

ILLINOIS NATURAL HISTORY SURVEY
 CENTER FOR AQUATIC ECOLOGY
 1994 CREEL SURVEY RESULTS

1994 WELDON SPRINGS
 29 ACRES
 REGION 3, DISTRICT 13

STRATIFICATION SUMMARY:

Day creel only.
 Results cover 03/15/1994 through 11/15/1994
 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: 338/738 = 45.8%

NUMBER OF INTERVIEWS: 3788

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	3398	2792-4003 (18%)	117	96-138 (18%)	28%
	HOLIDAY	5089	4442-5736 (13%)	175	153-198 (13%)	59%
	TOTAL	8487	7601-9372 (10%)	293	262-323 (10%)	46%
SHORE	WEEKDAY	8767	7813-9722 (11%)	302	269-335 (11%)	21%
	HOLIDAY	9340	8333-10347 (11%)	322	287-357 (11%)	40%
	TOTAL	18107	16720-19494 (8%)	624	577-672 (8%)	31%
BOAT & SHORE	WEEKDAY	12165	11035-13295 (9%)	419	381-458 (9%)	23%
	HOLIDAY	14429	13232-15626 (8%)	498	456-539 (8%)	47%
	TOTAL	26594	24947-28240 (6%)	917	860-974 (6%)	36%

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

# HARVESTED	95% CI	#/HOUR	95% CI	#/HA	#/ACRE	SPECIES
12533	10749-14318 (14%)	.507	.411-.604 (19%)	1067.93	432.18	All species
2	0-6 (153%)	.000	.000-.000 (163%)	0.20	0.08	Bluegill x Green sun
5	0-11 (118%)	.000	.000-.000 (136%)	0.41	0.17	Black bullhead
8423	6895-9951 (18%)	.367	.276-.458 (25%)	717.69	290.45	Black crappie
2165	1308-3021 (40%)	.070	.044-.095 (36%)	184.46	74.65	Bluegill
35	7-62 (79%)	.000	.000-.001 (90%)	2.97	1.20	Brown bullhead
126	70-183 (45%)	.002	.001-.004 (51%)	10.77	4.36	Bluegill x Redear Carp
		****	NOT RECORDED	****		
1140	860-1419 (25%)	.046	.032-.060 (30%)	97.12	39.30	Channel catfish
7	0-18 (149%)	.000	.000-.000 (169%)	0.63	0.26	Golden shiner
12	0-30 (146%)	.000	.000-.001 (278%)	1.05	0.43	Green sunfish
236	156-315 (34%)	.009	.000-.022 (136%)	20.09	8.13	Largemouth bass
3	0-11 (278%)	.000	.000-.000 (278%)	0.24	0.10	Redear x Green sun
375	249-501 (34%)	.011	.005-.018 (55%)	31.93	12.92	Redear sunfish
4	0-14 (245%)	.000	.000-.001 (245%)	0.35	0.14	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
1929	1683-2176 (13%)	.082	.067-.096 (17%)	164.38	0.154	All species
0	0-1 (153%)	.000	.000-.000 (163%)	0.02	0.116	Bluegill x Green sun
3	0-7 (137%)	.000	.000-.000 (157%)	0.27	0.784	Black bullhead
964	786-1141 (18%)	.045	.033-.056 (26%)	82.12	0.114	Black crappie
180	120-239 (33%)	.006	.004-.009 (43%)	15.33	0.083	Bluegill
17	3-30 (80%)	.000	.000-.000 (79%)	1.42	0.491	Brown bullhead
21	5-37 (77%)	.000	.000-.001 (63%)	1.77	0.165	Bluegill x Redear Carp
		****	NOT RECORDED	****		
467	345-589 (26%)	.018	.012-.024 (32%)	39.78	0.410	Channel catfish
1	0-2 (164%)	.000	.000-.000 (148%)	0.07	0.113	Golden shiner
1	0-2 (152%)	.000	.000-.000 (305%)	0.07	0.069	Green sunfish
210	138-282 (34%)	.009	.000-.017 (101%)	17.87	0.892	Largemouth bass
0	0-1 (278%)	.000	.000-.000 (278%)	0.03	0.166	Redear x Green sun
65	46-85 (30%)	.003	.000-.006 (102%)	5.57	0.175	Redear sunfish
1	0-3 (236%)	.000	.000-.000 (236%)	0.06	0.187	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
4253	3710-4797	(13%)	.180	.149-.211 (17%)	146.66	0.339	All species
1	0-1	(153%)	.000	.000-.000 (163%)	0.02	0.257	Bluegill x Green sun
7	0-16	(137%)	.000	.000-.001 (157%)	0.24	1.729	Black bullhead
2125	1733-2517	(18%)	.099	.073-.124 (26%)	73.27	0.252	Black crappie
397	265-528	(33%)	.014	.008-.020 (43%)	13.68	0.183	Bluegill
37	7-66	(80%)	.000	.000-.001 (79%)	1.27	1.081	Brown bullhead
46	11-81	(77%)	.001	.000-.001 (63%)	1.58	0.363	Bluegill x Redear
			****	NOT RECORDED	****		Carp
1029	760-1299	(26%)	.040	.027-.053 (32%)	35.49	0.904	Channel catfish
2	0-5	(164%)	.000	.000-.000 (148%)	0.06	0.249	Golden shiner
2	0-5	(152%)	.000	.000-.000 (305%)	0.06	0.153	Green sunfish
462	304-621	(34%)	.019	.000-.038 (101%)	15.94	1.967	Largemouth bass
1	0-3	(257%)	.000	.000-.000 (257%)	0.03	0.366	Redear x Green sun
144	102-187	(30%)	.007	.000-.014 (102%)	4.97	0.385	Redear sunfish
2	0-6	(245%)	.000	.000-.000 (236%)	0.06	0.412	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
42089	37518-46660 (11%)	1.363	1.196-1.529 (12%)	3586.30	1451.36	All species
2	0-6 (153%)	.000	.000-.000 (163%)	0.20	0.08	Bluegill x Green sun
7	0-15 (109%)	.000	.000-.000 (125%)	0.61	0.25	Black bullhead
19704	16222-23186 (18%)	.714	.574-.855 (20%)	1678.90	679.44	Black crappie
16561	14322-18801 (14%)	.398	.330-.466 (17%)	1411.14	571.08	Bluegill
38	10-67 (74%)	.001	.000-.001 (79%)	3.27	1.32	Brown bullhead
156	96-216 (38%)	.003	.002-.004 (43%)	13.29	5.38	Bluegill x Redear
3	0-9 (236%)	.000	.000-.000 (245%)	0.22	0.09	Carp
2650	2012-3288 (24%)	.115	.059-.172 (49%)	225.79	91.37	Channel catfish
24	0-48 (100%)	.001	.000-.002 (132%)	2.04	0.83	Golden shiner
60	16-104 (74%)	.001	.000-.003 (102%)	5.09	2.06	Green sunfish
2011	1698-2323 (16%)	.098	.065-.132 (35%)	171.33	69.33	Largemouth bass
3	0-11 (278%)	.000	.000-.000 (278%)	0.24	0.10	Redear x Green sun
867	616-1117 (29%)	.029	.013-.045 (54%)	73.84	29.88	Redear sunfish
4	0-14 (245%)	.000	.000-.001 (245%)	0.35	0.14	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
4293	3884-4701 (10%)	.176	.142-.210 (19%)	365.76	0.102	All species
0	0-1 (153%)	.000	.000-.000 (163%)	0.02	0.116	Bluegill x Green sun
3	0-8 (130%)	.000	.000-.000 (155%)	0.28	0.472	Black bullhead
1715	1436-1995 (16%)	.069	.055-.084 (21%)	146.16	0.087	Black crappie
750	642-858 (14%)	.021	.016-.025 (20%)	63.92	0.045	Bluegill
19	5-34 (74%)	.000	.000-.001 (86%)	1.65	0.510	Brown bullhead
24	8-40 (66%)	.000	.000-.001 (54%)	2.05	0.155	Bluegill x Redear
3	0-9 (245%)	.000	.000-.000 (245%)	0.22	1.280	Carp
731	564-898 (23%)	.029	.021-.036 (25%)	62.29	0.276	Channel catfish
2	0-5 (142%)	.000	.000-.000 (134%)	0.17	0.085	Golden shiner
2	1-4 (79%)	.000	.000-.000 (127%)	0.21	0.042	Green sunfish
926	743-1110 (20%)	.051	.013-.090 (75%)	78.93	0.461	Largemouth bass
0	0-1 (278%)	.000	.000-.000 (278%)	0.03	0.166	Redear x Green sun
115	87-142 (24%)	.005	.002-.009 (66%)	9.77	0.132	Redear sunfish
1	0-3 (236%)	.000	.000-.000 (236%)	0.06	0.187	White crappie

1994 WELDON SPRINGS

DAY CREEL

03/15/1994 - 11/15/1994

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

LB CAUGHT	95% CI	LB/HOUR	95% CI	LB/ACRE	AVE LB	SPECIES
9463	8562-10365 (10%)	.388	.314-.463 (19%)	326.33	0.225	All species
1	0-1 (153%)	.000	.000-.000 (163%)	0.02	0.257	Bluegill x Green sun
7	0-17 (130%)	.000	.000-.001 (155%)	0.25	1.041	Black bullhead
3782	3166-4398 (16%)	.153	.122-.185 (21%)	130.41	0.192	Black crappie
1654	1416-1892 (14%)	.045	.036-.055 (20%)	57.03	0.100	Bluegill
43	11-74 (74%)	.001	.000-.001 (86%)	1.47	1.124	Brown bullhead
53	18-88 (66%)	.001	.000-.002 (54%)	1.83	0.341	Bluegill x Redear
6	0-19 (245%)	.000	.000-.001 (236%)	0.19	2.822	Carp
1612	1244-1979 (23%)	.063	.047-.078 (25%)	55.58	0.608	Channel catfish
4	0-10 (142%)	.000	.000-.000 (134%)	0.15	0.187	Golden shiner
5	1-10 (79%)	.000	.000-.000 (127%)	0.19	0.093	Green sunfish
2042	1638-2446 (20%)	.113	.028-.198 (75%)	70.42	1.016	Largemouth bass
1	0-3 (257%)	.000	.000-.000 (257%)	0.03	0.366	Redear x Green sun
253	192-313 (24%)	.012	.004-.019 (66%)	8.71	0.292	Redear sunfish
2	0-6 (245%)	.000	.000-.000 (236%)	0.06	0.412	White crappie

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 Day types (weekday vs. weekend/holiday) stratified.
 Day periods (morning, midday, and afternoon) stratified.

SAMPLING RATIO: 133/279 = 47.7%

NUMBER OF INTERVIEWS: 1896

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	1877	1453-2302 (23%)	65	50-79 (23%)	29%
	HOLIDAY	2285	1844-2726 (19%)	79	64-94 (19%)	65%
	TOTAL	4162	3579-4745 (14%)	144	123-164 (14%)	49%
SHORE	WEEKDAY	3861	3250-4471 (16%)	133	112-154 (16%)	23%
	HOLIDAY	4763	3901-5626 (18%)	164	135-194 (18%)	43%
	TOTAL	8624	7626-9622 (12%)	297	263-332 (12%)	34%
BOAT & SHORE	WEEKDAY	5738	5038-6438 (12%)	198	174-222 (12%)	25%
	HOLIDAY	7048	6129-7967 (13%)	243	211-275 (13%)	50%
	TOTAL	12786	11631-13942 (9%)	441	401-481 (9%)	39%

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

# HARVESTED	95% CI		#/HOUR	95% CI	#/HA	#/ACRE	SPECIES
7120	5673-8566	(20%)	.574	.408-.741 (29%)	606.64	245.50	All species
2	0-6	(153%)	.000	.000-.001 (163%)	0.20	0.08	Bluegill x Green sun
1	0-5	(430%)	.000	.000-.000 (318%)	0.09	0.03	Black bullhead
5202	3961-6442	(24%)	.463	.305-.620 (34%)	443.22	179.37	Black crappie
1164	375-1953	(68%)	.063	.025-.100 (59%)	99.16	40.13	Bluegill
7	0-17	(133%)	.000	.000-.001 (153%)	0.61	0.25	Brown bullhead
52	4-100	(92%)	.002	.000-.004 (85%)	4.45	1.80	Bluegill x Redear Carp
			****	NOT RECORDED	****		
343	64-621	(81%)	.027	.010-.044 (64%)	29.19	11.81	Channel catfish
3	0-11	(278%)	.000	.000-.001 (278%)	0.24	0.10	Golden shiner
12	0-30	(146%)	.001	.000-.002 (278%)	1.05	0.43	Green sunfish
183	109-258	(41%)	.013	.007-.019 (44%)	15.63	6.32	Largemouth bass
3	0-11	(278%)	.000	.000-.001 (278%)	0.24	0.10	Redear x Green sun
143	30-256	(79%)	.005	.002-.008 (62%)	12.20	4.94	Redear sunfish
4	0-14	(245%)	.000	.000-.001 (236%)	0.35	0.14	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
946	782-1110	(17%)	.075	.057-.093 (24%)	80.63	0.133	