

**SOUTH DAKOTA STATEWIDE FISHERIES SURVEY**  
**Lewis and Clark, Yankton County**  
**LCL-Lake-73-000**  
**2022**

**Lake Information**

**Name:** Lewis and Clark  
**County:** Yankton  
**Surface Area:** 19,279 Acres

**Surveys and Investigations**

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

Gear	Date	Effort
AFS gill net (1/2 inch)	Sep 19, 2022	20 net-nights
AFS gill net (1/2 inch)	Sep 20, 2022	16 net-nights
AFS std gill net	Sep 19, 2022	20 net-nights
AFS std gill net	Sep 20, 2022	16 net-nights
boat shocker (night)	May 23, 2022	3600 seconds
fall night EF-WAE	Oct 26, 2022	7200 seconds
large seine	Aug 01, 2022	14 hauls

## **Common Fish Species Present**

Smallmouth Bass

Walleye

Sauger

Channel Catfish

Freshwater Drum

Gizzard Shad

Smallmouth Buffalo

Yellow Perch

Shorthead Redhorse

River Carpsucker

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## 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	Channel Catfish	218	5.9	0.9	43	5	9	3	85	1
	Common Carp	3	0.1	0.1	67		33		127	17
	Flathead Catfish	5	0.1	0.1	40		0		89	2
	Freshwater Drum	105	2.8	0.6	95	3	71	6	101	1
	Gizzard Shad	101	0.2	0.1	29				94	7
	Goldeye	4	0.0	0.0						
	Largemouth Bass	5	0.0	0.0	0		0			
	River Carpsucker	6	0.2	0.1	67		33		93	4
	Sauger	23	0.6	0.2	73	15	41	17	80	1
	Shorthead Redhorse	8	0.2	0.1	100		75		101	14
	Shortnose Gar	1	0.0	0.0						
	Smallmouth Buffalo	11	0.3	0.2	45		36		87	6
	Walleye	45	1.0	0.3	64	12	17	10	87	2
	White Bass	5	0.1	0.1	100		100		107	3
	White Crappie	1	0.0	0.0	100		0		104	
Yellow Perch	12	0.3	0.2	83		0		89	2	
boat shocker (night)	Smallmouth Bass	49	42.0	51.0	52	12	21	10	95	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

Gear	Species	CPUE										Avg
		2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	
AFS gill net (1/2 inch)*	Channel Catfish					0.1	0.2	0.0	0.1	0.0	0.1	0.08
	Common Carp					0.0	0.0	0.0	0.0	0.0	0.0	0.00
	Emerald Shiner					0.0	0.0	0.0	0.0	0.0	0.1	0.02
	Freshwater Drum					0.1	0.7	0.4	1.1	0.7	1.4	0.73
	Gizzard Shad					0.1	2.8	0.6	0.0	0.0	1.0	0.75
	Sauger					0.1	0.2	0.0	0.5	0.1	1.4	0.38
	Shorthead Redhorse					0.0	0.0	0.0	0.0	0.0	0.0	0.00
	Smallmouth Buffalo					0.0	0.0	0.0	0.0	0.1	0.0	0.02
	Walleye					0.0	0.2	0.2	0.0	0.1	0.7	0.20
	White Bass					0.0	0.0	0.0	0.0	0.0	0.0	0.00
Yellow Perch					0.0	0.0	0.0	0.0	0.2	0.0	0.03	
AFS std gill net	Bluegill					0.0	0.0	0.0	0.0	0.0	0.0	0.00
	Channel Catfish					4.2	2.5	1.1	3.9	4.1	5.9	3.62
	Common Carp					0.1	0.1	0.1	0.1	0.1	0.1	0.10
	Flathead Catfish					0.1	0.1	0.1	0.1	0.1	0.1	0.10
	Freshwater Drum					1.9	3.2	2.9	1.6	2.4	2.8	2.47
	Gizzard Shad					0.3	1.0	0.0	0.0	0.8	0.2	0.38
	Goldeye					0.0	0.0	0.0	0.0	0.0	0.0	0.00
	Largemouth Bass					0.0	0.0	0.0	0.0	0.0	0.0	0.00
	Northern Pike					0.0	0.0	0.0	0.0	0.1	0.0	0.02
	Paddlefish					0.0	0.1	0.0	0.0	0.0	0.0	0.02
	River Carpsucker					0.6	0.1	0.1	0.4	0.5	0.2	0.32
	Rock Bass					0.0	0.0	0.0	0.1	0.0	0.0	0.02
	Sauger					0.2	0.6	0.4	0.4	0.5	0.6	0.45
	Shorthead Redhorse					0.1	0.2	0.1	0.1	0.3	0.2	0.17
	Shortnose Gar					0.0	0.0	0.0	0.0	0.0	0.0	0.00
	Smallmouth Bass					0.0	0.0	0.0	0.0	0.0	0.0	0.00
	Smallmouth Buffalo					0.3	0.0	0.0	0.2	0.2	0.3	0.17
	Walleye					0.6	0.9	0.4	0.6	0.3	1.0	0.63
	White Bass					0.1	0.0	0.0	0.1	0.1	0.1	0.07
	White Crappie					0.0	0.0	0.0	0.0	0.1	0.0	0.02
Yellow Perch					0.1	0.0	0.0	0.1	0.0	0.3	0.08	
boat shocker (night)	Largemouth Bass	0.0	0.0	0.0	0.0	4.0	0.0	0.0	0.0	0.0	0.0	0.40
	Sauger*	0.0	0.0	0.0	8.3	0.0	0.0	0.0	0.0	0.0	0.0	0.83

		CPUE										
Gear	Species	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	Avg
boat shocker (night)	Smallmouth Bass	94.0	53.0	30.0	7.1	25.0	26.0	11.0	43.0	19.0	42.0	35.01
	Walleye*	0.0	0.0	0.0	15.0	0.0	0.0	0.0	0.0	0.0	0.0	1.50
electrofishing (flathead)	Flathead Catfish	11.7										11.70
fall night EF- WAE*	Sauger	8.3	5.0	0.5	0.0	1.7	20.0	0.0	17.0	4.5	11.0	6.80
	Walleye	48.0	30.0	12.0	56.0	18.0	34.0	38.5	51.5	79.0	20.0	38.70
large seine*	Bigmouth Buffalo	0.0	0.8	0.1	0.1	0.0	0.0		0.0	0.0		0.13
	Black Crappie	0.0	0.8	1.5	0.4	0.1	0.0		0.0	0.0		0.35
	Bluegill	0.3	0.1	0.3	1.6	3.3	0.0		0.0	0.0		0.70
	Bluntnose Minnow	0.0	0.0	0.0	0.0	0.0	0.0		0.0	0.0		0.00
	Channel Catfish	0.1	0.0	0.7	0.5	0.2	0.0		0.0	0.0		0.19
	Common Carp	0.1	0.0	0.0	0.1	0.0	0.0		0.0	0.0		0.03
	Emerald Shiner	355.1	0.3	5.8	0.0	0.2	0.0		0.0	0.0		45.18
	Fathead Minnow	0.1	0.0	0.0	0.0	0.0	0.0		0.0	0.0		0.01
	Flathead Catfish	0.0	0.0	0.0	0.0	0.0	0.0		0.0	0.0		0.00
	Freshwater Drum	3.1	0.6	2.0	5.0	2.6	0.0		0.0	0.0		1.66
	Gizzard Shad	346.8	16.8	5.3	2.5	169.1	0.0		0.0	0.0		67.56
	Golden Shiner	0.0	0.1	0.0	0.0	0.0	0.0		0.0	0.0		0.01
	Goldeye	0.0	0.0	0.0	0.0	0.0	0.0		0.0	0.0		0.00
	Green Sunfish	0.0	0.0	0.0	0.1	0.0	0.0		0.0	0.0		0.01
	Johnny Darter	0.7	6.2	2.3	3.4	0.3	0.0		0.0	0.0		1.61
	Largemouth Bass	0.6	3.8	2.9	1.5	0.9	0.0		0.0	0.0		1.21
	Northern Pike	0.0	0.0	0.0	0.0	0.0	0.0		0.0	0.0		0.00
	Red Shiner	0.0	0.0	0.0	0.0	0.0	0.0		0.0	0.0		0.00
	River Carpsucker	0.4	0.3	0.2	1.4	3.8	0.0		0.0	0.0		0.76
	Rock Bass	0.0	0.0	0.0	0.0	0.1	0.0		0.0	0.0		0.01
	Sand Shiner	0.0	0.1	0.0	0.0	0.0	0.0		0.0	0.0		0.01
	Sauger	0.0	0.3	0.0	0.0	0.0	0.2		0.0	0.0		0.06
	Shorthead Redhorse	0.0	0.0	0.0	0.0	0.0	0.0		0.0	0.0		0.00
	Silver Chub	0.0	0.0	0.0	0.0	0.0	0.0		0.0	0.0		0.00
	Smallmouth Bass	0.0	0.1	0.0	0.0	0.1	0.0		0.0	0.0		0.03
	Smallmouth Buffalo	0.3	0.8	0.0	0.3	0.1	0.0		0.0	0.0		0.19
Spotfin Shiner	0.3	0.0	0.2	0.8	0.0	0.0		0.0	0.0		0.16	
Spottail Shiner	0.1	0.0	0.0	0.0	0.0	0.0		0.0	0.0		0.01	
Walleye	0.2	0.3	0.0	0.1	0.0	0.0		0.1	0.1		0.10	
White Bass	5.4	46.8	30.8	3.1	0.5	0.0		0.0	0.0		10.83	
White Crappie	0.0	0.7	0.1	0.0	0.3	0.0		0.0	0.0		0.14	
Yellow Perch	14.5	0.3	0.0	7.0	0.4	0.0		0.0	0.0		2.78	

## CPUE

Gear	Species	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	Avg
std exp gill net	Black Crappie	0.0	0.0	0.0	0.0							0.00
	Channel Catfish	6.8	3.2	6.3	4.0							5.08
	Common Carp	0.6	0.2	0.3	0.2							0.33
	Flathead Catfish	0.0	0.1	0.0	0.1							0.05
	Freshwater Drum	1.1	0.8	0.3	1.3							0.88
	Gizzard Shad	0.1	0.3	1.0	8.0							2.35
	Goldeye	0.0	0.0	0.0	0.0							0.00
	Northern Pike	0.0	0.0	0.0	0.0							0.00
	River Carpsucker	1.1	0.6	2.9	0.3							1.23
	Rock Bass	0.0	0.0	0.0	0.0							0.00
	Sauger	2.7	2.1	1.9	2.5							2.30
	Shorthead Redhorse	2.9	2.5	1.3	0.8							1.88
	Shortnose Gar	0.0	0.0	0.0	0.0							0.00
	Shovelnose Sturgeon	0.0	0.0	0.0	0.0							0.00
	Smallmouth Bass	0.0	0.0	0.1	0.0							0.03
	Smallmouth Buffalo	0.3	0.0	0.3	0.0							0.15
	Walleye	3.1	2.1	2.1	3.3							2.65
	White Bass	0.0	0.4	0.3	0.8							0.38
	White Crappie	0.2	0.0	0.0	0.0							0.05
Yellow Perch	1.3	1.2	0.4	0.3							0.80	



## 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									
			2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
AFS std gill net	Channel Catfish	PSD					84	65	60	40	41	43
		PSD-P					29	35	33	11	12	9
		Wr					92	91	96	93	91	85
	Gizzard Shad	PSD					27	6	0		4	29
		Wr					98	103			112	94
	River Carpsucker	PSD					100	100	100	100	83	67
		PSD-P					95	100	75	100	61	33
		Wr					92	92	90	92	104	93
	Sauger	PSD					100	96	85	93	72	73
		PSD-P					100	70	77	93	44	41
		Wr					80	77	77	83	77	80
	Shorthead Redhorse	PSD					75	100	100	75	100	100
		PSD-P					50	100	100	75	67	75
		Wr					98	99	93	106	94	101
	Smallmouth Bass	PSD					0					
		PSD-P					0					
		Wr					99					
	Smallmouth Buffalo	PSD					100	100	100	83	88	45
		PSD-P					89	100	100	67	88	36
		Wr					79	87	88	85	94	87
	Walleye	PSD					57	71	73	90	17	64
PSD-P						30	23	20	35	0	17	
Wr						84	85	87	92	83	87	
Yellow Perch	PSD					100	100		100	100	83	
	PSD-P					33	100		67	0	0	
	Wr					88	96		95	81	89	
boat shocker (night)	Sauger	PSD				76						
		PSD-P				24						
	Smallmouth Bass	PSD	30	45	17	26	20	31	36	40	68	52
		PSD-P	3	11	0	8	0	12	9	14	32	21
		Wr	93	93	97	96	102	94	92	96	98	95
	Walleye	PSD				74						

Gear	Species	Index	Year									
			2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
boat shocker (night)	Walleye	PSD-P				21						
std exp gill net	Channel Catfish	PSD	43	61	78	77						
		PSD-P	4	13	7	8						
		Wr	87	86	88	92						
	Gizzard Shad	PSD	100	0	0	15						
		Wr	34	123	112	100						
	River Carpsucker	PSD	100	86	100	100						
		PSD-P	92	86	100	100						
		Wr	94	93	87	94						
	Sauger	PSD	69	80	70	77						
		PSD-P	50	56	39	57						
		Wr	76	82	78	86						
	Shorthead Redhorse	PSD	74	100	93	100						
		PSD-P	66	83	93	90						
		Wr	98	99	103	101						
	Smallmouth Bass	PSD			0							
		PSD-P			0							
		Wr			88							
	Smallmouth Buffalo	PSD	67		100	0						
		PSD-P	67		100	0						
		Wr	88		85							
	Walleye	PSD	59	48	44	68						
		PSD-P	16	0	0	15						
		Wr	85	90	85	96						
	Yellow Perch	PSD	6	50	100	100						
		PSD-P	0	14	100	67						
		Wr	90	91	94	93						

## **Back-Calculated Lengths**

Mean species back-calculated total length (mm) at age, standard error (SE), and sample size (N).

Species: Smallmouth Bass

Year Class	Age	N	Mean back-calculated length (SE) at age											
			1	2	3	4	5	6	7	8	9	10		
2021	1	4	124 (11.3)											
2020	2	14	110 (4.5)	181 (10)										
2019	3	13	104 (3.9)	184 (8.8)	253 (7.9)									
2018	4	11	94 (6.2)	182 (7.2)	283 (6.1)	329 (7.2)								
2017	5	1	87	162	281	338	371							
Weighted Mean		43	105	182	267	330	371							
Year Class	Age	N	11	12	13	14	15	16	17	18	19	20		
2021	1	4												
2020	2	14												
2019	3	13												
2018	4	11												
2017	5	1												
Weighted Mean		43												

## Length at Capture

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

Species: Channel Catfish

Mean Length (expanded sample number) at capture by age											
Year	N	1	2	3	4	5	6	7	8	9	10+
2017	164	216 (8)	299 (22)	398 (13)	455 (12)	493 (8)	563 (21)	582 (33)	609 (21)	655 (13)	719 (15)

Species: Sauger

Mean Length (expanded sample number) at capture by age											
Year	N	1	2	3	4	5	6	7	8	9	10+
2022	20	290 (4)	378 (13)		498 (3)						
2021	18	286 (7)	358 (1)	415 (5)		501 (1)		546 (1)	497 (2)	546 (1)	
2020	13		394 (3)		441 (7)	449 (2)		455 (1)			
2019	13	283 (2)		405 (7)	414 (2)	497 (2)					
2018	23	272 (1)	371 (9)	435 (3)	487 (5)	513 (1)	472 (3)				448 (1)
2017	6			477 (4)	530 (1)					462 (1)	
2016	24	347 (7)	408 (11)	415 (1)	493 (4)			478 (1)			
2015	23	293 (10)	363 (4)	406 (7)			447 (1)				447 (1)
2014	24	302 (5)	380 (15)			408 (2)		516 (1)	495 (1)		
2013	32	289 (11)	324 (4)	398 (3)	411 (3)	440 (6)	456 (4)	404 (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+
2022	48	150 (4)	205 (16)	280 (14)	354 (13)	405 (1)					
2021	20	116 (1)	236 (7)	276 (2)	290 (3)	357 (5)	392 (2)				
2020	48	221 (4)	206 (14)	234 (12)	281 (8)	339 (6)	348 (2)	417 (2)			
2019	18	115 (5)	164 (4)	237 (5)	313 (3)	401 (1)					
2018	27		200 (16)	282 (8)	362 (2)			460 (1)			
2017	28	127 (3)	225 (20)	293 (3)	317 (2)						
2016	40	119 (2)	208 (17)	272 (15)	314 (3)	357 (2)	417 (1)				
2015	30		205 (8)	260 (19)	309 (3)						

Mean Length (expanded sample number) at capture by age

Year	N	1	2	3	4	5	6	7	8	9	10+
2014	56	91 (1)	205 (18)	279 (21)	323 (12)	350 (3)	368 (1)				
2013	108	131 (13)	205 (42)	270 (35)	290 (15)	360 (2)		465 (1)	500 (1)		

Species: Walleye

Mean Length (expanded sample number) at capture by age

Year	N	1	2	3	4	5	6	7	8	9	10+
2022	36	301 (10)	388 (10)	446 (5)	452 (1)	446 (1)	501 (2)	477 (1)		562 (2)	567 (4)
2021	13	279 (10)	365 (1)		454 (1)		486 (1)				
2020	20	282 (1)	379 (1)	434 (1)	469 (8)	434 (1)	464 (1)	576 (2)	612 (1)		515 (4)
2019	15	269 (1)	354 (1)	398 (8)	437 (2)			592 (2)	672 (1)		
2018	31	270 (1)	377 (12)	438 (7)	501 (2)	541 (2)		657 (1)	465 (1)	518 (4)	499 (1)
2017	26	284 (12)	401 (3)	475 (1)	493 (1)	530 (5)		603 (1)	531 (2)		524 (1)
2016	40	350 (12)	415 (10)	495 (4)	445 (7)	537 (1)		584 (2)	471 (3)	523 (1)	
2015	27	287 (12)	369 (5)	418 (4)	467 (2)	434 (1)	460 (1)	470 (2)			
2014	25	301 (6)	377 (12)	417 (3)		422 (1)	495 (1)	443 (1)	433 (1)		
2013	37	293 (9)	381 (9)	466 (1)	439 (3)	461 (8)	523 (5)	475 (1)			530 (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).

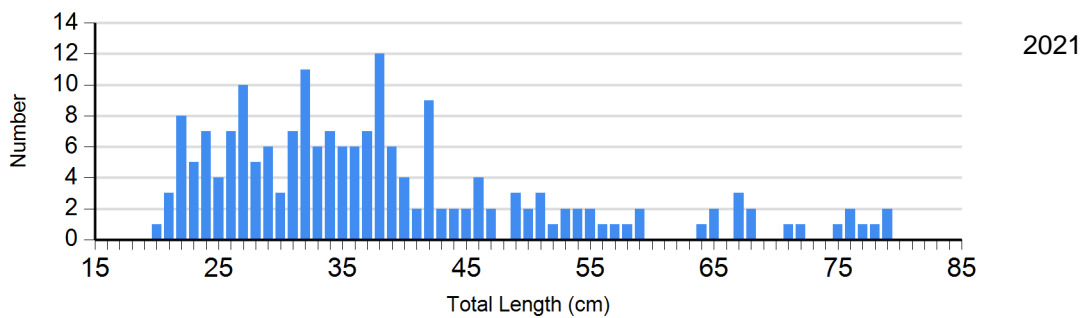
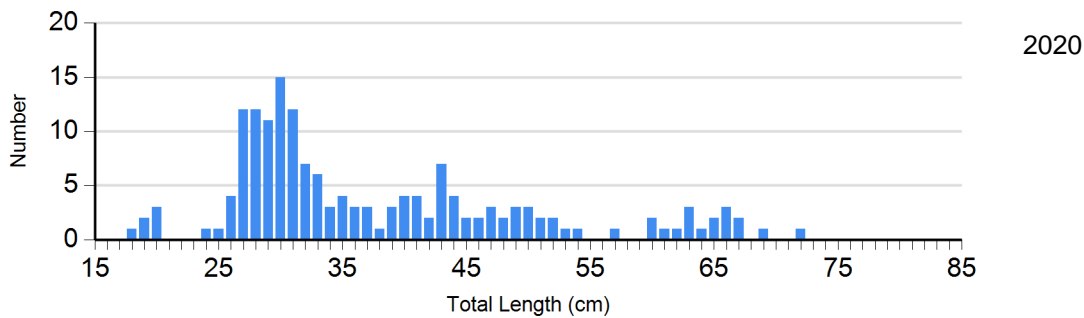
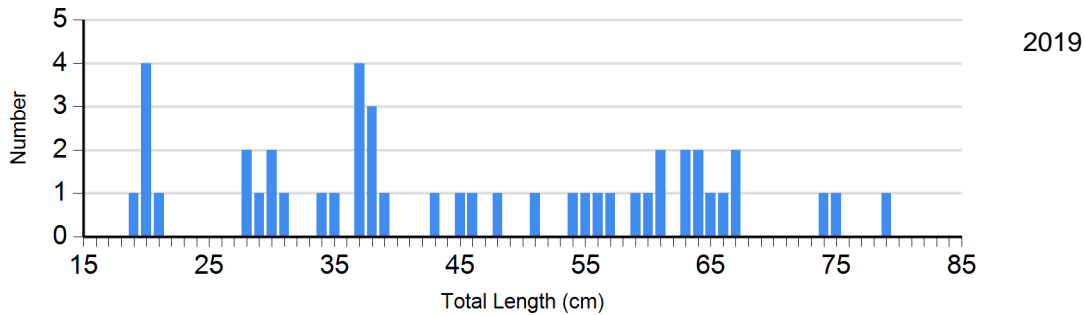
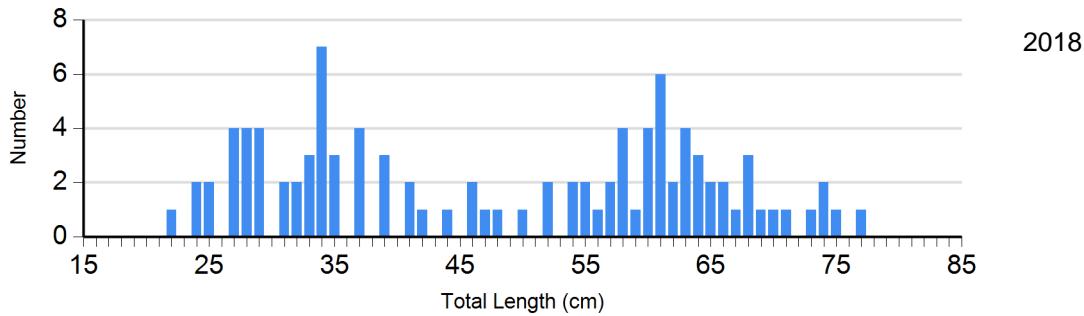
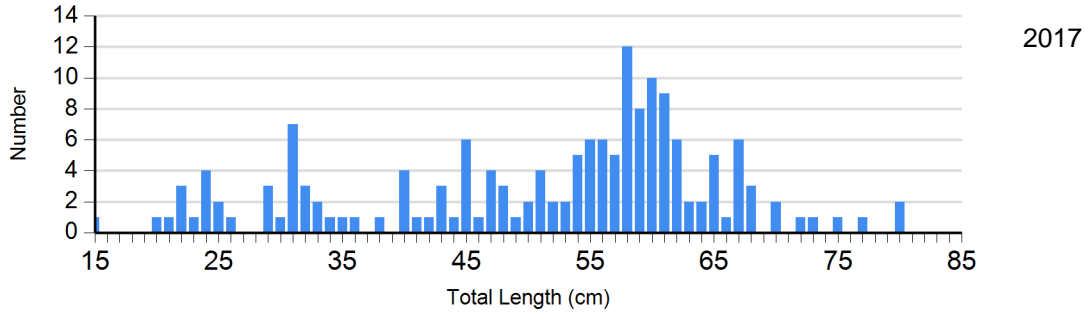
Species	Year	Length Groups							
		S-Q		Q-P		P-M		M	
		N	Wr (SE)	N	Wr (SE)	N	Wr (SE)	N	Wr (SE)
Channel Catfish Gill Net	2018	32	90 (1.4)	27	93 (2.5)	25	91 (1.7)	7	91 (2.9)
	2019	16	94 (1.5)	11	95 (2.0)	10	96 (3.4)	3	109 (2.2)
	2020	84	92 (0.9)	41	92 (1.4)	14	96 (2.4)	1	86
	2021	86	91 (0.8)	43	91 (1.3)	8	94 (4.2)	9	92 (4.4)
	2022	121	84 (0.6)	71	86 (1.3)	7	84 (8.0)	13	86 (2.3)
Sauger Gill Net	2018	1	79	6	79 (2.0)	13	76 (1.0)	3	76 (2.3)
	2019	2	81 (9.3)	1	81	10	76 (1.6)	0	
	2020	1	83	0		13	83 (1.4)	0	
	2021	5	81 (2.1)	5	77 (1.6)	5	75 (5.0)	3	73 (2.9)
	2022	6	81 (2.3)	7	80 (1.2)	8	79 (2.3)	1	78
Smallmouth Bass Electro Fishing	2018	18	95 (1.5)	5	94 (2.8)	2	88 (2.1)	1	101
	2019	7	87 (2.7)	3	99 (4.0)	1	101	0	
	2020	26	97 (1.3)	11	96 (1.2)	5	92 (2.1)	1	76
	2021	6	102 (1.9)	7	98 (2.5)	6	95 (3.4)	0	
	2022	20	97 (1.2)	13	93 (1.9)	9	96 (1.9)	0	
Walleye Gill Net	2018	9	83 (1.8)	15	86 (1.4)	6	85 (2.6)	1	84
	2019	4	90 (4.9)	8	89 (2.2)	2	82 (9.3)	1	70
	2020	2	88 (4.3)	11	95 (3.0)	7	87 (2.7)	0	
	2021	10	80 (1.0)	2	98 (6.5)	0		0	
	2022	13	87 (3.5)	17	87 (1.5)	4	92 (3.5)	2	78 (0.8)
Yellow Perch Gill Net	2018	0		0		1	96	0	
	2020	0		1	94	2	95 (2.2)	0	
	2021	0		1	81	0		0	

Species	Year	Length Groups							
		S-Q		Q-P		P-M		M	
		N	Wr (SE)	N	Wr (SE)	N	Wr (SE)	N	Wr (SE)
Yellow Perch Gill Net	2022	2	94 (0.9)	10	88 (1.7)	0		0	

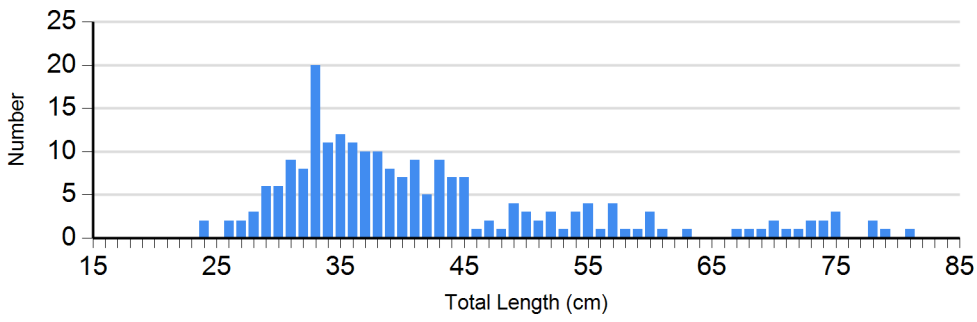
# Length Frequency Distribution

Length frequency histogram of species sampled by year.

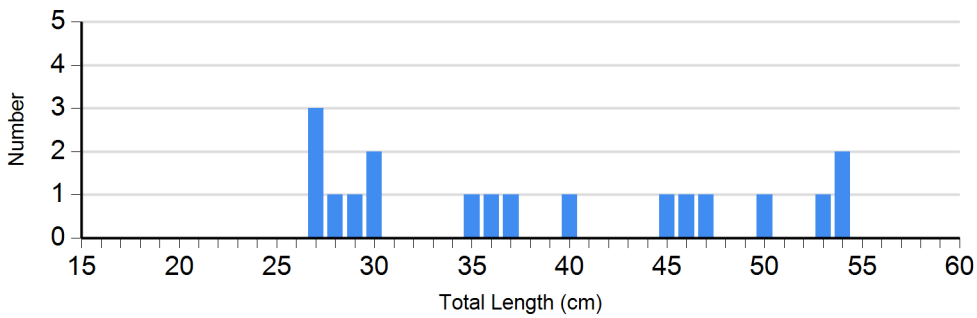
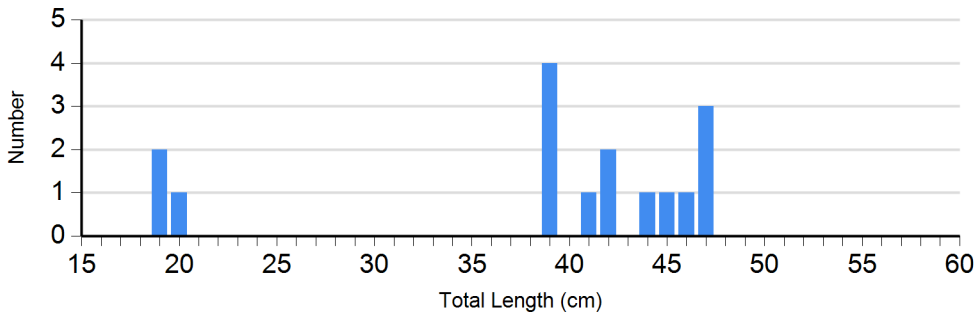
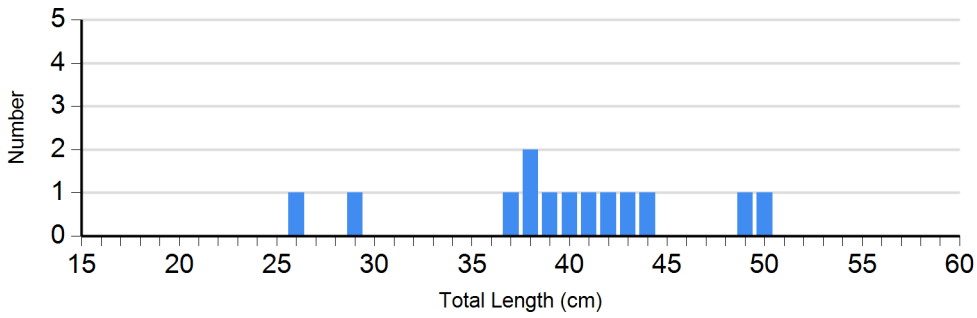
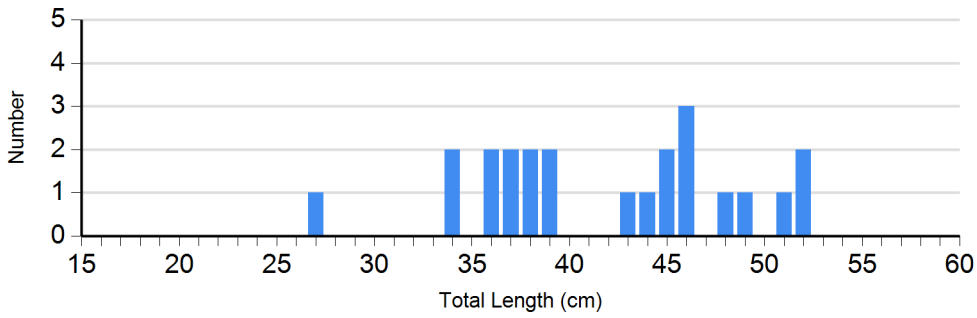
Species: Channel Catfish  
Gear: AFS std gill net

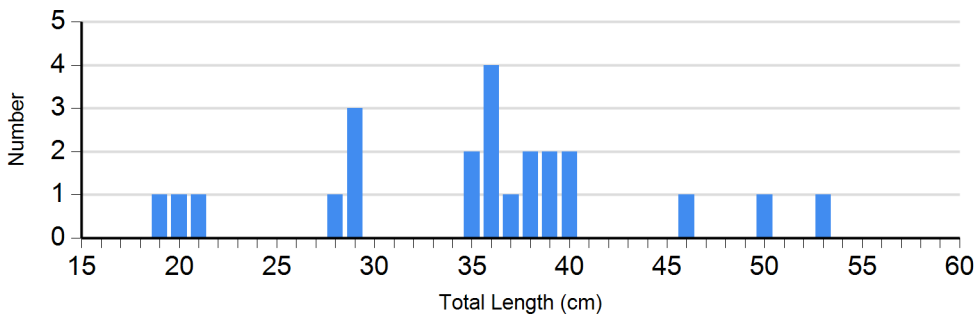




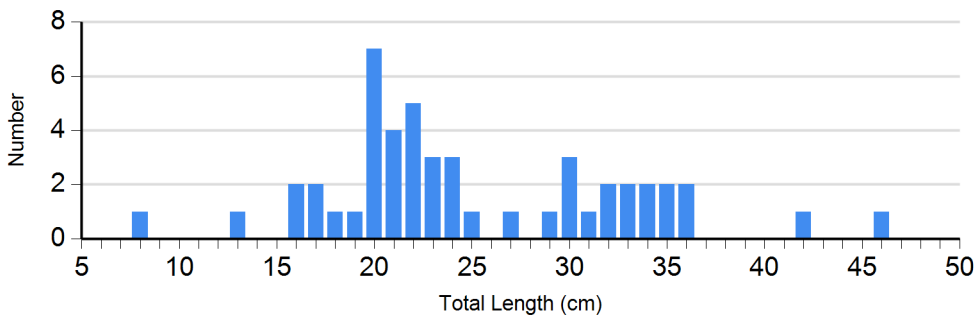
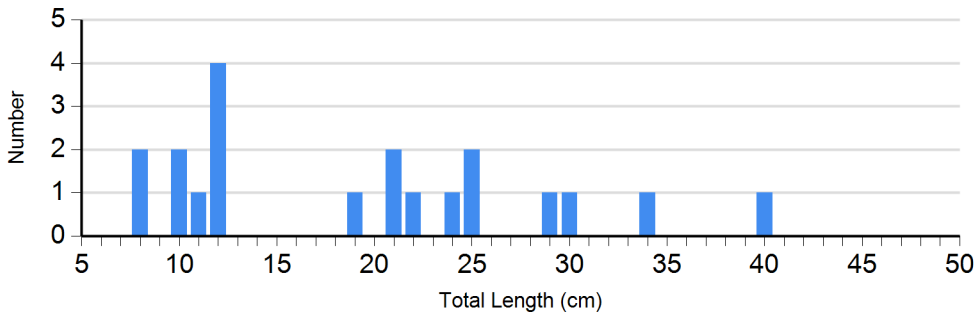
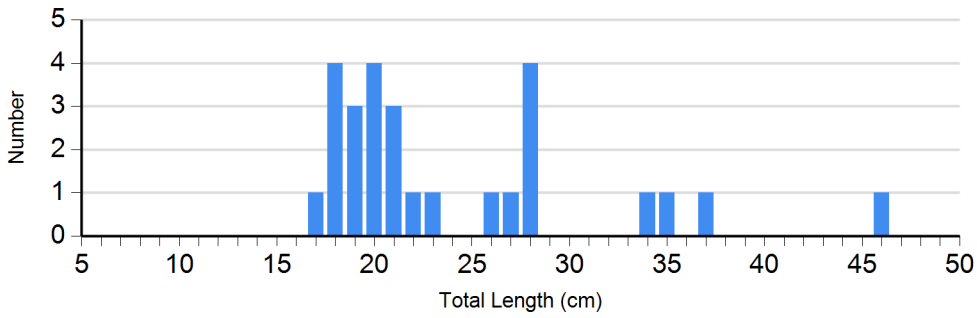
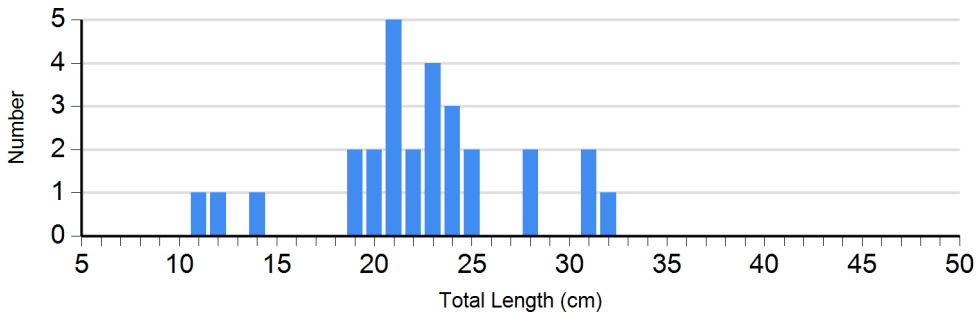


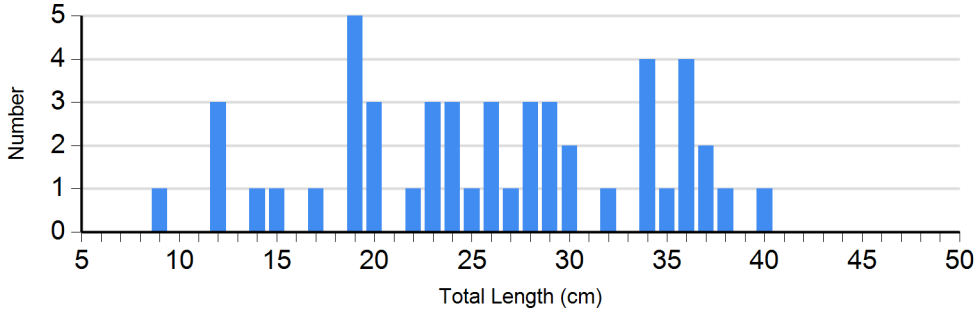
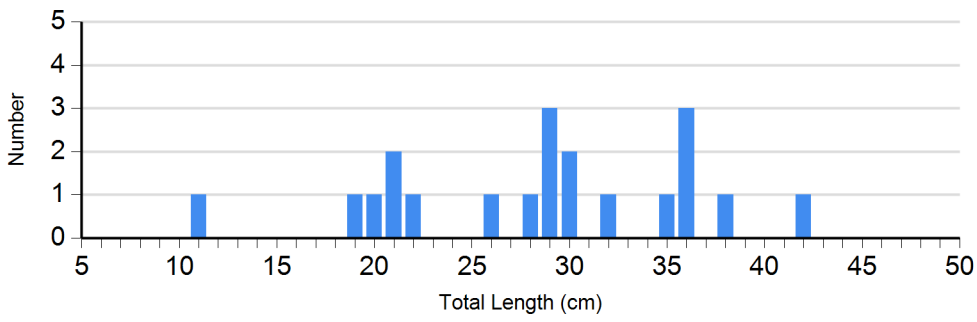
Species: Sauger  
 Gear: AFS std gill net



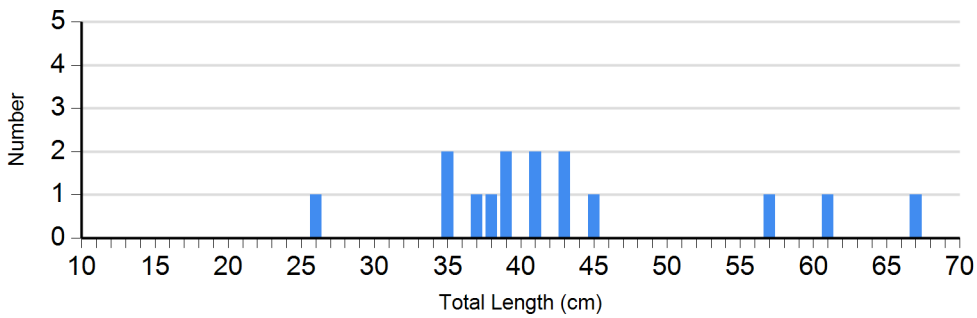
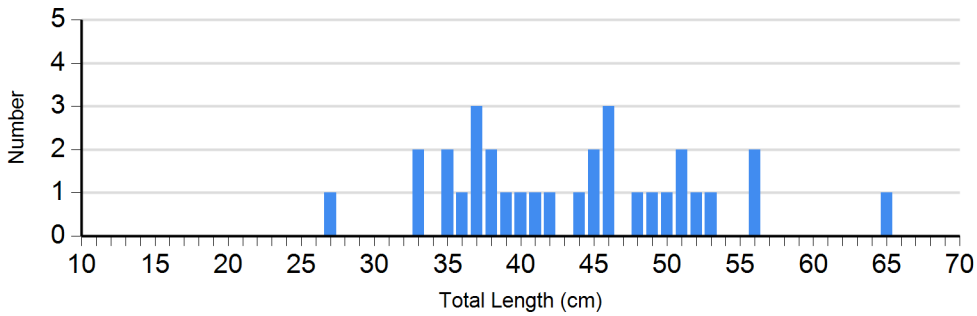
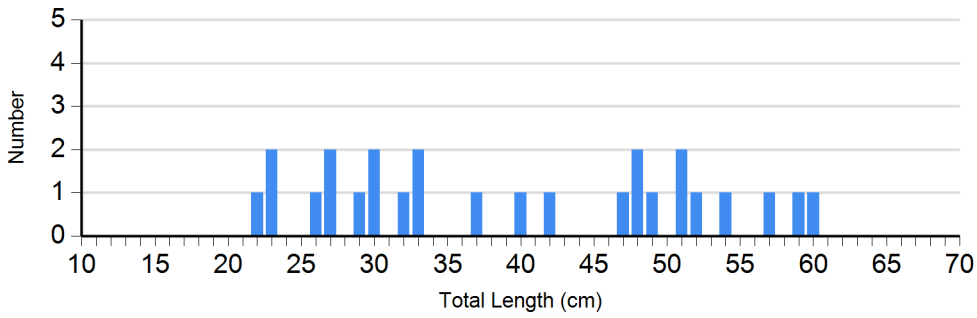


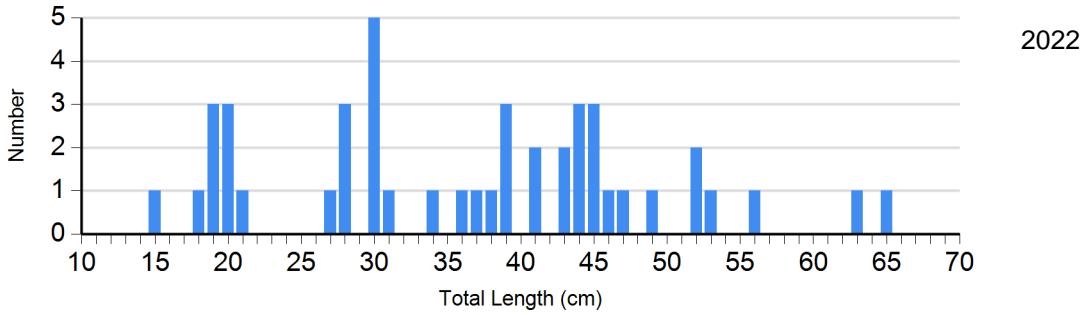
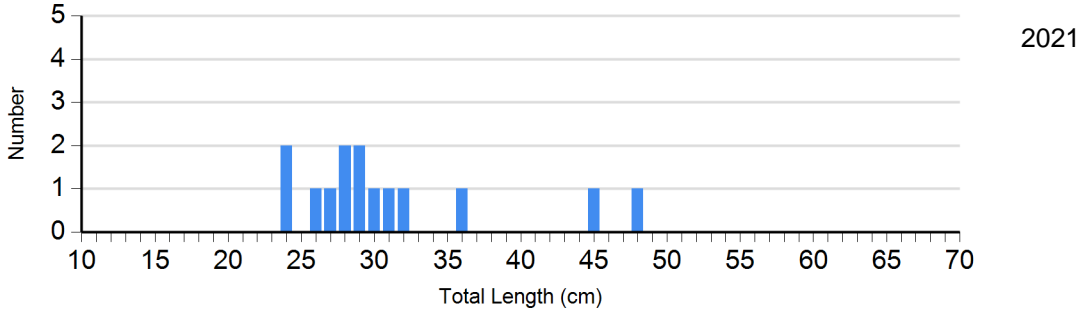
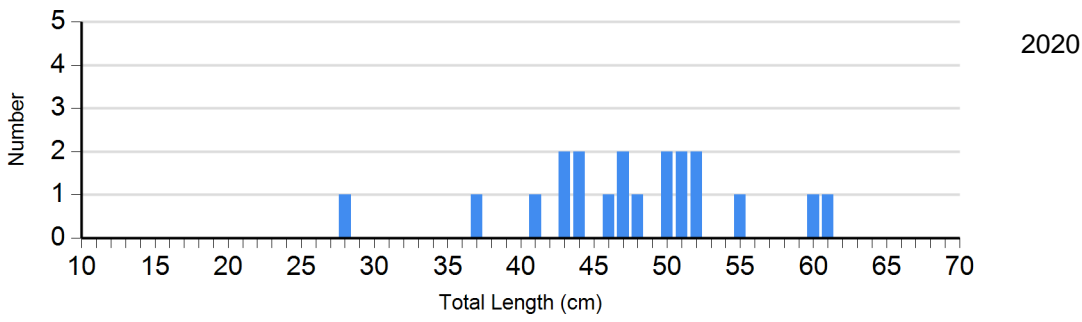
Species: Smallmouth Bass  
 Gear: boat shocker (night)



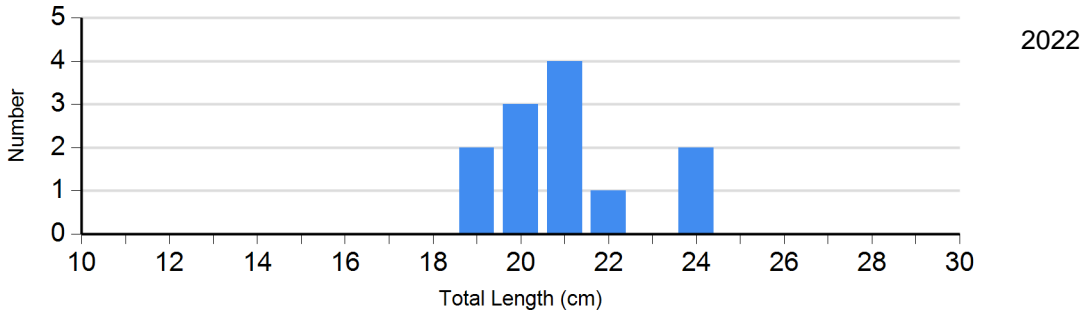


Species: Walleye  
Gear: AFS std gill net





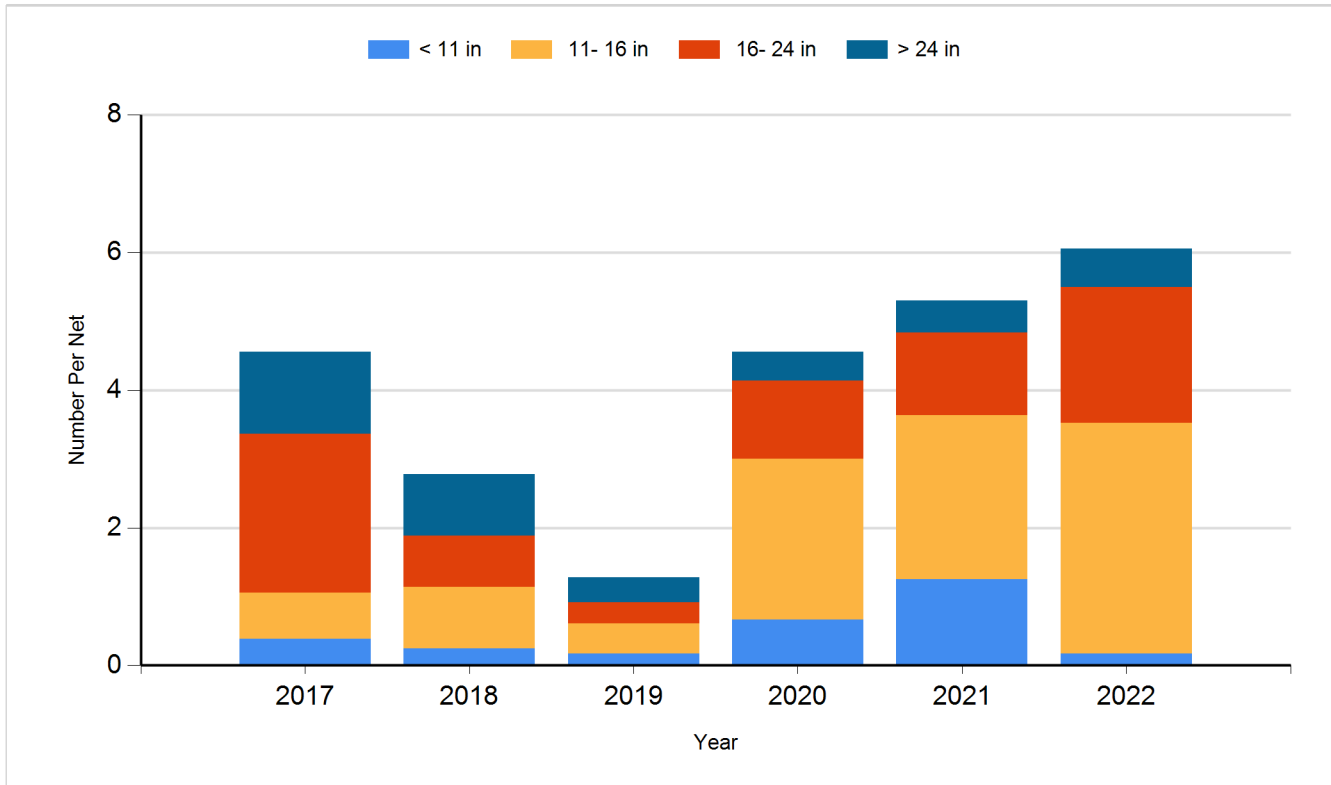
Species: Yellow Perch  
 Gear: AFS std gill net



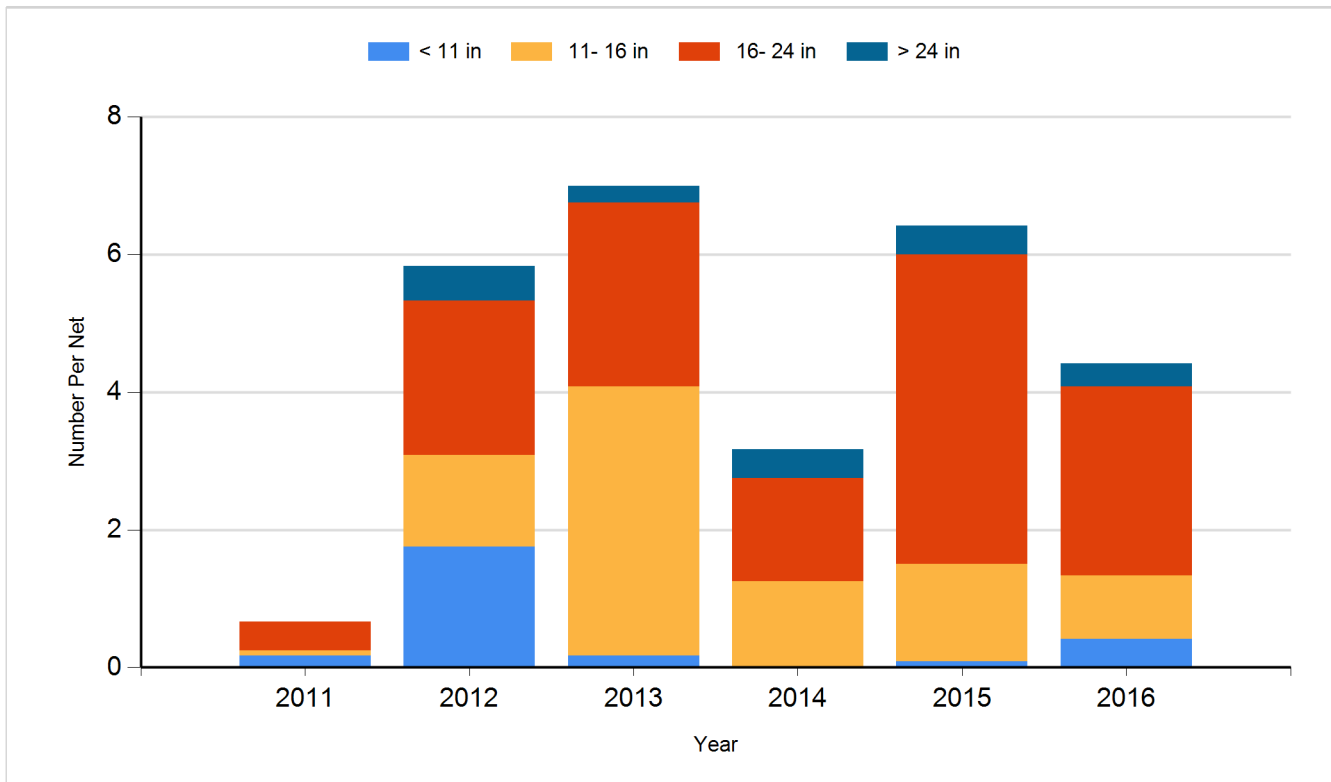
## Historic Fish Sizes and Relative Abundance

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

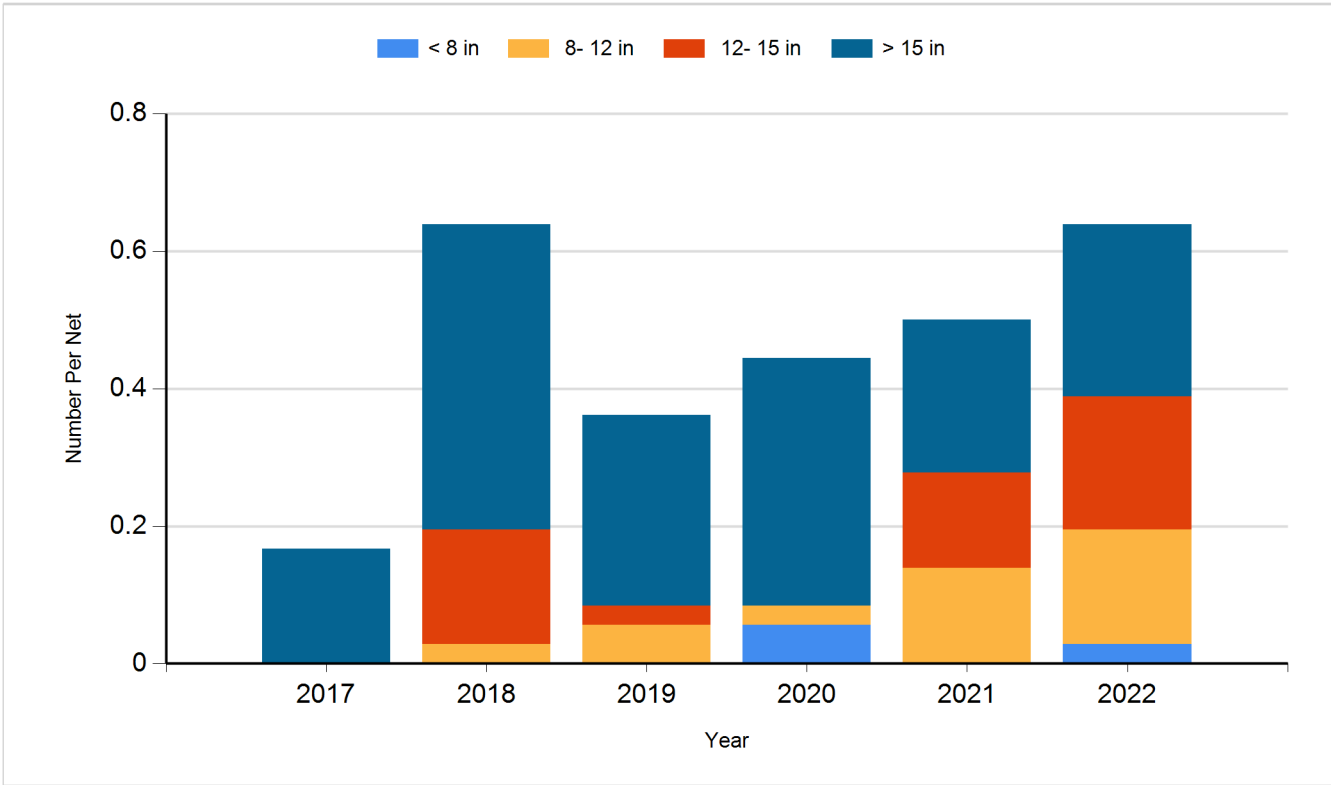
Species: Channel Catfish  
Gear: AFS std gill net



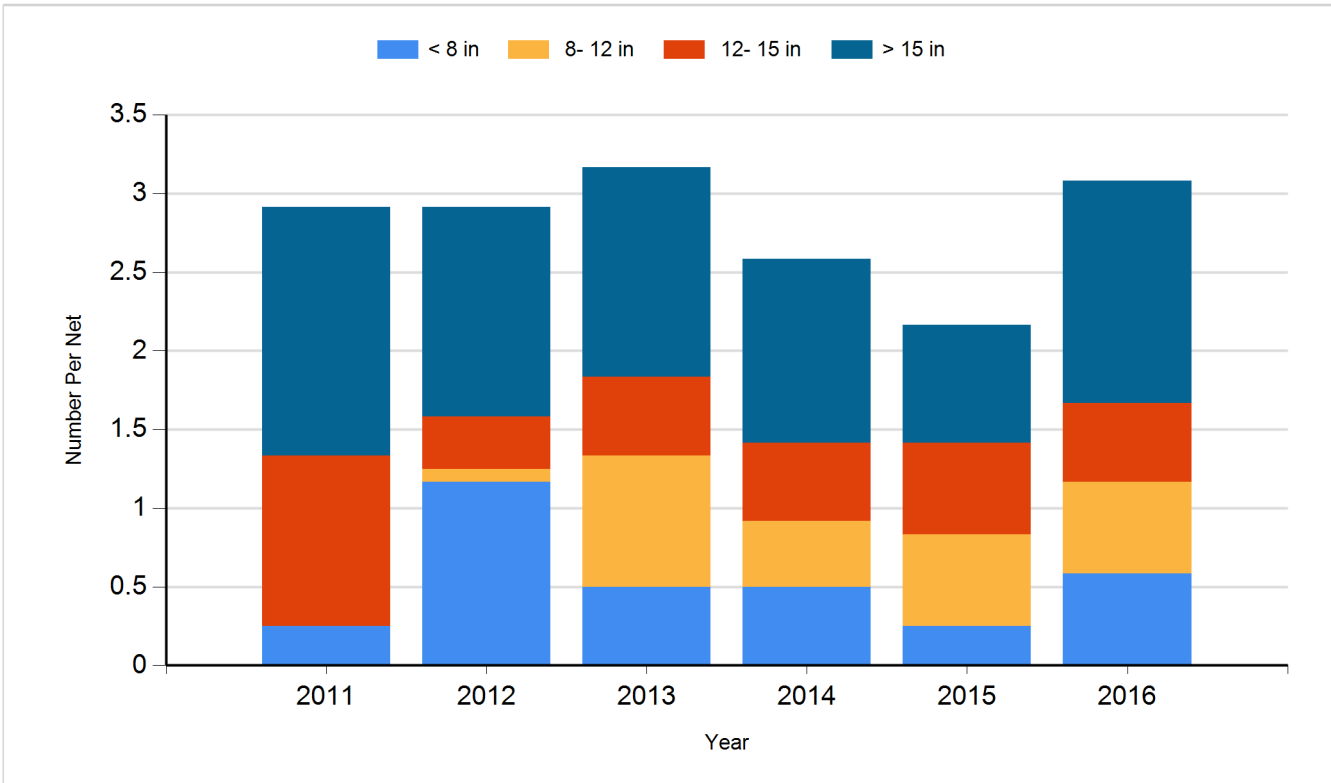
Species: Channel Catfish  
Gear: std exp gill net



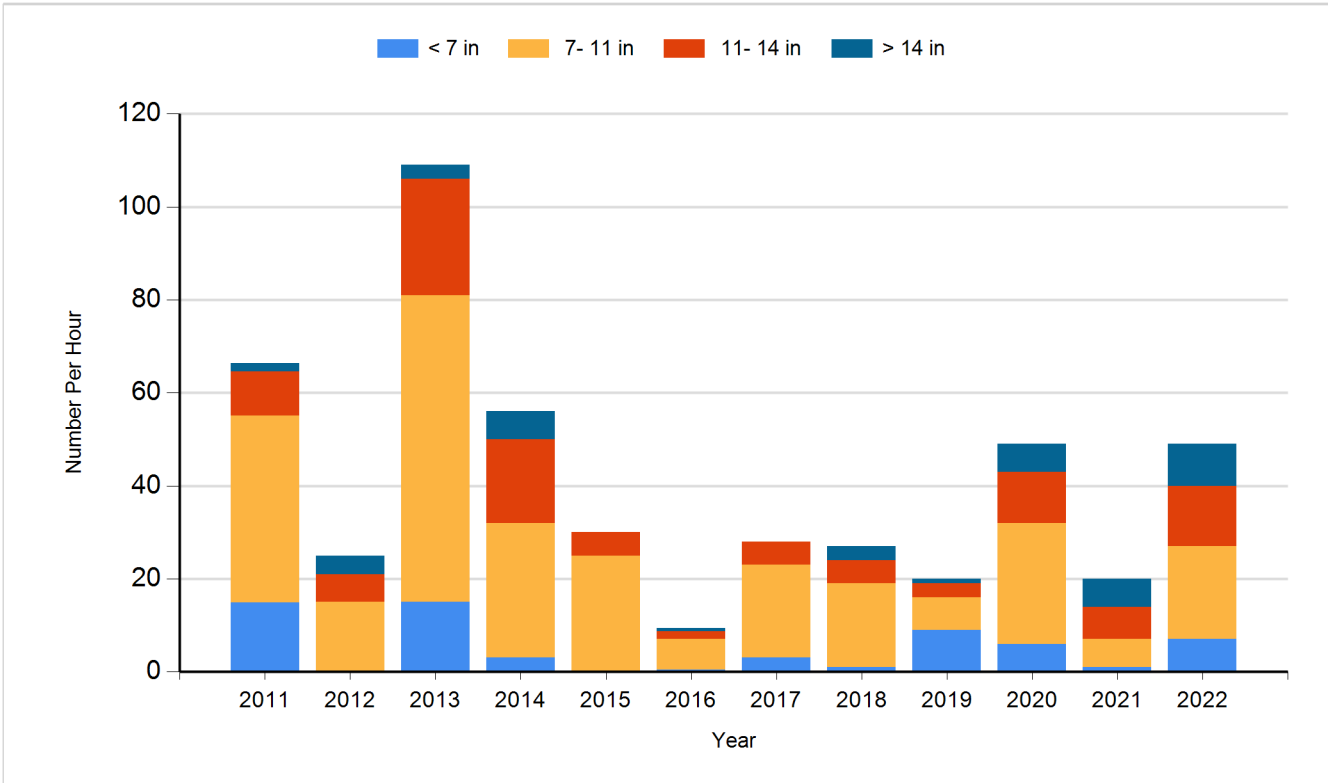
Species: Sauger  
Gear: AFS std gill net



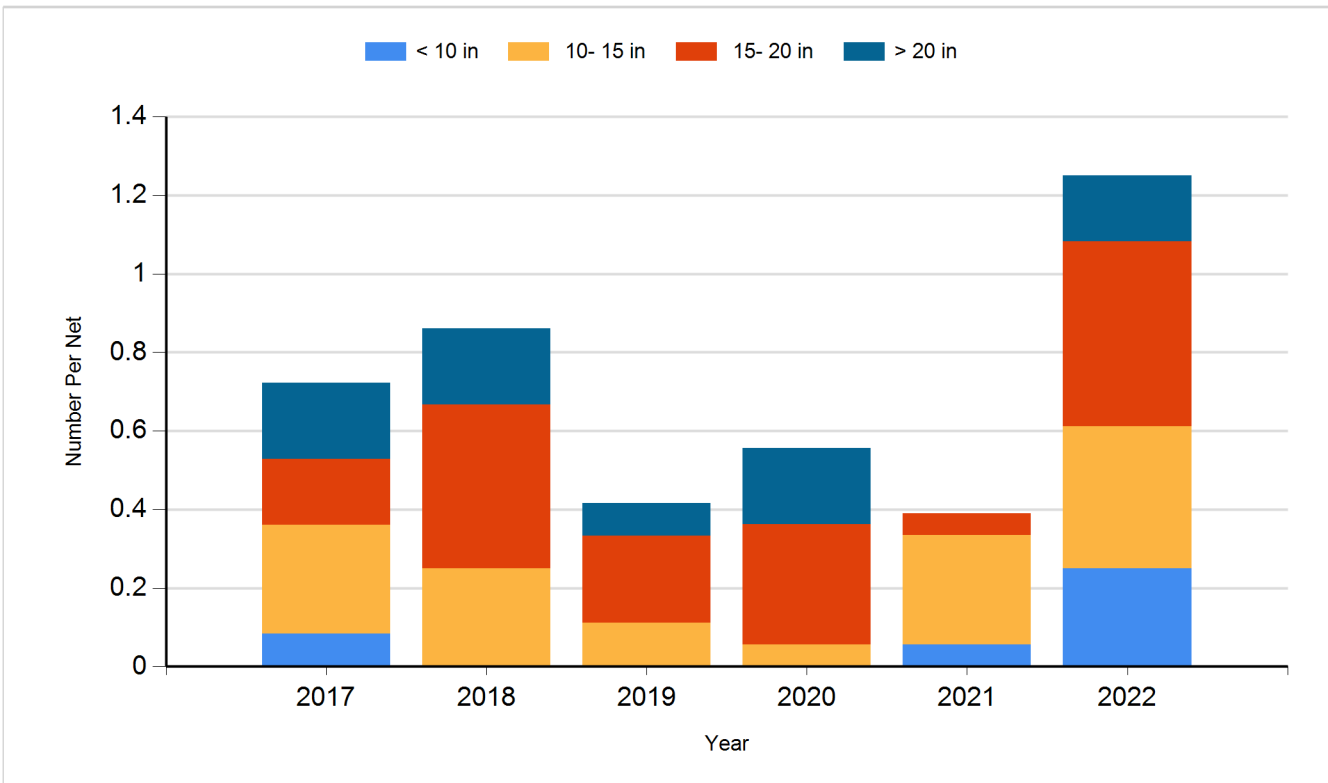
Species: Sauger  
Gear: std exp gill net



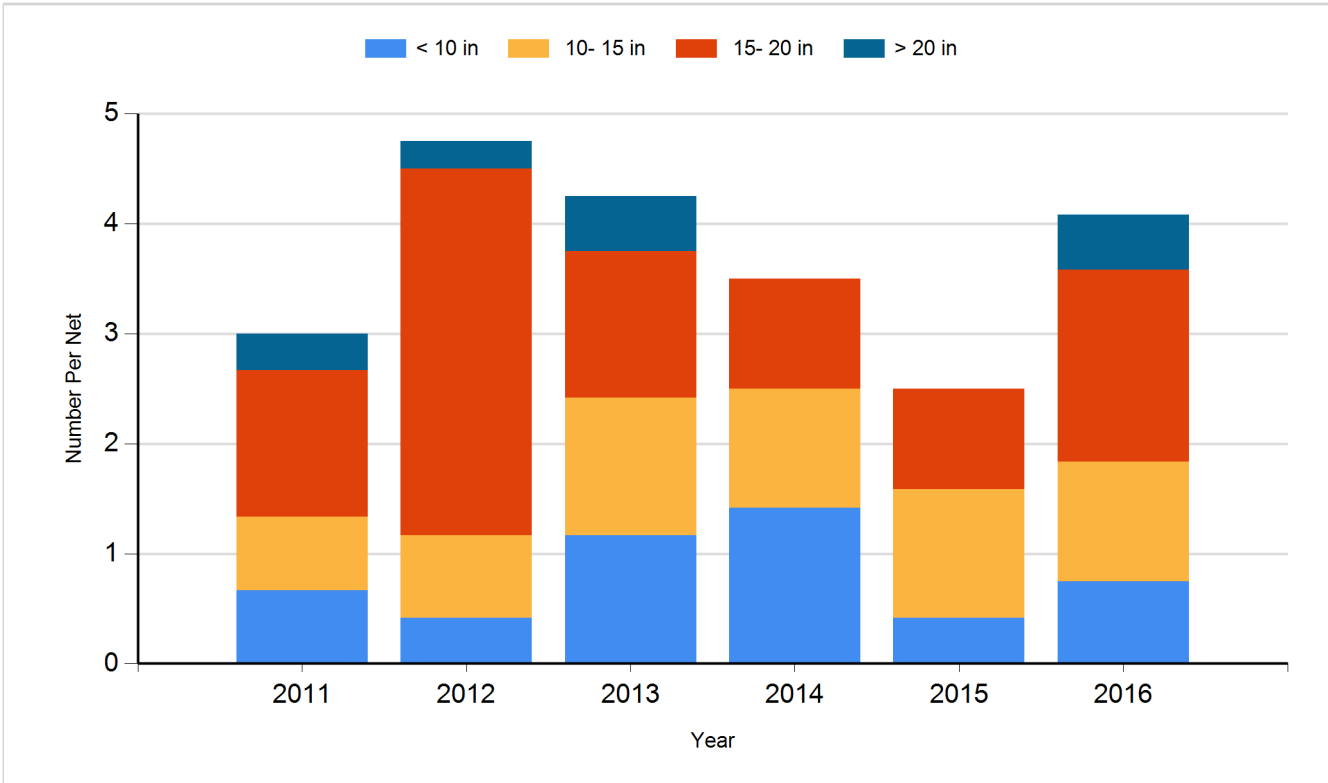
Species: Smallmouth Bass  
Gear: boat shocker (night)



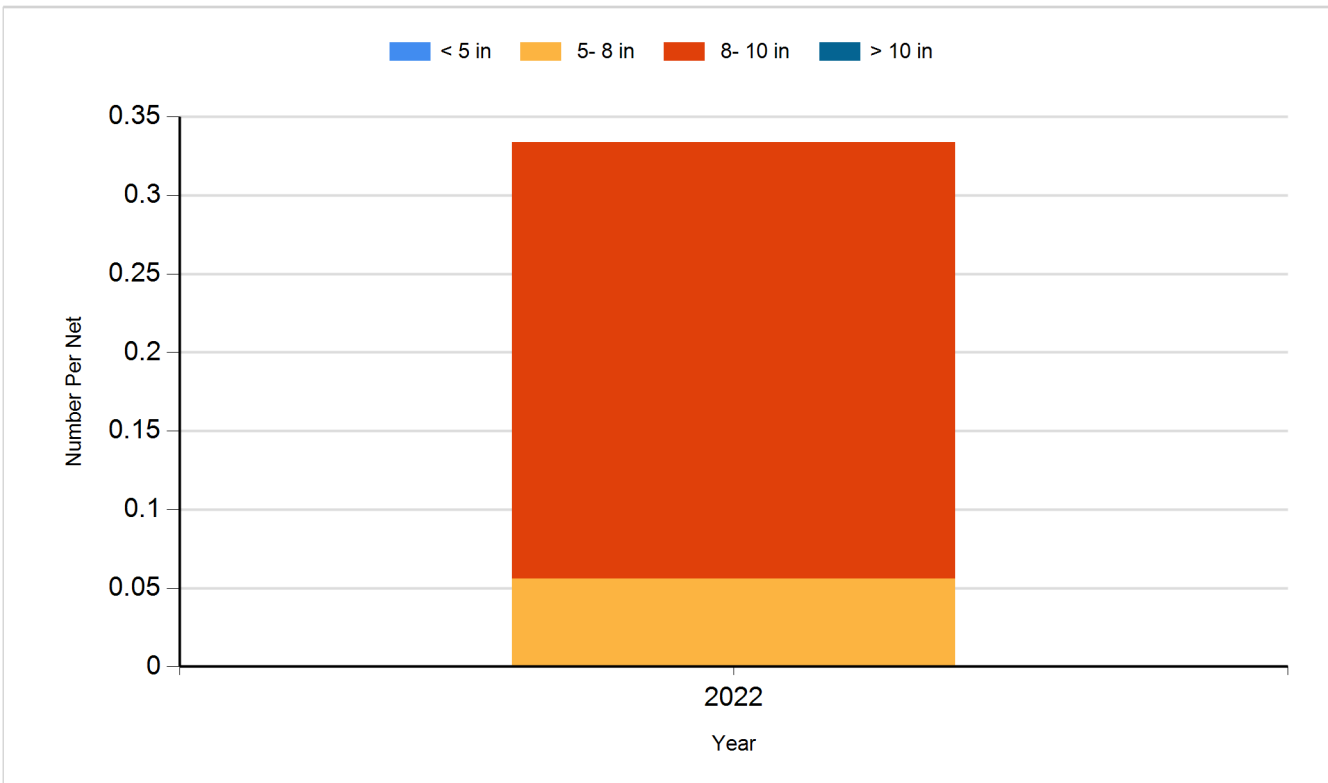
Species: Walleye  
Gear: AFS std gill net



Species: Walleye  
Gear: std exp gill net

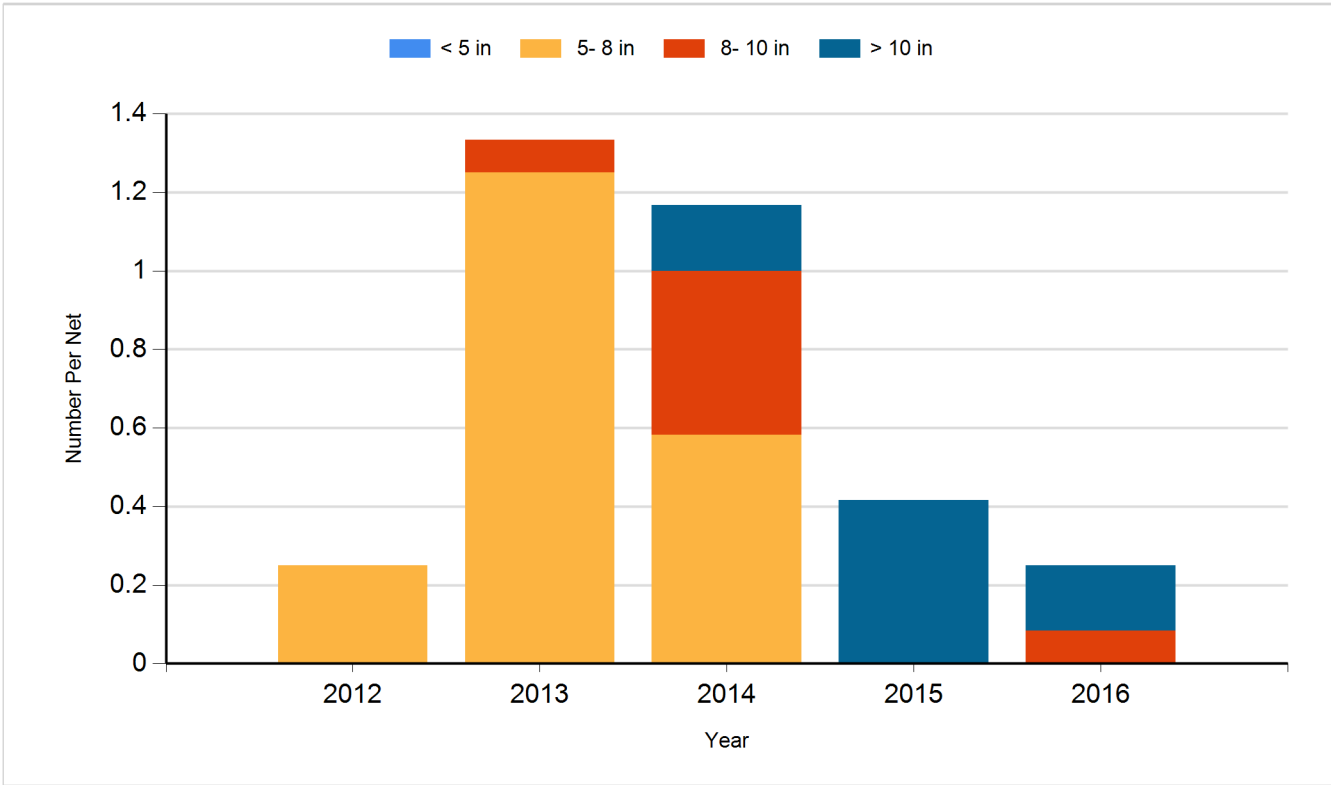


Species: Yellow Perch  
Gear: AFS std gill net





Species: Yellow Perch  
Gear: std exp gill net



## **Fish Stocking**

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

Year	Species	Size	Number
2015	Walleye	Fry	12,800,000
2019	Walleye	Fingerling	1,819,269