

SOUTH DAKOTA STATEWIDE FISHERIES SURVEY

Enemy Swim, Day County

UBS-Lake-196-000

2024

Lake Information

Name:	Enemy Swim	Maximum Depth:	26 Feet
County:	Day	Mean Depth:	16 Feet
		OHWM Elevation:	1,854
Surface Area:	2,186 Acres	Outlet Elevation:	1,854

Surveys and Investigations

Survey methods used by gear type, date, and effort.

Gear	Date	Effort
AFS std gill net	Jun 18, 2024	4 net-nights
AFS std gill net	Jun 19, 2024	4 net-nights
AFS std gill net	Jun 20, 2024	4 net-nights
fall night EF-WAE	Sep 24, 2024	3000 seconds
frame net (std 3/4 in)	Jun 18, 2024	7 net-nights
frame net (std 3/4 in)	Jun 19, 2024	7 net-nights
frame net (std 3/4 in)	Jun 20, 2024	8 net-nights
spring night EF-LMB	May 23, 2024	1800 seconds

Common Fish Species Present

Largemouth Bass

Bluegill

Black Crappie

Walleye

Smallmouth Bass

Yellow Perch

Rock Bass

White Bass

Pumpkinseed

White Sucker

Terminology

Catch per unit effort (**CPUE**) refers to the relative abundance of a species. It is defined as the number of fish captured per unit of effort (i.e., number of fish captured per net-night or number of fish captured per hour electrofishing). In this report CPUE is typically given for only stock-length fish (see length categories table for stock lengths).

A statewide effort to help make netting efforts comparable to all waters sampled across the state, occurred in 2017, with a switch to American Fisheries Society gill nets. Past gill netting efforts were completed with different style/types of nets and are not comparable side by side.

- **AFS std gill net** – 80 ft experimental gill net containing eight panels (10 ft each) of varying monofilament meshes of 0.75, 1.00, 1.25, 1.50, 1.75, 2.00, 2.25 and 2.50 inches.
- **std experimental gill net for non-Missouri River waters** - 150 ft experimental gill net containing six panels (25 ft each) of varying monofilament meshes of 0.5, 0.75, 1.00, 1.25, 1.50 and 2.00 inches.
- **std experimental gill net for Missouri River reservoirs** – 300 ft experimental gill net containing six panels (50 ft each) of varying multifilament meshes of 0.5, 0.75, 1.00, 1.25, 1.50 and 2.00 inches.

$$CPUE = \frac{\text{number of fish}}{\text{effort}}$$

Population size structure is quantified using the indices proportional size distribution of quality-length fish (**PSD**) and proportional size distribution of preferred-length fish (**PSD-P**). These indices indicate the proportion of stock-length fish that are equal to or greater than a given length. Minimum lengths for stock, quality and preferred length fish are given in the length categories table.

$$PSD = \left(\frac{\text{number of fish} \geq \text{quality length}}{\text{number of fish} \geq \text{stock length}} \right) \times 100$$

$$PSD - P = \left(\frac{\text{number of fish} \geq \text{preferred length}}{\text{number of fish} \geq \text{stock length}} \right) \times 100$$

Relative weight (**Wr**) is used to quantify fish plumpness. Relative weight is the ratio of what a fish weighs (*W*) compared to a length-specific standard weight (*Ws*) multiplied by 100. Relative weight values of 95-105 are commonly cited as optimum values, but values in the 80s are common during summer sampling in South Dakota.

$$Wr = \left(\frac{W}{W_s} \right) \times 100$$

Confidence intervals (CI) are provided for many of the estimates calculated in this report. The confidence interval provides a range in which the true mean is expected to fall. For example, with an 80% CI we are 80% confident that the interval contains the true value.

Length categories include stock (S), quality (Q), preferred (P), memorable (M) and trophy (T). Length categories for most species have been defined based on a percentage of the world record length for that species. Some species mentioned in this report do not have defined length categories. Length categories for species used in this report are provided in the following table. Measurements are the minimum total length for each category and are reported in inches (in) and centimeters (cm).

Species Name	Stock		Quality		Preferred		Memorable		Trophy	
	(in)	(cm)	(in)	(cm)	(in)	(cm)	(in)	(cm)	(in)	(cm)
Black Bullhead	6	15	9	23	12	30	15	38	18	46
Black Crappie	5	13	8	20	10	25	12	30	15	38
Bluegill	3	8	6	15	8	20	10	25	12	30
Brown Trout	8	20	12	30	16	40	20	50	18	46
Channel Catfish	11	28	16	41	24	61	28	71	36	91
Freshwater Drum	8	20	12	30	15	38	20	51	25	63
Lake Trout	12	30	20	50	26	65	31	80	39	100
Largemouth Bass	8	20	12	30	15	38	20	51	25	63
Muskellunge	20	51	30	76	38	97	42	107	50	127
Northern Pike	14	35	21	53	28	71	34	86	44	112
Pumpkinseed	3	8	6	15	8	20	10	25	12	30
Rainbow Trout	10	25	16	40	20	50	26	65	31	80
Rudd	6	15	10	25	12	30	15	38	19	48
Sauger	8	20	12	30	15	38	20	51	25	63
Smallmouth Bass	7	18	11	28	14	35	17	43	20	51
Walleye	10	25	15	38	20	51	25	63	30	76
White Bass	6	15	9	23	12	30	15	38	18	46
White Crappie	5	13	8	20	10	25	12	30	15	38
Yellow Bullhead	4	10	7	18	9	23	11	28	14	36
Yellow Perch	5	13	8	20	10	25	12	30	15	38

Catch Summary of Stock Length Fish

Catch per unit effort (CPUE), proportional size distribution (PSD), proportional size distribution of preferred length fish (PSD-P), and relative weight (Wr) for species sampled in survey with 80% confidence interval (CI-80).

* Methods/Species that ignore stock length

Gear	Species	Sample Size (n)	Abundance		Stock Density Indices			Condition		
			CPUE	CI-80	PSD	CI-80	PSD-P	CI-80	Wr	CI-80
AFS std gill net	Black Bullhead	1	0.1	0.1	100		100			
	Black Crappie	7	0.6	0.4	71		29		104	3
	Bluegill	28	2.3	0.9	79	12	14		115	3
	Common Carp	4	0.3	0.3	100		100		85	1
	Largemouth Bass	1	0.1	0.1	100		100		94	
	Northern Pike	15	1.3	0.6	67		13		88	3
	Rock Bass	22	1.8	0.9	73	15	45	17	108	2
	Smallmouth Bass	46	3.8	1.3	96		87	8	92	1
	Walleye	61	5.1	1.3	51	9	26	8	87	2
	White Bass	29	2.4	0.9	100		97		83	1
	White Sucker	23	1.9	0.6	100		100		105	2
Yellow Perch	4	0.3	0.3	25		0		95	2	
frame net (std 3/4 in)	Black Bullhead	20	0.9	0.4	60	18	50	18	94	4
	Black Crappie	161	7.3	3.6	88	4	2		103	1
	Bluegill	2013	91.3	36.4	41	1	12	1	107	1
	Largemouth Bass	1	0.0	0.0	0		0			
	Northern Pike	12	0.5	0.2	83		17		85	3
	Pumpkinseed	41	1.9	1.0	39	11	0		111	2
	Rock Bass	239	10.8	5.1	35	4	10	3	109	1
	Smallmouth Bass	109	3.4	1.1	25	7	12	6	93	1
	Walleye	12	0.5	0.2	83		75		92	3
	White Bass	18	0.8	0.6	100		56	19	84	2
	White Sucker	2	0.1	0.1	100		100		92	3
Yellow Perch	5	0.2	0.2	60		0		91	5	
spring night EF-LMB*	Smallmouth Bass	4	8.0	7.5	100		75			

10-Year Catch Per Unit Effort by Gear and Species

Catch per unit effort (CPUE) and average (Avg) of species across 10 years using different gear types.

* Methods/Species that ignore stock length

Gear	Species	CPUE										Avg
		2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	
AFS std frame net	Black Bullhead		0.1	0.3								0.20
	Black Crappie		2.6	0.2								1.40
	Bluegill		62.7	39.2								50.95
	Common Carp		0.2	0.2								0.20
	Largemouth Bass		0.0	0.0								0.00
	Northern Pike		0.5	0.2								0.35
	Pumpkinseed		1.1	0.3								0.70
	Rock Bass		0.8	2.3								1.55
	Smallmouth Bass		0.6	0.5								0.55
	Walleye		1.0	0.6								0.80
	White Bass		0.3	0.0								0.15
	White Sucker		0.1	0.1								0.10
Yellow Perch		1.4	0.1								0.75	
AFS std gill net	Black Bullhead		0.1	0.2	0.1	0.0	0.0	0.3	0.0	0.6	0.1	0.16
	Black Crappie		0.8	0.3	0.1	0.2	0.3	3.0	0.2	1.2	0.6	0.74
	Bluegill		3.8	0.9	6.5	3.5	15.9	15.5	0.9	2.2	2.3	5.72
	Common Carp		0.8	0.3	0.1	0.6	0.7	0.4	0.0	0.3	0.3	0.39
	Largemouth Bass		0.1	0.3	0.0	0.1	0.0	0.2	0.1	0.3	0.1	0.13
	Northern Pike		1.2	1.3	0.3	0.3	0.4	1.1	1.5	1.2	1.3	0.96
	Pumpkinseed		0.3	0.1	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.07
	Rock Bass		0.2	0.1	0.6	0.5	0.1	0.3	0.4	1.0	1.8	0.56
	Smallmouth Bass		2.4	0.9	2.8	2.3	3.8	4.4	2.1	3.1	3.8	2.84
	Walleye		7.2	1.3	3.8	1.5	1.8	3.4	1.2	3.8	5.1	3.23
	White Bass		7.6	3.0	2.1	3.9	1.4	3.4	1.9	3.0	2.4	3.19
	White Sucker		2.2	3.5	1.6	1.1	0.6	1.3	1.8	1.2	1.9	1.69
Yellow Perch		4.9	0.9	1.0	4.8	13.2	18.9	2.9	4.5	0.3	5.71	
boat shocker (day)	Smallmouth Bass					32.0						32.00
boat shocker (night)	Walleye*	20.0	38.5	9.0								22.50
boat shocker (night, DC)	Smallmouth Bass		86.0									86.00
fall night EF-WAE*	Walleye				11.0	15.0			182.0	59.0	142.8	81.96
frame net (std 3/4 in)	Black Bullhead	0.2			0.3	0.3	0.3	0.2	0.5	0.1	0.9	0.35
	Black Crappie	0.3			4.1	0.6	2.2	0.7	0.2	0.3	7.3	1.96

		CPUE										
Gear	Species	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	Avg
frame net (std 3/4 in)	Bluegill	26.1			119.1	62.8	46.0	85.4	43.5	121.3	91.3	74.44
	Channel Catfish	0.0			0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.01
	Common Carp	0.0			0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.01
	Largemouth Bass	0.0			0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00
	Northern Pike	0.6			0.3	0.1	0.3	0.3	0.3	0.2	0.5	0.33
	Pumpkinseed	1.5			0.5	0.4	0.5	1.4	1.9	0.9	1.9	1.13
	Rock Bass	6.4			4.5	3.0	5.4	7.1	4.4	11.7	10.8	6.66
	Smallmouth Bass	2.0			0.8	2.6	5.2	5.2	3.0	3.9	3.4	3.26
	Sunfish Family	0.0			0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00
	Walleye	0.8			0.1	0.1	0.2	0.1	0.1	0.3	0.5	0.28
	Western Painted Turtle	0.0			0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00
	White Bass	0.3			0.5	0.4	0.7	0.1	0.0	0.3	0.8	0.39
	White Sucker	0.2			0.0	0.1	0.2	0.1	0.1	0.2	0.1	0.13
	Yellow Perch	0.3			3.8	0.7	1.0	1.6	0.5	0.1	0.2	1.03
rod and reel	Bluegill						4,260 .0					4260. 00
spring night EF-LMB*	Largemouth Bass				21.2				51.2		0.0	24.13
	Smallmouth Bass				0.0				0.0		8.0	2.67
std exp gill net	Black Crappie	1.3										1.30
	Bluegill	15.5										15.50
	Common Carp	0.2										0.20
	Northern Pike	0.2										0.20
	Pumpkinseed	0.3										0.30
	Rock Bass	0.7										0.70
	Smallmouth Bass	1.5										1.50
	Walleye	8.7										8.70
	White Bass	2.0										2.00
	White Sucker	1.8										1.80
Yellow Perch	0.0										0.00	

10-Year Size Structure and Condition Statistics by Gear and Species

Species proportional size distribution (PSD), proportional size distribution of preferred length fish (PSD-P), and relative weight (Wr) collected by different gear types across 10 years.

Gear	Species	Index	Year											
			2015	2016	2017	2018	2019	2020	2021	2022	2023	2024		
AFS std frame net	Black Crappie	PSD		37	40									
		PSD-P		34	20									
		Wr		94	101									
	Bluegill	PSD		43	3									
		PSD-P		18	1									
		Wr		104	107									
	Largemouth Bass	PSD		100	0									
		PSD-P		100	0									
		Wr		109										
	Rock Bass	PSD		55	48									
		PSD-P		10	6									
		Wr		105	101									
	Smallmouth Bass	PSD		29	25									
		PSD-P		14	8									
		Wr		99	103									
	Walleye	PSD		30	79									
		PSD-P		0	0									
		Wr		86	91									
	White Bass	PSD		100	100									
		PSD-P		100	100									
		Wr		86	94									
White Sucker	PSD		100	100										
	PSD-P		100	100										
	Wr		80	96										
Yellow Perch	PSD		6	0										
	PSD-P		0	0										
	Wr		82	89										
AFS std gill net	Black Crappie	PSD		90	100	100	50	75	97	100	93	71		
		PSD-P		80	100	100	50	25	42	50	93	29		
		Wr		98	98	93	100	104	104	96	94	104		
	Bluegill	PSD		71	82	72	98	77	86	91	46	79		
		PSD-P		38	82	15	21	11	14	64	31	14		
		Wr		110	108	119	116	123	108	114	109	115		

Gear	Species	Index	Year										
			2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	
AFS std gill net	Largemouth Bass	PSD		100	50			100		100	100	100	100
		PSD-P		0	0			100		100	100	33	100
		Wr		121	114			110		108	107	109	94
	Rock Bass	PSD		50	100	71	100	100	100	60	58	73	
		PSD-P		50	0	14	50	100	67	40	33	45	
		Wr		100	103	105	112	105	109	108	109	108	
	Smallmouth Bass	PSD		69	73	74	50	24	43	96	95	96	
		PSD-P		24	45	65	25	11	23	64	65	87	
		Wr		94	95	97	97	95	96	90	94	92	
	Walleye	PSD		52	81	70	83	73	63	79	89	51	
		PSD-P		1	6	4	11	27	29	36	30	26	
		Wr		86	83	90	86	85	86	89	87	87	
	White Bass	PSD		100	100	100	100	100	100	100	100	100	
		PSD-P		100	100	100	100	82	100	100	100	97	
		Wr		89	92	88	86	87	86	86	85	83	
	White Sucker	PSD		100	100	100	100	100	100	100	100	100	
		PSD-P		100	100	100	100	100	93	100	100	100	
		Wr		98	102	103	95	98	102	106	109	105	
	Yellow Perch	PSD		7	18	0	0	0	7	23	41	25	
		PSD-P		0	0	0	0	0	0	0	0	0	
		Wr		95	87	94	97	100	93	93	85	95	
boat shocker (day)	Smallmouth Bass	PSD					63						
		PSD-P					38						
		Wr					93						
boat shocker (night)	Walleye	PSD	0	0	0								
		PSD-P	0	0	0								
		Wr	98	96	92								
boat shocker (night, DC)	Smallmouth Bass	PSD		50									
		PSD-P		10									
		Wr		92									
frame net (std 3/4 in)	Black Crappie	PSD	100			10	15	35	85	100	57	88	
		PSD-P	100			1	8	0	38	80	43	2	
		Wr	98			104	105	107	102	96	93	103	
	Bluegill	PSD	42			20	17	19	49	51	39	41	
		PSD-P	21			5	3	2	15	18	13	12	
		Wr	105			104	103	110	105	103	105	107	

Gear	Species	Index	Year									
			2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
frame net (std 3/4 in)	Largemouth Bass	PSD				0						0
		PSD-P				0						0
	Rock Bass	PSD	25			41	51	61	60	61	46	35
		PSD-P	5			13	14	8	10	25	13	10
		Wr	105			101	102	103	107	105	102	109
	Smallmouth Bass	PSD	33			41	14	6	15	19	22	25
		PSD-P	14			24	5	4	2	3	11	12
		Wr	97			100	100	99	98	91	94	93
	Walleye	PSD	58			100	100	100	0	67	86	83
		PSD-P	21			100	50	100	0	33	86	75
		Wr	80			83	90	83	83		84	92
	White Bass	PSD	100			100	100	100	100		100	100
		PSD-P	100			100	100	94	100		100	56
		Wr	85			89	84	83	82		90	84
	White Sucker	PSD	100				100	100	100	100	100	100
		PSD-P	100				100	100	100	100	100	100
		Wr	92				87	92	94		96	92
	Yellow Perch	PSD	0			3	0	0	0	23	0	60
		PSD-P	0			0	0	0	0	0	0	0
		Wr	88			84	83	97	83	81	83	91
	rod and reel	Bluegill	PSD						100			
PSD-P								52				
spring night EF-LMB	Largemouth Bass	PSD				82				90		
		PSD-P				23				41		
		Wr				105				100		
	Smallmouth Bass	PSD									100	
		PSD-P									75	
	std exp gill net	Black Crappie	PSD	100								
PSD-P			100									
Wr			101									
Bluegill		PSD	94									
		PSD-P	73									
		Wr	113									
Rock Bass		PSD	75									
		PSD-P	25									
		Wr	108									

Gear	Species	Index	Year												
			2015	2016	2017	2018	2019	2020	2021	2022	2023	2024			
std exp gill net	Smallmouth Bass	PSD	56												
		PSD-P	0												
		Wr	94												
	Walleye	PSD	10												
		PSD-P	2												
		Wr	83												
	White Bass	PSD	100												
		PSD-P	100												
		Wr	89												
	White Sucker	PSD	100												
		PSD-P	100												
		Wr	101												
	Yellow Perch	PSD	0												
		PSD-P	0												

Length at Capture

Mean length at capture by age across years sampled, sample size (N).

Species: Bluegill

Mean Length (expanded sample number) at capture by age											
Year	N	1	2	3	4	5	6	7	8	9	10+
2024	1985			104 (370)	137 (948)	161 (309)	179 (221)	165 (25)	210 (114)		
2023	2923		84 (35)	105 (1057)	132 (672)	163 (260)	191 (370)	190 (459)	219 (71)		
2022	1042		87 (9)	102 (164)	117 (211)	160 (198)	180 (306)	199 (148)	154 (5)		241 (2)
2021	1708			99 (242)	132 (576)	167 (587)	198 (270)	202 (21)	244 (6)	234 (8)	
2020	1003		91 (22)	117 (339)	126 (505)	158 (135)	201 (4)				
2019	1438		94 (21)	100 (455)	127 (917)	150 (20)	205 (24)				
2018	2513		85 (42)	110 (1952)	146 (208)	186 (252)	223 (16)	237 (16)	241 (19)		250 (11)
2017	2228		75 (1923)	123 (74)	125 (158)	136 (66)	204 (1)	249 (1)		245 (4)	242 (2)
2016	2140	68 (636)	100 (206)	95 (582)	161 (338)	198 (248)	215 (85)	243 (8)	233 (17)	256 (8)	246 (14)
2015	636	77 (6)	77 (3)	93 (327)	163 (122)	187 (61)	205 (22)	224 (81)	226 (10)	224 (5)	242 (1)

Species: Largemouth Bass

Mean Length (expanded sample number) at capture by age											
Year	N	1	2	3	4	5	6	7	8	9	10+
2022	18			270 (3)	319 (14)	344 (1)					
2018	22			208 (2)	249 (2)	327 (7)	363 (1)	366 (4)	380 (5)		420 (1)

Species: Smallmouth Bass

Mean Length (expanded sample number) at capture by age											
Year	N	1	2	3	4	5	6	7	8	9	10+
2024	4				355 (4)						
2019	22		191 (5)	255 (7)	318 (6)	346 (3)	355 (1)				
2016	86		181 (1)	221 (30)	258 (13)	299 (20)	327 (10)	359 (6)	401 (6)		

Species: Walleye

Mean Length (expanded sample number) at capture by age											
Year	N	1	2	3	4	5	6	7	8	9	10+
2024	61		295 (29)	416 (9)	454 (1)	501 (7)	524 (5)	550 (2)	543 (1)	585 (1)	552 (6)

Mean Length (expanded sample number) at capture by age											
Year	N	1	2	3	4	5	6	7	8	9	10+
2023	48	198 (2)	332 (4)	407 (3)	460 (13)	486 (10)	515 (3)	458 (1)			580 (12)
2022	15	211 (2)		368 (4)	426 (1)		545 (1)	520 (1)		496 (1)	532 (5)
2021	43	223 (4)	319 (12)	404 (7)	456 (3)	556 (1)	527 (3)		556 (2)		527 (11)
2020	28	214 (6)	322 (6)	420 (1)	447 (2)	477 (5)	485 (1)			528 (2)	575 (5)
2019	21	233 (4)	325 (2)	424 (2)	479 (3)		480 (4)		524 (1)	456 (1)	500 (4)
2018	47	218 (1)	316 (5)	366 (10)	380 (2)	434 (7)		443 (8)	420 (2)	462 (11)	672 (1)
2017	17		281 (2)	151 (1)	410 (4)		392 (3)		438 (7)		
2016	88	248 (2)	281 (4)	331 (11)	366 (1)	381 (28)	398 (7)	386 (36)			625 (1)
2015	54		256 (6)		329 (7)	360 (3)	354 (37)				681 (1)

Species: Yellow Perch

Mean Length (expanded sample number) at capture by age											
Year	N	1	2	3	4	5	6	7	8	9	10+
2024	3			146 (3)							
2023	54			157 (5)	172 (14)	201 (28)	218 (5)	203 (1)			
2022	36		114 (1)	152 (9)	188 (21)	212 (5)					
2021	227		139 (14)	167 (146)	175 (67)						
2020	158		148 (118)	170 (40)							
2019	57		147 (57)								
2017	11			161 (4)	192 (2)	189 (3)		197 (1)	206 (1)		
2016	59	136 (1)	147 (40)	171 (13)	199 (2)		222 (1)	205 (1)	240 (1)		
2015	11	100 (10)	97 (1)								

Fish Condition

Mean relative weight (Wr) by sample size (N), length category stock to quality (S-Q), quality to preferred (Q-P), preferred to memorable (P-M), and memorable (M) for species collected across survey years with standard error (SE).

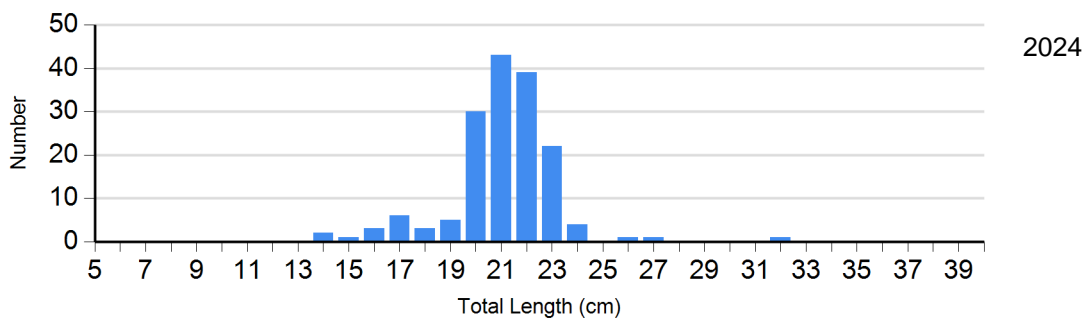
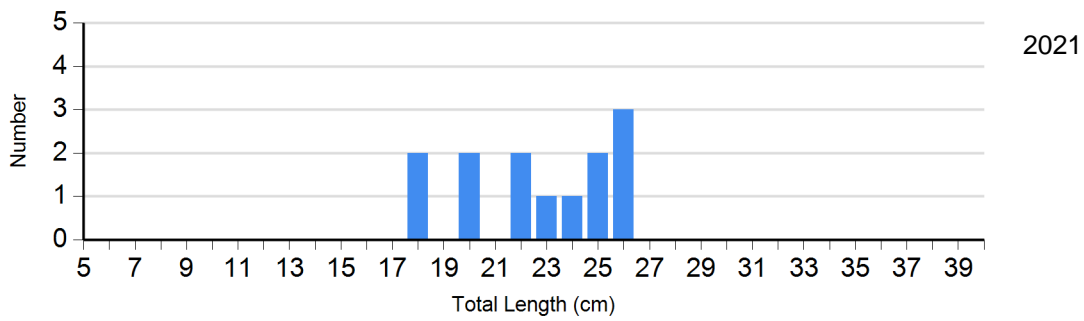
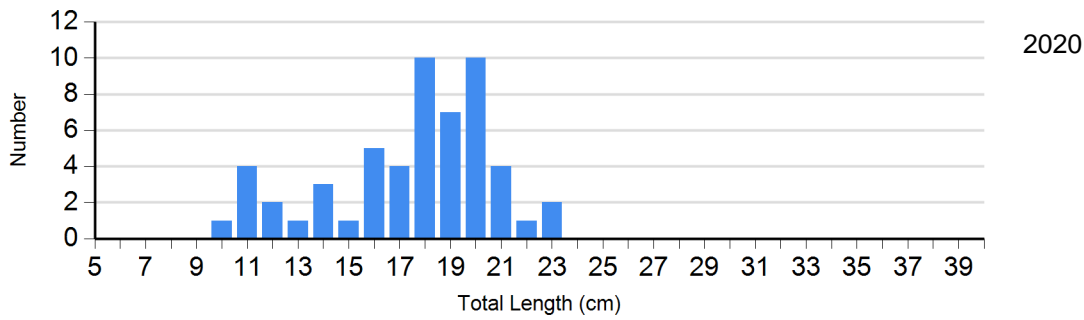
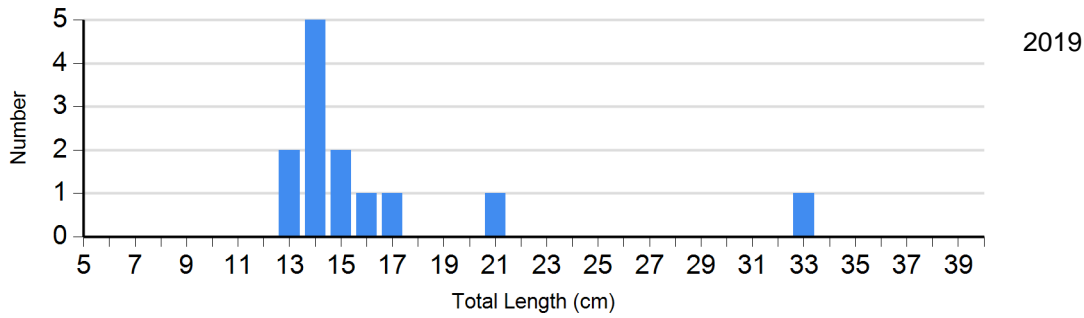
Species	Year	Length Groups							
		S-Q		Q-P		P-M		M	
		N	Wr (SE)	N	Wr (SE)	N	Wr (SE)	N	Wr (SE)
Black Crappie Frame Net	2020	31	108 (1.3)	17	105 (1.8)	0		0	
	2021	2	105 (1.4)	6	105 (1.3)	5	99 (3.8)	0	
	2022	0		1	112	3	96	1	80
	2023	3	99 (1.6)	1	93	0		3	88 (4.0)
	2024	20	102 (1.6)	138	104 (0.6)	2	92 (1.3)	1	77
Bluegill Frame Net	2020	814	109 (0.6)	180	113 (1.7)	16	108 (1.2)	1	124
	2021	876	100 (0.7)	583	108 (0.4)	249	103 (0.5)	0	
	2022	515	100 (1.0)	336	102 (0.8)	191	108 (1.2)	1	123
	2023	1772	103 (0.4)	772	108 (0.7)	367	109 (0.8)	1	
	2024	1184	106 (0.5)	588	110 (0.9)	236	108 (1.3)	1	
Largemouth Bass Electro Fishing	2022	5	111 (6.5)	25	101 (1.6)	21	97 (1.5)	0	
Walleye Gill Net	2020	6	83 (1.3)	10	86 (1.8)	5	86 (3.3)	1	68
	2021	15	89 (2.7)	14	85 (1.3)	12	84 (1.4)	0	
	2022	3	94 (1.4)	6	88 (1.2)	5	88 (4.6)	0	
	2023	5	91 (2.1)	27	87 (1.3)	12	85 (1.9)	2	75 (0.4)
	2024	30	86 (0.9)	15	90 (1.3)	16	87 (6.2)	0	
White Bass Gill Net	2020	0		3	100 (3.0)	0		14	84 (1.0)
	2021	0		0		2	97 (0.2)	39	85 (0.8)
	2022	0		0		2	95 (3.3)	21	85 (1.0)
	2023	0		0		3	97 (2.3)	33	84 (0.9)
	2024	0		1	87	0		28	83 (1.1)
White Sucker Gill Net	2020	0		0		3	104 (2.2)	4	94 (3.5)

Species	Year	Length Groups							
		S-Q		Q-P		P-M		M	
		N	Wr (SE)	N	Wr (SE)	N	Wr (SE)	N	Wr (SE)
White Sucker Gill Net	2021	0		1	98	0		14	102 (1.9)
	2022	0		0		4	99 (4.0)	18	108 (2.2)
	2023	0		0		0		14	109 (2.2)
	2024	0		0		2	102 (8.2)	21	106 (1.6)
Yellow Perch Gill Net	2020	158	100 (0.6)	0		0		0	
	2021	211	93 (0.5)	16	93 (1.2)	0		0	
	2022	27	94 (1.1)	8	91 (1.2)	0		0	
	2023	32	86 (1.2)	22	83 (0.9)	0		0	
	2024	3	96 (1.5)	1	91	0		0	

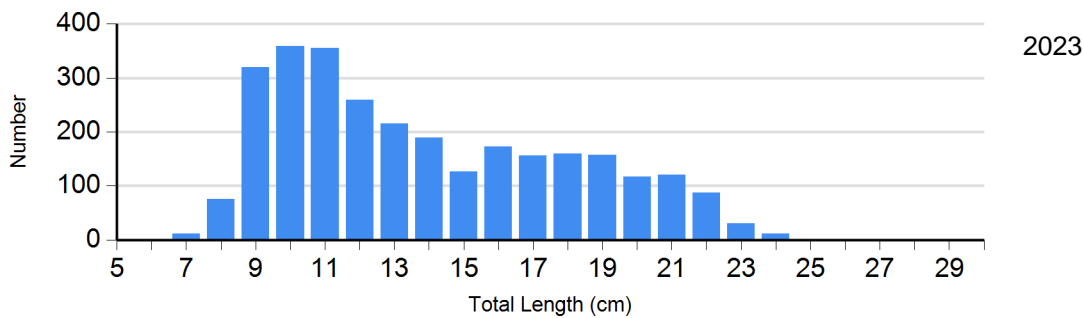
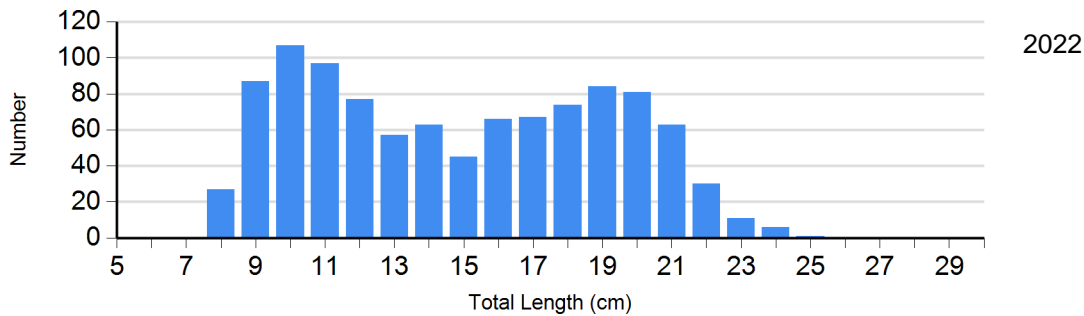
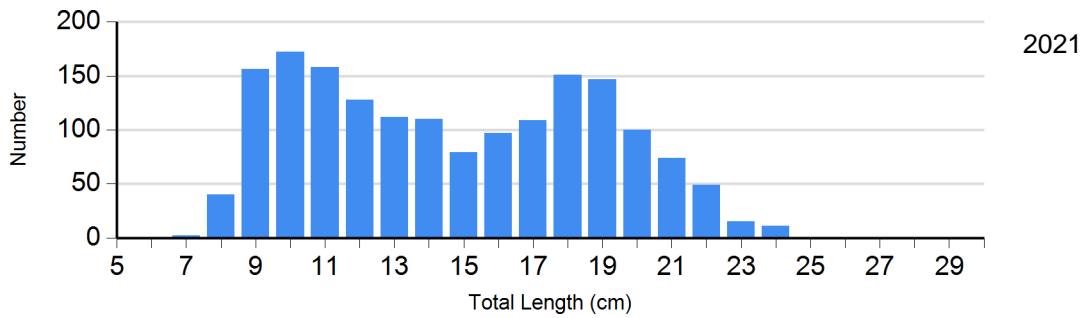
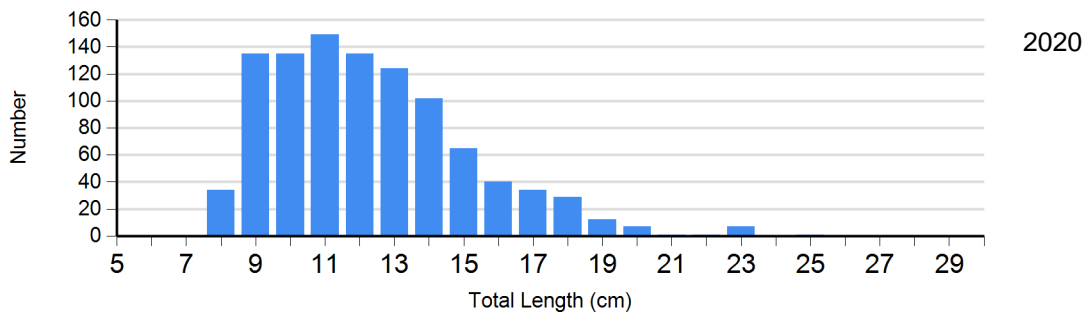
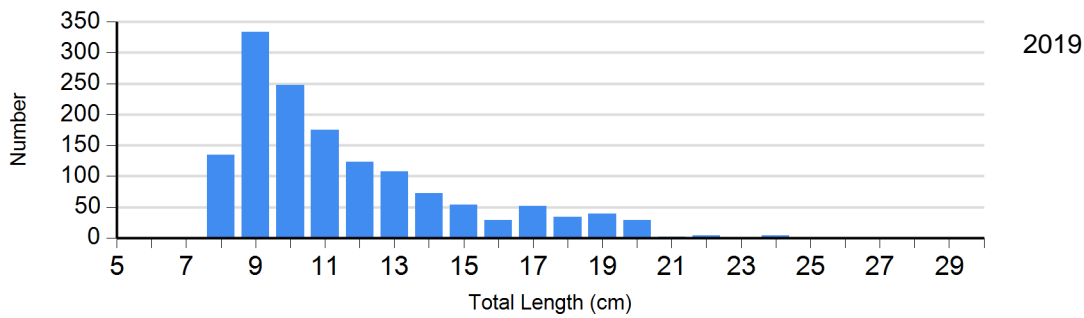
Length Frequency Distribution

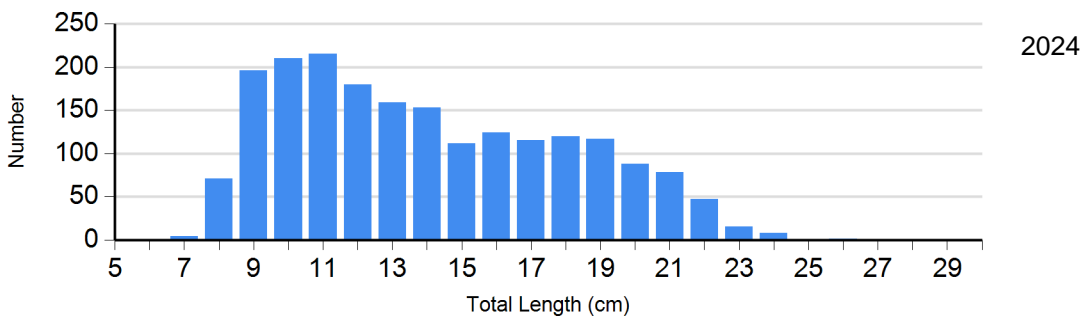
Length frequency histogram of species sampled by year.

Species: Black Crappie
Gear: frame net (std 3/4 in)

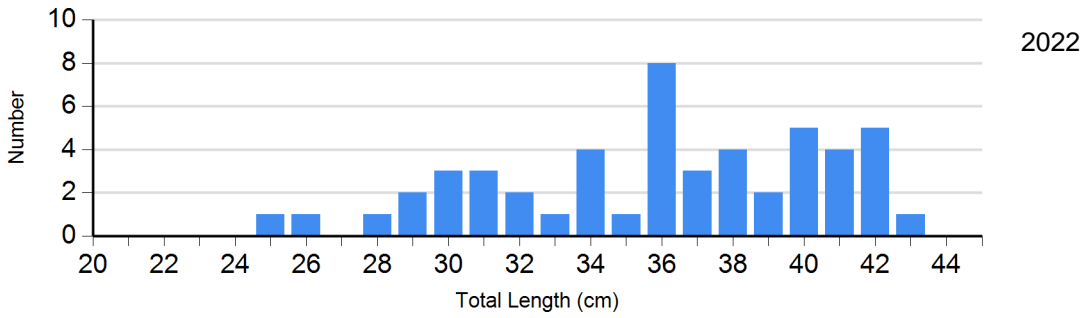


Species: Bluegill
Gear: frame net (std 3/4 in)

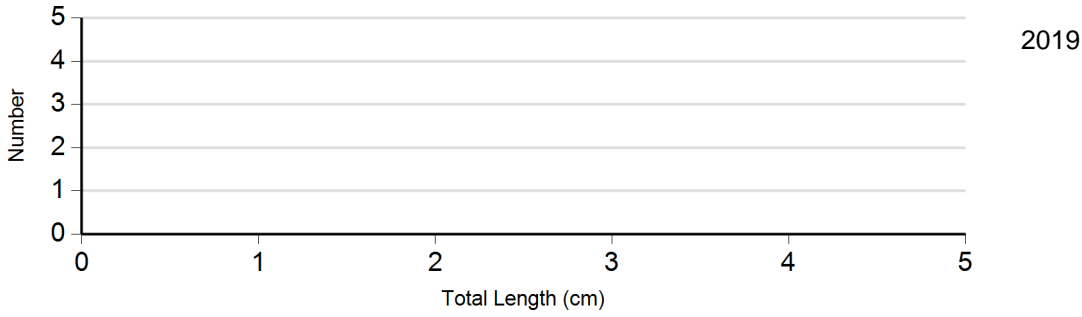




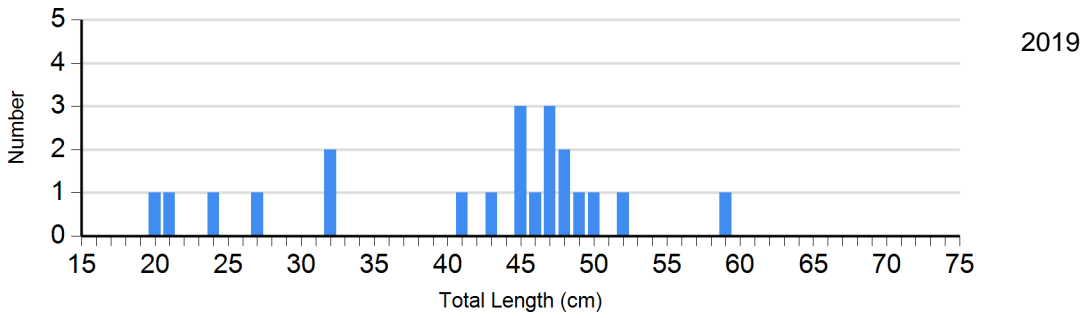
Species: Largemouth Bass
 Gear: spring night EF-LMB

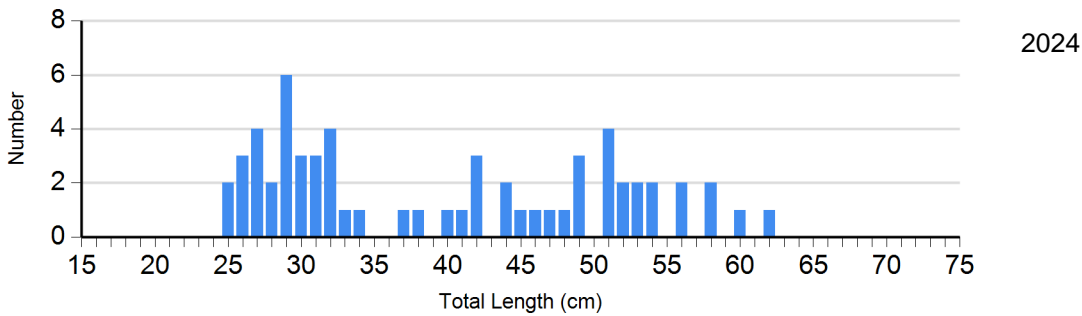
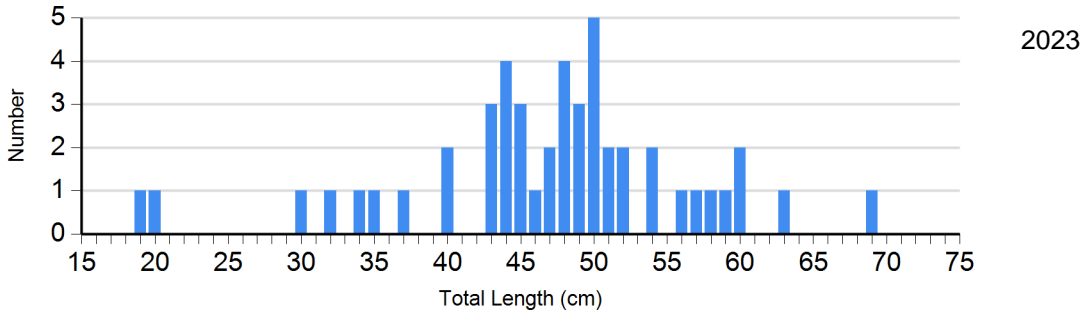
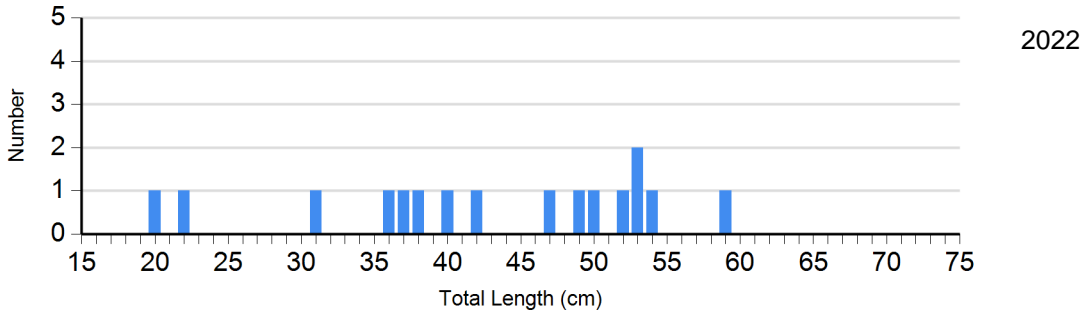
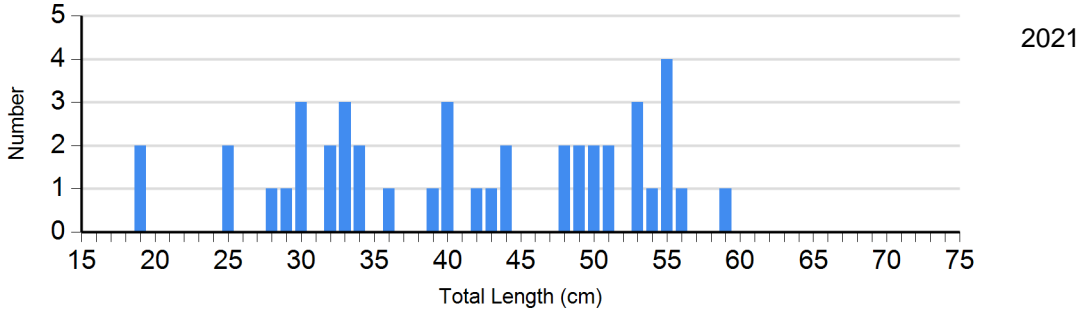
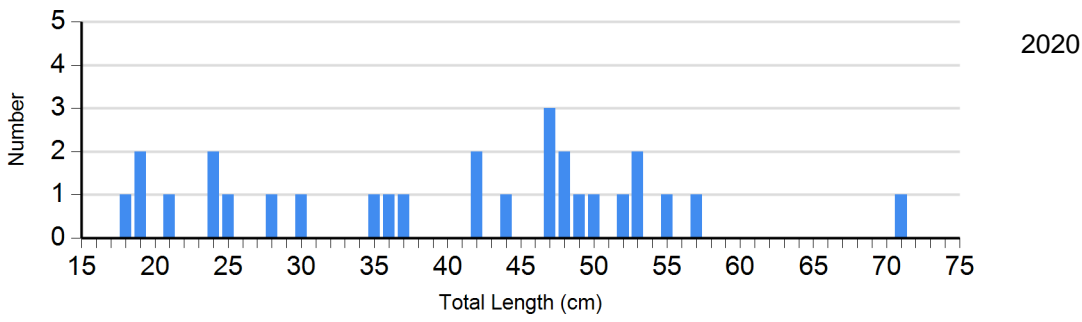


Species: Smallmouth Bass
 Gear: boat shocker (day)

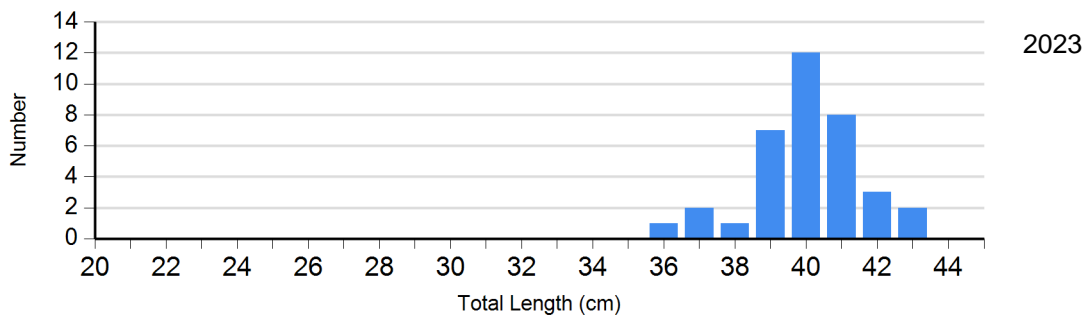
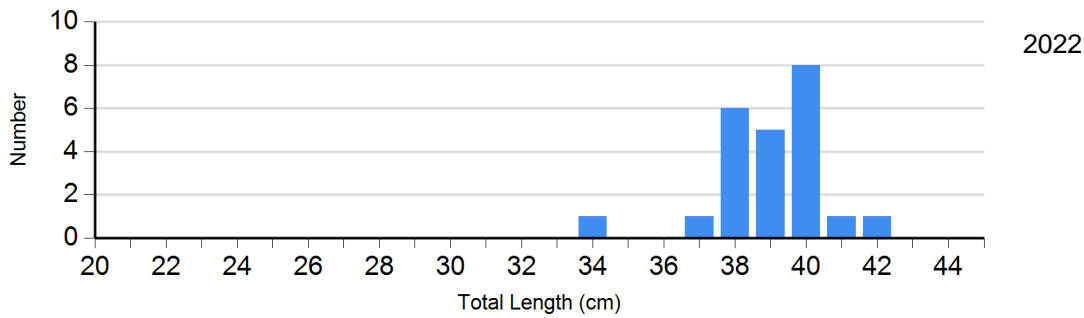
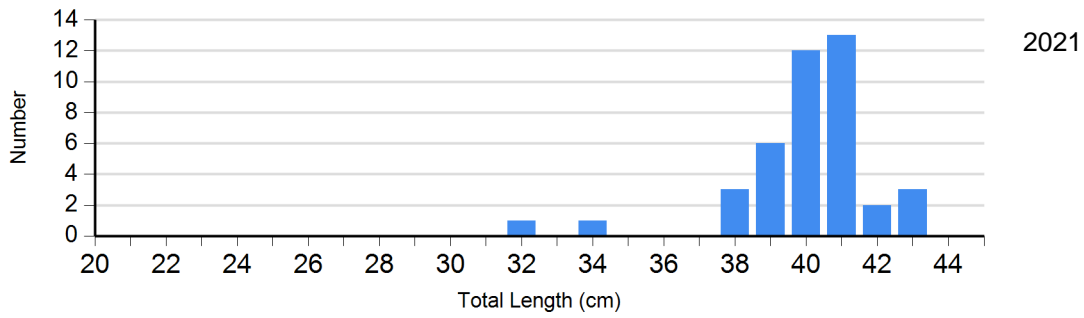
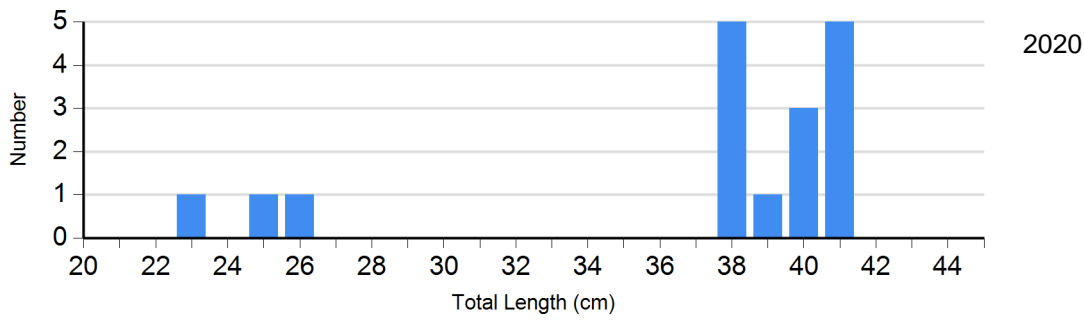
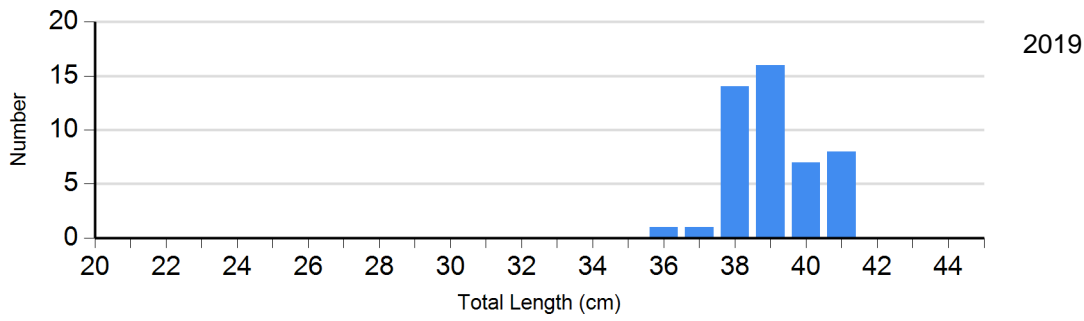


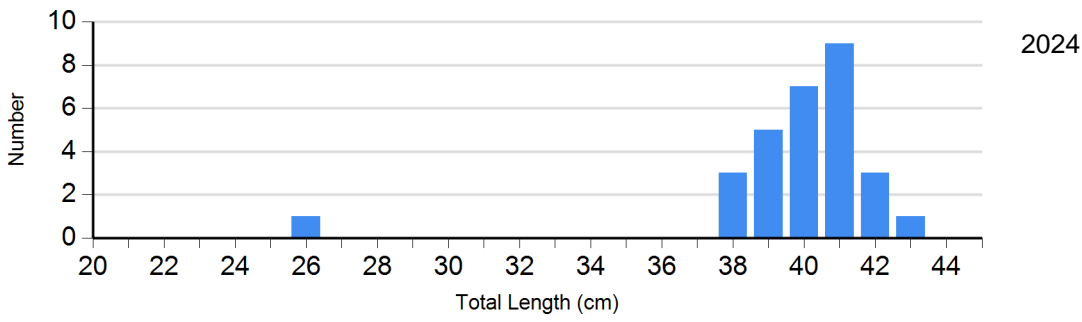
Species: Walleye
 Gear: AFS std gill net



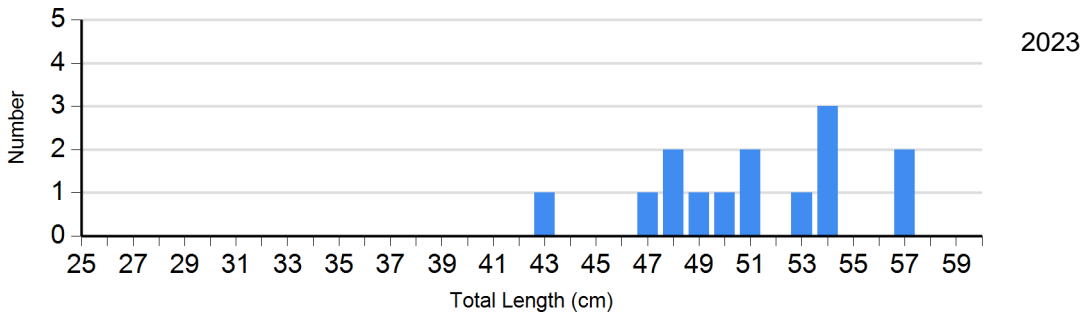
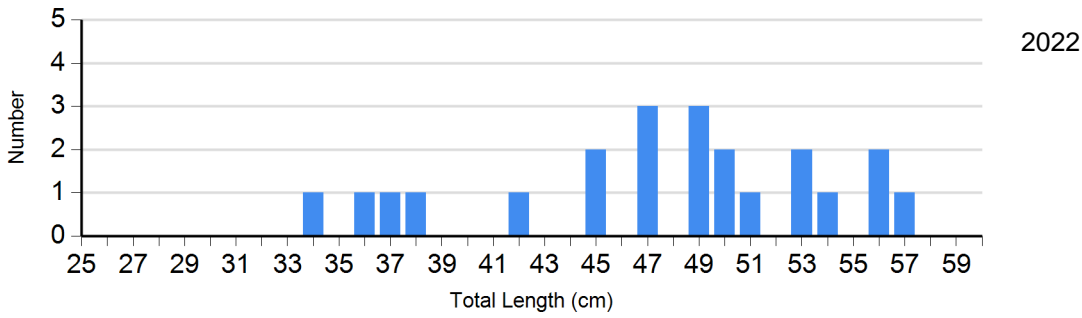
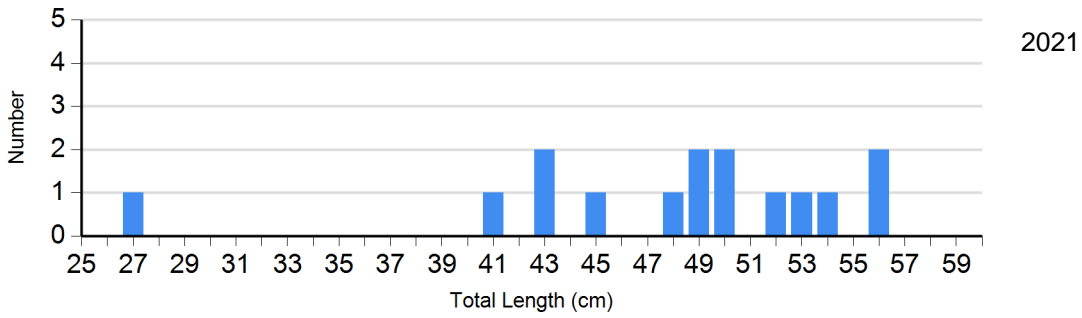
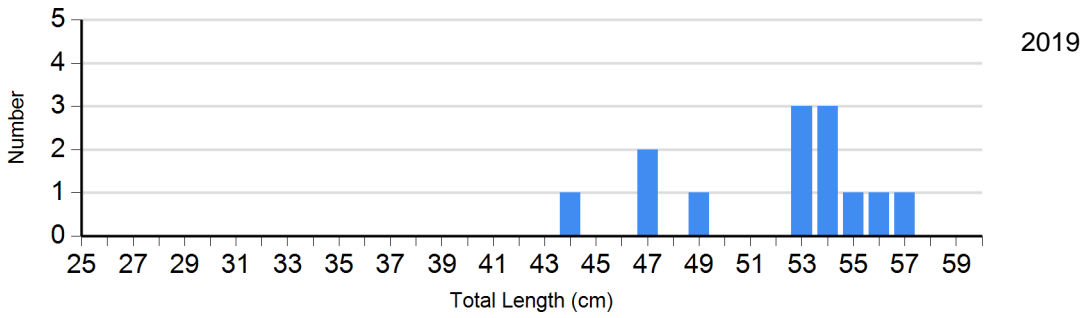


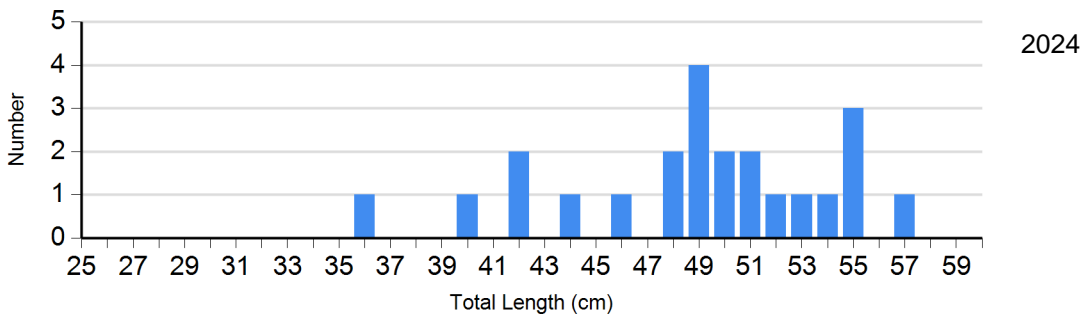
Species: White Bass
Gear: AFS std gill net



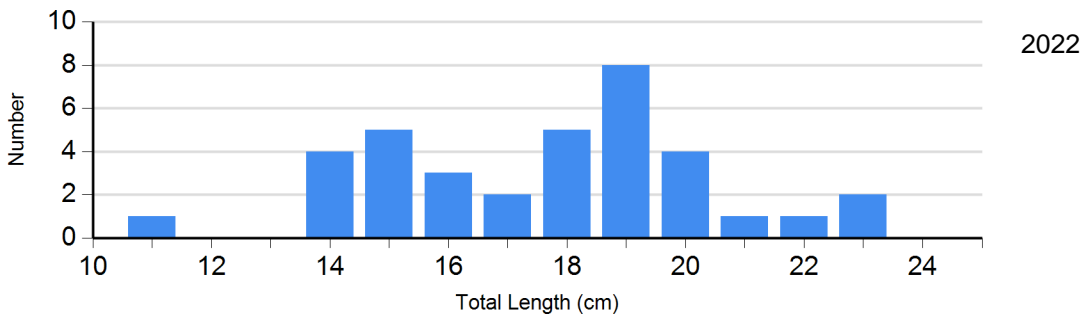
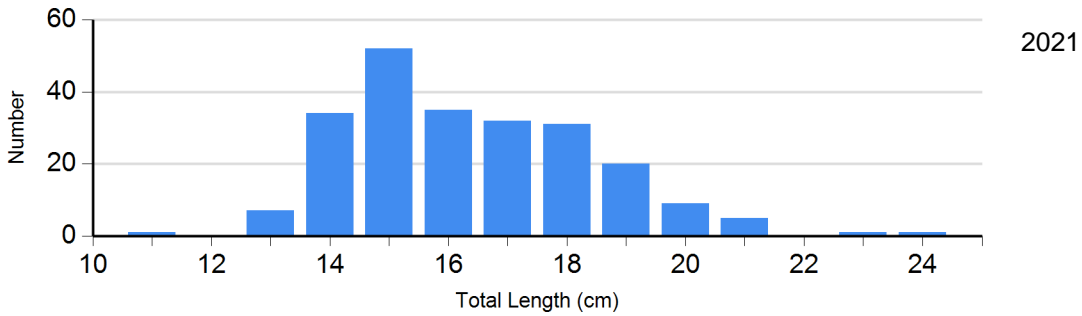
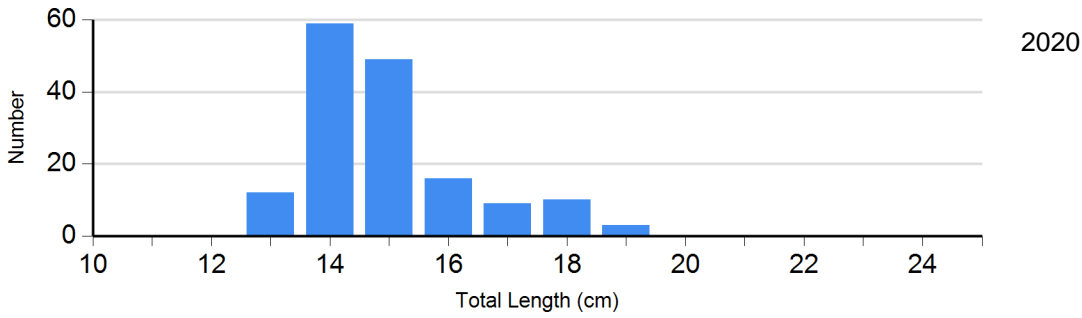
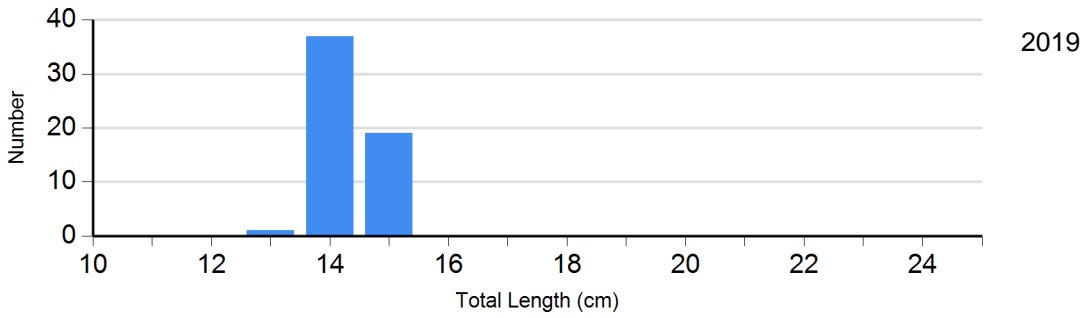


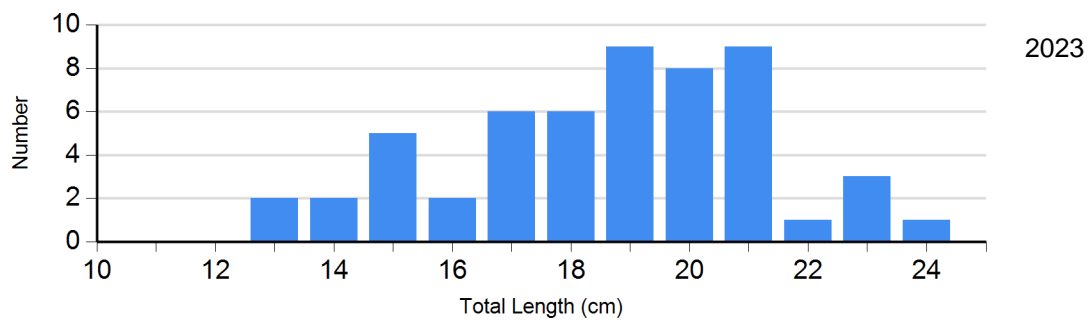
Species: White Sucker
 Gear: AFS std gill net





Species: Yellow Perch
Gear: AFS std gill net

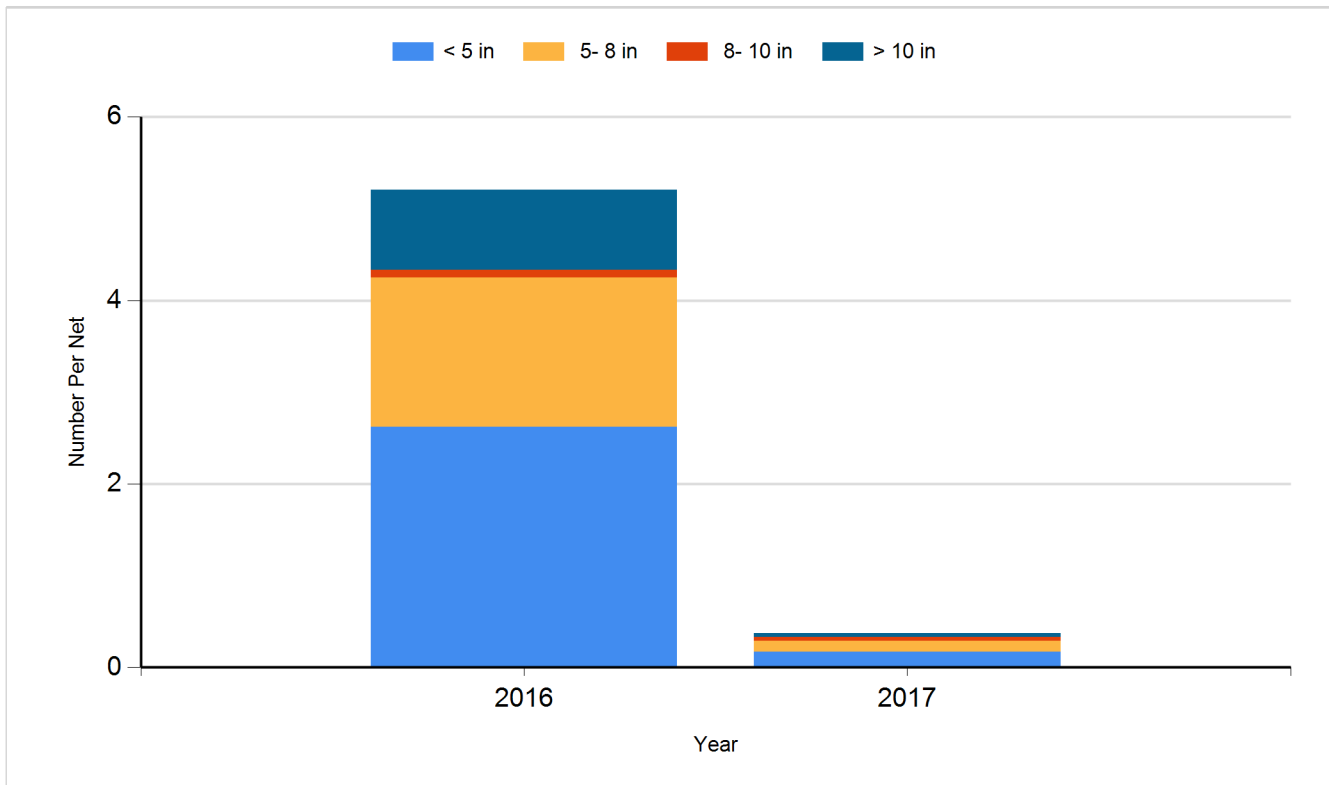




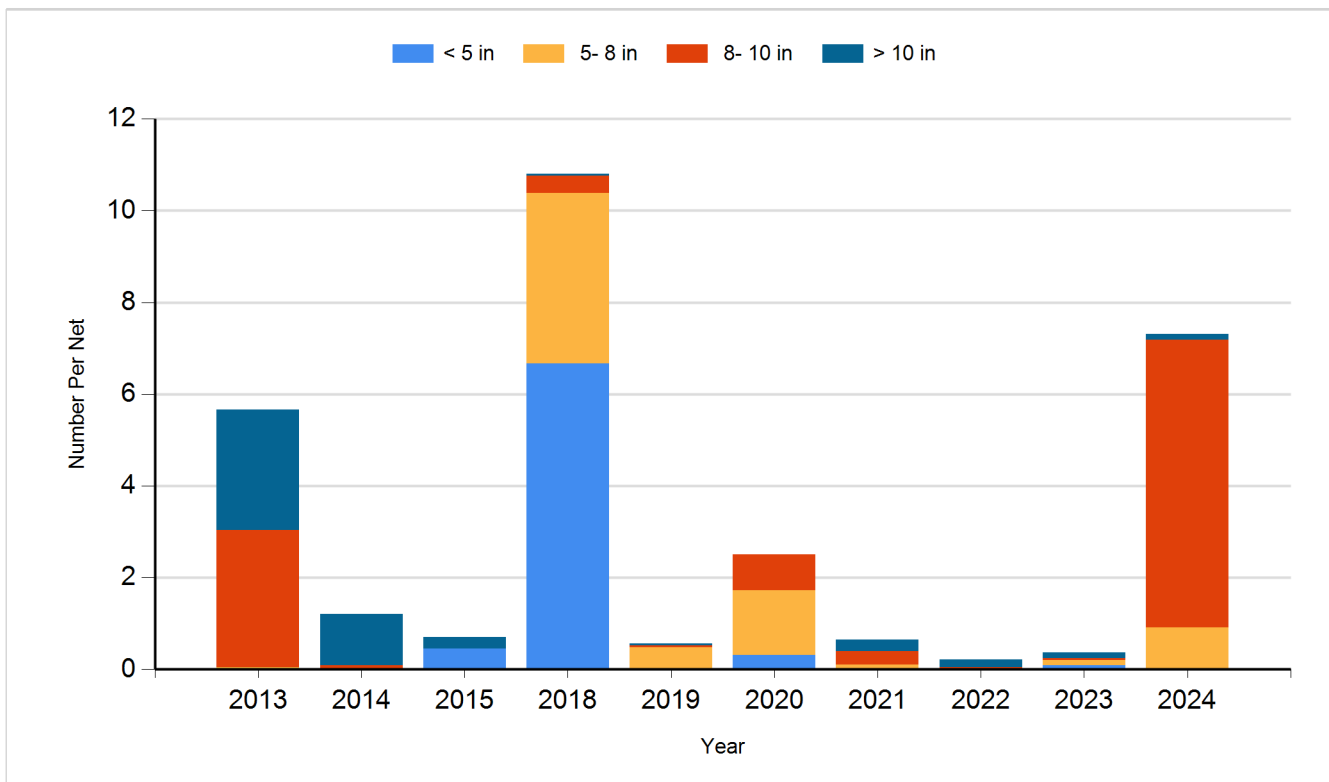
Historic Fish Sizes and Relative Abundance

Size distribution per net by color for species sampled by year.

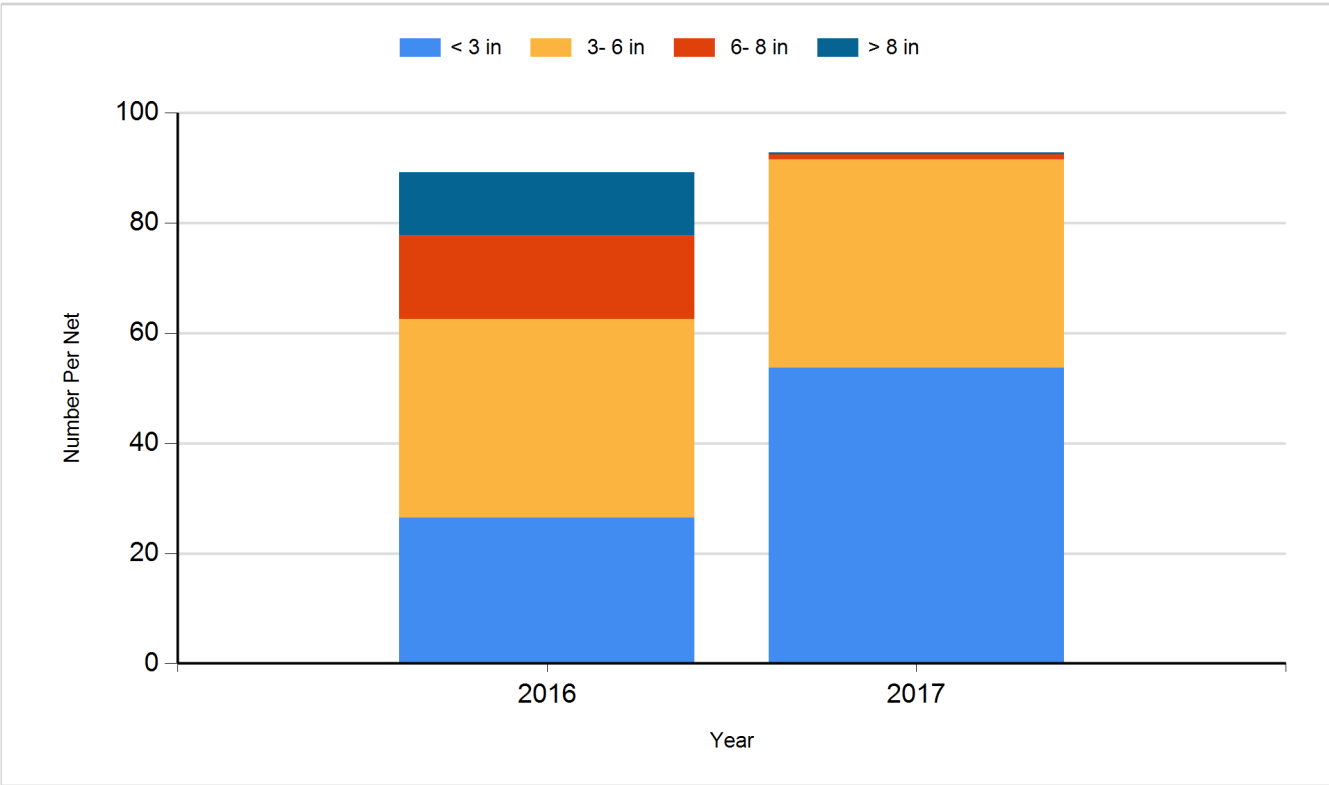
Species: Black Crappie
Gear: AFS std frame net



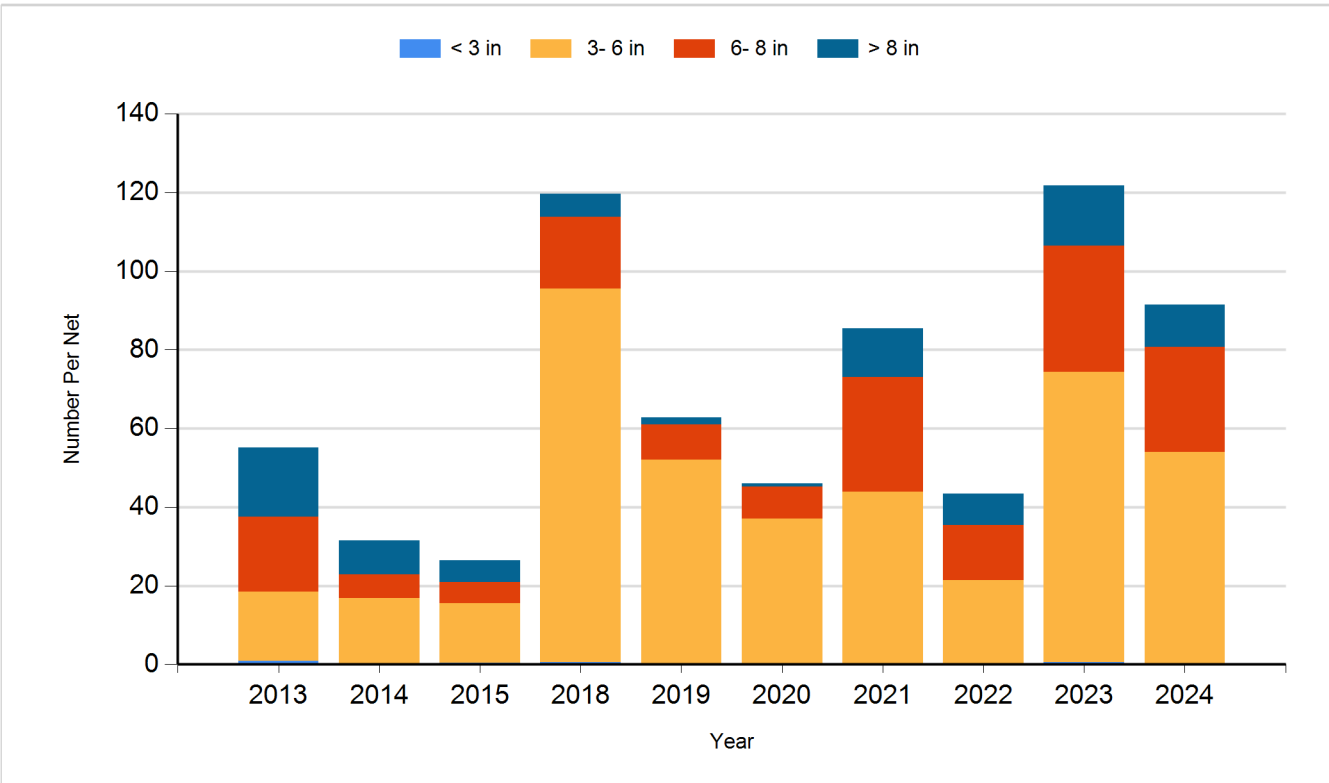
Species: Black Crappie
Gear: frame net (std 3/4 in)



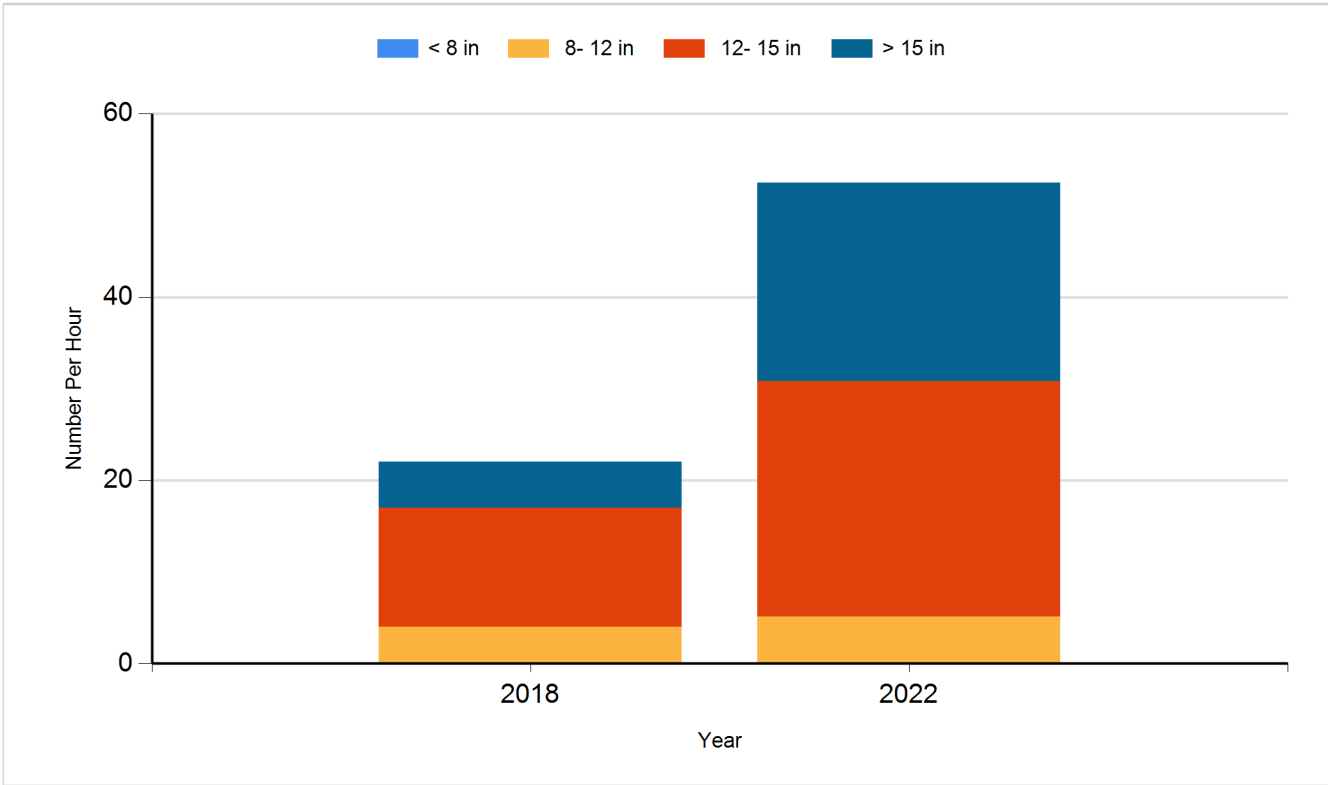
Species: Bluegill
Gear: AFS std frame net



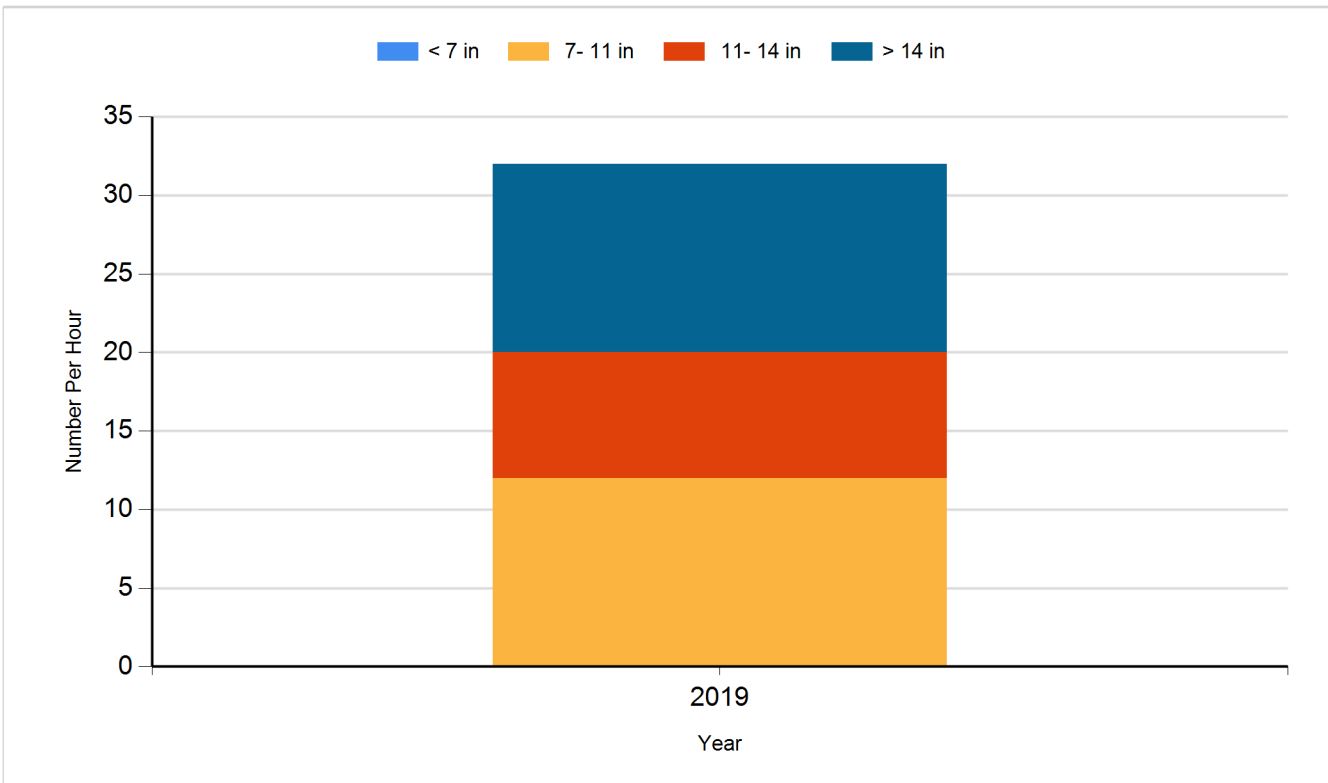
Species: Bluegill
Gear: frame net (std 3/4 in)



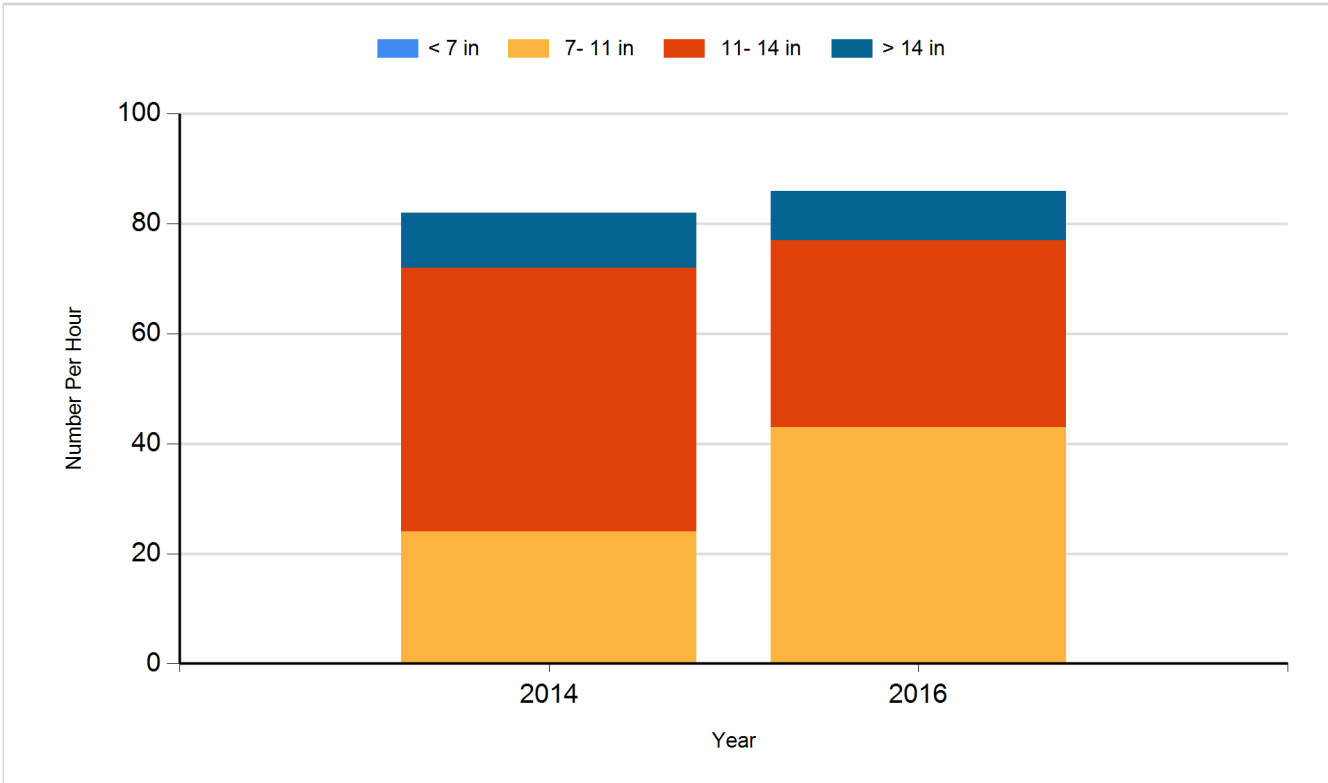
Species: Largemouth Bass
Gear: spring night EF-LMB



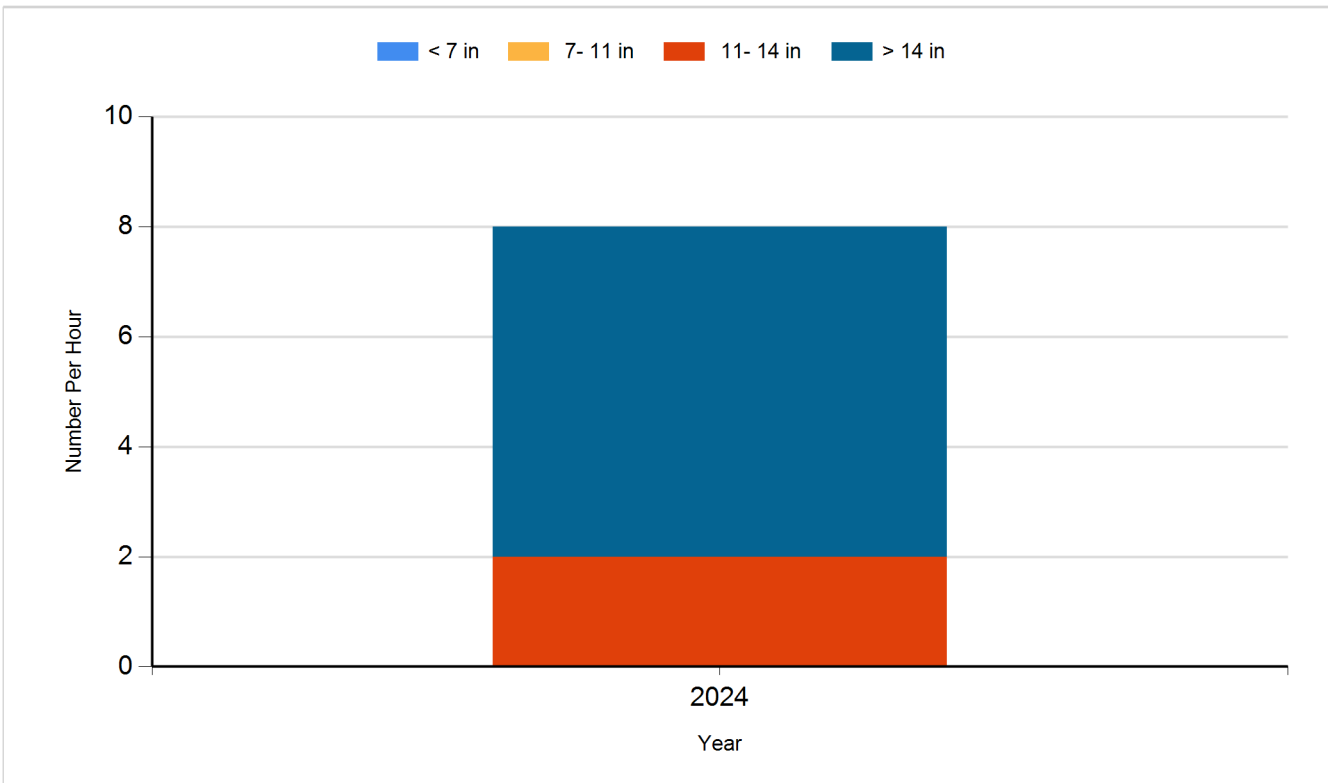
Species: Smallmouth Bass
Gear: boat shocker (day)



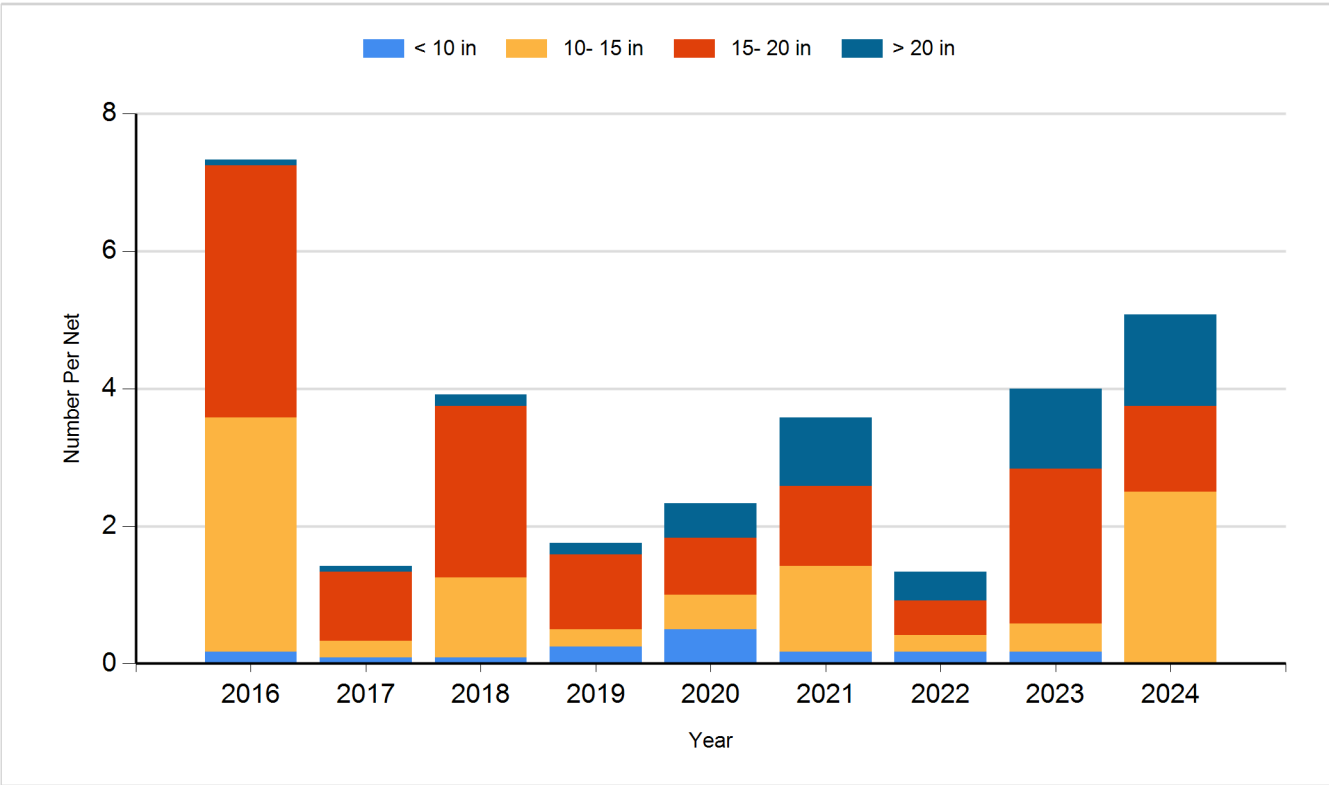
Species: Smallmouth Bass
Gear: boat shocker (night, DC)



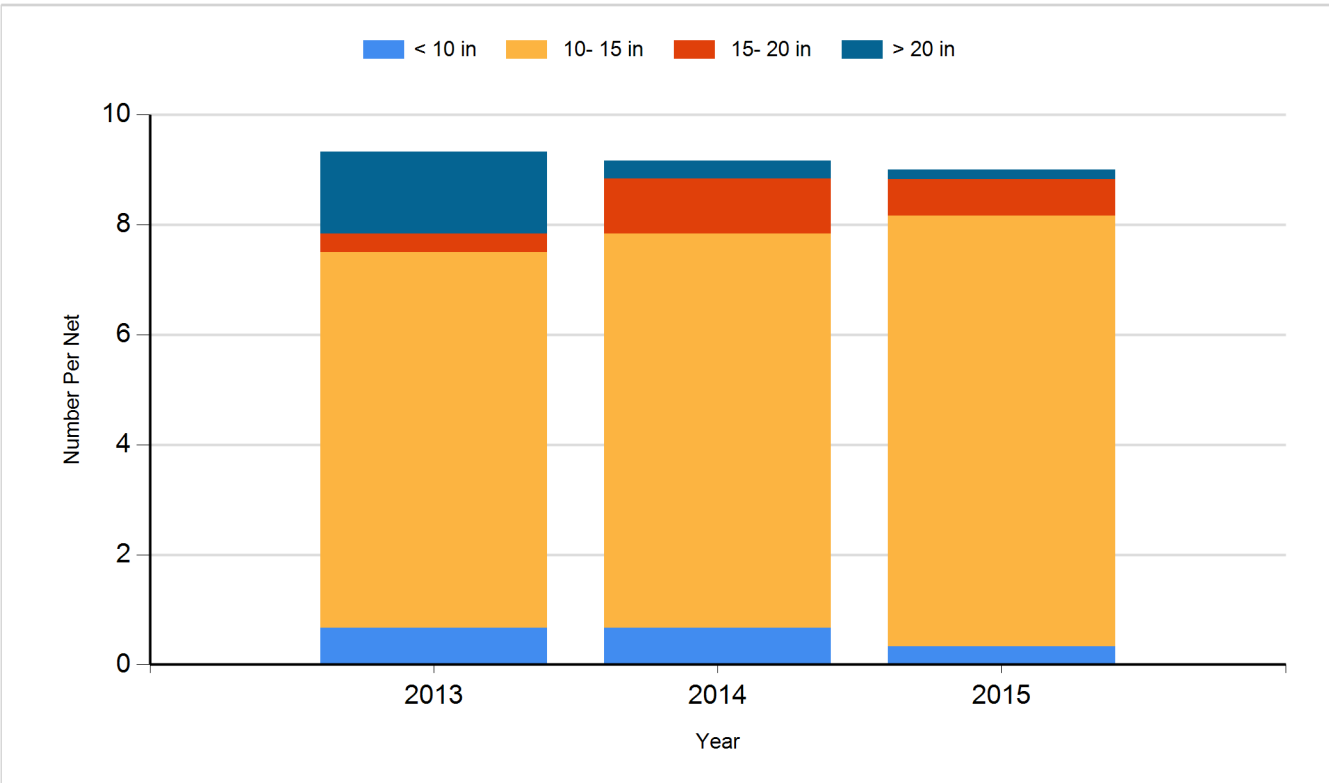
Species: Smallmouth Bass
Gear: spring night EF-LMB



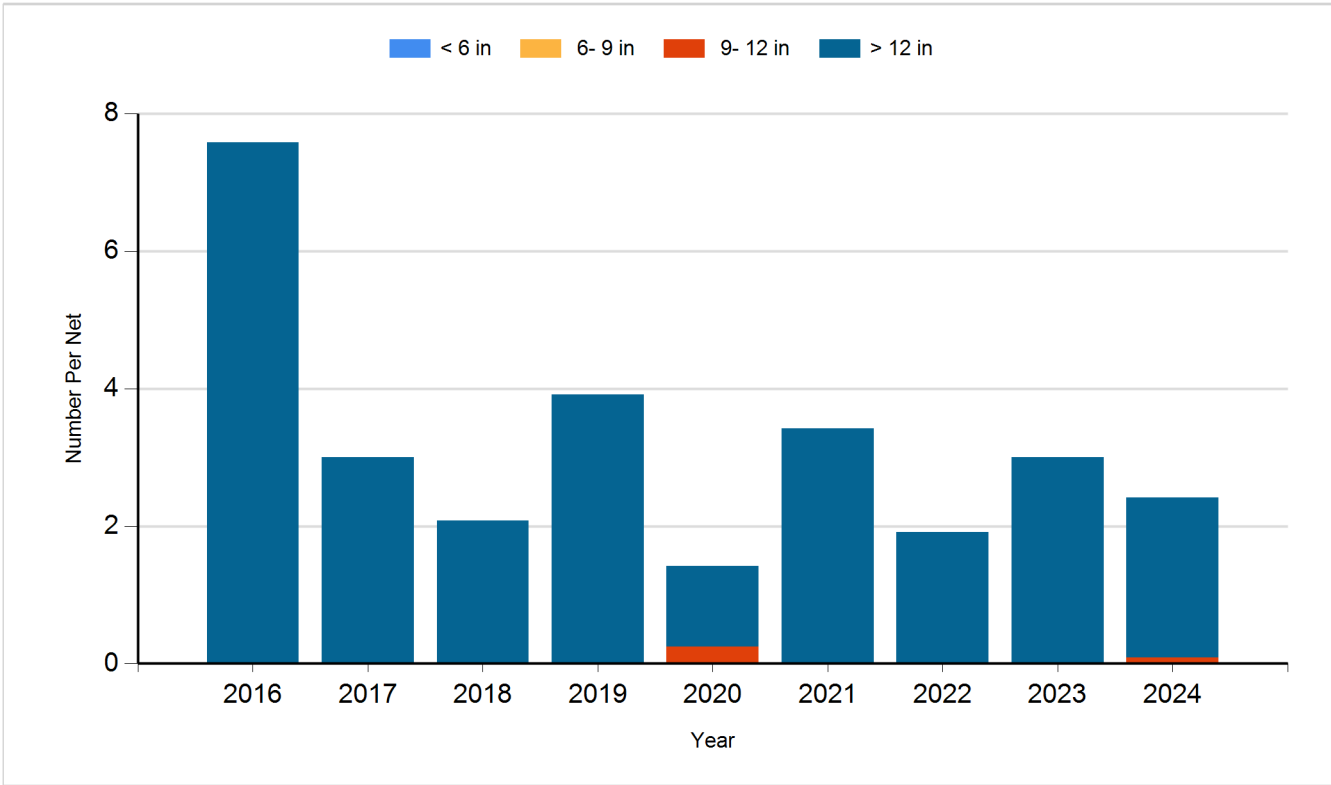
Species: Walleye
Gear: AFS std gill net



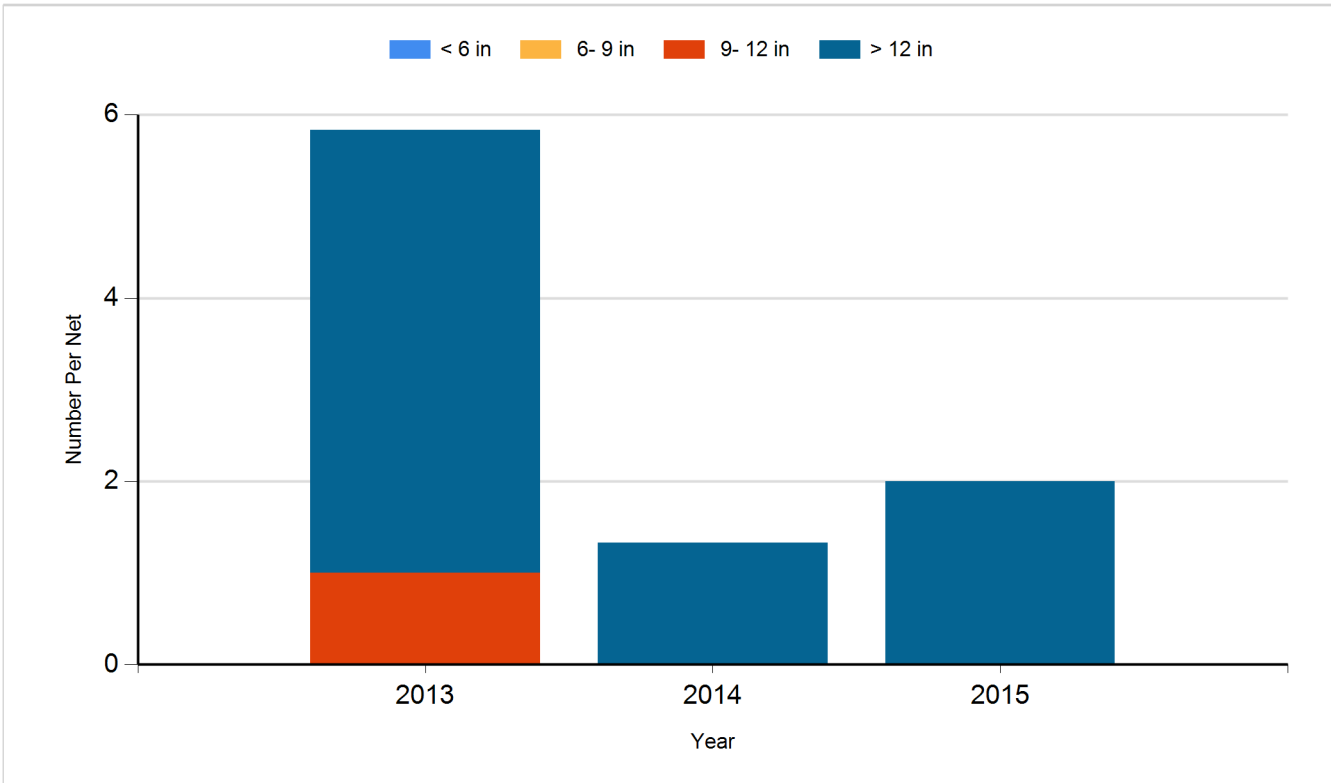
Species: Walleye
Gear: std exp gill net



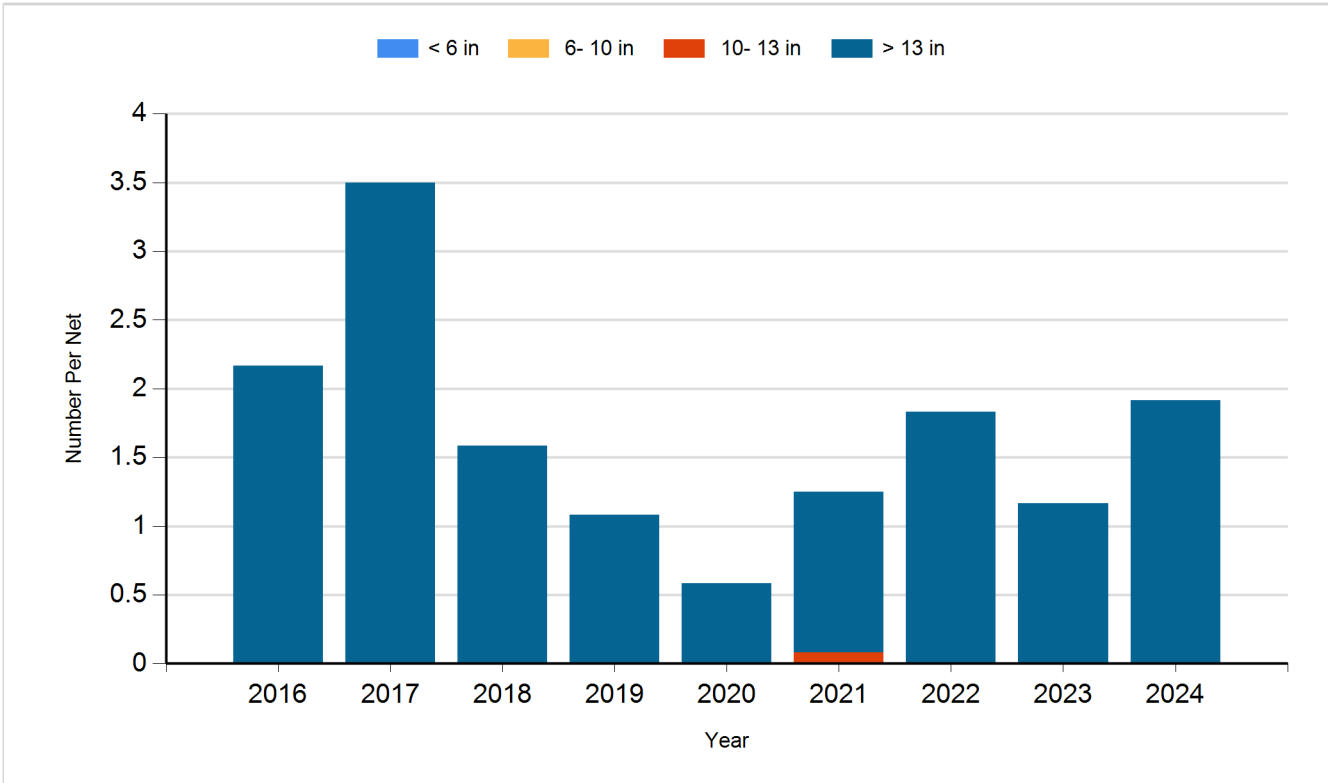
Species: White Bass
Gear: AFS std gill net



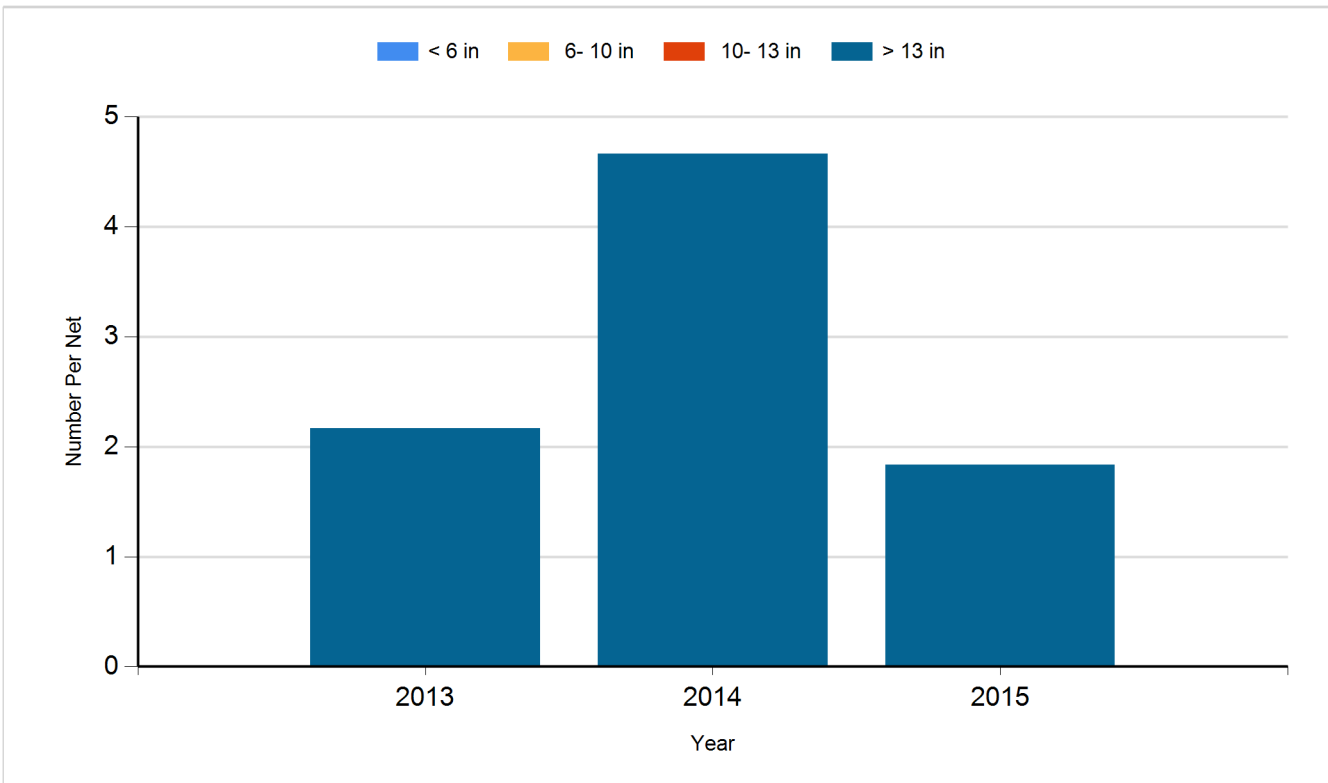
Species: White Bass
Gear: std exp gill net



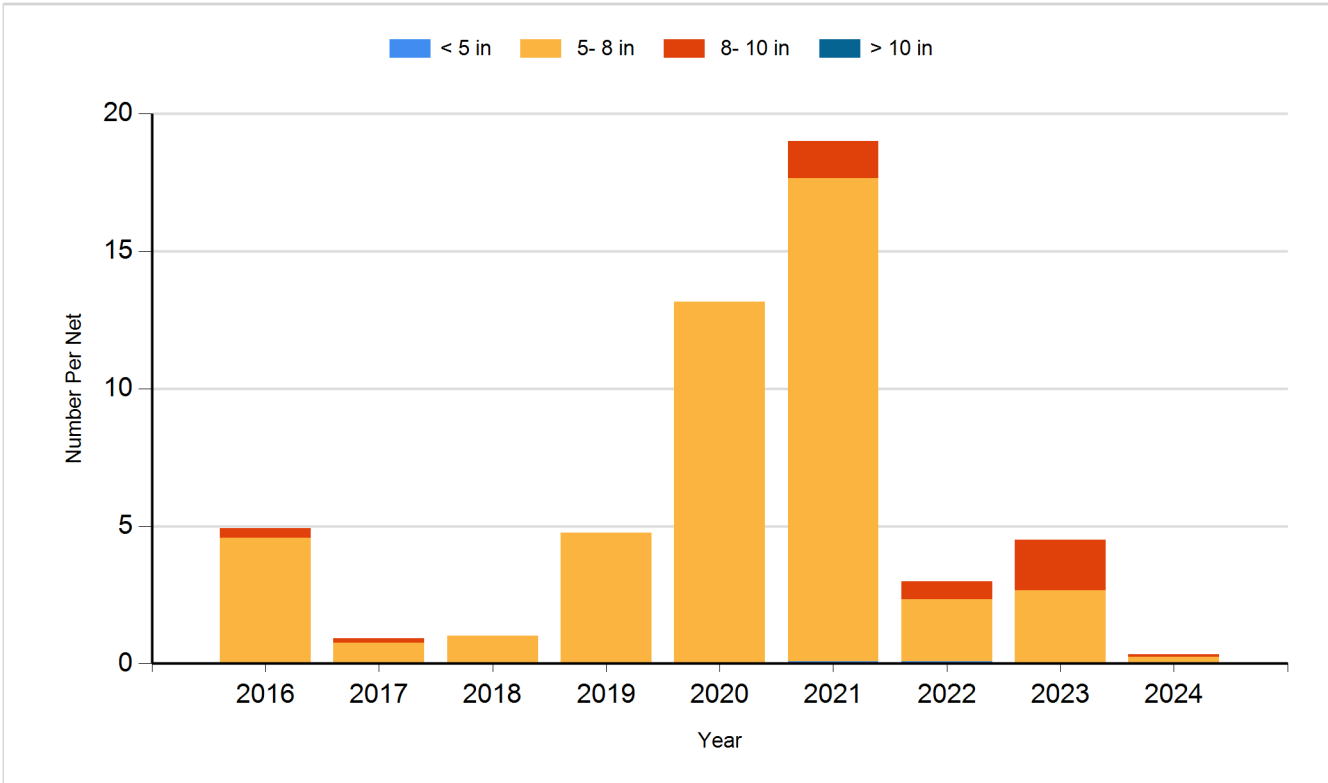
Species: White Sucker
Gear: AFS std gill net



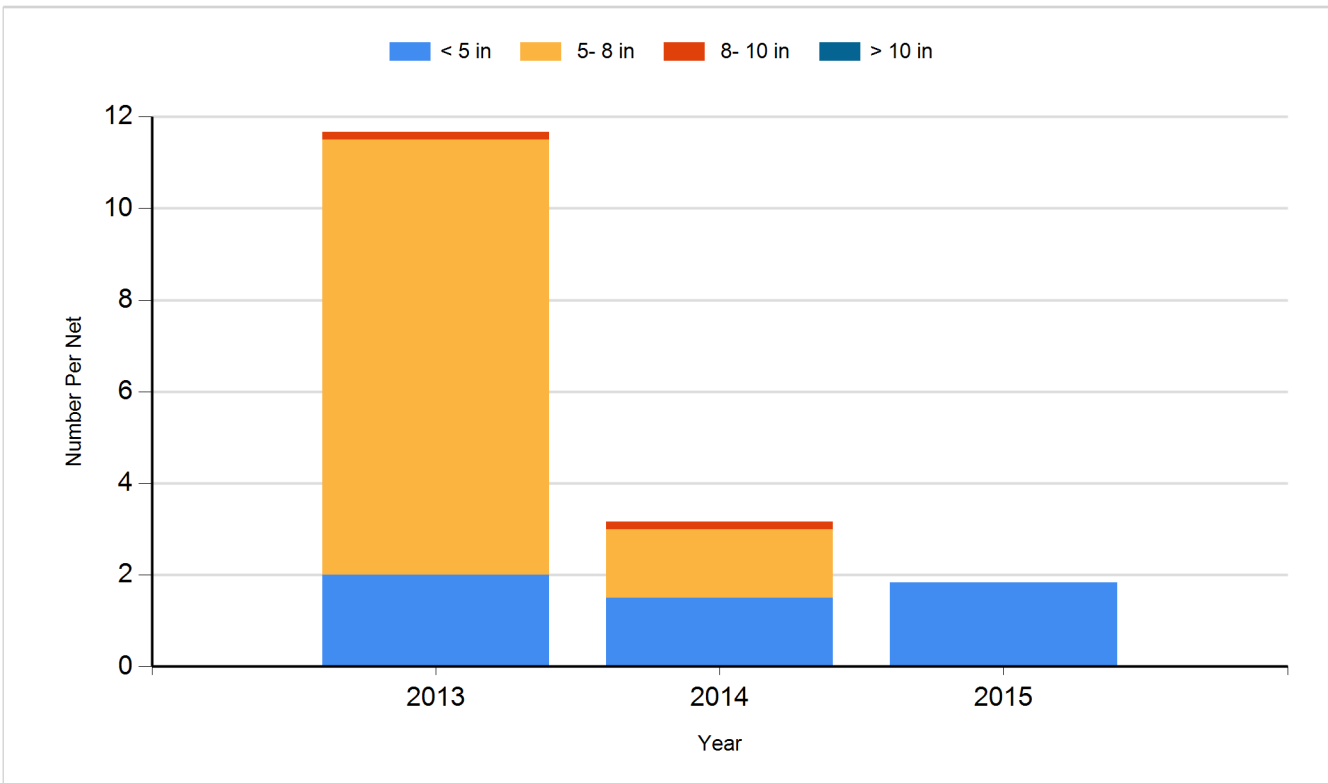
Species: White Sucker
Gear: std exp gill net



Species: Yellow Perch
Gear: AFS std gill net



Species: Yellow Perch
Gear: std exp gill net



Fish Stocking

Number of fish stocked by year, species, and size.

Year	Species	Size	Number
2013	Walleye	Small Fingerling	217,450
2015	Walleye	Large Fingerling	13,264
2017	Walleye	Large Fingerling	900
2018	Walleye	Large Fingerling	48,484
2019	Walleye	Large Fingerling	3,800
2020	Walleye	Large Fingerling	4,610
2021	Walleye	Adult	42
2021	Walleye	Juvenile	22,819
2022	Walleye	Juvenile	226,640
2024	Walleye	Fry	1,100,000