



South Long/Edward Lake Access Based Creel

Brainerd Area Fisheries Office

Creel Methods Overview

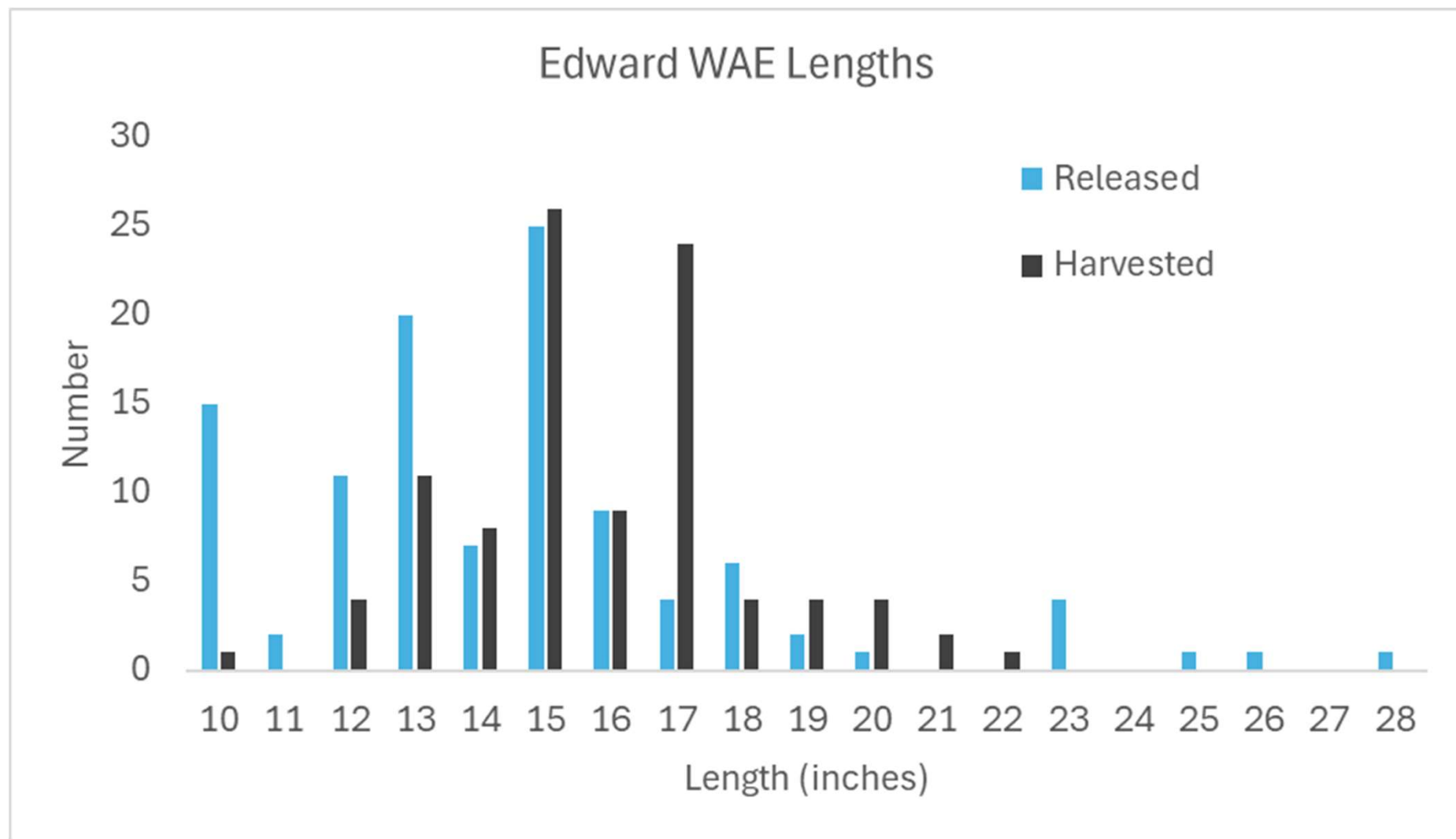
- Public Access at Edward and Lower South Long
 - Split Days ~4 hours at each access a day
 - Stratified by day type and weekend/weekday
 - Fish measured to nearest 0.1", spines taken from WAE for aging
 - Special interest on FFS usage, asked if used to harvest fish and how much experience

Summary Statistics

	Edward	2000 Edward	S. Long	2000 S. Long
Number of Interviews	131	1,193	76	614
Average Angler Count	2.11	2.07	2.22	2.14
Average Trip Length	3.82	2.33	3.87	2.71
Total Walleye Caught	238 (9,253)	2,043	39 (1,597)	2,049
All anglers WAE Catch Rate	0.22	0.05	0.06	0.05
% Targeting WAE	54%	59%	25%	36%
Targeted WAE Catch Rate	0.36	0.07	0.21	0.17
Targeted WAE Catch Rate - FFS	0.67		0.30	
% Walleye Caught via FFS	68%		88%	
Support of 4 WAE bag	59%		61%	
FFS Users	40 (31%)		16 (21%)	
Avg Years Using FFS	2.9		2.4	

Lake Edward

	Number Interviews	Total Angler Hours	Trip Length	Walleye Kept	Walleye Released	Total Caught	% Kept	% Total Catch	Release Rate	Harvest Rate	Catch Rate
Total	131	1044.51	3.81	108	130	238	45%	100%	0.124460273	0.103397765	0.227858039
FFS Users	40	353.4	4.08	91	71	162	56%	68%	0.20090549	0.257498585	0.458404075
All others	91	691.11	3.7	17	59	76	22%	32%	0.085369912	0.02459811	0.109968022
High Use	79	680.21	3.89	64	62	126	51%	53%	0.091148322	0.09408859	0.185236912
Weekday	52	364.3	3.69	44	68	112	39%	47%	0.186659347	0.120779577	0.307438924



2000 vs 2025 Edward Creel

2000 Creel

Species Sought	Number	Percent
Anything	5	0.4
Black Crappie	4	0.3
Bluegill	363	29.6
Largemouth bass	107	8.7
Northern pike	390	31.8
Rock bass	20	1.6
Sunfish	3	0.2
Walleye	722	58.9
Yellow perch	5	0.4
Number of interviews	1,226	NA

Species	Number caught	Number released	Percent released
Black crappie	208	0	0.0
Bluegill	55,364	39,588	71.5
Bullheads	96	96	100.0
Bowfin	185	155	83.8
Carp	9	9	100.0
Largemouth bass	6,350	5,513	86.8
Northern pike	15,602	13,076	83.8
Pumpkinseed	32	0	0.0
Rock bass	6001	4,273	71.2
Smallmouth bass	27	27	100.0
Walleye	2,043	366	17.9
Yellow perch	4,011	3,866	96.4
All species	89,927	66,967	74.5

2025 Creel

Species Sought	Number	Percent
Anything	38	29%
Black Crappie	6	5%
Bluegill	6	5%
Largemouth Bass	21	16%
Northern Pike	13	10%
Walleye	70	53%
Number of Interviews	131	

Species	Number Caught	Released	Percent Released
Black Crappie	20	7	35.0%
Bluegill	434	345	79.5%
Bowfin	1	1	100.0%
Largemouth Bass	741	726	98.0%
Northern Pike	406	383	94.3%
Rock Bass	239	225	94.1%
Smallmouth Bass	1	1	100.0%
Walleye	238	130	54.6%
Yellow Perch	208	183	88.0%
All Species	763	634	83.1%

South Long

	Number_Interviews	Angling Hours	Trip Length	Walleye Kept	Walleye Released	Total Caught	Catch Rate	Release Rate	Harvest Rate
Total	76	619.43	3.87	11	28	39	0.062961109	0.045202848	0.017758262
FFS Users	18	177.59	4.85	10	26	36	0.202714117	0.14640464	0.056309477
All Others	58	441.84	3.56	1	2	3	0.006789788	0.004526525	0.002263263
High Use	44	328.03	3.58	11	26	37	0.112794561	0.079261043	0.033533518
Weekday	32	291.4	4.26	0	2	2	0.006863418	0.006863418	0

South Long Tables

2000 Creel

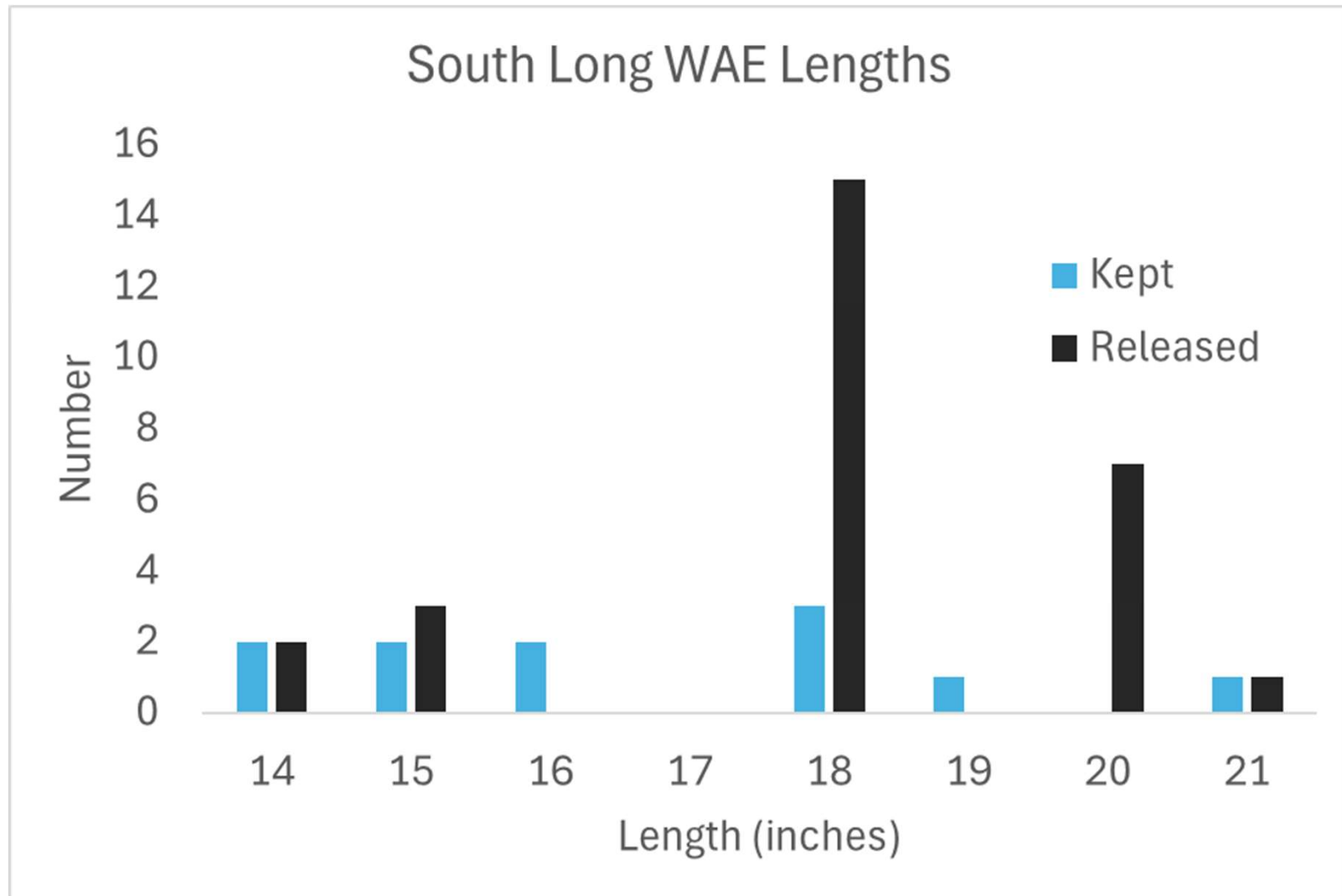
Species Sought	Percent
Black Crappie	14%
Bluegill	35%
Largemouth Bass	20%
Northern Pike	23%
Walleye	36%
Number of Interviews	614

2025 Creel

Species Sought	Percent
Anything	30%
Black Crappie	12%
Bluegill	16%
Largemouth Bass	29%
Northern Pike	7%
Walleye	25%
Number of Interviews	76

Species	Number Caught	Released	Percent Released
Black Crappie	4,309	1,145	26.6%
Bluegill	47,909	35,501	74.1%
Bowfin	19	19	100.0%
Largemouth Bass	8,129	6,652	81.8%
Northern Pike	4,393	3,606	82.1%
Rock Bass	2,806	2,484	88.5%
Walleye	1,459	272	18.6%
Yellow Perch	1,310	1,282	97.9%
All Species	71,912	52,265	72.7%

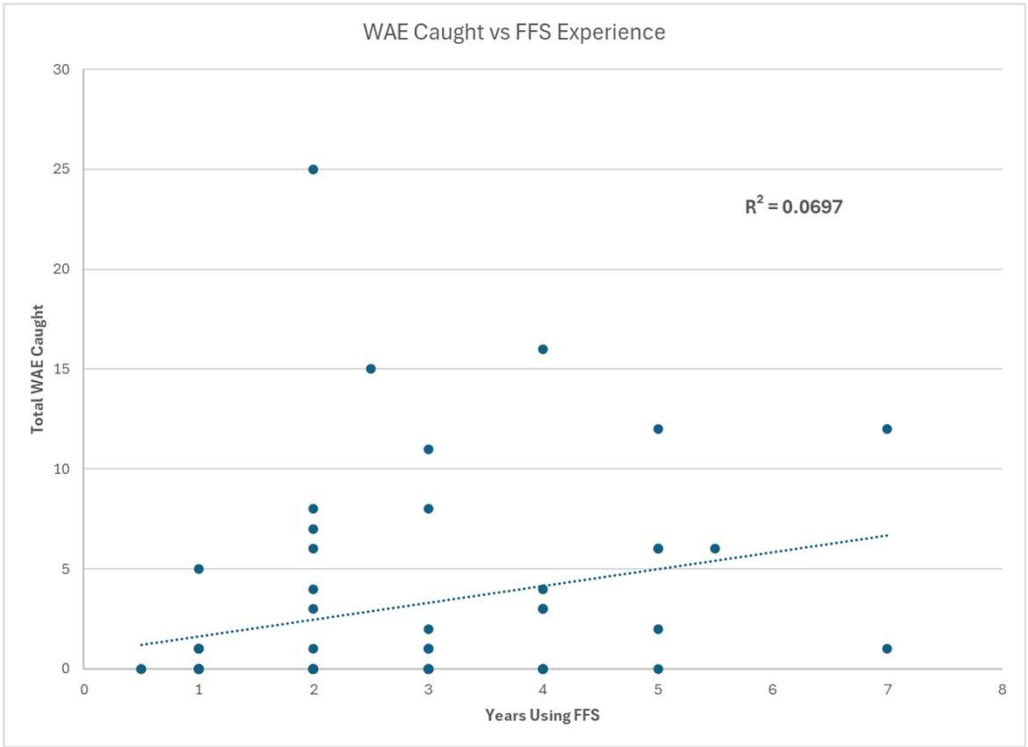
Species	Number Caught	Released	Percent Released
Black Crappie	15	14	93.3%
Bluegill	343	294	85.7%
Bowfin	1	1	100.0%
Largemouth Bass	310	303	97.7%
Northern Pike	139	132	95.0%
Rock Bass	95	92	96.8%
Walleye	40	29	72.5%
Yellow Perch	2	1	50.0%
All Species	945	866	91.6%



FFS Usage

	FFS Users	Other	Total
% of interviews	28%	72%	100%
% total angling hours	33%	67%	100%
Average boat trip (hrs)	4.3	3.6	3.8
% of total WAE Catch	73%	27%	100%
Average Years Using FFS	2.74		

Years Using FFS	Count
0.5	2
1	12
2	15
2.5	1
3	10
4	8
5	5
5.5	1
7	2
Total	56



Discussion

- Did the presentation spur any additional questions?
- How has fishing been in general this year, heard reports of WAE staying shallow longer than normal
- Any changes to creel questions?

Thank You!

MINNESOTA DEPARTMENT OF NATURAL RESOURCES SECTION OF FISHERIES				
Lower South Long Lake - Summer 2000 Creel Survey Summary				
DOW #	Lake Class	County	Lake Area	Dates of Survey
18-0136	27	Crow Wing	1313 Acres	5/13/2000 - 9/30/2000

Percent of Anglers Targeting Each Species	
Species	Percent
Crappies	14
Sunfish	35
Northern pike	23
Walleye	36
Largemouth bass	20

(Percentages add up to more than 100 due to anglers seeking more than one species)

Creel Survey Sample Sizes		
Creel count	Sample Size	Percent *
Weekdays surveyed	56	58
Weekend/Holidays surveyed	42	95
Number of angler counts	196	-
Number of interviews	614	-

*Percent of total possible within each category

Special Regulation in place during this creel survey

none

Angler Effort Characteristics

	Boat anglers	Bank/Dock anglers	All anglers
Angler hours	26,621	774	27,395
Angler Hours per Acre	20.3	0.6	20.9
Average Party Size	2.14	1.58	2.13
Average Trip Length	2.71	1.36	2.71

Harvest by Species and Angler type

Species	Boat anglers		Bank/Dock anglers		All anglers	
	Number	Pounds	Number	Pounds	Number	Pounds
Black crappie	3,164	1,529	0	0	3,164	1,529
Bluegill	12,408	2,896	212	42	12,621	2,938
Hybrid sunfish	89	32	0	0	89	32
Largemouth bass	1,477	1,529	50	32	1,527	1,562
Northern pike	787	1,862	15	15	801	1,877
Pumpkinseed	183	62	0	0	183	62
Rock bass	322	217	10	5	332	223
Walleye	1,188	2,049	10	14	1,198	2,063
Yellow Perch	28	14	0	0	28	14
All fish	19,646	10,189	297	109	19,943	10,298

For information on fisheries management on Lower South Long Lake, contact: Brainerd Area Fisheries Office, 1601 Minnesota Avenue South, Brainerd, MN 56401 Phone: 218-828-2550 The Minnesota DNR's internet access site is: www.dnr.state.mn.us

MINNESOTA DEPARTMENT OF NATURAL RESOURCES SECTION OF FISHERIES	
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Harvest Rate (Fish per hour) by Species and Angler Type

Species	Boat Anglers		Bank/Dock Anglers		All Anglers	
	Targeting	All Anglers	Targeting	All Anglers	Targeting	All Anglers
Black crappie	1.12	0.12	0	0	1.12	0.12
Bluegill	1.03	0.47	0.36	0.27	1.03	0.46
Hybrid sunfish	<0.01	<0.01	0	0	<0.01	<0.01
Largemouth bass	0.13	0.06	0.74	0.06	0.15	0.06
Northern pike	0.10	0.03	0.76	0.02	0.10	0.03
Pumpkinseed	0.02	0.01	0	0	0.02	0.01
Rock bass	4.63	0.01	-	0.01	4.63	0.01
Walleye	0.14	0.04	0.27	0.01	0.14	0.04
Yellow Perch	-	<0.01	-	0	-	<0.01
All fish	-	0.74	-	0.38	-	0.73

Length Frequency Summary for Harvested Fish

Species	Length Class (inches)										Average	
	0-4	5-6	7-8	9-10	11-12	13-16	17-20	21-24	25-29	30+	Length (in)	Weight (lb)
Black crappie		1	50	145	3						9.4	0.5
Bluegill		410	249	1							6.8	0.2
Hybrid sunfish		1	7								7.3	0.4
Largemouth bass				14	53	21	2				12.3	1.0
Northern pike							32	29	8	1	21.8	2.3
Pumpkinseed		6	1								7.2	0.3
Rock bass			7	11							9.1	0.7
Walleye				1	5	40	57	4			17.0	1.7
Yellow perch				3							9.7	0.5