	295-1243 ( 62%)	.051	.021-.080 ( 59%)	90.10	36.46	Walleye
34	0-141 (318%)	.002	.000-.008 (318%)	3.95	1.60	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
9382	6707-12057 ( 29%)	.342	.269-.416 ( 22%)	1098.71	0.585	All species
15	0-62 (321%)	.001	.000-.003 (394%)	1.72	0.094	Black bullhead
27	0-60 (121%)	.001	.000-.001 (102%)	3.18	0.055	Bluegill
1323	279-2366 ( 79%)	.029	.011-.047 ( 63%)	154.92	0.990	Carp
1541	931-2151 ( 40%)	.054	.031-.077 ( 43%)	180.44	0.491	Channel catfish
47	0-156 (231%)	.001	.000-.002 (198%)	5.52	0.602	Flathead catfish
2725	1223-4227 ( 55%)	.067	.032-.101 ( 51%)	319.11	0.607	Freshwater drum
35	0-83 (138%)	.001	.000-.002 (155%)	4.09	0.227	Largemouth bass
534	0-1849 (246%)	.007	.000-.020 (185%)	62.57	5.713	Longnose gar
185	0-568 (207%)	.015	.000-.043 (184%)	21.69	4.010	Northern pike
107	22-193 ( 80%)	.006	.002-.010 ( 72%)	12.58	0.222	Rock bass
24	0-84 (245%)	.001	.000-.004 (236%)	2.85	1.443	River carpsucker
57	0-205 (262%)	.002	.000-.007 (256%)	6.63	2.605	Striped bass x Whit
2323	1498-3148 ( 36%)	.132	.088-.177 ( 34%)	272.09	0.491	Smallmouth bass
416	172-659 ( 59%)	.026	.010-.042 ( 62%)	48.70	0.541	Walleye
22	0-84 (278%)	.001	.000-.005 (278%)	2.60	0.659	White sucker

2001 KANKAKEE RIVER  
 Wilmington Dam

DAY CREEL SECTION 2

03/15/2001 - 10/31/2001

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

LB CAUGHT	95% CI	LB/HOUR	95% CI	LB/ACRE	AVE LB	SPECIES
20684	14787-26581 ( 29%)	.755	.592-.917 ( 22%)	980.27	1.289	All species
32	0-137 (321%)	.001	.000-.006 (394%)	1.54	0.207	Black bullhead
60	0-133 (121%)	.001	.000-.002 (102%)	2.84	0.122	Bluegill
2916	616-5217 ( 79%)	.063	.023-.103 ( 63%)	138.22	2.183	Carp
3397	2052-4742 ( 40%)	.118	.067-.169 ( 43%)	160.98	1.082	Channel catfish
104	0-345 (231%)	.001	.000-.003 (198%)	4.93	1.328	Flathead catfish
6007	2697-9318 ( 55%)	.147	.071-.222 ( 51%)	284.71	1.337	Freshwater drum
77	0-183 (138%)	.001	.000-.004 (155%)	3.65	0.501	Largemouth bass
1178	0-4076 (246%)	.016	.000-.045 (185%)	55.83	12.596	Longnose gar
408	0-1253 (207%)	.034	.000-.096 (184%)	19.35	8.840	Northern pike
237	48-426 ( 80%)	.013	.004-.022 ( 72%)	11.23	0.488	Rock bass
54	0-181 (236%)	.003	.000-.009 (245%)	2.55	3.181	River carpsucker
125	0-453 (262%)	.004	.000-.015 (256%)	5.92	5.743	Striped bass x Whit
5122	3303-6941 ( 36%)	.292	.193-.391 ( 34%)	242.76	1.083	Smallmouth bass
917	380-1454 ( 59%)	.058	.022-.093 ( 62%)	43.45	1.192	Walleye
49	0-185 (278%)	.003	.000-.011 (278%)	2.32	1.452	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	0.0	*** undefined ***	100.0	0.0	0
SHORE	1.9	1.7-2.1 ( 9%)	0.2	7.8	256
BOAT & SHORE	1.9	1.7-2.1 ( 9%)	0.2	7.8	256
MILES TRAVELED	15.8	13.8-17.7 ( 12%)	1	150	377
SUCCESS RATING (1-10)	3.1	2.8-3.3 ( 9%)	1	10	369

\*31 samples were from split interviews of completed trips.  
65.8% of all 389 interviews were completed trips.

ILLEGAL HARVEST: Clerk noted 2 out of 389 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										
SHORE INTERVIEWS	240	96	32	12	8	1				

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

240 ( 61.7%)	ANY	All species
17 ( 4.4%)	CAT	Unidentified catfish
40 ( 10.3%)	CCF	Channel catfish
9 ( 2.3%)	ROB	Rock bass
40 ( 10.3%)	SMB	Smallmouth bass
43 ( 11.1%)	WAE	Walleye

2001 KANKAKEE RIVER  
Wilmington Dam

DAY CREEL SECTION 2

03/15/2001 - 10/31/2001

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 bullhead																
HARVEST	415	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	411	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Bluegill																
HARVEST	411	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	409	5	1	-	-	-	-	-	-	-	-	-	-	-	-	-
Carp																
HARVEST	394	20	1	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	391	22	2	-	-	-	-	-	-	-	-	-	-	-	-	-
Channel catfish																
HARVEST	366	39	5	1	2	2	-	-	-	-	-	-	-	-	-	-
RELEASE	399	12	1	1	-	-	1	-	-	-	1	-	-	-	-	-
Flathead catfish																
HARVEST	414	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	414	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-
Freshwater drum																
HARVEST	391	16	6	1	-	1	-	-	-	-	-	-	-	-	-	-
RELEASE	363	40	2	1	8	-	-	-	-	-	-	-	-	-	-	1
Largemouth bass																
HARVEST	415	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	413	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Longnose gar																
HARVEST	415	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	411	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Northern pike																
HARVEST	415	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	414	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Rock bass																
HARVEST	415	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	406	8	1	-	-	-	-	-	-	-	-	-	-	-	-	-
River carpsucker																
HARVEST	415	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	413	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Smallmouth bass																
HARVEST	410	3	2	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	341	48	18	5	1	1	-	-	-	-	-	-	1	-	-	-

