SOUTH DAKOTA STATEWIDE FISHERIES SURVEY
Kampeska, Codington County
UBS-Lake-171-000
2025

Lake Information

Name:	Kampeska	**Maximum Depth:**	16 Feet
County:	Codington	**Mean Depth:**	7 Feet
		OHWM Elevation:	1,718
Surface Area:	4,987 Acres	**Outlet Elevation:**	1,718

Surveys and Investigations

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

Gear	Date	Effort
AFS std gill net	Jul 22, 2025	4 net-nights
AFS std gill net	Jul 23, 2025	4 net-nights
AFS std gill net	Jul 24, 2025	4 net-nights
fall night EF-WAE	Oct 02, 2025	1800 seconds

Common Fish Species Present

Walleye

Smallmouth Bass

Black Crappie

White Crappie

Yellow Perch

White Bass

Bigmouth Buffalo

Channel Catfish

Northern Pike

Common Carp

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.
- s**td 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.

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

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.

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

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

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.

$$Wr = \left(\frac{W}{Ws}\right) \text{x } 100$$

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).

	Stock		Quality		Preferred		Memorable		Trophy	
Species Name	(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**

			Abundance		Stock Density Indices				Condition	
Gear	Species	Sample Size (n)	CPUE	CI-80	PSD	CI-80	PSD-P	CI-80	Wr	CI-80
AFS std gill net	Bigmouth Buffalo	23	1.9	0.8	96		0		89	2
	Bluegill	4	0.3	0.2	75		0		120	2
	Channel Catfish	9	0.8	0.6	100		56			
	Common Carp	3	0.3	0.2	67		67		97	14
	Northern Pike	7	0.6	0.3	86		14		83	4
	Smallmouth Bass	22	1.8	0.6	55	17	41	17	95	3
	Walleye	26	1.5	0.6	50	19	17		83	2
	White Bass	24	2.0	0.6	96		4		84	1
	White Crappie	2	0.2	0.2	100		50		90	9
	White Sucker	2	0.2	0.2	100		100		103	6
	Yellow Bullhead	2	0.2	0.2	100		100		86	1
	Yellow Perch	125	10.4	2.1	41	6	10	4	96	1

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**

		CPUE										
Gear	Species	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	Avg
AFS std frame net	Bigmouth Buffalo		0.6									0.60
	Black Bullhead		0.7									0.70
	Black Crappie		1.2									1.20
	Bluegill		0.5									0.50
	Channel Catfish		0.1									0.10
	Common Carp		0.1									0.10
	Northern Pike		0.2									0.20
	Smallmouth Bass		0.4									0.40
	Walleye		0.1									0.10
	White Bass		3.1									3.10
	White Crappie		0.1									0.10
	Yellow Bullhead		1.6									1.60
	Yellow Perch		0.1									0.10
AFS std gill net	Bigmouth Buffalo	0.0	0.0	8.3	5.6		6.1	3.6	1.5	2.8	1.9	3.31
	Black Bullhead	0.4	0.4	0.3	0.0		0.8	0.0	0.0	0.0	0.0	0.21
	Black Crappie	0.0	0.1	0.0	0.0		0.1	0.0	0.0	0.0	0.0	0.02
	Bluegill	0.0	0.1	0.0	0.0		0.0	0.1	0.0	0.1	0.3	0.07
	Channel Catfish	1.0	0.9	0.3	0.4		1.8	3.1	2.3	3.0	0.8	1.51
	Common Carp	0.1	0.0	0.3	0.6		0.1	0.0	0.3	0.3	0.3	0.22
	Northern Pike	0.5	0.2	0.7	0.8		0.9	0.6	0.6	0.3	0.6	0.58
	Rock Bass	0.0	0.0	0.0	0.0		0.0	0.1	0.1	0.0	0.0	0.02
	Shorthead Redhorse	0.2	0.0	0.1	0.2		0.0	0.0	0.2	0.1	0.0	0.09
	Smallmouth Bass	0.8	1.3	0.6	0.0		1.2	1.9	0.8	1.0	1.8	1.04
	Walleye	4.6	2.7	2.6	4.0		3.3	2.1	2.8	2.3	1.5	2.88
	White Bass	1.8	1.5	1.4	2.0		1.7	1.8	1.0	2.3	2.0	1.72
	White Crappie	1.1	0.5	0.2	2.6		0.9	0.6	0.2	0.0	0.2	0.70
	White Sucker	0.6	0.6	0.8	0.3		0.0	0.4	0.1	0.3	0.2	0.37
	Yellow Bullhead	1.1	0.7	0.6	0.3		6.6	0.3	0.1	0.8	0.2	1.19
	Yellow Perch	5.3	5.3	3.3	4.3		2.3	4.7	4.4	5.1	10.4	5.01
boat shocker (day)	Smallmouth Bass				97.0							97.00
boat shocker (night)	Walleye*	7.0	41.0									24.00
boat shocker (night, DC)	Smallmouth Bass	159.8										159.80

		CPUE										
Gear	Species	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	Avg
fall night EF-WAE*	Walleye			75.0	54.2		36.6		126.0	2.0	24.0	52.97
frame net (std 3/4 in)	Bigmouth Buffalo								5.6			5.60
	Black Bullhead								0.1			0.10
	Black Crappie								0.0			0.00
	Bluegill								1.3			1.30
	Channel Catfish								0.1			0.10
	Common Carp								0.2			0.20
	Northern Pike								0.5			0.50
	Rock Bass								0.1			0.10
	Smallmouth Bass								2.7			2.70
	Walleye								0.3			0.30
	White Bass								0.4			0.40
	White Crappie								0.0			0.00
	White Sucker								0.2			0.20
	Yellow Bullhead								1.2			1.20
	Yellow Perch								0.1			0.10

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.

			Year									
Gear	Species	Index	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
AFS std frame net	Bigmouth Buffalo	PSD		100								
		PSD-P		100								
	Black Crappie	PSD		65								
		PSD-P		17								
		Wr		104								
	Channel Catfish	PSD		100								
		PSD-P		100								
	Common Carp	PSD		100								
		PSD-P		100								
	Northern Pike	PSD		100								
		PSD-P		100								
	Smallmouth Bass	PSD		57								
		PSD-P		0								
		Wr		93								
	Walleye	PSD		0								
		PSD-P		0								
		Wr		76								
	White Bass	PSD		100								
		PSD-P		87								
		Wr		79								
	White Crappie	PSD		100								
		PSD-P		100								
		Wr		82								
	Yellow Perch	PSD		100								
		PSD-P		0								
		Wr		86								
AFS std gill net	Bigmouth Buffalo	PSD			3	27		81	77	94	94	96
		PSD-P			1	0		5	2	0	3	0
		Wr			89	90		89	87	89	88	89
	Black Crappie	PSD		100				100				
		PSD-P		100				100				
		Wr		73				99				
	Channel Catfish	PSD	100	100	100	100		33	92	96	100	100

			Year									
Gear	Species	Index	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
AFS std gill net	Channel Catfish	PSD-P	42	70	67	80		0	0	0	19	56
		Wr	101	100	112	114		95	107	110	100	
	Common Carp	PSD	100		100	100		100		100	100	67
		PSD-P	100		100	100		100		100	75	67
		Wr	91		92	88		93		96	102	97
	Northern Pike	PSD	83	50	100	70		82	100	100	100	86
		PSD-P	17	0	38	20		0	14	71	100	14
		Wr	86	68	73	86		76	86	71	86	83
	Smallmouth Bass	PSD	33	57	100			71	74	78	58	55
		PSD-P	0	21	14			14	9	11	33	41
		Wr	88	90	88			85	86	92	92	95
	Walleye	PSD	18	7	3	69		51	40	21	32	50
		PSD-P	2	3	0	2		3	0	9	4	17
		Wr	79	75	85	88		84	81	85	80	83
	White Bass	PSD	48	94	100	92		90	100	100	85	96
		PSD-P	48	50	88	92		80	81	83	85	4
		Wr	86	80	88	85		87	81	89	77	84
	White Crappie	PSD	100	100	100	6		100	100	100		100
		PSD-P	100	100	100	6		18	14	0		50
		Wr	90	91	97	112		93	94	99		90
	Yellow Perch	PSD	90	97	92	81		96	68	74	69	41
		PSD-P	40	48	67	73		26	14	23	21	10
		Wr	108	109	105	100		99	106	106	101	96
boat shocker (day)	Smallmouth Bass	PSD				66						
		PSD-P				13						
		Wr				90						
boat shocker (night)	Walleye	PSD	0	0								
		PSD-P	0	0								
		Wr	92	90								
boat shocker (night, DC)	Smallmouth Bass	PSD	61									
		PSD-P	18									
		Wr	96									
frame net (std 3/4 in)	Bigmouth Buffalo	PSD								100		
		PSD-P								12		
		Wr								91		
	Channel Catfish	PSD								100		

			Year									
Gear	Species	Index	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
frame net (std 3/4 in)	Channel Catfish	PSD-P								100		
		Wr								112		
	Common Carp	PSD								100		
		PSD-P								100		
		Wr								92		
	Northern Pike	PSD								78		
		PSD-P								44		
		Wr								74		
	Smallmouth Bass	PSD								45		
		PSD-P								16		
		Wr								97		
	Walleye	PSD								50		
		PSD-P								17		
		Wr								83		
	White Bass	PSD								100		
		PSD-P								100		
		Wr								86		
	Yellow Perch	PSD								100		
		PSD-P								50		
		Wr								97		

Length at Capture

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

Species: Smallmouth Bass

		Mean Length (expanded sample number) at capture by age									
Year	N	1	2	3	4	5	6	7	8	9	10+
2019	91		196 (20)	248 (10)	284 (24)	333 (28)	339 (10)	384 (1)			
2016	160		196 (5)	256 (45)	278 (24)	310 (32)	337 (26)	341 (20)	386 (2)	414 (5)	

Species: Walleye

		Mean Length (expanded sample number) at capture by age									
Year	N	1	2	3	4	5	6	7	8	9	10+
2025	26		241 (12)		359 (7)	449 (1)	495 (4)	579 (2)			
2024	29		266 (5)	341 (15)	373 (4)	386 (1)	470 (3)				478 (1)
2023	38	193 (2)	258 (18)	329 (8)	371 (4)	463 (2)				598 (1)	539 (3)
2022	26	222 (1)	296 (8)	376 (9)	418 (3)	446 (1)			462 (3)	466 (1)	
2021	40	217 (1)	326 (8)	384 (24)	490 (1)	474 (1)		503 (2)	466 (3)		
2019	67	211 (20)	348 (8)	396 (1)	367 (2)	410 (23)	426 (6)	446 (1)	463 (6)		
2018	38	232 (7)		324 (2)	319 (14)	325 (10)	354 (2)	367 (2)			
2017	30			276 (12)	313 (10)		359 (7)			659 (1)	
2016	58	205 (1)	260 (14)	305 (19)		365 (20)		480 (1)	608 (1)	404 (1)	432 (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+
2025	125	148 (18)	194 (82)	243 (16)	244 (2)	250 (3)	243 (1)	292 (3)			
2024	61	145 (6)	200 (25)	234 (8)	248 (16)		257 (7)				
2023	53	142 (7)	198 (11)	220 (19)	232 (1)	260 (13)	293 (2)				
2022	56		184 (16)	203 (6)	241 (33)			316 (1)			
2021	27		191 (2)	219 (16)	242 (3)	282 (1)	291 (3)		299 (2)		
2019	53	120 (1)	187 (13)	234 (1)	278 (17)		294 (13)	293 (1)	304 (4)	313 (1)	304 (2)
2018	38	138 (2)	214 (2)	249 (14)	274 (4)	271 (13)	287 (3)				307 (1)
2017	58	138 (1)	215 (22)	237 (4)	264 (22)	303 (5)	289 (3)	256 (1)			

		Mean Length (expanded sample number) at capture by age									
Year	N	1	2	3	4	5	6	7	8	9	10+
2016	63	142 (3)	187 (3)	234 (31)		274 (11)	277 (11)	279 (3)	255 (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).

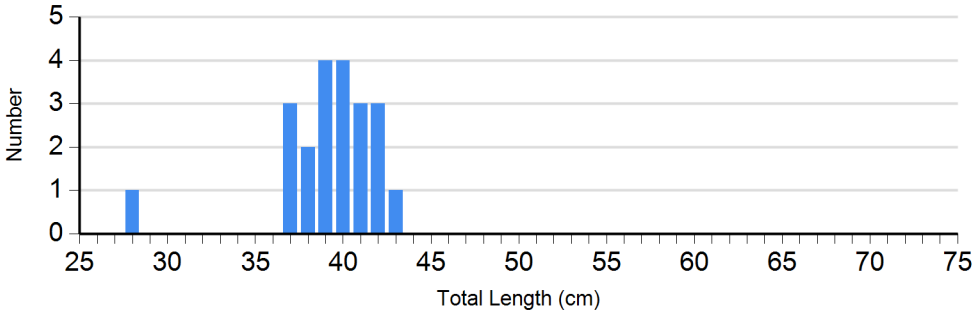
		Length Groups							
		S-Q		Q-P		P-M		M	
Species	Year	N	Wr (SE)	N	Wr (SE)	N	Wr (SE)	N	Wr (SE)
Channel Catfish Gill Net	2021	14	97 (2.1)	7	90 (3.0)	0		0	
	2022	3	103 (0.7)	34	107 (2.2)	0		0	
	2023	1	100	27	110 (2.4)	0		0	
	2024	0		29	101 (2.1)	7	96 (2.9)	0	
Common Carp Gill Net	2021	0		0		0		1	93
	2023	0		0		1	98	2	95 (0.6)
	2024	0		1	119	1	96	2	98 (2.4)
	2025	1	112	0		0		2	90 (13.4)
Northern Pike Gill Net	2021	2	84 (9.4)	9	74 (4.0)	0		0	
	2022	0		6	84 (4.7)	1	96	0	
	2023	0		2	73 (3.6)	5	70 (2.8)	0	
	2024	0		0		4	86 (4.6)	0	
	2025	1	76	5	85 (4.1)	1	84	0	
Walleye Gill Net	2021	19	84 (1.1)	19	83 (0.7)	1	84	0	
	2022	15	82 (1.5)	10	79 (1.5)	0		0	
	2023	26	86 (1.2)	4	79 (1.5)	3	80 (4.1)	0	
	2024	19	80 (0.8)	8	80 (1.5)	1	80	0	
	2025	9	83 (1.4)	6	85 (3.4)	3	81 (0.7)	0	
White Bass Gill Net	2021	2	96 (0.2)	2	89 (2.7)	15	85 (0.9)	1	84
	2022	0		4	90 (1.8)	17	79 (1.1)	0	
	2023	0		2	94 (5.5)	9	89 (1.2)	1	80
	2024	4	85 (6.0)	0		20	77 (0.8)	3	68 (3.2)

		Length Groups							
		S-Q		Q-P		P-M		M	
Species	Year	N	Wr (SE)	N	Wr (SE)	N	Wr (SE)	N	Wr (SE)
White Bass Gill Net	2025	1	83	22	84 (0.8)	1	75	0	
Yellow Perch Gill Net	2021	1	115	19	101 (1.3)	5	93 (3.2)	2	87 (4.6)
	2022	18	106 (1.6)	30	108 (1.0)	7	100 (2.3)	1	90
	2023	14	105 (1.9)	27	106 (1.0)	12	106 (2.0)	0	
	2024	19	101 (1.9)	29	102 (1.3)	13	98 (1.7)	0	
	2025	74	97 (0.7)	39	94 (1.0)	11	95 (1.6)	1	93

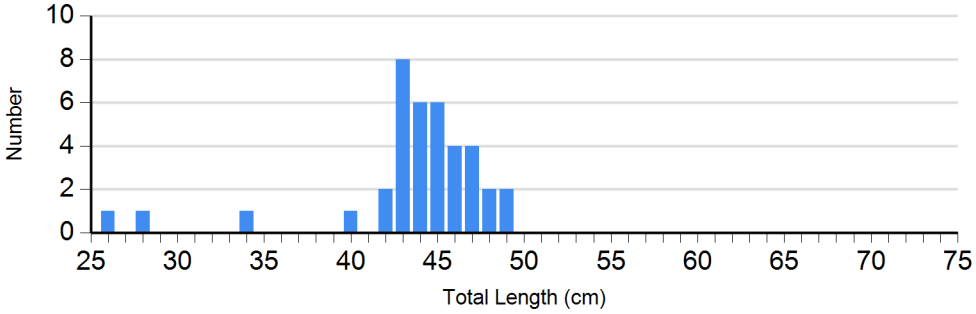
Length Frequency Distribution

Length frequency histogram of species sampled by year.

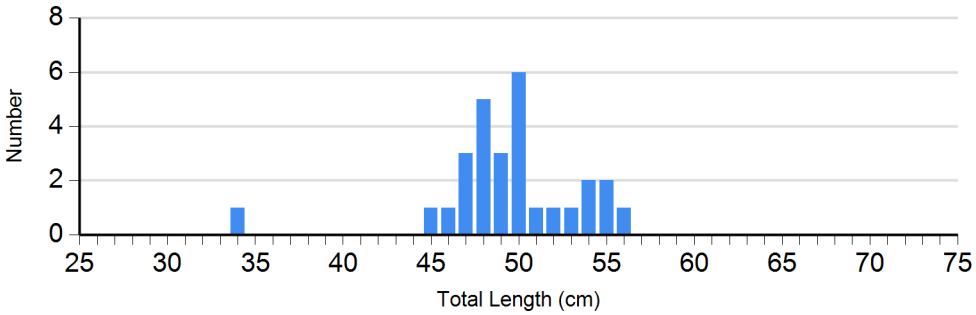
Species: Channel Catfish
Gear: AFS std gill net



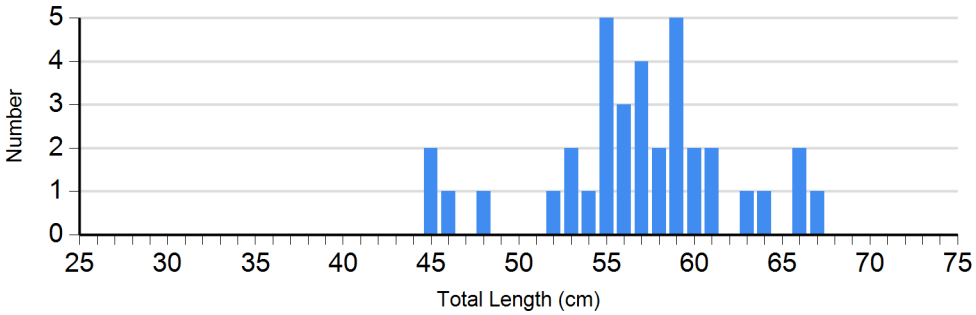
2021



2022

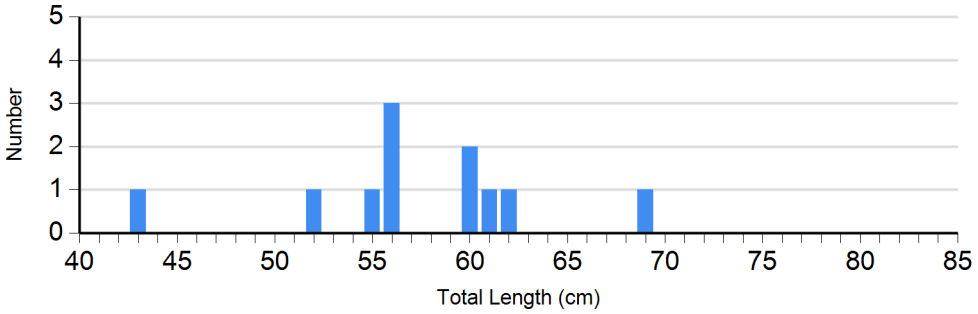


2023



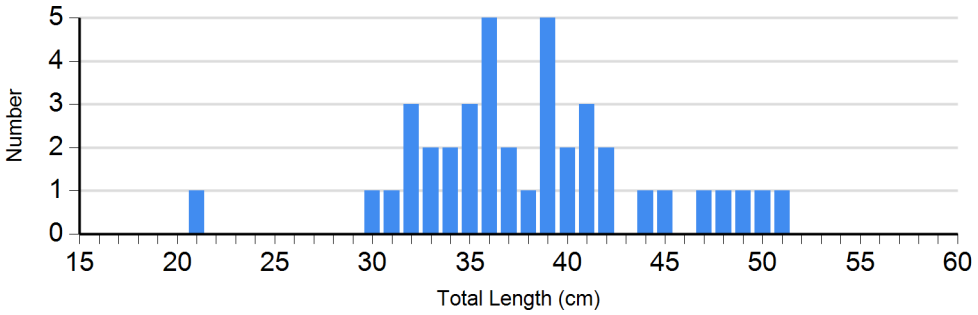
2024

Species: Northern Pike
Gear: AFS std gill net

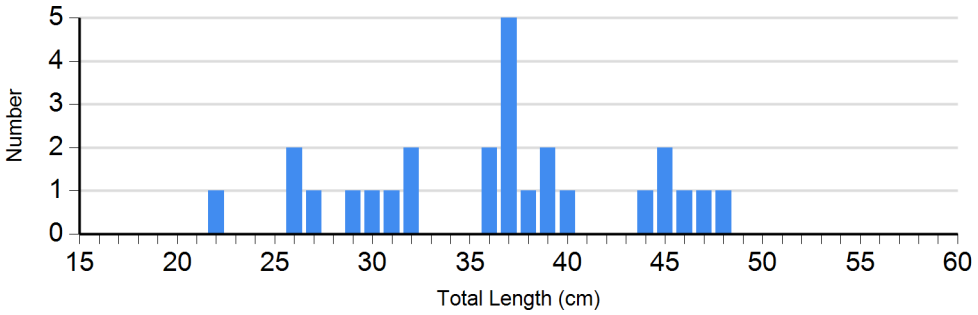


2021

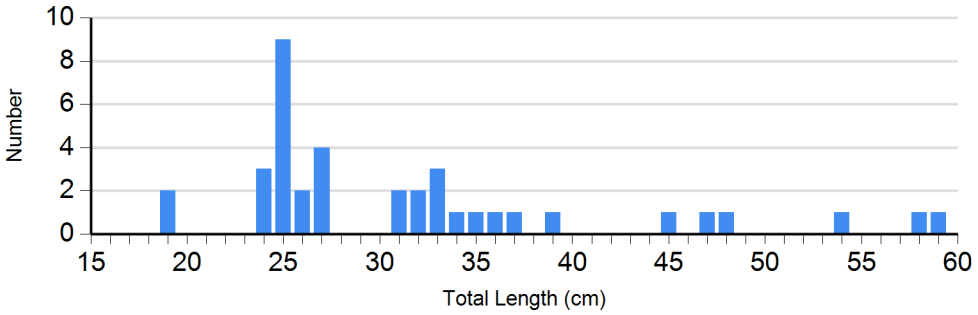
Species: Walleye
Gear: AFS std gill net



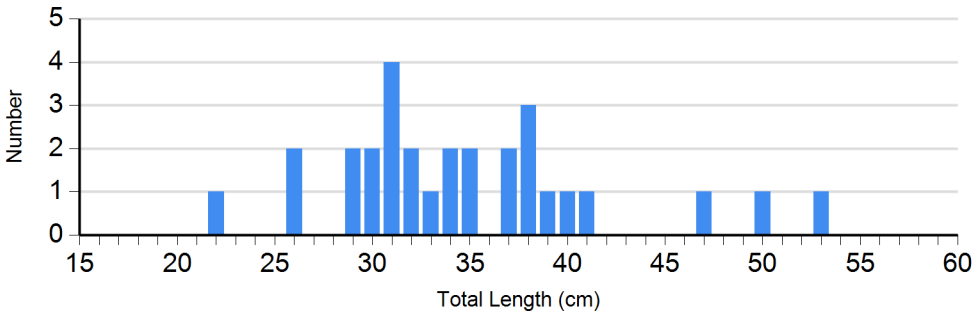
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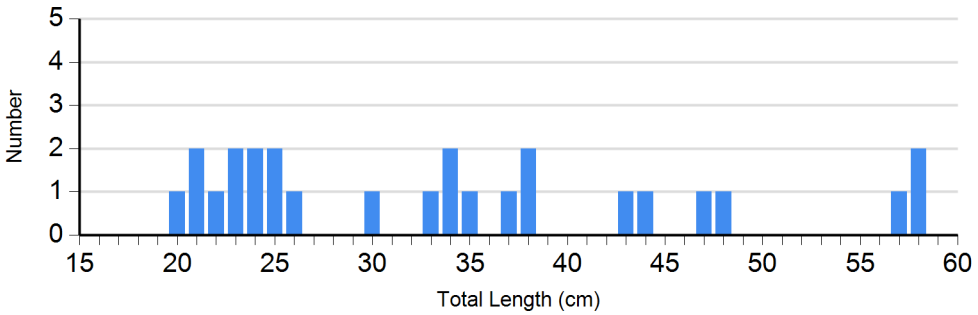
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2023

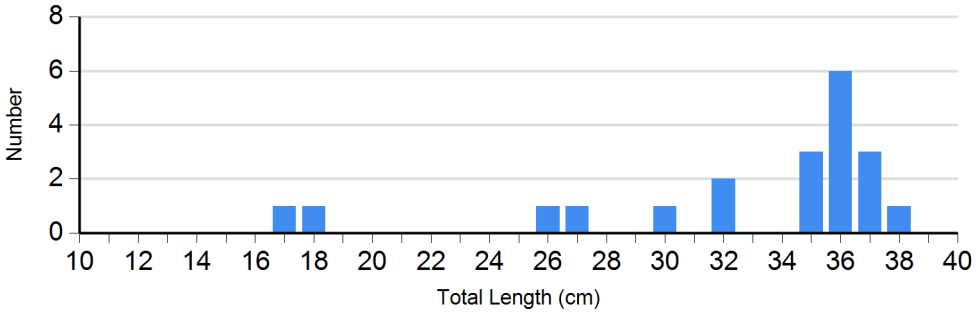


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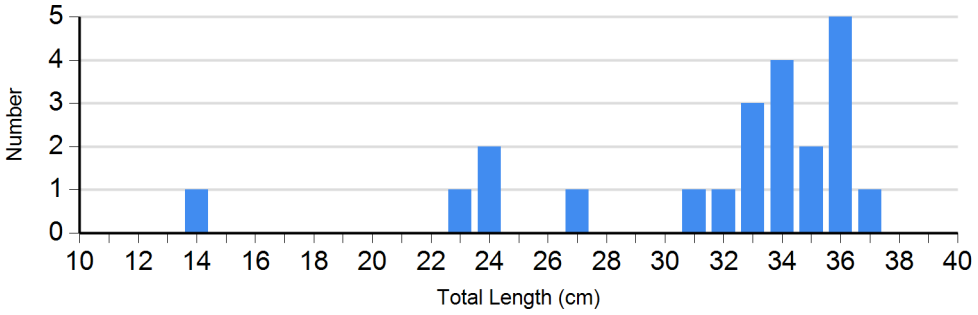


2025

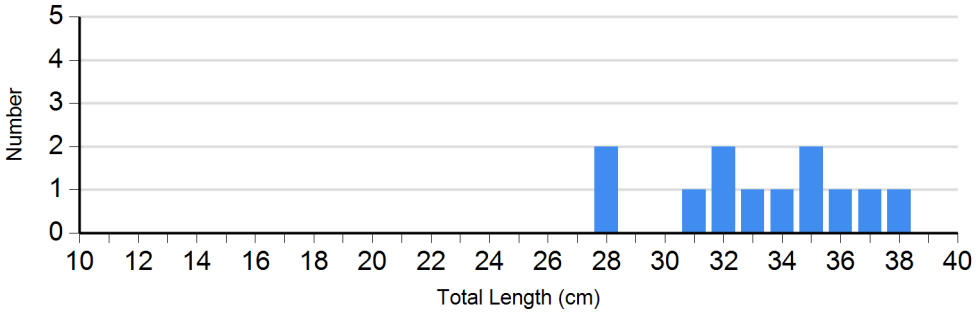
Species: White Bass
Gear: AFS std gill net



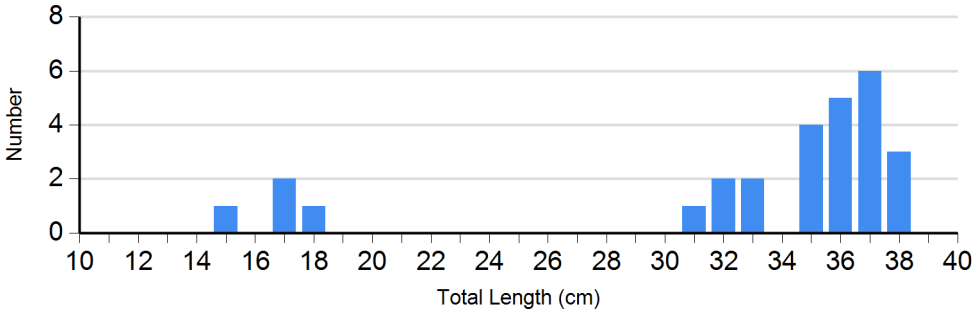
2021



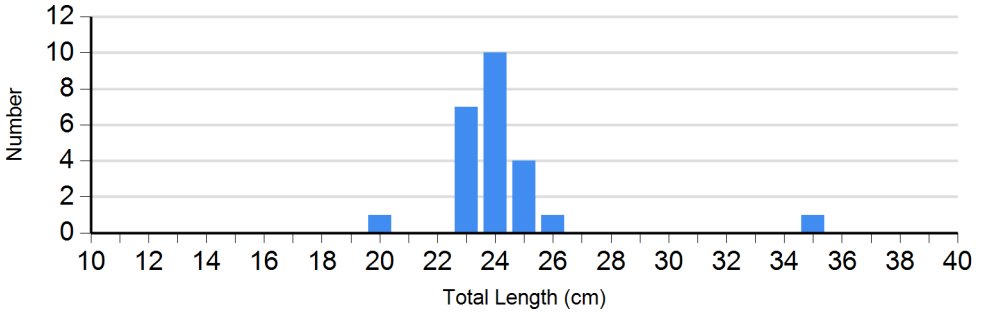
2022



2023

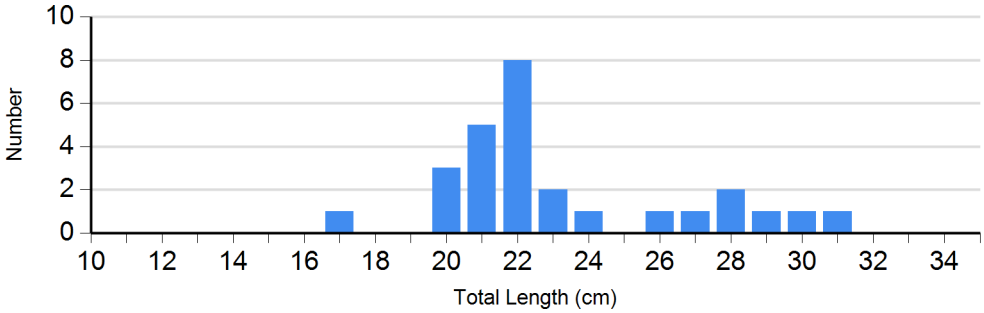


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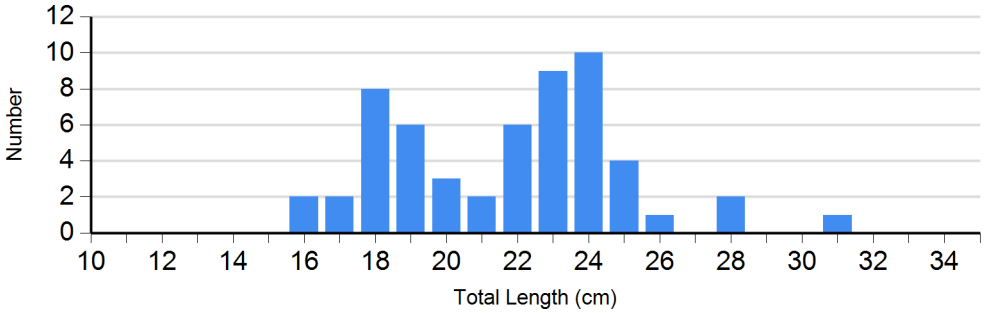


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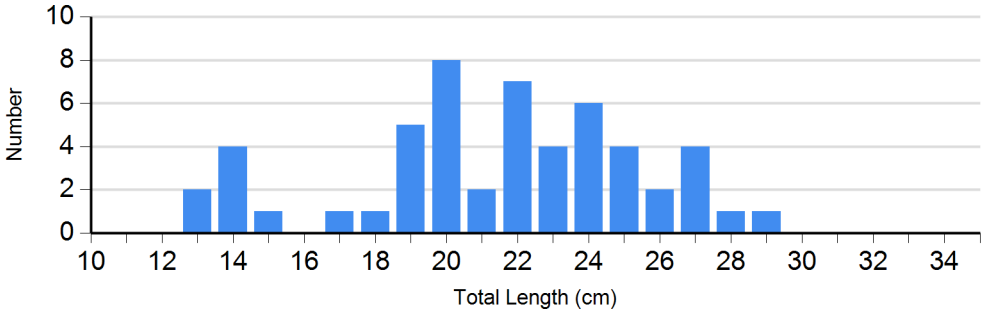
Species: Yellow Perch
Gear: AFS std gill net



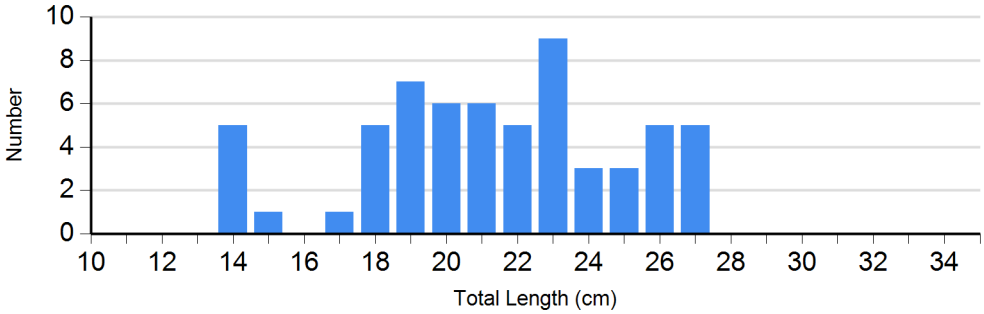
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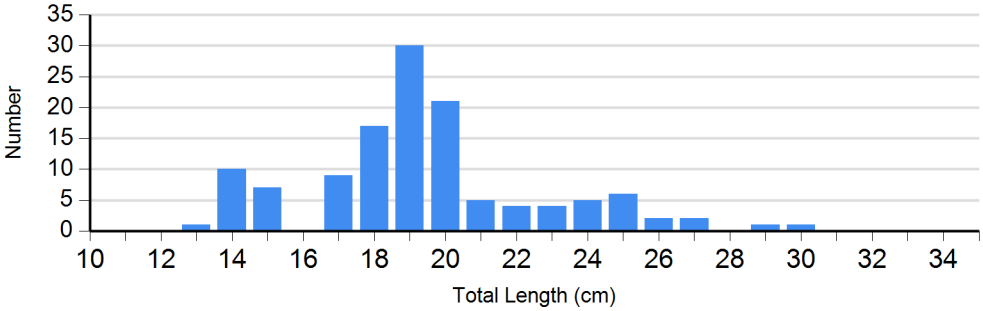
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2023



2024

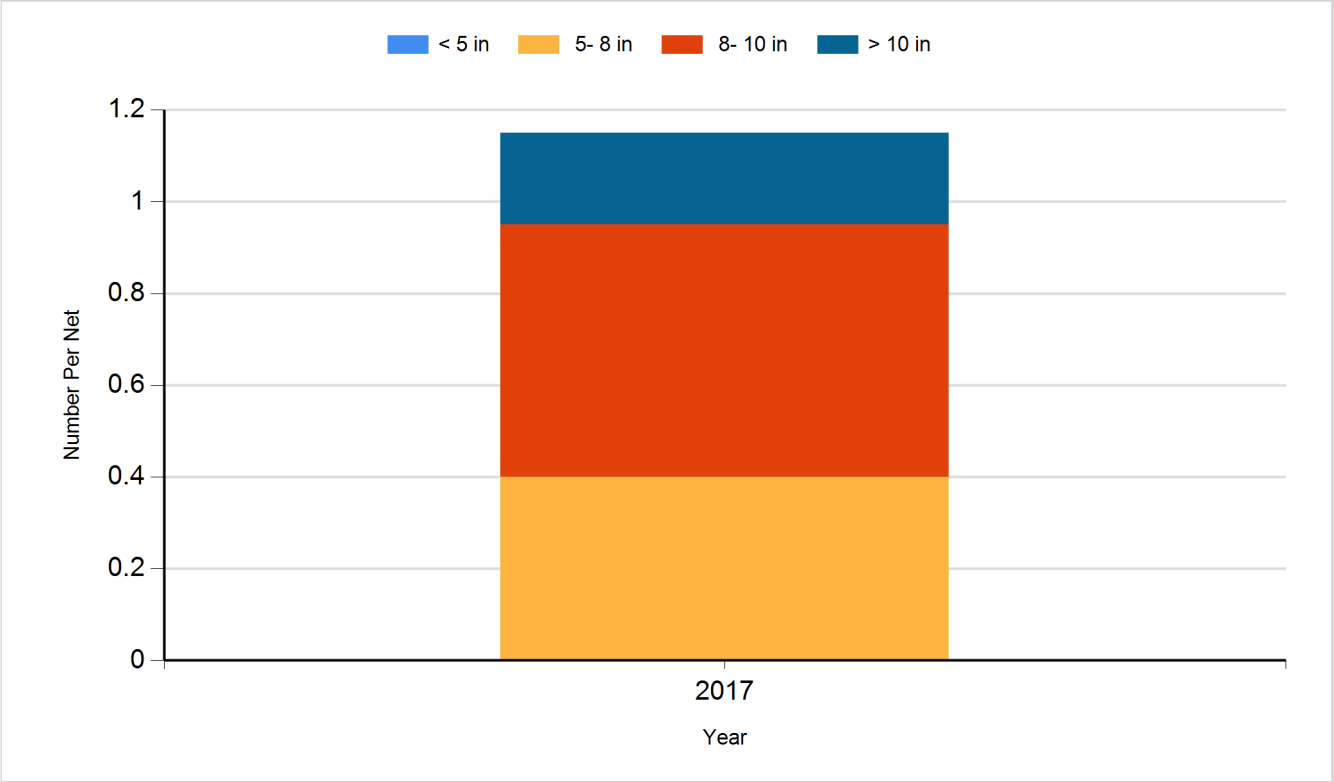

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30
25
20
15
10
5
0
Number
10
12
14
16
18
20
22
24
26
28
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32
34
Total Length (cm)

2025

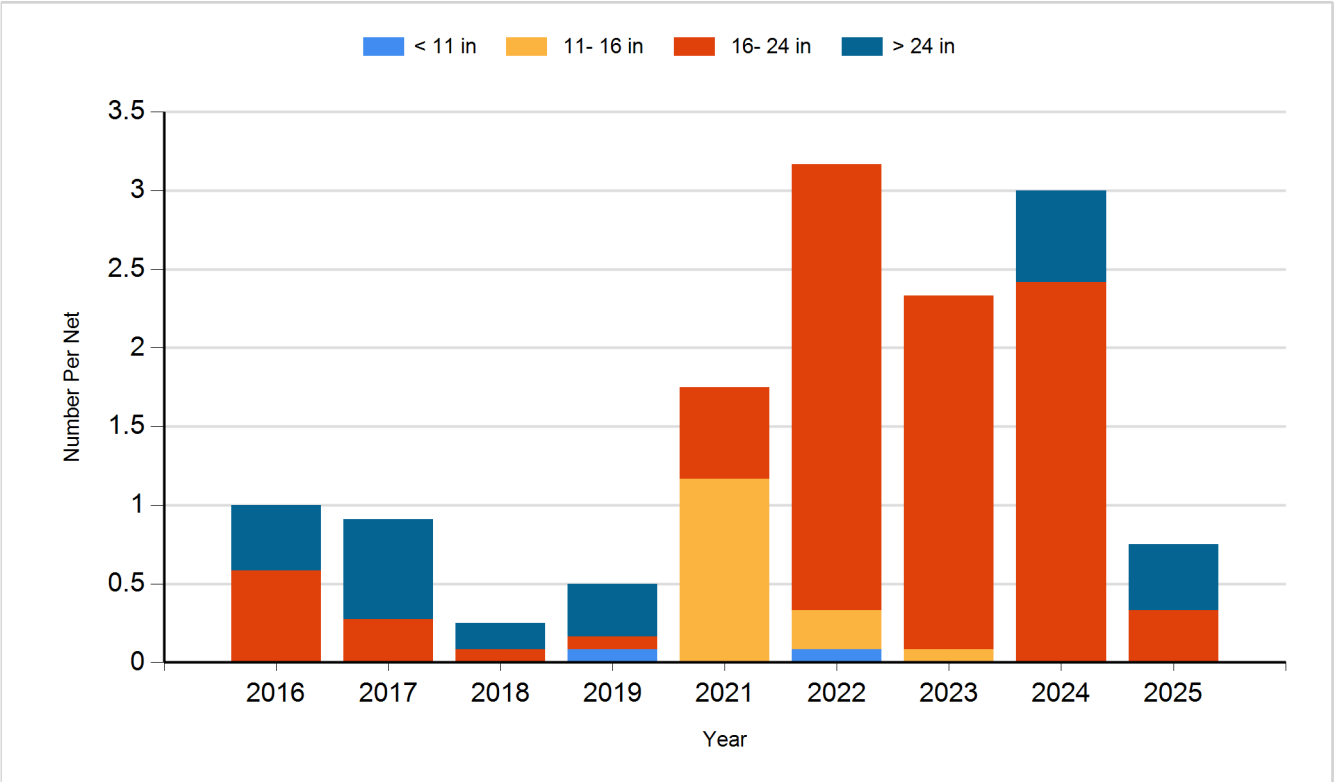
Historic Fish Sizes and Relative Abundance

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

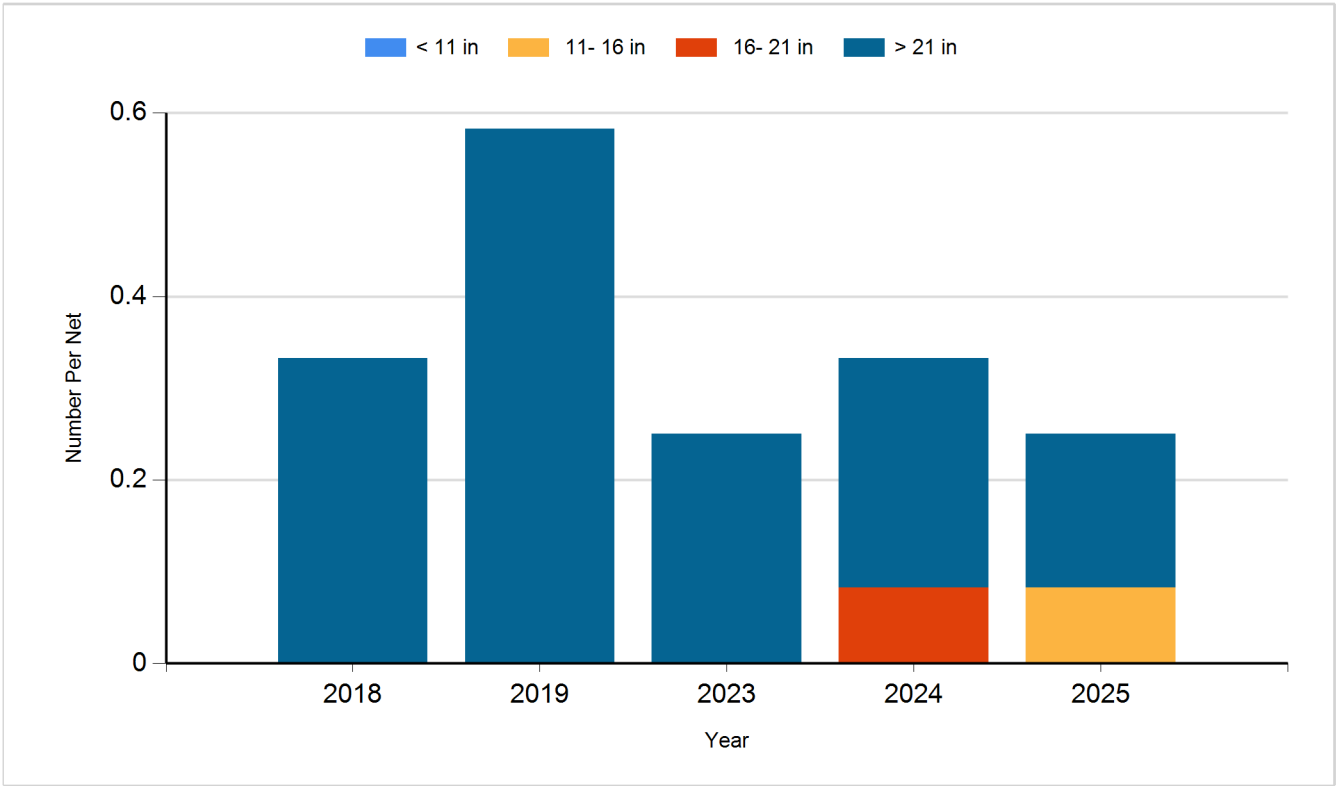
Species: Black Crappie
Gear: AFS std frame net



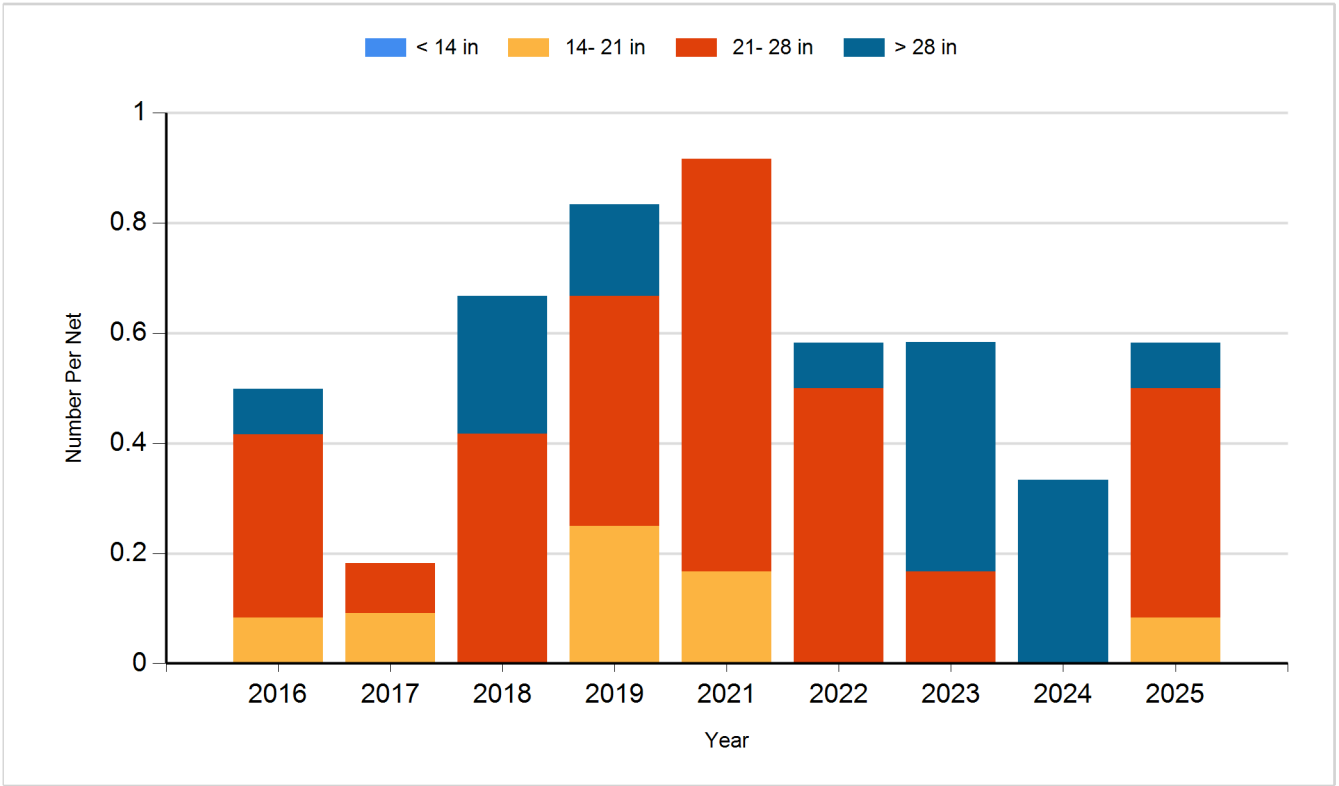
Species: Channel Catfish
Gear: AFS std gill net



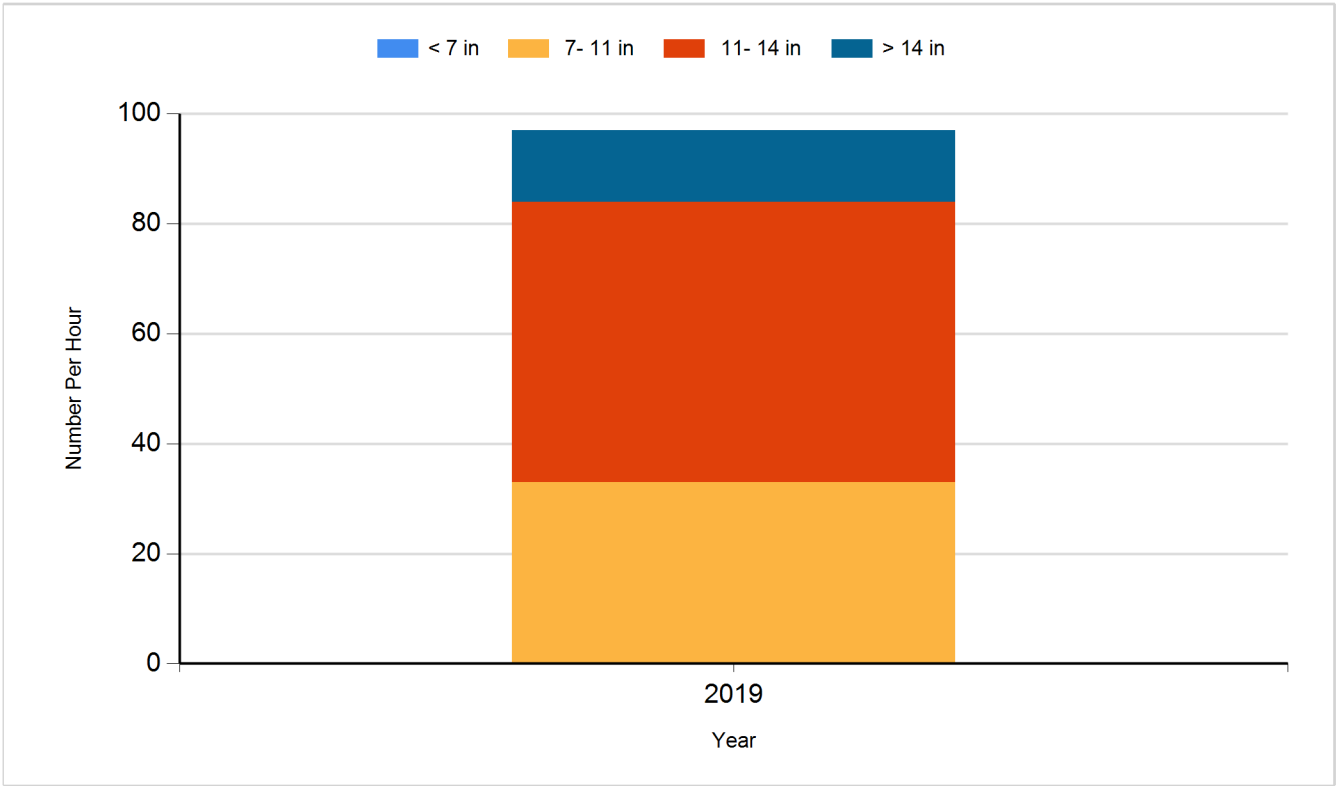
Species: Common Carp
Gear: AFS std gill net



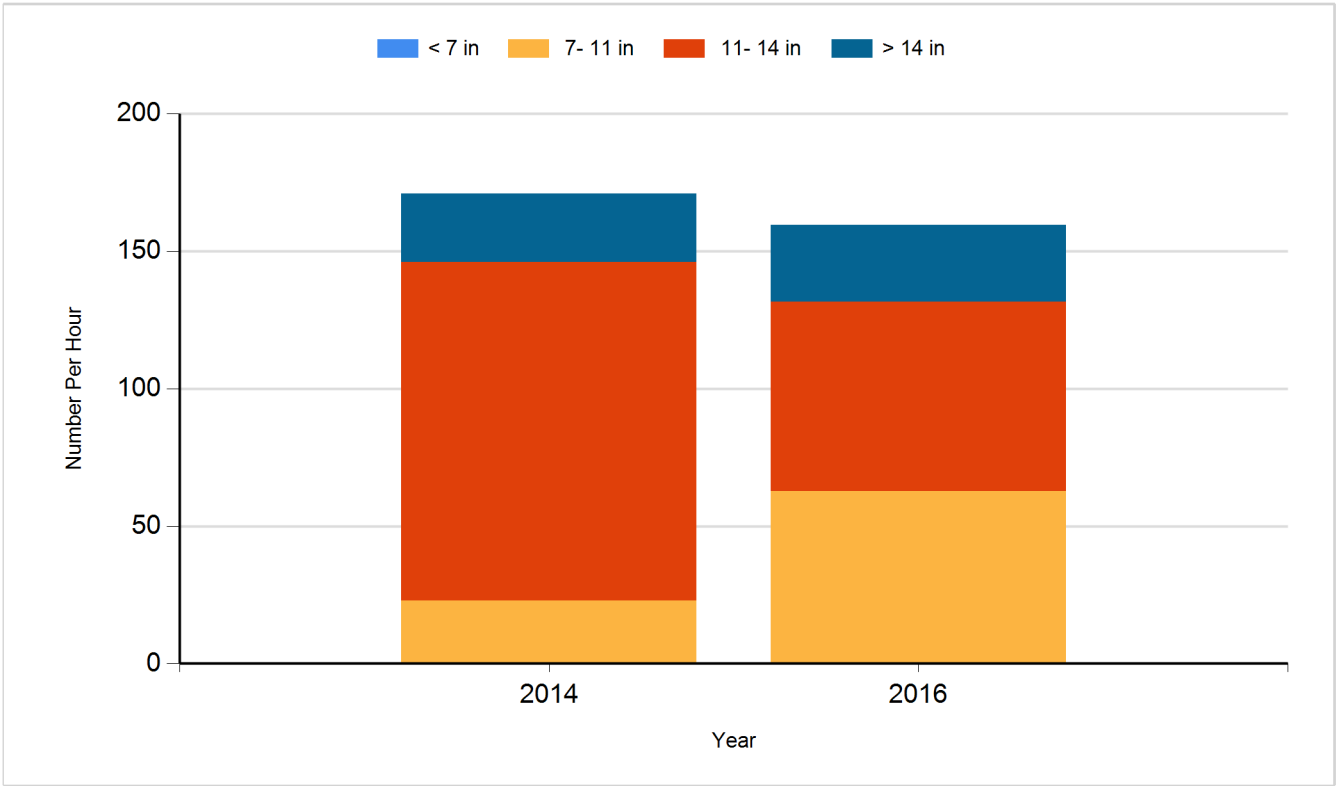
Species: Northern Pike
Gear: AFS std gill net



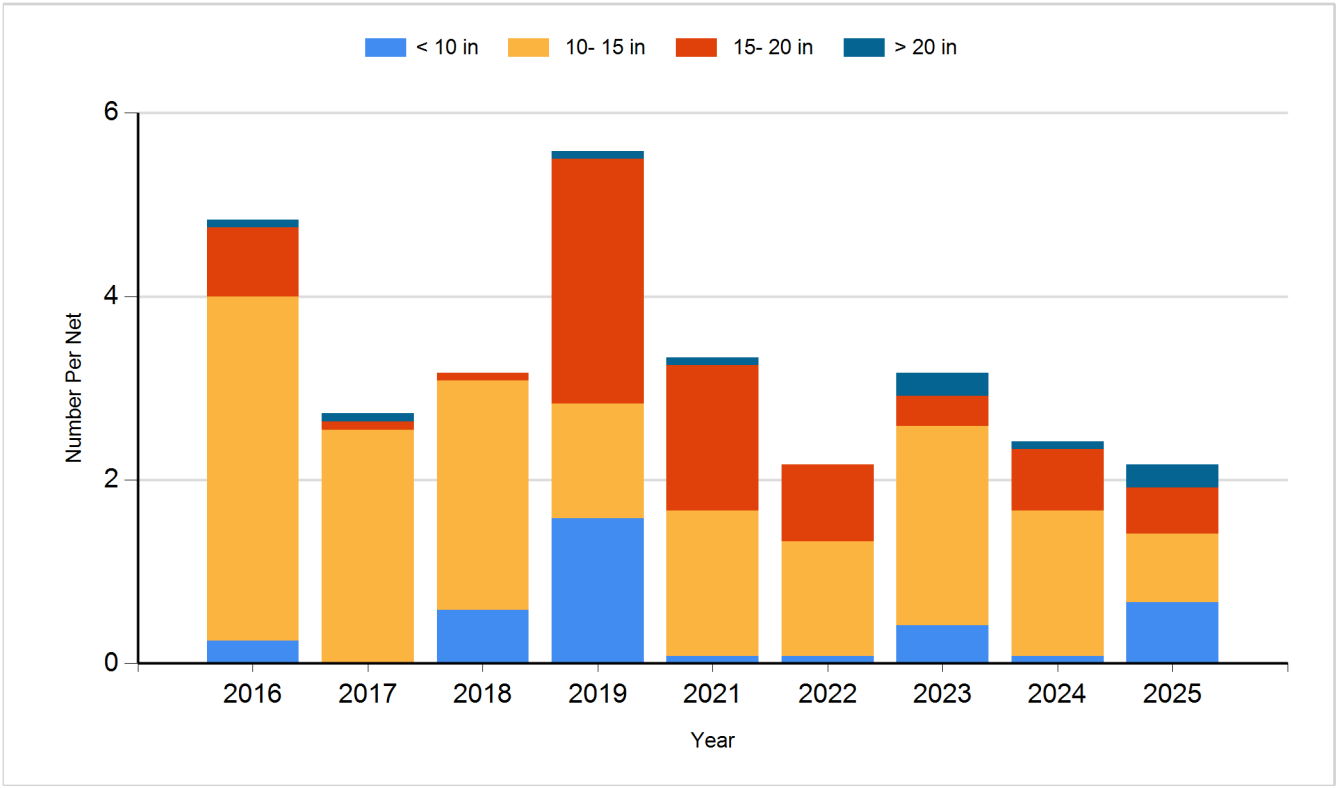
Species: Smallmouth Bass
Gear: boat shocker (day)



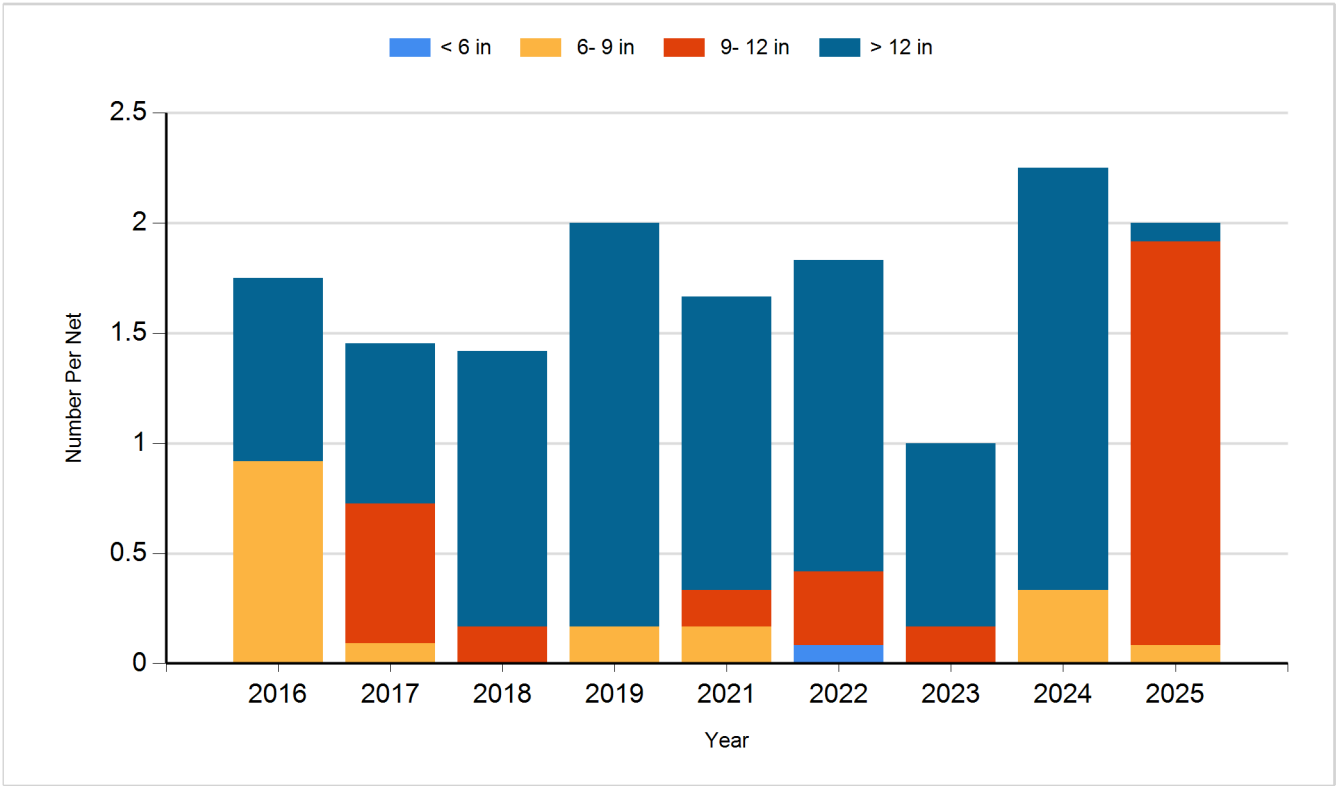
Species: Smallmouth Bass
Gear: boat shocker (night, DC)



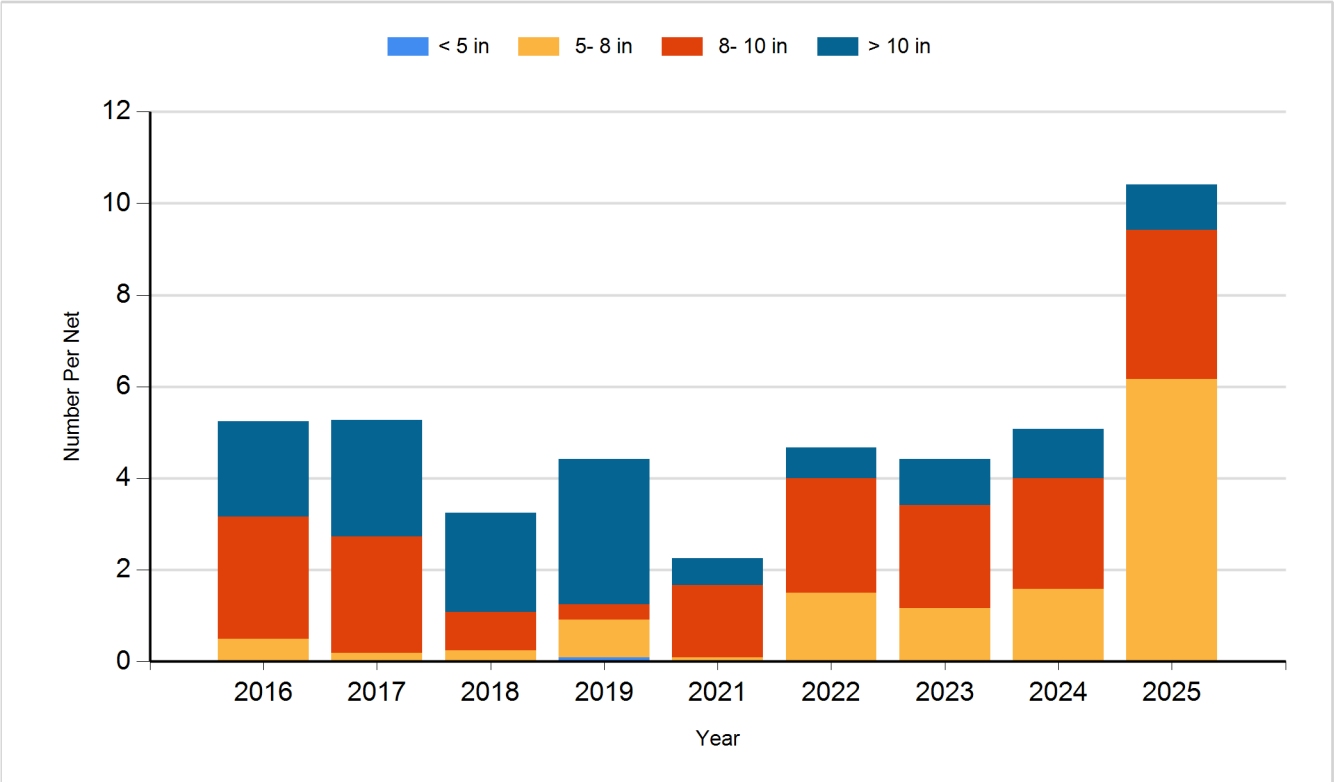
Species: Walleye
Gear: AFS std gill net



Species: White Bass
Gear: AFS std gill net



Species: Yellow Perch
Gear: AFS std gill net



Fish Stocking

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

Year	Species	Size	Number
2014	Walleye	Fry	2,500,000
2016	Walleye	Fry	2,400,000
2017	Walleye	Fry	2,400,000
2018	Walleye	Fry	2,400,000
2019	Walleye		2,400,000
2021	Walleye	Fry	2,400,000
2022	Walleye	Fry	2,500,000
2023	Walleye	Fry	5,100,000
2025	Walleye	Fry	2,625,000