

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

**2002 DAWSON LAKE**  
 148 ACRES  
 REGION 3, DISTRICT 10

STRATIFICATION SUMMARY:

Day creel only.  
 Results cover 03/15/2002 through 10/31/2002  
 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: 262/693 = 37.8%

NUMBER OF INTERVIEWS: 877

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	6398	5372-7424 ( 16%)	43	36-50 ( 16%)	11%
	HOLIDAY	8907	7672-10142 ( 14%)	60	52-69 ( 14%)	23%
	TOTAL	15305	13699-16911 ( 10%)	103	93-114 ( 10%)	18%
SHORE	WEEKDAY	2581	2044-3118 ( 21%)	17	14-21 ( 21%)	15%
	HOLIDAY	2624	2112-3136 ( 20%)	18	14-21 ( 20%)	31%
	TOTAL	5205	4463-5947 ( 14%)	35	30-40 ( 14%)	23%
BOAT & SHORE	WEEKDAY	8979	7821-10138 ( 13%)	61	53-69 ( 13%)	12%
	HOLIDAY	11531	10194-12868 ( 12%)	78	69-87 ( 12%)	25%
	TOTAL	20510	18741-22279 ( 9%)	139	127-151 ( 9%)	19%

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

# HARVESTED	95% CI		#/HOUR	95% CI	#/HA	#/ACRE	SPECIES
7354	5001-9707	( 32%)	.219	.158-.281 ( 28%)	122.86	49.72	All species
4328	2172-6484	( 50%)	.101	.068-.134 ( 33%)	72.31	29.26	Black crappie
1467	629-2304	( 57%)	.063	.026-.100 ( 59%)	24.50	9.92	Bluegill
			****	NOT RECORDED	****		Carp
683	324-1043	( 53%)	.030	.011-.049 ( 63%)	11.42	4.62	Channel catfish
77	11-144	( 86%)	.009	.000-.021 (145%)	1.29	0.52	Largemouth bass
7	0-22	(197%)	.002	.000-.008 (303%)	0.12	0.05	Northern pike
9	0-29	(236%)	.000	.000-.001 (245%)	0.14	0.06	Redear sunfish
199	53-346	( 73%)	.006	.002-.010 ( 65%)	3.33	1.35	Walleye
580	148-1012	( 74%)	.009	.003-.014 ( 68%)	9.69	3.92	White crappie
3	0-10	(245%)	.000	.000-.000 (236%)	0.05	0.02	Yellow bullhead
			****	NOT RECORDED	****		Yellow bass

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

KG HARVESTED	95% CI		KG/HOUR	95% CI	KG/HA	AVE KG	SPECIES
2130	1361-2898	( 36%)	.071	.048-.093 ( 32%)	35.58	0.290	All species
835	393-1277	( 53%)	.019	.013-.025 ( 32%)	13.94	0.193	Black crappie
201	65-338	( 68%)	.008	.003-.013 ( 64%)	3.36	0.137	Bluegill
			****	NOT RECORDED	****		Carp
722	155-1289	( 79%)	.023	.009-.036 ( 60%)	12.06	1.056	Channel catfish
75	15-136	( 81%)	.008	.000-.019 (131%)	1.26	0.972	Largemouth bass
14	0-44	(203%)	.005	.000-.019 (308%)	0.24	1.922	Northern pike
1	0-2	(236%)	.000	.000-.000 (245%)	0.01	0.076	Redear sunfish
193	58-328	( 70%)	.007	.002-.011 ( 72%)	3.22	0.967	Walleye
88	23-153	( 73%)	.001	.000-.002 ( 68%)	1.48	0.152	White crappie
0	0-1	(236%)	.000	.000-.000 (245%)	0.01	0.154	Yellow bullhead
			****	NOT RECORDED	****		Yellow bass

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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
4695	3001-6389	( 36%)	.155	.106-.205 ( 32%)	31.74	0.638	All species
1840	866-2814	( 53%)	.042	.028-.055 ( 32%)	12.44	0.425	Black crappie
444	143-745	( 68%)	.018	.006-.029 ( 64%)	3.00	0.303	Bluegill
			****	NOT RECORDED	****		Carp
1591	341-2841	( 79%)	.050	.020-.080 ( 60%)	10.76	2.329	Channel catfish
166	32-300	( 81%)	.019	.000-.043 (131%)	1.12	2.143	Largemouth bass
32	0-96	(203%)	.010	.000-.041 (308%)	0.21	4.236	Northern pike
1	0-5	(245%)	.000	.000-.000 (236%)	0.01	0.168	Redear sunfish
425	128-723	( 70%)	.014	.004-.025 ( 72%)	2.88	2.132	Walleye
195	52-338	( 73%)	.003	.001-.005 ( 68%)	1.32	0.336	White crappie
1	0-3	(236%)	.000	.000-.000 (236%)	0.01	0.340	Yellow bullhead
			****	NOT RECORDED	****		Yellow bass

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
48364	32404-64324 ( 33%)	1.533	1.239-1.827 ( 19%)	808.03	327.01	All species
32978	17922-48034 ( 46%)	1.025	.765-1.286 ( 25%)	550.98	222.98	Black crappie
3262	2248-4275 ( 31%)	.188	.119-.257 ( 37%)	54.49	22.05	Bluegill
4	0-13 (257%)	.000	.000-.001 (257%)	0.06	0.02	Carp
960	553-1367 ( 42%)	.041	.021-.060 ( 47%)	16.04	6.49	Channel catfish
3127	2278-3976 ( 27%)	.094	.056-.133 ( 40%)	52.24	21.14	Largemouth bass
29	7-51 ( 76%)	.003	.000-.009 (181%)	0.48	0.20	Northern pike
11	0-32 (184%)	.000	.000-.001 (203%)	0.19	0.08	Redear sunfish
619	353-885 ( 43%)	.017	.011-.024 ( 38%)	10.34	4.19	Walleye
7353	4610-10095 ( 37%)	.162	.110-.214 ( 32%)	122.84	49.71	White crappie
9	0-24 (177%)	.000	.000-.001 (218%)	0.15	0.06	Yellow bullhead
13	0-69 (430%)	.001	.000-.007 (430%)	0.22	0.09	Yellow bass

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

KG CAUGHT	95% CI	KG/HOUR	95% CI	KG/HA	AVE KG	SPECIES
9245	6677-11812 ( 28%)	.295	.237-.354 ( 20%)	154.45	0.191	All species
4762	2581-6944 ( 46%)	.147	.110-.184 ( 25%)	79.57	0.144	Black crappie
324	182-466 ( 44%)	.016	.010-.022 ( 36%)	5.42	0.099	Bluegill
2	0-9 (257%)	.000	.000-.001 (257%)	0.04	0.687	Carp
885	301-1470 ( 66%)	.027	.013-.041 ( 51%)	14.79	0.922	Channel catfish
2014	1329-2700 ( 34%)	.071	.030-.112 ( 58%)	33.65	0.644	Largemouth bass
32	2-63 ( 95%)	.005	.000-.019 (266%)	0.54	1.110	Northern pike
1	0-2 (184%)	.000	.000-.000 (203%)	0.01	0.076	Redear sunfish
428	148-708 ( 65%)	.012	.006-.017 ( 49%)	7.15	0.691	Walleye
793	466-1120 ( 41%)	.017	.011-.022 ( 33%)	13.25	0.108	White crappie
1	0-3 (163%)	.000	.000-.000 (208%)	0.02	0.126	Yellow bullhead
1	0-3 (430%)	.000	.000-.000 (430%)	0.01	0.046	Yellow bass

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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
20381	14720-26041 ( 28%)	.651	.522-.781 ( 20%)	137.80	0.421	All species
10499	5689-15309 ( 46%)	.324	.242-.406 ( 25%)	70.99	0.318	Black crappie
715	402-1027 ( 44%)	.036	.023-.049 ( 36%)	4.83	0.219	Bluegill
5	0-19 (245%)	.000	.000-.001 (257%)	0.04	1.514	Carp
1952	663-3241 ( 66%)	.060	.029-.091 ( 51%)	13.20	2.033	Channel catfish
4440	2929-5952 ( 34%)	.156	.066-.246 ( 58%)	30.02	1.420	Largemouth bass
71	4-138 ( 95%)	.012	.000-.043 (266%)	0.48	2.448	Northern pike
2	0-5 (184%)	.000	.000-.000 (203%)	0.01	0.168	Redear sunfish
944	327-1560 ( 65%)	.026	.013-.038 ( 49%)	6.38	1.524	Walleye
1749	1028-2470 ( 41%)	.037	.024-.049 ( 33%)	11.82	0.238	White crappie
2	0-6 (163%)	.000	.000-.000 (208%)	0.02	0.277	Yellow bullhead
1	0-5 (318%)	.000	.000-.001 (318%)	0.01	0.100	Yellow bass

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

	MEAN	95% CI	MIN	MAX	#SAMPLES
HOURS PER COMPLETED TRIP*					
BOAT	3.7	3.5-4.0 ( 7%)	1.0	10.2	237
SHORE	2.3	2.0-2.7 ( 17%)	0.2	6.5	43
BOAT & SHORE	3.5	3.3-3.7 ( 7%)	0.2	10.2	280
MILES TRAVELED	23.9	22.5-25.3 ( 6%)	1	190	756
SUCCESS RATING (1-10)	4.0	3.9-4.2 ( 5%)	1	10	747

\*41 samples were from split interviews of completed trips.  
33.5% of all 835 interviews were completed trips.

ILLEGAL HARVEST: Clerk noted 6 out of 835 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	141	305	41	6			1			
SHORE INTERVIEWS	144	141	42	12	1					1

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

179 ( 21.4%)	ANY	All species
3 ( 0.4%)	BLC	Black crappie
13 ( 1.6%)	BLG	Bluegill
2 ( 0.2%)	CAP	Carp
93 ( 11.1%)	CCF	Channel catfish
236 ( 28.3%)	CRP	Crappie spp.
212 ( 25.4%)	LMB	Largemouth bass
18 ( 2.2%)	WAE	Walleye
79 ( 9.5%)	WHC	White crappie

