

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

2001 LITTLE GRASSY
 905 ACRES
 REGION 4, DISTRICT 15

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: 427/693 = 61.6%

NUMBER OF INTERVIEWS: 1789

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	13294	11756-14832 (12%)	15	13-16 (12%)	16%
	HOLIDAY	11938	10180-13695 (15%)	13	11-15 (15%)	34%
	TOTAL	25232	22896-27567 (9%)	28	25-30 (9%)	25%
SHORE	WEEKDAY	1904	925-2884 (51%)	2	1-3 (51%)	12%
	HOLIDAY	2240	1645-2835 (27%)	2	2-3 (27%)	24%
	TOTAL	4145	3034-5256 (27%)	5	3-6 (27%)	18%
BOAT & SHORE	WEEKDAY	15198	13435-16961 (12%)	17	15-19 (12%)	15%
	HOLIDAY	14178	12323-16034 (13%)	16	14-18 (13%)	33%
	TOTAL	29377	26817-31936 (9%)	32	30-35 (9%)	24%

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

# HARVESTED	95% CI	#/HOUR	95% CI	#/HA	#/ACRE	SPECIES
29948	25728-34167 (14%)	.484	.408-.560 (16%)	81.73	33.07	All species
4799	3801-5797 (21%)	.122	.088-.157 (28%)	13.10	5.30	Black crappie
8052	6052-10051 (25%)	.099	.065-.134 (35%)	21.97	8.89	Bluegill
3	0-11 (257%)	.000	.000-.000 (278%)	0.01	0.00	Brook silverside
		****	NOT RECORDED ****			Carp
1279	936-1622 (27%)	.033	.021-.045 (35%)	3.49	1.41	Channel catfish
586	349-823 (40%)	.011	.000-.021 (97%)	1.60	0.65	Green sunfish
1228	958-1497 (22%)	.024	.013-.034 (44%)	3.35	1.36	Largemouth bass
92	23-160 (74%)	.001	.000-.003 (108%)	0.25	0.10	Longear sunfish
207	81-334 (61%)	.004	.002-.007 (65%)	0.57	0.23	Orangespotted sunfi
263	165-361 (37%)	.003	.002-.004 (48%)	0.72	0.29	Redear sunfish
5	0-15 (210%)	.000	.000-.001 (210%)	0.01	0.01	Unidentified Sunfis
115	60-171 (48%)	.001	.000-.001 (53%)	0.31	0.13	Warmouth
11140	8319-13961 (25%)	.134	.097-.171 (27%)	30.40	12.30	White crappie
6	0-13 (122%)	.000	.000-.000 (205%)	0.02	0.01	Yellow bullhead
2113	1062-3164 (50%)	.050	.017-.083 (66%)	5.77	2.33	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
5992	5247-6738 (12%)	.110	.091-.129 (17%)	16.35	0.200	All species
891	701-1082 (21%)	.022	.016-.028 (28%)	2.43	0.186	Black crappie
939	691-1187 (26%)	.012	.007-.017 (40%)	2.56	0.117	Bluegill
0	0-0 (278%)	.000	.000-.000 (278%)	0.00	0.002	Brook silverside
		****	NOT RECORDED ****			Carp
911	659-1163 (28%)	.022	.014-.030 (35%)	2.49	0.712	Channel catfish
64	34-94 (46%)	.001	.000-.002 (95%)	0.18	0.110	Green sunfish
842	657-1027 (22%)	.019	.006-.033 (70%)	2.30	0.686	Largemouth bass
16	3-30 (81%)	.000	.000-.001 (119%)	0.04	0.179	Longear sunfish
16	7-24 (54%)	.000	.000-.001 (77%)	0.04	0.076	Orangespotted sunfi
62	39-85 (37%)	.001	.000-.001 (48%)	0.17	0.235	Redear sunfish
		****	NOT RECORDED ****			Unidentified Sunfis
27	13-41 (52%)	.000	.000-.000 (61%)	0.07	0.232	Warmouth
1816	1416-2216 (22%)	.022	.017-.027 (24%)	4.96	0.163	White crappie
3	0-6 (125%)	.000	.000-.000 (203%)	0.01	0.468	Yellow bullhead
406	231-580 (43%)	.010	.003-.016 (64%)	1.11	0.192	Yellow bass

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

LB HARVESTED	95% CI		LB/HOUR	95% CI	LB/ACRE	AVE LB	SPECIES
13211	11567-14855	(12%)	.242	.201-.284 (17%)	14.59	0.441	All species
1965	1545-2385	(21%)	.049	.035-.063 (28%)	2.17	0.409	Black crappie
2070	1523-2618	(26%)	.026	.016-.036 (40%)	2.29	0.257	Bluegill
0	0-0	(278%)	.000	.000-.000 (257%)	0.00	0.003	Brook silverside
			****	NOT RECORDED	****		Carp
2008	1452-2563	(28%)	.049	.032-.067 (35%)	2.22	1.570	Channel catfish
142	76-208	(46%)	.003	.000-.005 (95%)	0.16	0.242	Green sunfish
1856	1448-2264	(22%)	.043	.013-.073 (70%)	2.05	1.511	Largemouth bass
36	7-65	(81%)	.001	.000-.001 (119%)	0.04	0.394	Longear sunfish
35	16-53	(54%)	.001	.000-.001 (77%)	0.04	0.167	Orangespotted sunfi
136	86-187	(37%)	.001	.001-.002 (48%)	0.15	0.519	Redear sunfish
			****	NOT RECORDED	****		Unidentified Sunfis
59	28-90	(52%)	.000	.000-.001 (61%)	0.07	0.511	Warmouth
4004	3123-4885	(22%)	.048	.037-.059 (24%)	4.42	0.359	White crappie
6	0-13	(125%)	.000	.000-.000 (203%)	0.01	1.033	Yellow bullhead
894	510-1278	(43%)	.021	.008-.034 (64%)	0.99	0.423	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
84123	72906-95340 (13%)	1.284	1.116-1.452 (13%)	229.57	92.91	All species
10312	8194-12430 (21%)	.245	.189-.300 (23%)	28.14	11.39	Black crappie
29343	23643-35043 (19%)	.427	.313-.541 (27%)	80.08	32.41	Bluegill
3	0-11 (257%)	.000	.000-.000 (278%)	0.01	0.00	Brook silverside
2	0-5 (236%)	.000	.000-.000 (236%)	0.00	0.00	Carp
1661	1207-2115 (27%)	.043	.029-.058 (34%)	4.53	1.83	Channel catfish
3592	2593-4591 (28%)	.062	.031-.093 (49%)	9.80	3.97	Green sunfish
4992	4247-5738 (15%)	.088	.070-.106 (20%)	13.62	5.51	Largemouth bass
108	12-204 (89%)	.002	.000-.004 (120%)	0.30	0.12	Longear sunfish
2015	1322-2708 (34%)	.031	.016-.045 (48%)	5.50	2.23	Orangespotted sunfi
264	167-362 (37%)	.003	.002-.004 (48%)	0.72	0.29	Redear sunfish
5	0-15 (210%)	.000	.000-.001 (210%)	0.01	0.01	Unidentified Sunfis
457	289-626 (37%)	.006	.002-.011 (62%)	1.25	0.51	Warmouth
27970	21279-34661 (24%)	.304	.243-.365 (20%)	76.33	30.89	White crappie
6	0-13 (122%)	.000	.000-.000 (205%)	0.02	0.01	Yellow bullhead
3246	1963-4528 (40%)	.071	.032-.109 (54%)	8.86	3.58	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
10554	9356-11751 (11%)	.180	.158-.202 (12%)	28.80	0.125	All species
1149	921-1376 (20%)	.028	.021-.035 (24%)	3.13	0.111	Black crappie
1662	1297-2027 (22%)	.023	.017-.030 (29%)	4.54	0.057	Bluegill
0	0-0 (278%)	.000	.000-.000 (278%)	0.00	0.002	Brook silverside
1	0-4 (236%)	.000	.000-.000 (245%)	0.00	0.775	Carp
983	717-1249 (27%)	.024	.016-.032 (33%)	2.68	0.592	Channel catfish
210	126-294 (40%)	.003	.002-.005 (47%)	0.57	0.058	Green sunfish
3247	2716-3779 (16%)	.058	.042-.074 (28%)	8.86	0.650	Largemouth bass
18	3-32 (84%)	.000	.000-.001 (119%)	0.05	0.162	Longear sunfish
75	48-102 (36%)	.001	.001-.002 (50%)	0.20	0.037	Orangespotted sunfi
62	39-85 (37%)	.001	.000-.001 (48%)	0.17	0.235	Redear sunfish
		****	NOT RECORDED ****			Unidentified Sunfis
52	31-73 (40%)	.001	.000-.001 (60%)	0.14	0.114	Warmouth
2590	1980-3201 (24%)	.029	.023-.035 (21%)	7.07	0.093	White crappie
3	0-6 (125%)	.000	.000-.000 (203%)	0.01	0.468	Yellow bullhead
502	312-692 (38%)	.011	.005-.018 (56%)	1.37	0.155	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
23267	20627-25907 (11%)	.398	.349-.446 (12%)	25.70	0.277	All species
2532	2030-3035 (20%)	.062	.047-.077 (24%)	2.80	0.246	Black crappie
3664	2860-4469 (22%)	.051	.036-.067 (29%)	4.05	0.125	Bluegill
0	0-0 (278%)	.000	.000-.000 (257%)	0.00	0.003	Brook silverside
3	0-9 (245%)	.000	.000-.000 (236%)	0.00	1.710	Carp
2167	1581-2754 (27%)	.053	.036-.071 (33%)	2.39	1.305	Channel catfish
463	277-649 (40%)	.007	.004-.010 (47%)	0.51	0.129	Green sunfish
7160	5987-8332 (16%)	.128	.093-.164 (28%)	7.91	1.434	Largemouth bass
39	6-71 (84%)	.001	.000-.001 (119%)	0.04	0.358	Longear sunfish
166	105-226 (36%)	.003	.001-.004 (50%)	0.18	0.082	Orangespotted sunfi
137	86-188 (37%)	.001	.001-.002 (48%)	0.15	0.518	Redear sunfish
		****	NOT RECORDED	****		Unidentified Sunfis
115	69-161 (40%)	.001	.001-.002 (60%)	0.13	0.251	Warmouth
5710	4365-7056 (24%)	.064	.051-.078 (21%)	6.31	0.204	White crappie
6	0-13 (125%)	.000	.000-.000 (203%)	0.01	1.033	Yellow bullhead
1106	687-1525 (38%)	.025	.011-.039 (56%)	1.22	0.341	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	3.0	2.9-3.1	(4%)	0.2	12.0	1086
SHORE	2.4	2.1-2.6	(12%)	0.2	7.0	116
BOAT & SHORE	3.0	2.8-3.1	(3%)	0.2	12.0	1202
MILES TRAVELED	29.2	26.6-31.8	(9%)	1	400	1330
SUCCESS RATING (1-10)	5.6	5.4-5.8	(4%)	1	10	1326

*403 samples were from split interviews of completed trips.
87.3% of all 1377 interviews were completed trips.

ILLEGAL HARVEST: Clerk noted 6 out of 1377 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	494	647	80	13	4	1	2	1		
SHORE INTERVIEWS	61	38	13	12	5	1	2	2	1	

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

249 (18.1%)	ANY	All species
1 (0.1%)	BLC	Black crappie
95 (6.9%)	BLG	Bluegill
3 (0.2%)	BSS	Black bass spp.
68 (4.9%)	CAT	Unidentified catfish
2 (0.1%)	CCF	Channel catfish
376 (27.3%)	CRP	Crappie spp.
566 (41.1%)	LMB	Largemouth bass
16 (1.2%)	SUN	Sunfish spp. excluding Crappie and Black Bass
1 (0.1%)	WAE	Walleye

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Table 11.(continued) 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+
White crappie																
HARVEST	1626	114	63	46	40	21	33	18	7	8	13	3	13	3	7	58
RELEASE	1635	70	41	40	34	29	20	20	19	11	20	5	14	14	6	95
Yellow bullhead																
HARVEST	2068	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	2071	-	-	-	-	-	2	-	-	-	-	-	-	-	-	-
Yellow bass																
HARVEST	1907	98	36	14	7	2	-	4	-	1	-	-	-	-	-	4
RELEASE	1929	108	12	7	4	5	2	-	3	-	3	-	-	-	-	-