

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

2001 WASHINGTON CO LAKE
 245 ACRES
 REGION 4, DISTRICT 17

STRATIFICATION SUMMARY:

Day creel only.
 Results cover 03/15/2001 through 10/31/2001
 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: 302/693 = 43.6%

NUMBER OF INTERVIEWS: 2568

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	8816	7734-9897 (12%)	36	32-40 (12%)	25%
	HOLIDAY	12848	11383-14312 (11%)	52	46-58 (11%)	51%
	TOTAL	21664	19843-23484 (8%)	88	81-96 (8%)	41%
SHORE	WEEKDAY	1722	1047-2398 (39%)	7	4-10 (39%)	19%
	HOLIDAY	2317	1882-2753 (19%)	9	8-11 (19%)	40%
	TOTAL	4040	3274-4806 (19%)	16	13-20 (19%)	31%
BOAT & SHORE	WEEKDAY	10538	9286-11790 (12%)	43	38-48 (12%)	24%
	HOLIDAY	15165	13637-16693 (10%)	62	56-68 (10%)	50%
	TOTAL	25703	23728-27678 (8%)	105	97-113 (8%)	39%

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

# HARVESTED	95% CI		#/HOUR	95% CI	#/HA	#/ACRE	SPECIES
4455	3539-5371	(21%)	.126	.088-.164 (30%)	44.93	18.18	All species
			****	NOT RECORDED	****		Black crappie
1576	851-2302	(46%)	.032	.013-.051 (59%)	15.90	6.43	Bluegill
			****	NOT RECORDED	****		Bowfin
2	0-7	(231%)	.000	.000-.000 (236%)	0.02	0.01	Carp
1302	1023-1581	(21%)	.049	.032-.067 (36%)	13.13	5.32	Channel catfish
214	130-299	(39%)	.004	.002-.006 (50%)	2.16	0.88	Largemouth bass
1360	992-1729	(27%)	.040	.008-.073 (80%)	13.72	5.55	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
1105	924-1286	(16%)	.034	.024-.043 (28%)	11.14	0.248	All species
			****	NOT RECORDED	****		Black crappie
70	37-102	(46%)	.001	.001-.002 (59%)	0.70	0.044	Bluegill
			****	NOT RECORDED	****		Bowfin
3	0-9	(236%)	.000	.000-.000 (236%)	0.03	1.206	Carp
662	521-803	(21%)	.024	.015-.033 (38%)	6.68	0.508	Channel catfish
245	149-342	(39%)	.005	.002-.007 (56%)	2.47	1.144	Largemouth bass
125	89-160	(28%)	.004	.001-.007 (83%)	1.26	0.092	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
2435	2036-2835	(16%)	.074	.053-.095 (28%)	9.94	0.547	All species
			****	NOT RECORDED	****		Black crappie
154	82-225	(46%)	.003	.001-.005 (59%)	0.63	0.098	Bluegill
			****	NOT RECORDED	****		Bowfin
6	0-19	(231%)	.000	.000-.000 (236%)	0.02	2.659	Carp
1460	1148-1771	(21%)	.052	.033-.072 (38%)	5.96	1.121	Channel catfish
541	328-753	(39%)	.010	.004-.016 (56%)	2.21	2.521	Largemouth bass
275	197-354	(28%)	.009	.001-.016 (83%)	1.12	0.202	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
23931	21930-25933 (8%)	.581	.522-.641 (10%)	241.36	97.68	All species
103	0-318 (209%)	.006	.000-.019 (209%)	1.04	0.42	Black crappie
8088	6635-9541 (18%)	.174	.123-.225 (29%)	81.58	33.01	Bluegill
2	0-6 (236%)	.000	.000-.000 (231%)	0.02	0.01	Bowfin
5	0-12 (146%)	.000	.000-.000 (193%)	0.05	0.02	Carp
3105	2670-3540 (14%)	.114	.090-.137 (20%)	31.32	12.67	Channel catfish
8652	7730-9574 (11%)	.197	.174-.219 (11%)	87.26	35.31	Largemouth bass
3976	3359-4594 (16%)	.091	.060-.122 (34%)	40.10	16.23	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
5409	4933-5885 (9%)	.137	.125-.150 (9%)	54.55	0.226	All species
3	0-8 (209%)	.000	.000-.000 (209%)	0.03	0.025	Black crappie
334	274-395 (18%)	.007	.005-.009 (26%)	3.37	0.041	Bluegill
0	0-0 (231%)	.000	.000-.000 (236%)	0.00	0.077	Bowfin
8	0-19 (152%)	.000	.000-.001 (197%)	0.08	1.522	Carp
1145	937-1354 (18%)	.040	.030-.049 (24%)	11.55	0.369	Channel catfish
3574	3155-3994 (12%)	.082	.072-.093 (12%)	36.05	0.413	Largemouth bass
345	287-402 (17%)	.008	.005-.011 (38%)	3.48	0.087	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
11925	10876-12974 (9%)	.303	.276-.330 (9%)	48.67	0.498	All species
6	0-17 (209%)	.000	.000-.001 (209%)	0.02	0.055	Black crappie
737	603-870 (18%)	.015	.011-.019 (26%)	3.01	0.091	Bluegill
0	0-1 (236%)	.000	.000-.000 (231%)	0.00	0.170	Bowfin
17	0-42 (152%)	.000	.000-.001 (197%)	0.07	3.356	Carp
2525	2065-2986 (18%)	.087	.066-.108 (24%)	10.31	0.813	Channel catfish
7880	6955-8806 (12%)	.182	.159-.204 (12%)	32.16	0.911	Largemouth bass
760	633-887 (17%)	.018	.011-.025 (38%)	3.10	0.191	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	5.1	4.9-5.3	(4%)	1.0	11.7	509
SHORE	2.7	1.4-3.9	(47%)	0.8	8.8	16
BOAT & SHORE	5.0	4.8-5.2	(4%)	0.8	11.7	525
MILES TRAVELED	35.6	33.5-37.7	(6%)	2	1100	1574
SUCCESS RATING (1-10)	4.8	4.7-5.0	(3%)	1	10	1565

*409 samples were from split interviews of completed trips.
 24.5% of all 2140 interviews were completed trips.

ILLEGAL HARVEST: Clerk noted 0 out of 2140 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	576	1041	106	12	3					
SHORE INTERVIEWS	126	197	61	15	3					

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

239 (11.2%)	ANY	All species
1 (0.0%)	BLC	Black crappie
203 (9.5%)	BLG	Bluegill
373 (17.4%)	CCF	Channel catfish
1104 (51.6%)	LMB	Largemouth bass
220 (10.3%)	WHC	White crappie

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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+
Bluegill																
HARVEST	877	-	-	-	-	-	-	-	-	-	-	2	-	-	-	5
RELEASE	825	2	10	7	5	4	5	-	-	-	4	2	-	3	2	15
Carp																
HARVEST	884	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	880	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Channel catfish																
HARVEST	836	11	9	14	6	2	6	-	-	-	-	-	-	-	-	-
RELEASE	800	45	14	10	6	6	1	-	2	-	-	-	-	-	-	-
Largemouth bass																
HARVEST	868	7	6	-	2	1	-	-	-	-	-	-	-	-	-	-
RELEASE	317	149	118	111	85	35	18	22	11	3	8	2	1	1	-	3
White crappie																
HARVEST	857	2	2	-	2	2	-	2	2	-	-	2	-	2	2	9
RELEASE	796	16	20	14	10	8	8	2	4	-	2	-	1	-	-	3