

ILLINOIS NATURAL HISTORY SURVEY
 CENTER FOR AQUATIC ECOLOGY
 1992 CREEL SURVEY RESULTS

1992 WELDON SPRINGS
 29 ACRES
 REGION 3, DISTRICT 8

STRATIFICATION SUMMARY:

Day creel only.
 Results cover 03/15/1992 through 11/15/1992
 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: 346/738 = 46.9%

NUMBER OF INTERVIEWS: 2725

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	2281	1821-2741 (20%)	79	63-95 (20%)	24%
	HOLIDAY	3729	3269-4189 (12%)	129	113-144 (12%)	54%
	TOTAL	6010	5360-6661 (11%)	207	185-230 (11%)	43%
SHORE	WEEKDAY	7123	6238-8007 (12%)	246	215-276 (12%)	19%
	HOLIDAY	7710	6904-8515 (10%)	266	238-294 (10%)	35%
	TOTAL	14832	13636-16028 (8%)	511	470-553 (8%)	27%
BOAT & SHORE	WEEKDAY	9404	8407-10401 (11%)	324	290-359 (11%)	20%
	HOLIDAY	11439	10512-12366 (8%)	394	362-426 (8%)	41%
	TOTAL	20842	19481-22204 (7%)	719	672-766 (7%)	32%

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

# HARVESTED	95% CI		#/HOUR	95% CI	#/HA	#/ACRE	SPECIES
6562	5387-7736	(18%)	.261	.210-.312 (20%)	559.12	226.27	All species
6	0-15	(146%)	.000	.000-.000 (140%)	0.54	0.22	Black bullhead
683	407-959	(40%)	.039	.021-.056 (45%)	58.23	23.56	Black crappie
2592	1722-3462	(34%)	.093	.052-.134 (45%)	220.83	89.37	Bluegill
4	0-11	(174%)	.000	.000-.000 (175%)	0.35	0.14	Brown bullhead
165	59-271	(64%)	.005	.000-.012 (157%)	14.09	5.70	Bluegill x
Redear s							
3	0-11	(211%)	.000	.000-.000 (212%)	0.29	0.12	Carp
1340	907-1772	(32%)	.067	.042-.093 (37%)	114.14	46.19	Channel catfish
			****	NOT RECORDED ****			Flathead
catfish							
2	0-6	(226%)	.000	.000-.000 (226%)	0.16	0.06	Green sunfish
1335	1043-1627	(22%)	.047	.036-.058 (24%)	113.75	46.04	Largemouth bass
431	160-703	(63%)	.010	.002-.017 (79%)	36.74	14.87	Redear sunfish
			****	NOT RECORDED ****			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
2034	1713-2356	(16%)	.083	.068-.099 (18%)	173.34	0.310	All species
6	0-15	(139%)	.000	.000-.001 (148%)	0.54	1.058	Black bullhead
136	87-185	(36%)	.008	.004-.011 (43%)	11.59	0.199	Black crappie
191	131-252	(32%)	.007	.004-.009 (38%)	16.28	0.074	Bluegill
3	0-8	(204%)	.000	.000-.000 (205%)	0.22	0.642	Brown bullhead
26	7-45	(72%)	.001	.000-.003 (176%)	2.22	0.158	Bluegill x
Redear s							
2	0-7	(212%)	.000	.000-.000 (212%)	0.19	0.738	Carp
448	285-610	(36%)	.025	.013-.037 (47%)	38.13	0.334	Channel catfish
			****	NOT RECORDED ****			Flathead
catfish							
0	0-0	(231%)	.000	.000-.000 (231%)	0.01	0.135	Green sunfish
1126	876-1375	(22%)	.040	.031-.050 (24%)	95.91	0.843	Largemouth bass
97	27-166	(72%)	.002	.000-.004 (78%)	8.25	0.225	Redear sunfish
			****	NOT RECORDED ****			White crappie

1992 WELDON SPRINGS

DAY CREEL

03/15/1992 - 11/15/1992

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

LB HARVESTED	95% CI		LB/HOUR	95% CI	LB/ACRE	AVE LB	SPECIES
4485	3777-5193	(16%)	.183	.150-.217 (18%)	154.65	0.684	All species
14	0-33	(139%)	.000	.000-.001 (148%)	0.48	2.333	Black bullhead
300	192-407	(36%)	.017	.009-.024 (43%)	10.34	0.439	Black crappie
421	288-555	(32%)	.015	.009-.020 (38%)	14.53	0.163	Bluegill
6	0-17	(204%)	.000	.000-.000 (205%)	0.20	1.415	Brown bullhead
57	16-99	(72%)	.002	.000-.006 (176%)	1.98	0.348	Bluegill x
Redear s							
5	0-15	(211%)	.000	.000-.000 (211%)	0.17	1.627	Carp
987	628-1345	(36%)	.056	.030-.082 (47%)	34.02	0.737	Channel catfish
			****	NOT RECORDED ****			Flathead
catfish							
0	0-1	(231%)	.000	.000-.000 (226%)	0.01	0.297	Green sunfish
2481	1932-3031	(22%)	.089	.068-.111 (24%)	85.57	1.859	Largemouth bass
214	60-367	(72%)	.005	.001-.008 (78%)	7.36	0.495	Redear sunfish
			****	NOT RECORDED ****			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
12609	11008-14209	(13%)	.494	.426-.562 (14%)	1074.36	434.79	All species
8	0-18	(121%)	.000	.000-.001 (115%)	0.69	0.28	Black bullhead
1138	747-1529	(34%)	.076	.035-.117 (54%)	96.95	39.23	Black crappie
3844	2878-4809	(25%)	.124	.082-.166 (34%)	327.51	132.54	Bluegill
5	0-13	(137%)	.000	.000-.000 (132%)	0.46	0.19	Brown bullhead
176	69-283	(61%)	.005	.000-.013 (153%)	15.00	6.07	Bluegill x
Redear s							
15	0-33	(114%)	.000	.000-.001 (160%)	1.30	0.53	Carp
1595	1145-2045	(28%)	.075	.050-.101 (34%)	135.94	55.01	Channel catfish
7	0-25	(236%)	.000	.000-.000 (245%)	0.63	0.26	Flathead
catfish							
8	0-18	(125%)	.000	.000-.000 (143%)	0.68	0.27	Green sunfish
5322	4541-6103	(15%)	.203	.167-.239 (18%)	453.47	183.52	Largemouth bass
484	204-764	(58%)	.010	.003-.018 (74%)	41.22	16.68	Redear sunfish
6	0-21	(257%)	.000	.000-.000 (257%)	0.50	0.20	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
4132	3622-4641	(12%)	.165	.142-.187 (14%)	352.07	0.328	All species
9	0-19	(114%)	.000	.000-.001 (114%)	0.77	1.129	Black bullhead
195	132-259	(33%)	.015	.005-.026 (68%)	16.62	0.172	Black crappie
254	190-318	(25%)	.008	.006-.011 (31%)	21.64	0.066	Bluegill
3	0-9	(148%)	.000	.000-.000 (141%)	0.29	0.687	Brown bullhead
27	8-46	(69%)	.001	.000-.003 (173%)	2.30	0.153	Bluegill x
Redear s							
5	0-11	(114%)	.000	.000-.000 (129%)	0.42	0.330	Carp
490	327-653	(33%)	.027	.015-.038 (44%)	41.78	0.307	Channel catfish
2	0-7	(245%)	.000	.000-.000 (236%)	0.16	0.271	Flathead
catfish							
0	0-1	(122%)	.000	.000-.000 (138%)	0.03	0.047	Green sunfish
3044	2602-3487	(15%)	.111	.092-.129 (17%)	259.41	0.572	Largemouth bass
101	32-171	(69%)	.002	.001-.004 (76%)	8.64	0.210	Redear sunfish
0	0-1	(245%)	.000	.000-.000 (257%)	0.01	0.034	White crappie

1992 WELDON SPRINGS

DAY CREEL

03/15/1992 - 11/15/1992

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

LB CAUGHT	95% CI		LB/HOUR	95% CI	LB/ACRE	AVE LB	SPECIES
9109	7986-10233	(12%)	.363	.313-.413 (14%)	314.12	0.723	All species
20	0-42	(114%)	.001	.000-.002 (114%)	0.69	2.488	Black bullhead
430	290-570	(33%)	.034	.011-.057 (68%)	14.83	0.378	Black crappie
560	418-702	(25%)	.018	.012-.024 (31%)	19.31	0.146	Bluegill
8	0-19	(148%)	.000	.000-.000 (141%)	0.26	1.515	Brown bullhead
59	18-101	(69%)	.002	.000-.006 (173%)	2.05	0.338	Bluegill x
Redear s							
11	0-23	(114%)	.000	.000-.000 (129%)	0.38	0.727	Carp
1081	721-1440	(33%)	.059	.033-.085 (44%)	37.27	0.678	Channel catfish
4	0-14	(236%)	.000	.000-.000 (245%)	0.14	0.597	Flathead
catfish							
1	0-2	(122%)	.000	.000-.000 (138%)	0.03	0.104	Green sunfish
6712	5736-7688	(15%)	.244	.204-.285 (17%)	231.44	1.261	Largemouth bass
223	70-377	(69%)	.005	.001-.008 (76%)	7.71	0.463	Redear sunfish
0	0-1	(257%)	.000	.000-.000 (245%)	0.01	0.075	White crappie

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SAMPLING RATIO: 143/279 = 51.3%

NUMBER OF INTERVIEWS: 1536

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	1088	833-1342 (23%)	38	29-46 (23%)	28%
	HOLIDAY	1723	1468-1978 (15%)	59	51-68 (15%)	60%
	TOTAL	2811	2459-3162 (13%)	97	85-109 (13%)	47%
SHORE	WEEKDAY	4097	3480-4713 (15%)	141	120-163 (15%)	19%
	HOLIDAY	4407	3861-4953 (12%)	152	133-171 (12%)	37%
	TOTAL	8504	7718-9289 (9%)	293	266-320 (9%)	29%
BOAT & SHORE	WEEKDAY	5184	4545-5824 (12%)	179	157-201 (12%)	21%
	HOLIDAY	6130	5554-6706 (9%)	211	192-231 (9%)	43%
	TOTAL	11314	10454-12175 (8%)	390	360-420 (8%)	33%

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

# HARVESTED	95% CI		#/HOUR	95% CI	#/HA	#/ACRE	SPECIES
4002	3123-4882	(22%)	.289	.224-.353 (22%)	341.03	138.01	All species
2	0-7	(216%)	.000	.000-.001 (216%)	0.18	0.07	Black bullhead
388	204-572	(48%)	.050	.014-.087 (73%)	33.05	13.37	Black crappie
1688	1039-2337	(38%)	.097	.054-.140 (44%)	143.83	58.21	Bluegill
4	0-11	(174%)	.000	.000-.001 (175%)	0.35	0.14	Brown bullhead
147	40-253	(73%)	.005	.001-.009 (84%)	12.50	5.06	Bluegill x
Redear s			****	NOT RECORDED ****			Carp
435	278-593	(36%)	.046	.027-.064 (41%)	37.11	15.02	Channel catfish
			****	NOT RECORDED ****			Flathead
catfish							
2	0-6	(226%)	.000	.000-.000 (231%)	0.16	0.06	Green sunfish
956	707-1206	(26%)	.077	.054-.100 (30%)	81.50	32.98	Largemouth bass
380	112-648	(71%)	.013	.004-.022 (66%)	32.36	13.10	Redear sunfish
			****	NOT RECORDED ****			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
1263	1024-1501	(19%)	.102	.081-.124 (21%)	107.59	0.316	All species
3	0-10	(214%)	.000	.000-.001 (216%)	0.28	1.617	Black bullhead
77	42-112	(46%)	.009	.003-.014 (65%)	6.53	0.198	Black crappie
121	79-162	(35%)	.007	.004-.009 (41%)	10.27	0.071	Bluegill
3	0-8	(204%)	.000	.000-.000 (205%)	0.22	0.642	Brown bullhead
22	5-40	(79%)	.001	.000-.002 (91%)	1.89	0.152	Bluegill x
Redear s			****	NOT RECORDED ****			Carp
144	91-196	(36%)	.016	.009-.024 (47%)	12.26	0.331	Channel catfish
			****	NOT RECORDED ****			Flathead
catfish							
0	0-0	(231%)	.000	.000-.000 (226%)	0.01	0.135	Green sunfish
808	595-1022	(26%)	.067	.046-.087 (31%)	68.87	0.845	Largemouth bass
85	17-154	(81%)	.003	.001-.005 (77%)	7.27	0.225	Redear sunfish
			****	NOT RECORDED ****			White crappie

1992 WELDON SPRINGS

DAY CREEL

03/15/1992 - 06/15/1992

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

LB HARVESTED	95% CI		LB/HOUR	95% CI	LB/ACRE	AVE LB	SPECIES
2784	2258-3310	(19%)	.226	.178-.274 (21%)	95.99	0.696	All species
7	0-22	(214%)	.001	.000-.002 (216%)	0.25	3.565	Black bullhead
169	92-246	(46%)	.019	.007-.031 (65%)	5.82	0.436	Black crappie
266	174-358	(35%)	.015	.009-.021 (41%)	9.16	0.157	Bluegill
6	0-17	(204%)	.000	.000-.001 (205%)	0.20	1.415	Brown bullhead
49	10-88	(79%)	.002	.000-.003 (91%)	1.69	0.335	Bluegill x
Redear s			****	NOT RECORDED ****			Carp
317	202-433	(36%)	.036	.019-.053 (47%)	10.94	0.729	Channel catfish
			****	NOT RECORDED ****			Flathead
catfish							
0	0-1	(231%)	.000	.000-.000 (231%)	0.01	0.297	Green sunfish
1782	1311-2253	(26%)	.147	.102-.192 (31%)	61.45	1.864	Largemouth bass
188	37-340	(81%)	.006	.001-.011 (77%)	6.48	0.496	Redear sunfish
			****	NOT RECORDED ****			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
8461	7144-9779	(16%)	.629	.534-.723	(15%)	720.97	291.77	All species
2	0-7	(216%)	.000	.000-.001	(216%)	0.18	0.07	Black bullhead
742	405-1079	(45%)	.074	.035-.113	(53%)	63.22	25.58	Black crappie
2485	1763-3206	(29%)	.130	.084-.176	(35%)	211.70	85.67	Bluegill
5	0-13	(137%)	.000	.000-.001	(132%)	0.46	0.19	Brown bullhead
151	44-258	(71%)	.005	.001-.010	(82%)	12.87	5.21	Bluegill x
Redear s								
12	0-28	(138%)	.000	.000-.001	(185%)	1.01	0.41	Carp
520	353-686	(32%)	.055	.035-.075	(37%)	44.27	17.92	Channel catfish
7	0-25	(236%)	.000	.000-.001	(236%)	0.63	0.26	Flathead
catfish								
5	0-12	(158%)	.000	.000-.001	(217%)	0.39	0.16	Green sunfish
4096	3398-4793	(17%)	.349	.273-.424	(22%)	349.00	141.24	Largemouth bass
431	155-707	(64%)	.015	.006-.024	(61%)	36.74	14.87	Redear sunfish
6	0-21	(257%)	.000	.000-.001	(257%)	0.50	0.20	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
2922	2489-3355	(15%)	.244	.202-.285	(17%)	248.99	0.345	All species
3	0-10	(214%)	.000	.000-.001	(216%)	0.28	1.617	Black bullhead
114	64-165	(44%)	.011	.005-.017	(52%)	9.72	0.154	Black crappie
164	118-209	(28%)	.009	.006-.011	(34%)	13.96	0.066	Bluegill
3	0-9	(148%)	.000	.000-.000	(141%)	0.29	0.687	Brown bullhead
23	5-41	(76%)	.001	.000-.002	(88%)	1.96	0.153	Bluegill x
Redear s								
3	0-6	(131%)	.000	.000-.000	(170%)	0.23	0.248	Carp
157	104-210	(34%)	.018	.010-.025	(43%)	13.35	0.302	Channel catfish
2	0-7	(245%)	.000	.000-.000	(245%)	0.16	0.271	Flathead
catfish								
0	0-1	(153%)	.000	.000-.000	(199%)	0.02	0.058	Green sunfish
2363	1968-2759	(17%)	.202	.160-.243	(21%)	201.37	0.577	Largemouth bass
89	21-158	(77%)	.003	.001-.005	(74%)	7.62	0.208	Redear sunfish
0	0-1	(245%)	.000	.000-.000	(257%)	0.01	0.034	White crappie

1992 WELDON SPRINGS

DAY CREEL

03/15/1992 - 06/15/1992

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

LB CAUGHT	95% CI		LB/HOUR	95% CI	LB/ACRE	AVE LB	SPECIES
6442	5487-7397	(15%)	.537	.446-.628 (17%)	222.15	0.761	All species
7	0-22	(214%)	.001	.000-.002 (216%)	0.25	3.565	Black bullhead
252	140-363	(44%)	.024	.012-.037 (52%)	8.67	0.339	Black crappie
361	261-461	(28%)	.019	.013-.025 (34%)	12.46	0.145	Bluegill
8	0-19	(148%)	.000	.000-.001 (141%)	0.26	1.515	Brown bullhead
51	12-90	(76%)	.002	.000-.003 (88%)	1.75	0.336	Bluegill x
Redear s							
6	0-14	(131%)	.000	.000-.001 (170%)	0.21	0.547	Carp
345	229-462	(34%)	.039	.022-.056 (43%)	11.91	0.666	Channel catfish
4	0-14	(236%)	.000	.000-.000 (236%)	0.14	0.597	Flathead
catfish							
1	0-1	(153%)	.000	.000-.000 (199%)	0.02	0.128	Green sunfish
5210	4338-6082	(17%)	.445	.353-.536 (21%)	179.66	1.272	Largemouth bass
197	45-349	(77%)	.007	.002-.012 (74%)	6.80	0.458	Redear sunfish
0	0-1	(257%)	.000	.000-.000 (245%)	0.01	0.075	White crappie