

ILLINOIS NATURAL HISTORY SURVEY
 CENTER FOR AQUATIC ECOLOGY
 1998 CREEL SURVEY RESULTS

1998 SHELBYVILLE
 10191 ACRES
 REGION 3, DISTRICT 11

STRATIFICATION SUMMARY:

Day creel only.
 Results cover 03/15/1998 through 10/31/1998
 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: 473/693 = 68.3%

NUMBER OF INTERVIEWS: 5455

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	81144	73156-89133 (10%)	8	7-9 (10%)	10%
	HOLIDAY	68597	59931-77262 (13%)	7	6-8 (13%)	20%
	TOTAL	149741	137955-161527(8%)	15	14-16 (8%)	14%
SHORE	WEEKDAY	1377	669-2086 (51%)	0	0-0 (51%)	4%
	HOLIDAY	1604	1005-2204 (37%)	0	0-0 (37%)	14%
	TOTAL	2981	2053-3910 (31%)	0	0-0 (31%)	9%
BOAT & SHORE	WEEKDAY	82522	74502-90541 (10%)	8	7-9 (10%)	10%
	HOLIDAY	70201	61515-78887 (12%)	7	6-8 (12%)	20%
	TOTAL	152723	140900-164545(8%)	15	14-16 (8%)	14%

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

# HARVESTED	95% CI	#/HOUR	95% CI	#/HA	#/ACRE	SPECIES
40860	35682-46038 (13%)	.136	.113-.158 (17%)	9.91	4.01	All species
		****	NOT RECORDED			Bigmouth
buffalo						
178	80-276 (55%)	.000	.000-.001 (69%)	0.04	0.02	Black crappie
2352	1359-3344 (42%)	.016	.000-.033 (105%)	0.57	0.23	Bluegill
		****	NOT RECORDED			Carp
89	17-161 (81%)	.000	.000-.001 (138%)	0.02	0.01	Channel catfish
3	0-8 (209%)	.000	.000-.000 (209%)	0.00	0.00	Flathead
catfish						
		****	NOT RECORDED			Freshwater drum
1916	1444-2389 (25%)	.005	.003-.007 (43%)	0.46	0.19	Largemouth bass
		****	NOT RECORDED			Longnose gar
		****	NOT RECORDED			Muskellunge
12	0-39 (236%)	.000	.000-.000 (236%)	0.00	0.00	Striped bass
hybrid						
		****	NOT RECORDED			Smallmouth bass
		****	NOT RECORDED			Striped bass
668	442-894 (34%)	.002	.001-.004 (70%)	0.16	0.07	Walleye
13070	9512-16628 (27%)	.038	.027-.049 (28%)	3.17	1.28	White bass
22573	19783-25363 (12%)	.074	.061-.086 (17%)	5.47	2.21	White crappie
		****	NOT RECORDED			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
12082	10495-13669 (13%)	.038	.032-.045 (16%)	2.93	0.296	All species
		****	NOT RECORDED			Bigmouth
buffalo						
48	21-74 (55%)	.000	.000-.000 (72%)	0.01	0.271	Black crappie
197	111-284 (44%)	.002	.000-.005 (133%)	0.05	0.084	Bluegill
		****	NOT RECORDED			Carp
86	13-159 (85%)	.000	.000-.001 (106%)	0.02	0.969	Channel catfish
7	0-22 (209%)	.000	.000-.000 (209%)	0.00	3.621	Flathead
catfish						
		****	NOT RECORDED			Freshwater drum
1746	1310-2182 (25%)	.005	.002-.007 (54%)	0.42	0.911	Largemouth bass
		****	NOT RECORDED			Longnose gar
		****	NOT RECORDED			Muskellunge
8	0-26 (231%)	.000	.000-.000 (231%)	0.00	0.704	Striped bass
hybrid						
		****	NOT RECORDED			Smallmouth bass
		****	NOT RECORDED			Striped bass
474	284-665 (40%)	.002	.001-.003 (69%)	0.11	0.711	Walleye
4251	3069-5433 (28%)	.012	.008-.016 (32%)	1.03	0.325	White bass
5265	4624-5905 (12%)	.017	.014-.020 (17%)	1.28	0.233	White crappie
		****	NOT RECORDED			Yellow bullhead

**** NOT RECORDED ****

Yellow bass

1998 SHELBYVILLE

DAY CREEL

03/15/1998 - 10/31/1998

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

LB HARVESTED	95% CI	LB/HOUR	95% CI	LB/ACRE	AVE LB	SPECIES
26637	23139-30136 (13%)	.085	.071-.099 (16%)	2.61	0.652	All species
		****	NOT RECORDED	****		Bigmouth
buffalo						
106	47-164 (55%)	.000	.000-.000 (72%)	0.01	0.597	Black crappie
435	245-625 (44%)	.004	.000-.010 (133%)	0.04	0.185	Bluegill
		****	NOT RECORDED	****		Carp
190	29-351 (85%)	.001	.000-.001 (106%)	0.02	2.136	Channel catfish
16	0-49 (209%)	.000	.000-.000 (209%)	0.00	7.983	Flathead
catfish						
		****	NOT RECORDED	****		Freshwater drum
3849	2888-4810 (25%)	.011	.005-.016 (54%)	0.38	2.009	Largemouth bass
		****	NOT RECORDED	****		Longnose gar
		****	NOT RECORDED	****		Muskellunge
17	0-56 (231%)	.000	.000-.000 (231%)	0.00	1.551	Striped bass
hybrid						
		****	NOT RECORDED	****		Smallmouth bass
		****	NOT RECORDED	****		Striped bass
1046	626-1466 (40%)	.004	.001-.006 (69%)	0.10	1.568	Walleye
9372	6767-11978 (28%)	.027	.019-.036 (32%)	0.92	0.717	White bass
11607	10195-13018 (12%)	.038	.031-.044 (17%)	1.14	0.514	White crappie
		****	NOT RECORDED	****		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
290684	262297-319071 (10%)	.902	.804-1.000 (11%)	70.48	28.52	All species
9	0-26 (196%)	.000	.000-.000 (196%)	0.00	0.00	Bigmouth
buffalo						
2204	852-3556 (61%)	.004	.001-.007 (67%)	0.53	0.22	Black crappie
4649	2167-7131 (53%)	.031	.008-.053 (73%)	1.13	0.46	Bluegill
252	127-377 (50%)	.003	.000-.007 (145%)	0.06	0.02	Carp
268	138-398 (48%)	.001	.000-.001 (83%)	0.07	0.03	Channel catfish
37	0-92 (150%)	.000	.000-.000 (187%)	0.01	0.00	Flathead
catfish						
449	61-836 (86%)	.001	.000-.003 (80%)	0.11	0.04	Freshwater drum
18885	16321-21449 (14%)	.036	.029-.042 (18%)	4.58	1.85	Largemouth bass
5	0-14 (196%)	.000	.000-.000 (196%)	0.00	0.00	Longnose gar
114	33-196 (71%)	.000	.000-.001 (130%)	0.03	0.01	Muskellunge
353	187-520 (47%)	.002	.000-.005 (109%)	0.09	0.03	Striped bass
hybrid						
104	0-280 (169%)	.000	.000-.001 (190%)	0.03	0.01	Smallmouth bass
48	0-147 (208%)	.000	.000-.001 (208%)	0.01	0.00	Striped bass
2037	1376-2698 (32%)	.007	.003-.011 (62%)	0.49	0.20	Walleye
30086	22159-38013 (26%)	.097	.072-.122 (26%)	7.29	2.95	White bass
230689	206189-255189 (11%)	.716	.625-.808 (13%)	55.93	22.64	White crappie
4	0-14 (205%)	.000	.000-.000 (205%)	0.00	0.00	Yellow bullhead
491	6-976 (99%)	.003	.000-.007 (158%)	0.12	0.05	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
46808	42469-51147 (9%)	.135	.121-.149 (10%)	11.35	0.161	All species
29	0-85 (196%)	.000	.000-.000 (196%)	0.01	3.601	Bigmouth
buffalo						
269	114-424 (57%)	.001	.000-.001 (70%)	0.07	0.122	Black crappie
322	179-466 (45%)	.003	.000-.006 (98%)	0.08	0.069	Bluegill
136	69-203 (50%)	.002	.000-.004 (160%)	0.03	0.541	Carp
263	92-434 (65%)	.001	.000-.001 (94%)	0.06	0.983	Channel catfish
181	0-492 (172%)	.000	.000-.001 (193%)	0.04	5.023	Flathead
catfish						
60	19-101 (68%)	.000	.000-.000 (68%)	0.01	0.135	Freshwater drum
11026	9528-12524 (14%)	.022	.017-.026 (20%)	2.67	0.584	Largemouth bass
4	0-12 (196%)	.000	.000-.000 (196%)	0.00	1.007	Longnose gar
285	58-511 (80%)	.001	.000-.001 (130%)	0.07	2.496	Muskellunge
55	23-86 (57%)	.000	.000-.001 (108%)	0.01	0.154	Striped bass
hybrid						
19	0-44 (129%)	.000	.000-.000 (161%)	0.00	0.185	Smallmouth bass
3	0-8 (208%)	.000	.000-.000 (207%)	0.00	0.057	Striped bass
870	585-1155 (33%)	.003	.001-.005 (63%)	0.21	0.427	Walleye
5998	4412-7583 (26%)	.019	.014-.023 (27%)	1.45	0.199	White bass
27255	24231-30279 (11%)	.085	.074-.096 (13%)	6.61	0.118	White crappie

2	0-7	(205%)	.000	.000-.000	(205%)	0.00	0.590	Yellow bullhead
31	3-58	(89%)	.000	.000-.000	(151%)	0.01	0.063	Yellow bass

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

LB CAUGHT	95% CI	LB/HOUR	95% CI	LB/ACRE	AVE LB	SPECIES
103194	93628-112759 (9%)	.299	.268-.330 (10%)	10.13	0.355	All species
64	0-188 (196%)	.000	.000-.000 (196%)	0.01	7.939	Bigmouth buffalo
594	252-935 (57%)	.001	.000-.002 (70%)	0.06	0.269	Black crappie
710	394-1027 (45%)	.006	.000-.012 (98%)	0.07	0.153	Bluegill
299	151-447 (50%)	.004	.000-.010 (160%)	0.03	1.192	Carp
581	204-957 (65%)	.001	.000-.003 (94%)	0.06	2.166	Channel catfish
399	0-1084 (172%)	.001	.000-.002 (193%)	0.04	11.074	Flathead catfish
133	42-224 (68%)	.000	.000-.001 (68%)	0.01	0.297	Freshwater drum
24308	21005-27612 (14%)	.047	.038-.057 (20%)	2.39	1.287	Largemouth bass
9	0-26 (196%)	.000	.000-.000 (196%)	0.00	2.220	Longnose gar
627	128-1126 (80%)	.001	.000-.003 (130%)	0.06	5.502	Muskellunge
120	51-189 (57%)	.001	.000-.002 (108%)	0.01	0.341	Striped bass
42	0-97 (129%)	.000	.000-.000 (161%)	0.00	0.407	Smallmouth bass
6	0-18 (208%)	.000	.000-.000 (207%)	0.00	0.126	Striped bass
1919	1291-2547 (33%)	.007	.002-.011 (63%)	0.19	0.942	Walleye
13222	9726-16718 (26%)	.041	.030-.052 (27%)	1.30	0.439	White bass
60087	53421-66754 (11%)	.187	.162-.212 (13%)	5.90	0.260	White crappie
5	0-16 (205%)	.000	.000-.000 (205%)	0.00	1.302	Yellow bullhead
68	7-129 (89%)	.000	.000-.001 (151%)	0.01	0.139	Yellow bass

