

ILLINOIS NATURAL HISTORY SURVEY
 CENTER FOR AQUATIC ECOLOGY
 1991 CREEL SURVEY RESULTS

1991 FORBES
 558 ACRES
 REGION 5, DISTRICT 14

STRATIFICATION SUMMARY:

Day creel only.
 Results cover 03/15/1991 through 11/15/1991
 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: 352/738 = 47.7%

NUMBER OF INTERVIEWS: 3225

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	22127	19705-24548 (11%)	40	35-44 (11%)	10%
	HOLIDAY	31080	27000-35160 (13%)	56	48-63 (13%)	23%
	TOTAL	53207	48463-57951 (9%)	95	87-104 (9%)	18%
SHORE	WEEKDAY	4995	3974-6017 (20%)	9	7-11 (20%)	9%
	HOLIDAY	7063	5746-8379 (19%)	13	10-15 (19%)	14%
	TOTAL	12058	10391-13724 (14%)	22	19-25 (14%)	12%
BOAT & SHORE	WEEKDAY	27122	24494-29750 (10%)	49	44-53 (10%)	9%
	HOLIDAY	38143	33856-42430 (11%)	68	61-76 (11%)	21%
	TOTAL	65265	60236-70294 (8%)	117	108-126 (8%)	16%

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

# HARVESTED	95% CI	#/HOUR	95% CI	#/HA	#/ACRE	SPECIES
29914	25286-34541 (15%)	.444	.333-.556 (25%)	132.47	53.61	All species
265	0-576 (117%)	.003	.000-.007 (138%)	1.18	0.48	Black crappie
14062	10878-17246 (23%)	.229	.154-.305 (33%)	62.27	25.20	Bluegill
		****	NOT RECORDED ****			Bowfin
16	0-50 (216%)	.000	.000-.001 (218%)	0.07	0.03	Carp
2766	2126-3406 (23%)	.048	.029-.066 (39%)	12.25	4.96	Channel catfish
75	0-285 (279%)	.000	.000-.002 (273%)	0.33	0.13	Green sunfish
400	0-1306 (226%)	.002	.000-.005 (226%)	1.77	0.72	Gizzard shad
2184	1329-3040 (39%)	.025	.014-.035 (43%)	9.67	3.91	Largemouth bass
164	6-322 (97%)	.023	.000-.064 (178%)	0.73	0.29	Longear sunfish
3	0-11 (231%)	.000	.000-.001 (231%)	0.02	0.01	Pumpkinseed
67	0-156 (134%)	.001	.000-.002 (118%)	0.29	0.12	Redear sunfish
49	0-175 (257%)	.000	.000-.002 (245%)	0.22	0.09	Striped bass
hybrid		****	NOT RECORDED ****			Smallmouth bass
7	0-22 (220%)	.000	.000-.000 (220%)	0.03	0.01	Striped bass
		****	NOT RECORDED ****			Tiger muskie
37	0-91 (147%)	.002	.000-.004 (147%)	0.16	0.07	Warmouth
9465	6677-12253 (29%)	.106	.067-.145 (37%)	41.91	16.96	White crappie
249	0-509 (105%)	.004	.000-.012 (209%)	1.10	0.45	Yellow bullhead
105	16-193 (84%)	.001	.000-.003 (131%)	0.46	0.19	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
5539	4470-6609 (19%)	.074	.058-.089 (21%)	24.53	0.185	All species
32	0-76 (137%)	.000	.000-.001 (133%)	0.14	0.120	Black crappie
829	640-1017 (23%)	.013	.009-.017 (30%)	3.67	0.059	Bluegill
		****	NOT RECORDED ****			Bowfin
27	0-87 (216%)	.000	.000-.001 (216%)	0.12	1.827	Carp
1065	805-1325 (24%)	.016	.011-.021 (31%)	4.72	0.385	Channel catfish
3	0-12 (286%)	.000	.000-.000 (281%)	0.01	0.042	Green sunfish
7	0-23 (226%)	.000	.000-.000 (226%)	0.03	0.017	Gizzard shad
2402	1445-3358 (40%)	.028	.016-.040 (43%)	10.64	1.100	Largemouth bass
9	0-20 (113%)	.002	.000-.005 (193%)	0.04	0.058	Longear sunfish
0	0-0 (226%)	.000	.000-.000 (231%)	0.00	0.028	Pumpkinseed
7	0-16 (138%)	.000	.000-.000 (122%)	0.03	0.105	Redear sunfish
45	0-155 (245%)	.000	.000-.002 (257%)	0.20	0.934	Striped bass
hybrid		****	NOT RECORDED ****			Smallmouth bass
30	0-95 (223%)	.000	.000-.000 (220%)	0.13	4.929	Striped bass
		****	NOT RECORDED ****			Tiger muskie
5	0-14 (147%)	.000	.000-.000 (144%)	0.02	0.153	Warmouth
941	651-1230 (31%)	.011	.005-.017 (53%)	4.17	0.099	White crappie
112	0-253 (126%)	.002	.000-.006 (239%)	0.49	0.450	Yellow bullhead
25	4-47 (84%)	.000	.000-.001 (110%)	0.11	0.244	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	
12212	9854-14570 (19%)	.162	.129-.196 (21%)	21.88	0.408	All species	
70	0-167 (137%)	.001	.000-.001 (133%)	0.13	0.265	Black crappie	
1827	1410-2243 (23%)	.028	.020-.036 (30%)	3.27	0.130	Bluegill	
		**** NOT RECORDED ****					Bowfin
60	0-191 (216%)	.001	.000-.003 (218%)	0.11	4.028	Carp	
2349	1775-2922 (24%)	.035	.024-.046 (31%)	4.21	0.849	Channel catfish	
7	0-27 (286%)	.000	.000-.000 (281%)	0.01	0.092	Green sunfish	
15	0-50 (226%)	.000	.000-.000 (231%)	0.03	0.038	Gizzard shad	
5295	3187-7404 (40%)	.062	.035-.089 (43%)	9.49	2.425	Largemouth bass	
21	0-44 (113%)	.004	.000-.011 (193%)	0.04	0.127	Longear sunfish	
0	0-1 (231%)	.000	.000-.000 (231%)	0.00	0.061	Pumpkinseed	
15	0-36 (138%)	.000	.000-.000 (122%)	0.03	0.231	Redear sunfish	
99	0-341 (245%)	.001	.000-.003 (257%)	0.18	2.059	Striped bass	
hybrid		**** NOT RECORDED ****					Smallmouth bass
65	0-210 (223%)	.000	.000-.001 (223%)	0.12	10.867	Striped bass	
		**** NOT RECORDED ****					Tiger muskie
12	0-30 (147%)	.000	.000-.001 (144%)	0.02	0.336	Warmouth	
2074	1435-2712 (31%)	.025	.012-.038 (53%)	3.72	0.219	White crappie	
246	0-557 (126%)	.004	.000-.014 (239%)	0.44	0.993	Yellow bullhead	
56	9-103 (84%)	.001	.000-.001 (110%)	0.10	0.537	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
88323	77793-98853 (12%)	1.145	.989-1.301 (14%)	391.12	158.29	All species
417	0-985 (136%)	.004	.000-.010 (136%)	1.85	0.75	Black crappie
42089	33974-50205 (19%)	.612	.489-.735 (20%)	186.38	75.43	Bluegill
3	0-11 (226%)	.000	.000-.001 (226%)	0.02	0.01	Bowfin
45	0-99 (121%)	.001	.000-.002 (156%)	0.20	0.08	Carp
5376	4298-6455 (20%)	.084	.059-.109 (30%)	23.81	9.64	Channel catfish
122	0-481 (294%)	.001	.000-.003 (289%)	0.54	0.22	Green sunfish
420	0-1327 (216%)	.002	.000-.005 (205%)	1.86	0.75	Gizzard shad
20938	18145-23731 (13%)	.201	.173-.229 (14%)	92.72	37.52	Largemouth bass
175	15-335 (91%)	.023	.000-.064 (176%)	0.78	0.31	Longear sunfish
6	0-16 (152%)	.000	.000-.001 (214%)	0.03	0.01	Pumpkinseed
187	0-398 (113%)	.004	.000-.008 (127%)	0.83	0.34	Redear sunfish
525	0-1323 (152%)	.007	.000-.016 (109%)	2.33	0.94	Striped bass
hybrid						
47	0-115 (143%)	.001	.000-.002 (210%)	0.21	0.08	Smallmouth bass
10	0-26 (159%)	.000	.000-.000 (151%)	0.04	0.02	Striped bass
2	0-13 (430%)	.000	.000-.000 (318%)	0.01	0.00	Tiger muskie
209	88-329 (58%)	.003	.001-.006 (84%)	0.92	0.37	Warmouth
17004	12867-21141 (24%)	.187	.135-.239 (28%)	75.30	30.47	White crappie
329	55-602 (83%)	.005	.000-.012 (143%)	1.46	0.59	Yellow bullhead
416	218-613 (47%)	.010	.001-.018 (94%)	1.84	0.74	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
14514	12806-16222 (12%)	.165	.145-.185 (12%)	64.27	0.164	All species
39	0-94 (142%)	.000	.000-.001 (146%)	0.17	0.093	Black crappie
1534	1247-1821 (19%)	.024	.018-.030 (24%)	6.79	0.036	Bluegill
0	0-0 (223%)	.000	.000-.000 (223%)	0.00	0.035	Bowfin
66	0-162 (146%)	.001	.000-.001 (155%)	0.29	1.497	Carp
1454	1148-1760 (21%)	.021	.015-.027 (27%)	6.44	0.270	Channel catfish
4	0-15 (291%)	.000	.000-.000 (286%)	0.02	0.031	Green sunfish
8	0-24 (196%)	.000	.000-.000 (185%)	0.04	0.019	Gizzard shad
9815	8201-11428 (16%)	.097	.080-.114 (17%)	43.46	0.469	Largemouth bass
10	0-21 (108%)	.002	.000-.005 (191%)	0.04	0.057	Longear sunfish
0	0-0 (152%)	.000	.000-.000 (214%)	0.00	0.025	Pumpkinseed
14	0-31 (118%)	.000	.000-.001 (145%)	0.06	0.075	Redear sunfish
135	0-315 (134%)	.002	.000-.004 (99%)	0.60	0.257	Striped bass
hybrid						
10	0-24 (146%)	.000	.000-.000 (192%)	0.04	0.205	Smallmouth bass
30	0-95 (217%)	.000	.000-.000 (215%)	0.13	3.001	Striped bass
1	0-6 (430%)	.000	.000-.000 (318%)	0.01	0.577	Tiger muskie
27	5-50 (83%)	.000	.000-.001 (87%)	0.12	0.131	Warmouth
1164	848-1481 (27%)	.014	.008-.020 (44%)	5.16	0.068	White crappie
139	0-285 (105%)	.002	.000-.007 (213%)	0.61	0.423	Yellow bullhead
65	30-100 (53%)	.001	.000-.003 (93%)	0.29	0.157	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
31998	28231-35764 (12%)	.364	.319-.408 (12%)	57.34	0.362	All species
86	0-208 (142%)	.001	.000-.002 (146%)	0.15	0.206	Black crappie
3382	2748-4015 (19%)	.053	.040-.065 (24%)	6.06	0.080	Bluegill
0	0-1 (223%)	.000	.000-.000 (223%)	0.00	0.078	Bowfin
145	0-357 (146%)	.001	.000-.003 (155%)	0.26	3.299	Carp
3205	2531-3880 (21%)	.047	.034-.060 (27%)	5.74	0.596	Channel catfish
8	0-32 (291%)	.000	.000-.000 (286%)	0.01	0.068	Green sunfish
18	0-53 (196%)	.000	.000-.000 (185%)	0.03	0.042	Gizzard shad
21638	18081-25194 (16%)	.214	.177-.251 (17%)	38.78	1.033	Largemouth bass
22	0-45 (108%)	.004	.000-.011 (191%)	0.04	0.125	Longear sunfish
0	0-1 (152%)	.000	.000-.000 (214%)	0.00	0.055	Pumpkinseed
31	0-67 (118%)	.001	.000-.001 (145%)	0.06	0.166	Redear sunfish
297	0-695 (134%)	.004	.000-.008 (99%)	0.53	0.566	Striped bass
hybrid						
21	0-52 (146%)	.000	.000-.001 (192%)	0.04	0.452	Smallmouth bass
66	0-210 (217%)	.000	.000-.001 (215%)	0.12	6.616	Striped bass
3	0-13 (430%)	.000	.000-.000 (430%)	0.00	1.273	Tiger muskie
60	10-110 (83%)	.001	.000-.002 (87%)	0.11	0.288	Warmouth
2567	1869-3265 (27%)	.031	.017-.044 (44%)	4.60	0.151	White crappie
306	0-628 (105%)	.005	.000-.015 (213%)	0.55	0.932	Yellow bullhead
144	67-220 (53%)	.003	.000-.006 (93%)	0.26	0.346	Yellow bass