

# SOUTH DAKOTA STATEWIDE FISHERIES SURVEY

Madison, Lake County

LBS-Lake-135-000

2020

## Lake Information

**Name:** Madison

**County:** Lake

**Legal Description:** T106-R51,52-Sec. 21-23, 25-27, 29, 30-32      **OHWM Elevation:** 1,604

**Surface Area:** 2,703 Acres      **Outlet Elevation:** 1,603

## Surveys and Investigations

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

Gear	Date	Effort
AFS std gill net	Jul 13, 2020	10 net-nights
frame net (std 3/4 in)	Jul 13, 2020	10 net-nights

## **Common Fish Species Present**

Walleye

Black Bullhead

Yellow Perch

Common Carp

White Sucker

White Bass

Smallmouth Bass

Bluegill

Bigmouth Buffalo

Black Crappie

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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	Bigmouth Buffalo	22	1.6	0.9	19		6			
	Black Bullhead	50	5.0	2.4	86	8	18	8		
	Common Carp	9	0.9	0.6	78		56			
	Northern Pike	1	0.1	0.1	0		0		87	
	Smallmouth Bass	3	0.2	0.2	100		0		79	2
	Walleye	35	2.2	0.8	41	17	9		84	3
	White Bass	44	4.4	1.0	89		73	10	90	2
	White Sucker	42	4.2	2.0	98		79	10		
	Yellow Perch	118	11.8	3.5	78	5	25	6	111	1
frame net (std 3/4 in)	Bigmouth Buffalo	33	3.3	2.4	48	13	15			
	Black Bullhead	299	29.9	24.4	95	2	43	4		
	Black Crappie	13	1.3	0.8	92		92		100	4
	Bluegill	37	3.7	0.9	97		30	12	121	2
	Common Carp	77	7.7	5.1	92	5	26	7		
	Green Sunfish	1	0.1	0.1	100		0			
	Northern Pike	10	1.0	0.7	50	28	0		84	2
	Smallmouth Bass	48	4.2	1.5	60	11	7		89	2
	Sunfish Hybrid	1	0.0	0.0						
	Walleye	11	0.6	0.3	17		0		82	4
	White Bass	42	4.2	2.0	93		88	8	85	1
	White Sucker	66	6.6	4.0	100		92	5		
	Yellow Perch	16	1.6	1.0	94		31		96	3

## 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	
		2011	2012	2013	2014	2015	2016	2017	2018	2019	2020		
AFS std frame net	Bigmouth Buffalo							1.2					1.20
	Black Bullhead							2.9					2.90
	Black Crappie							1.4					1.40
	Bluegill							0.5					0.50
	Common Carp							3.1					3.10
	Northern Pike							0.4					0.40
	Smallmouth Bass							1.9					1.90
	Sunfish Hybrid							0.0					0.00
	Walleye							0.9					0.90
	White Bass							1.5					1.50
White Sucker							0.7					0.70	
AFS std gill net	Bigmouth Buffalo							1.1	0.7	1.1	1.6	1.13	
	Black Bullhead							4.9	3.7	1.7	5.0	3.83	
	Black Crappie							0.0	0.2	0.0	0.0	0.05	
	Bluegill							0.3	0.1	0.0	0.0	0.10	
	Common Carp							3.6	2.0	1.6	0.9	2.03	
	Northern Pike							0.0	0.1	0.0	0.1	0.05	
	Smallmouth Bass							0.3	0.5	0.0	0.2	0.25	
	Walleye							3.3	2.7	2.9	2.2	2.78	
	White Bass							6.6	9.8	9.5	4.4	7.58	
	White Sucker							8.5	3.7	2.2	4.2	4.65	
Yellow Perch							9.4	11.4	8.2	11.8	10.20		
fall night EF-WAE*	Walleye	28.0	2.5	113.5	31.0	10.0						37.00	
	Yellow Perch	0.0	0.0	0.0	0.0	0.0						0.00	
frame net (std 3/4 in)	Bigmouth Buffalo	4.3	5.7	3.6	8.0	9.3	9.1		6.2	1.8	3.3	5.70	
	Black Bullhead	74.2	73.9	24.0	301.9	61.0	21.5		14.0	4.8	29.9	67.24	
	Black Crappie	26.6	8.3	0.1	2.1	1.7	3.6		4.1	0.6	1.3	5.38	
	Bluegill	3.9	1.4	0.7	8.6	1.7	3.8		2.7	2.3	3.7	3.20	
	Channel Catfish	0.1	0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.01	
	Common Carp	2.2	8.2	6.3	16.6	14.2	7.6		12.6	6.1	7.7	9.06	
	Green Sunfish	2.5	0.0	0.2	0.4	0.2	0.1		0.0	0.7	0.1	0.47	
	Northern Pike	0.5	0.9	0.4	0.2	0.3	0.1		0.4	0.3	1.0	0.46	
	Smallmouth Bass	0.2	0.1	0.1	3.5	0.9	2.4		5.3	6.3	4.2	2.56	
	Sunfish Hybrid	0.0	0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.00	

		CPUE										
Gear	Species	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	Avg
frame net (std 3/4 in)	Walleye	1.9	16.8	0.2	0.2	0.7	1.7		0.8	0.3	0.6	2.58
	White Bass	0.3	5.1	0.2	0.0	0.5	4.8		0.8	2.2	4.2	2.01
	White Sucker	2.3	5.6	2.2	0.8	3.4	2.5		0.4	0.0	6.6	2.64
	Yellow Perch	100.9	5.5	0.6	2.2	0.4	0.8		1.9	0.4	1.6	12.70
std exp gill net	Bigmouth Buffalo	0.0	1.0	0.0	0.8	0.8	0.0					0.43
	Black Bullhead	26.8	19.7	15.8	63.4	91.0	7.8					37.42
	Black Crappie	10.8	0.0	0.0	0.2	0.3	0.0					1.88
	Bluegill	1.0	0.3	0.0	0.0	0.5	0.0					0.30
	Channel Catfish	0.0	0.0	0.0	0.2	0.3	0.2					0.12
	Common Carp	2.5	0.3	0.0	1.4	3.5	2.2					1.65
	Green Sunfish	0.3	0.0	0.0	0.0	0.0	0.0					0.05
	Northern Pike	0.3	0.7	0.0	0.2	0.0	0.2					0.23
	Smallmouth Bass	0.0	0.0	0.0	0.6	0.0	0.0					0.10
	Spottail Shiner	0.0	0.0	0.0	0.0	0.0	0.0					0.00
	Walleye	12.8	23.7	9.6	7.0	7.3	17.8					13.03
	White Bass	1.5	0.0	1.2	0.8	0.8	0.8					0.85
	White Sucker	15.8	14.7	11.6	20.0	11.0	13.6					14.45
	Yellow Bullhead	0.3	0.0	0.0	0.0	0.0	0.0					0.05
	Yellow Perch	265.8	130.0	6.0	24.2	8.3	15.6					74.98

## 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												
			2011	2012	2013	2014	2015	2016	2017	2018	2019	2020			
AFS std frame net	Bigmouth Buffalo	PSD									83				
		PSD-P									8				
	Black Bullhead	PSD									100				
		PSD-P									79				
	Black Crappie	PSD									43				
		PSD-P									36				
	Bluegill	Wr									111				
		PSD									80				
		PSD-P									20				
	Common Carp	Wr									144				
		PSD									100				
		PSD-P									32				
	Smallmouth Bass	PSD									53				
		PSD-P									16				
		Wr									89				
	Walleye	PSD									44				
		PSD-P									0				
		Wr									76				
	White Bass	PSD									87				
		PSD-P									73				
Wr										85					
White Sucker	PSD									100					
	PSD-P									100					
AFS std gill net	Bigmouth Buffalo	PSD								27	57	0	19		
		PSD-P								0	14	0	6		
	Black Bullhead	PSD								98	100	76	86		
		PSD-P								80	95	59	18		
	Black Crappie	PSD									50				
		PSD-P									0				
		Wr									102				
	Bluegill	PSD									100	100			
		PSD-P									33	100			
		Wr									119	118			



Gear	Species	Index	Year										
			2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	
AFS std gill net	Common Carp	PSD								100	100	94	78
		PSD-P								22	90	88	56
		Wr											
	Smallmouth Bass	PSD								0	20		100
		PSD-P								0	20		0
		Wr								94	90		79
	Walleye	PSD								52	30	21	41
		PSD-P								9	19	3	9
		Wr								80	83	85	84
	White Bass	PSD								86	100	92	89
		PSD-P								35	97	80	73
		Wr								93	87	87	90
	White Sucker	PSD								98	78	95	98
		PSD-P								94	78	91	79
		Wr											
Yellow Perch	PSD								44	75	40	78	
	PSD-P								26	48	33	25	
	Wr								105	107	109	111	
frame net (std 3/4 in)	Bigmouth Buffalo	PSD	98	40	31	66	13	84			90	83	48
		PSD-P	12	12	3	10	3	8			18	33	15
		Wr	97	89	104								
	Black Bullhead	PSD	24	95	99	25	90	97			97	98	95
		PSD-P	3	24	31	16	16	30			91	88	43
		Wr	93	90	103								
	Black Crappie	PSD	16	100	100	14	100	100			100	100	92
		PSD-P	11	11	100	14	12	86			56	83	92
		Wr	131	93	105	107	107	106			100	101	100
	Bluegill	PSD	97	64	83	6	100	97			100	100	97
		PSD-P	0	43	83	2	6	97			48	78	30
		Wr	120	95	110	125	118	115			111	118	121
	Common Carp	PSD	50	98	100	8	85	87			99	98	92
		PSD-P	9	20	72	7	4	37			84	90	26
		Wr	93	101	100								
	Smallmouth Bass	PSD	0	100	100	0	0	38			32	57	60
		PSD-P	0	0	100	0	0	0			8	13	7
		Wr	109	88	102	100	97	97			88	90	89
	Walleye	PSD	16	2	0	50	29	0			50	33	17
		PSD-P	0	2	0	0	14	0			13	0	0
		Wr	90	86	97	83	79	81			84	80	82

Gear	Species	Index	Year										
			2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	
frame net (std 3/4 in)	White Bass	PSD	67	100	100		60	98		100	100	93	
		PSD-P	33	84	100		20	38		100	73	88	
		Wr	96	84	100		92	92		84	89	85	
	White Sucker	PSD	87	100	100	50	100	100		100	0	100	
		PSD-P	48	86	95	50	91	100		100	0	92	
		Wr	100	84	103								
	Yellow Perch	PSD	4	96	0	9	100	13			63	50	94
		PSD-P	1	24	0	0	75	13			32	25	31
		Wr	101	90	123	93	98	97			108	106	96
std exp gill net	Bigmouth Buffalo	PSD		33		0	0						
		PSD-P		0		0	0						
		Wr		92									
	Black Bullhead	PSD	33	97	91	22	88	97					
		PSD-P	5	3	29	11	1	8					
		Wr	111	89	107								
	Black Crappie	PSD	2			0	100						
		PSD-P	2			0	0						
		Wr	120			116	117						
	Bluegill	PSD	100	100			100						
		PSD-P	0	0			100						
		Wr	114	98			110						
	Common Carp	PSD	30	100	0	0	100	91					
		PSD-P	10	0	0	0	14	73					
		Wr	98	85		58							
	Smallmouth Bass	PSD					33						
		PSD-P					33						
		Wr					99						
	Walleye	PSD	49	6	48	89	0	1					
		PSD-P	10	3	0	11	0	0					
		Wr	87	77	100	85	86	86					
White Bass	PSD	100	0	100	100	0	100						
	PSD-P	17	0	50	100	0	25						
	Wr	102		106	91	98	97						
White Sucker	PSD	98	98	93	38	98	94						
	PSD-P	65	77	90	26	64	91						
	Wr	101	87	113									
Yellow Perch	PSD	18	87	17	3	82	37						

Gear	Species	Index	Year										
			2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	
std exp gill net	Yellow Perch	PSD-P	3	12	3	2	24	36					
		Wr	102	91	112	106	110	108					

## Length at Capture

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

### Species: Black Crappie

Mean Length (expanded sample number) at capture by age											
Year	N	1	2	3	4	5	6	7	8	9	10+
2012	83		222 (74)		288 (3)	320 (5)	326 (1)				
2011	268	147 (230)	221 (9)	254 (8)	295 (16)	302 (3)	315 (2)				

### Species: Bluegill

Mean Length (expanded sample number) at capture by age											
Year	N	1	2	3	4	5	6	7	8	9	10+
2012	14	107 (5)		181 (1)	197 (1)	203 (6)	233 (1)				

### Species: Walleye

Mean Length (expanded sample number) at capture by age											
Year	N	1	2	3	4	5	6	7	8	9	10+
2019	30	224 (1)	304 (19)	369 (5)		425 (3)	541 (2)				
2018	44	243 (27)	328 (6)	343 (1)	388 (4)	383 (1)		564 (1)			651 (4)
2017	34	254 (4)	255 (2)	373 (10)	397 (15)				669 (1)		645 (2)
2016	90	238 (1)	284 (56)	314 (32)	425 (1)						
2015	101	196 (48)	254 (53)								
2014	68	206 (37)	415 (1)	436 (8)	462 (19)	496 (1)	558 (2)				
2013	48		334 (7)	386 (41)							
2012	74	250 (8)	303 (63)		515 (2)	536 (1)					
2011	98	245 (73)	401 (6)	448 (8)	494 (11)						

### Species: Yellow Perch

Mean Length (expanded sample number) at capture by age											
Year	N	1	2	3	4	5	6	7	8	9	10+
2017	94	171 (53)	247 (28)	275 (1)	281 (12)						
2015	33	166 (6)	240 (27)								
2014	121	173 (119)	251 (1)		318 (1)						
2013	30	165 (25)	233 (3)	256 (2)							

Mean Length (expanded sample number) at capture by age

Year	N	1	2	3	4	5	6	7	8	9	10+
2012	390	155 (35)	231 (347)	263 (4)		325 (4)					
2011	1063	180 (938)	242 (125)								

## 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).

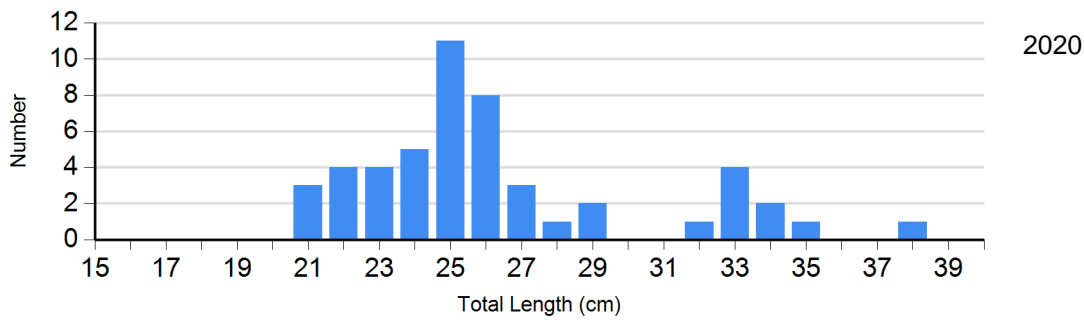
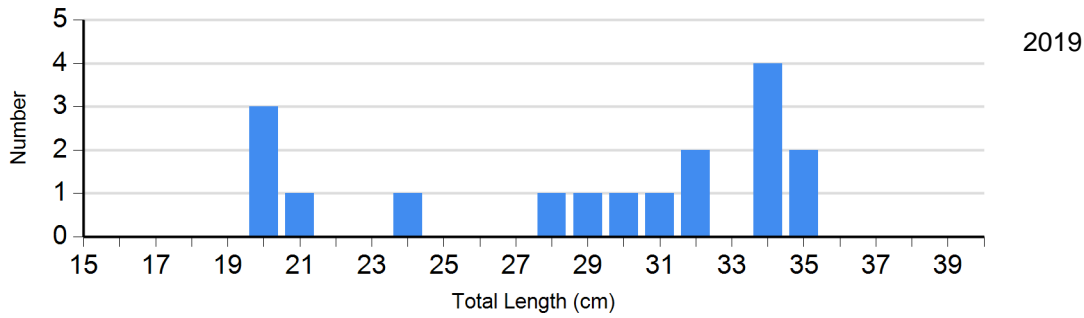
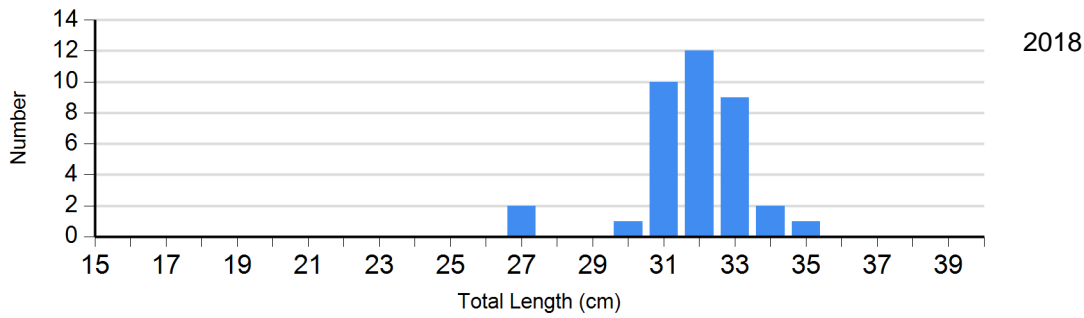
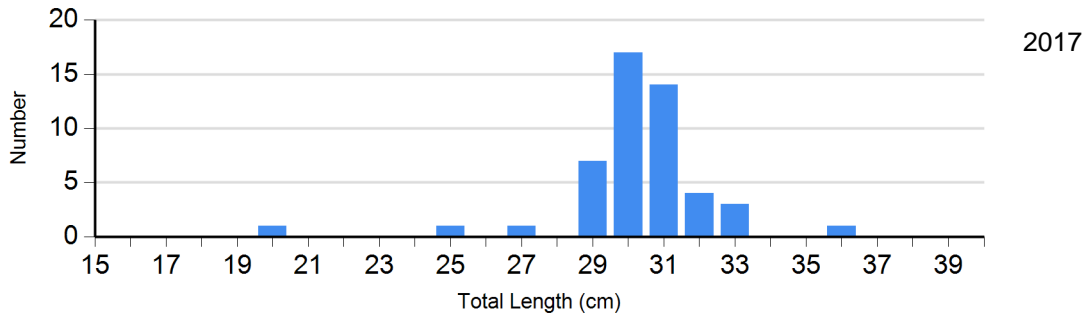
Species	Year	Length Groups							
		S-Q		Q-P		P-M		M	
		N	Wr (SE)	N	Wr (SE)	N	Wr (SE)	N	Wr (SE)
Black Crappie Frame Net	2016	0		5	119 (11.2)	29	105 (1.1)	2	87 (4.3)
	2017	8	121 (4.5)	1	108	5	96 (3.5)	0	
	2018	0		18	105 (1.5)	14	97 (1.1)	9	94 (2.5)
	2019	0		1	96	5	102 (3.7)	0	
	2020	1	139	0		12	97 (1.1)	0	
Bluegill Frame Net	2016	1	117	0		37	115 (1.6)	0	
	2017	1	133	3	117 (3.7)	1	234	0	
	2018	0		14	116 (3.0)	10	104 (3.1)	3	106 (4.7)
	2019	0		5	132 (7.0)	17	115 (2.0)	1	104
	2020	1		25	126 (1.6)	9	113 (2.8)	2	105 (6.3)
Walleye Gill Net	2016	88	86 (0.6)	1	85	0		0	
	2017	16	80 (0.8)	14	80 (1.2)	0		3	82 (6.6)
	2018	19	84 (1.4)	3	71 (0.4)	2	79 (2.9)	3	86 (3.4)
	2019	23	82 (0.9)	5	95 (6.6)	1	90	0	
	2020	13	80 (2.2)	7	88 (3.1)	1	85	1	111
White Bass Gill Net	2016	0		3	98 (1.7)	0		1	97
	2017	9	98 (3.2)	34	94 (1.0)	23	91 (1.0)	0	
	2018	0		3	93 (1.3)	94	87 (0.4)	1	
	2019	8	96	11	95 (3.2)	75	87 (0.7)	1	85
	2020	5	98 (6.2)	7	97 (4.2)	31	87 (0.9)	1	74
Yellow Perch Gill Net	2016	49	111 (1.2)	1	101	28	106 (1.2)	0	
	2017	53	108 (1.0)	17	107 (2.6)	20	100 (2.7)	4	95 (2.7)

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	2018	28	107 (1.9)	31	109 (1.2)	49	108 (1.0)	6	95 (3.1)
	2019	49	107 (2.6)	6	118 (4.1)	19	112 (1.5)	8	100 (3.9)
	2020	26	110 (2.9)	63	110 (1.1)	20	114 (1.7)	9	108 (1.1)

## Length Frequency Distribution

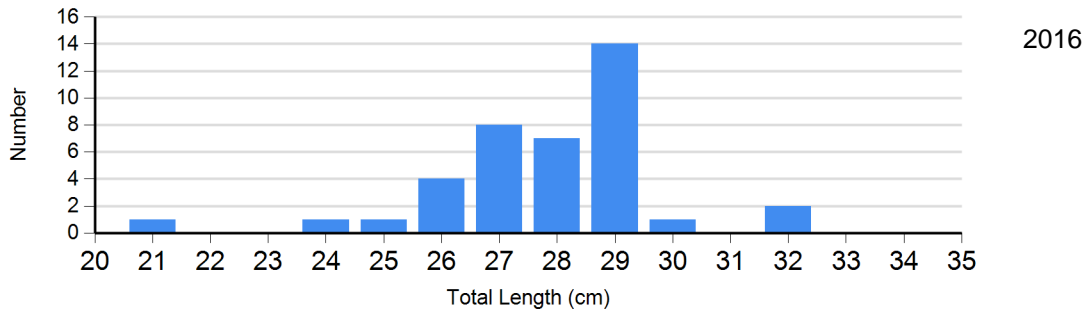
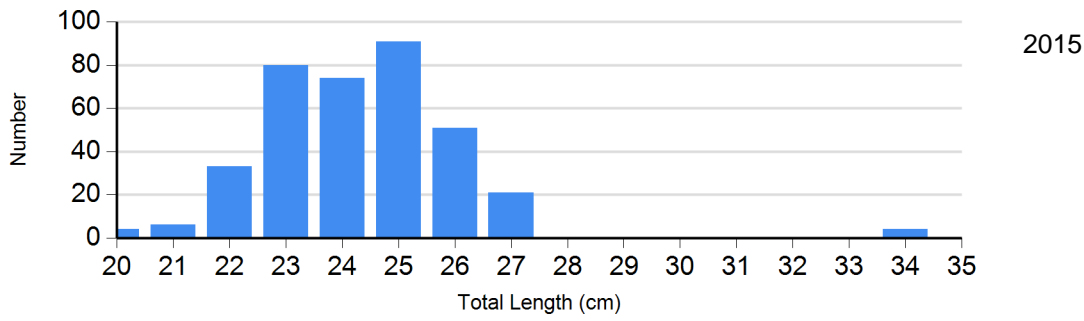
Length frequency histogram of species sampled by year.

Species: Black Bullhead  
Gear: AFS std gill net

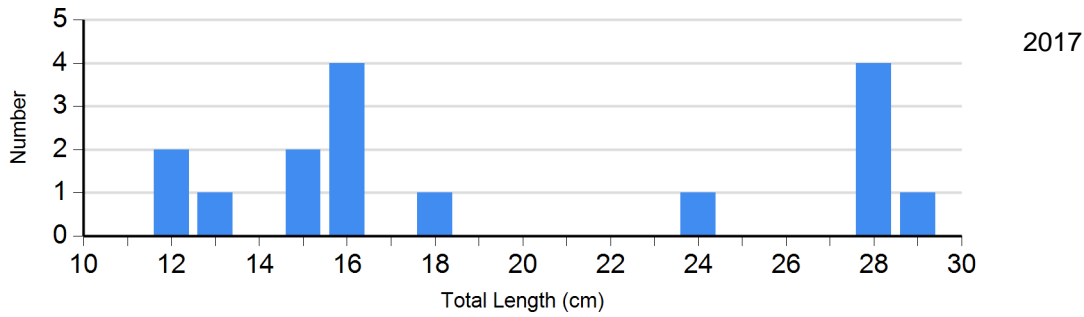




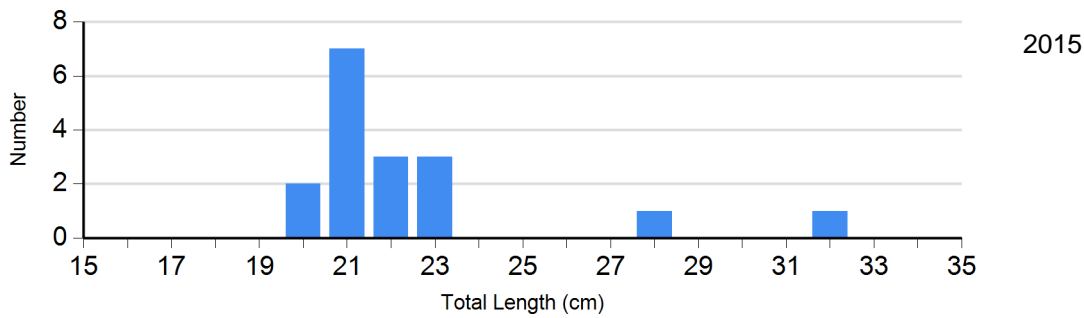
Species: Black Bullhead  
Gear: std exp gill net

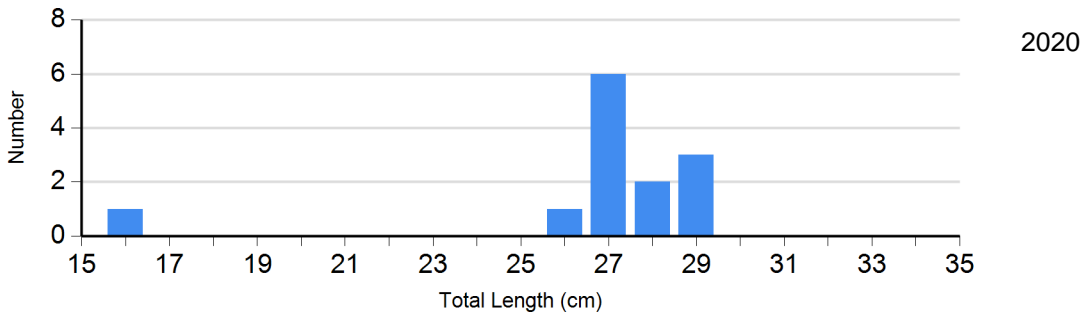
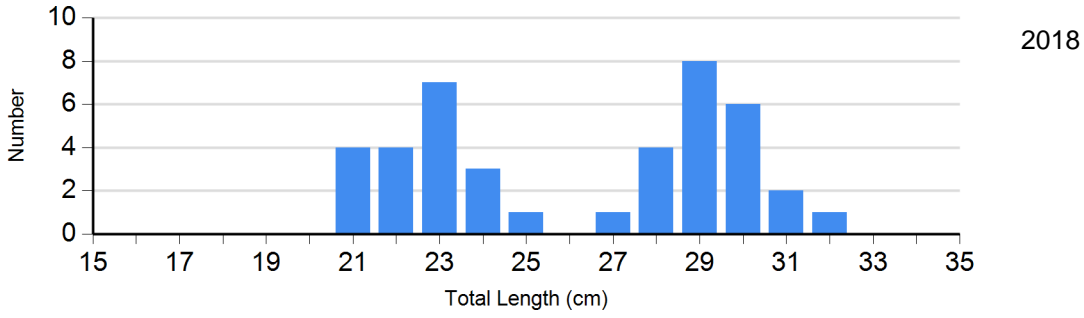
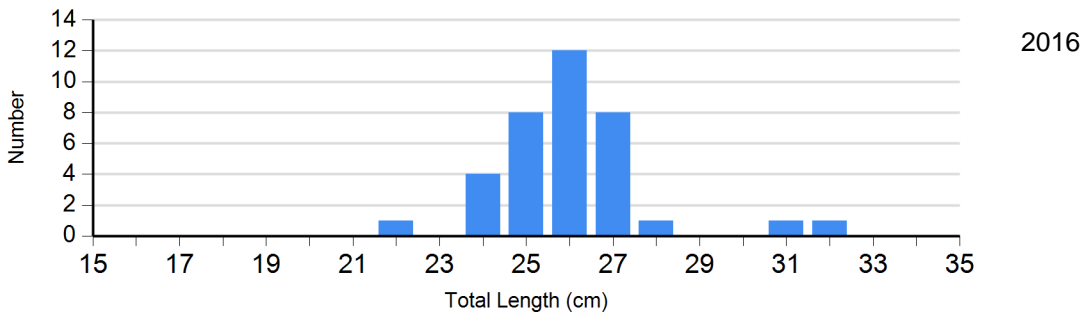


Species: Black Crappie  
Gear: AFS std frame net

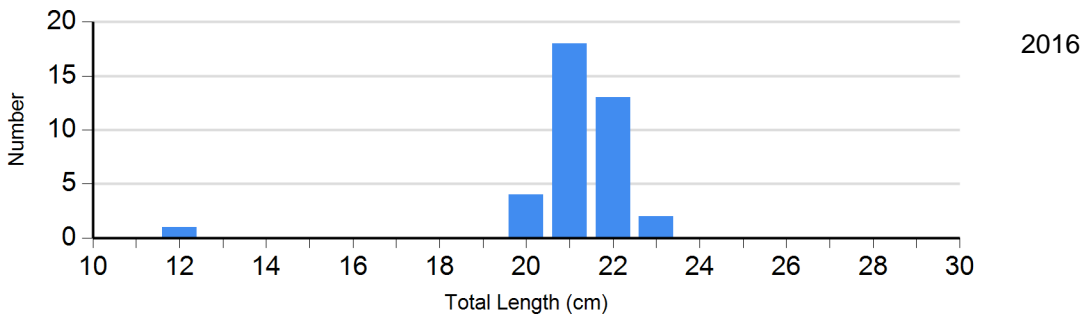
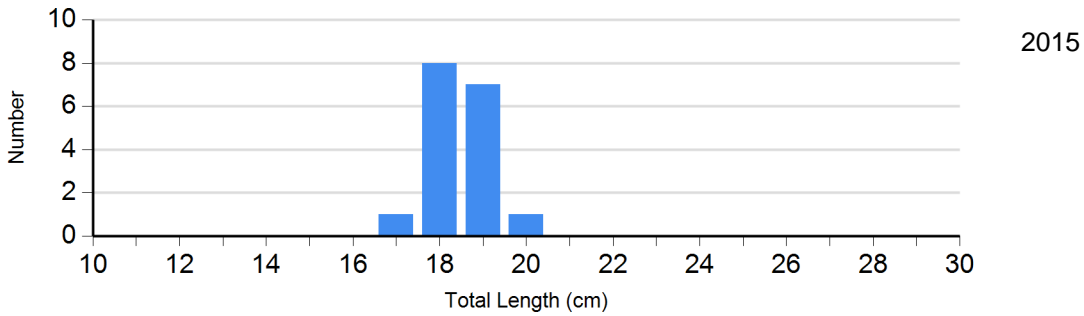


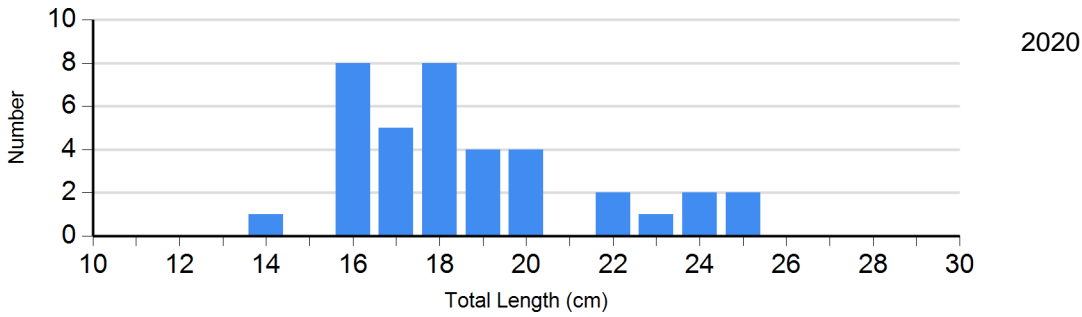
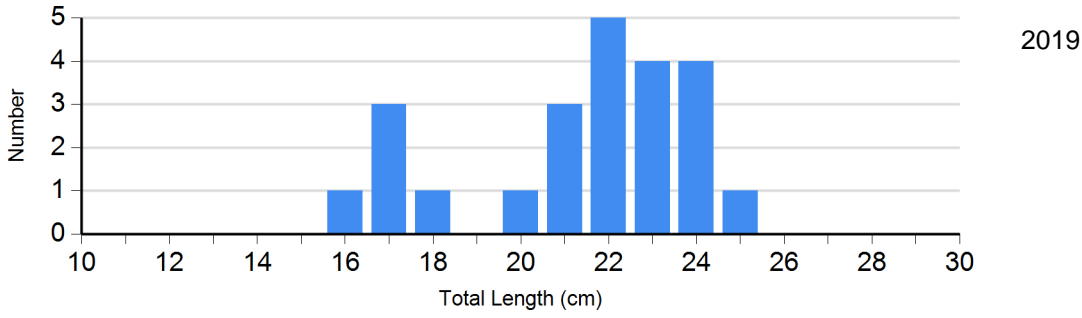
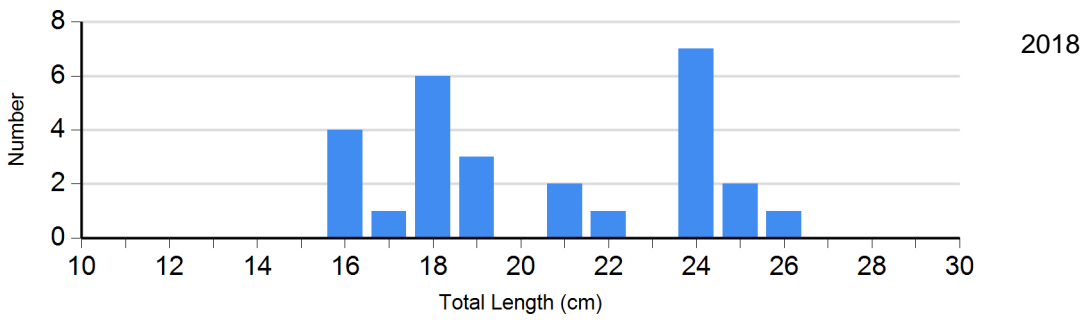
Species: Black Crappie  
Gear: frame net (std 3/4 in)



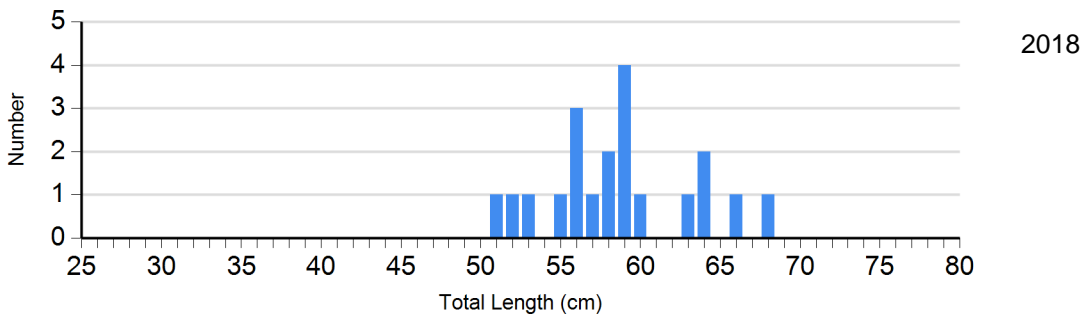
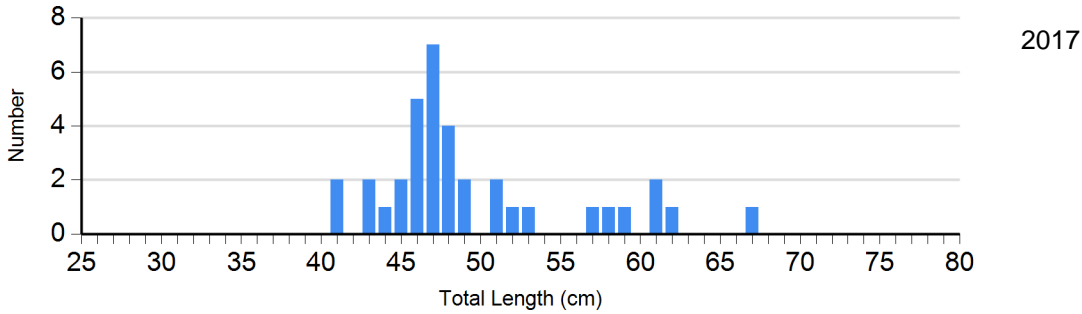


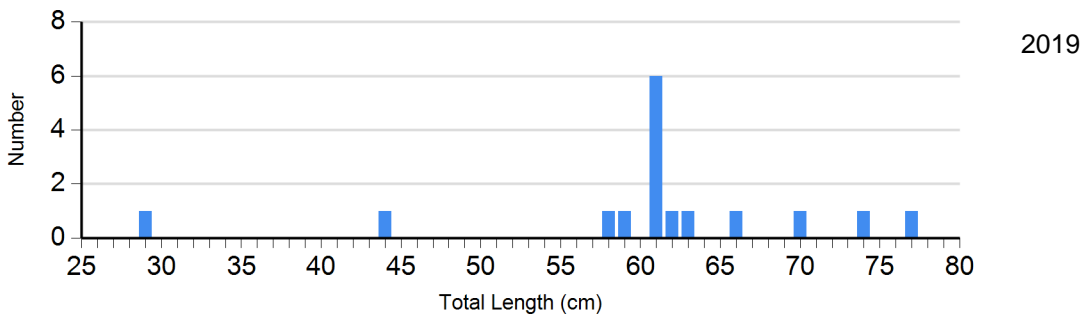
Species: Bluegill  
 Gear: frame net (std 3/4 in)



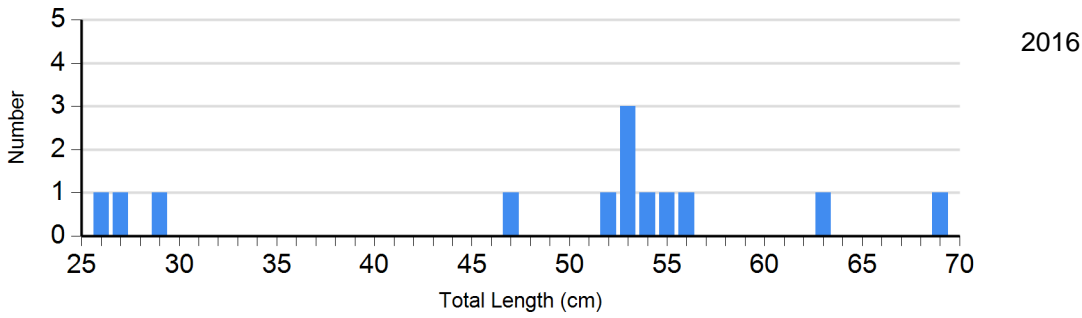
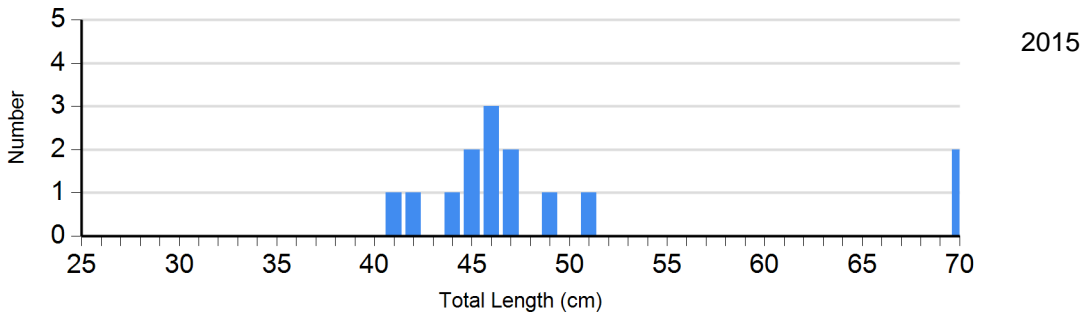


Species: Common Carp  
 Gear: AFS std gill net

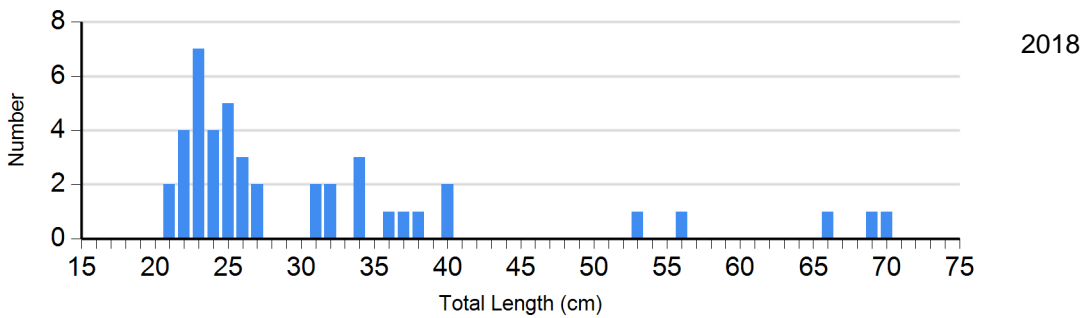
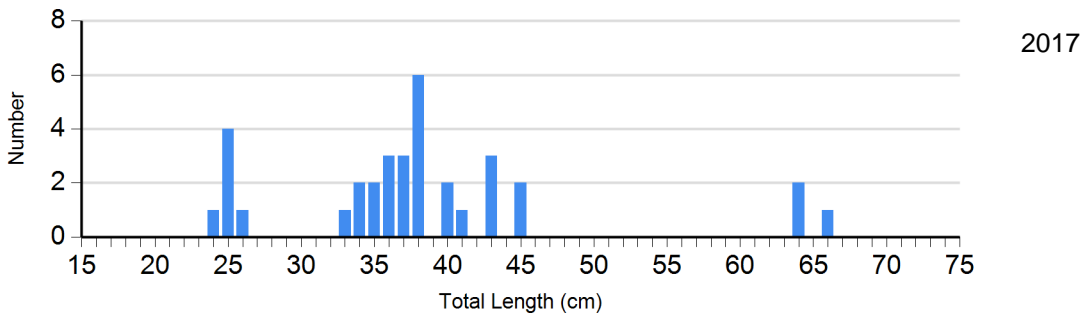


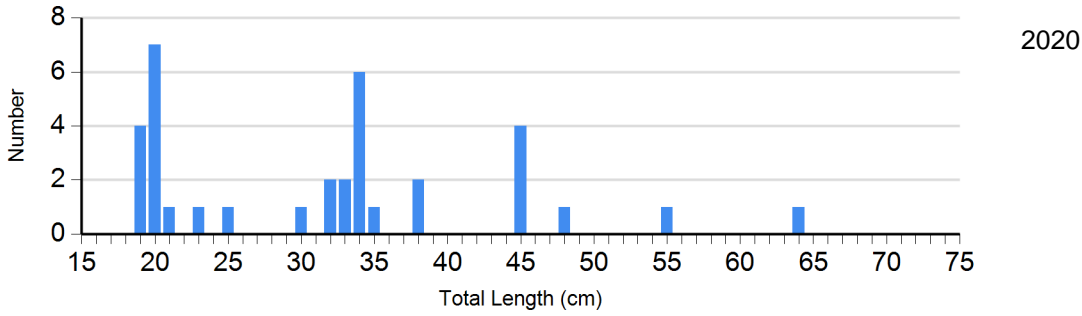
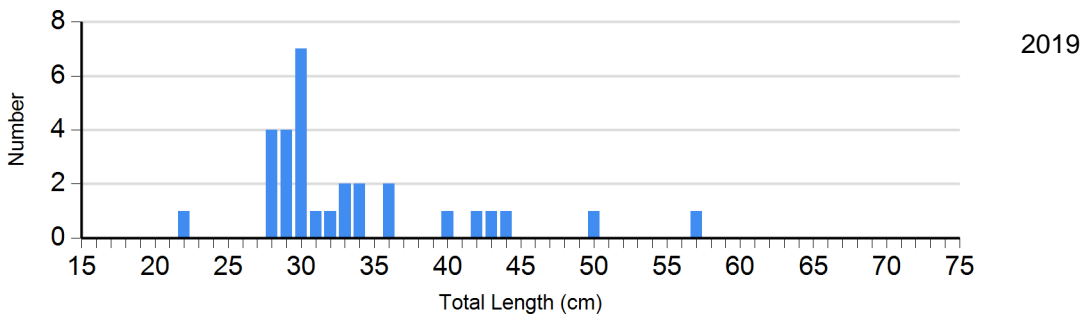


Species: Common Carp  
 Gear: std exp gill net

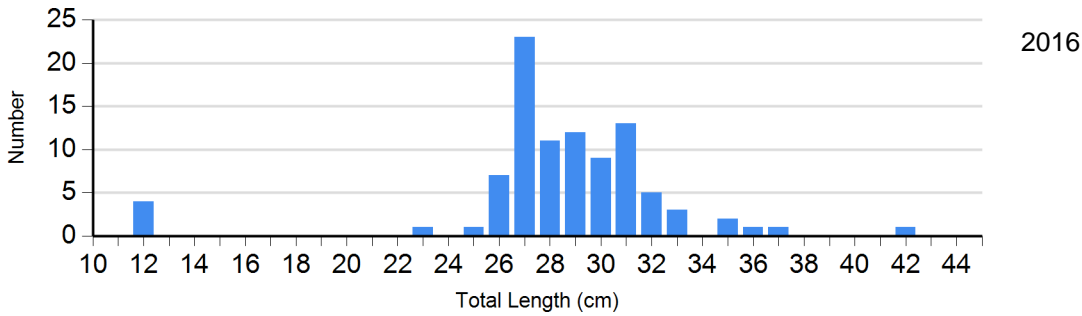
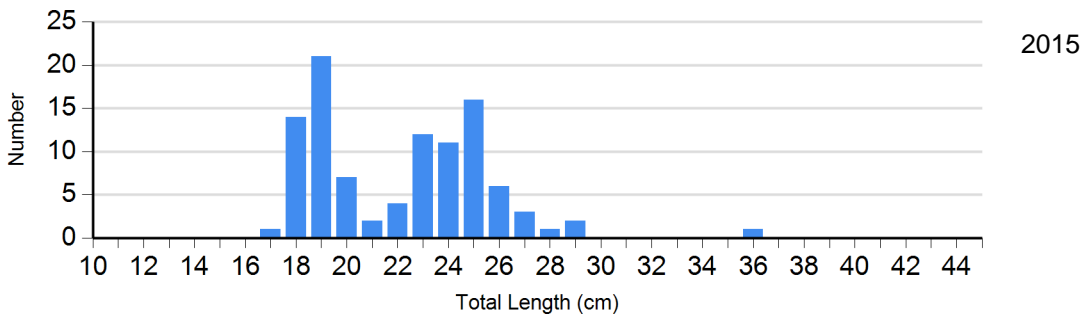


Species: Walleye  
 Gear: AFS std gill net

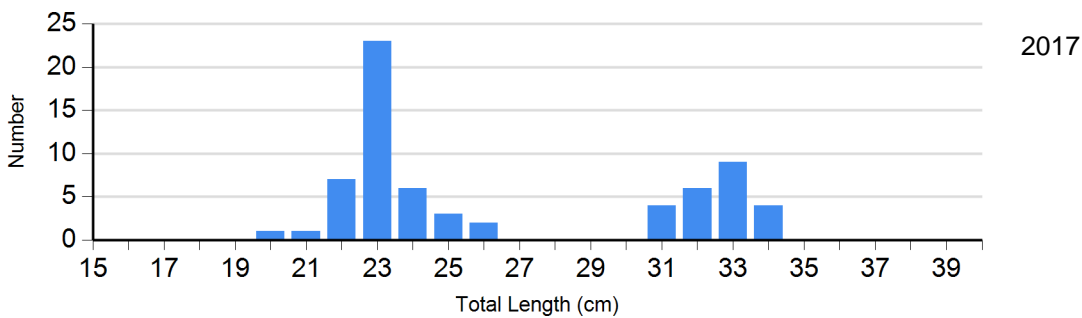


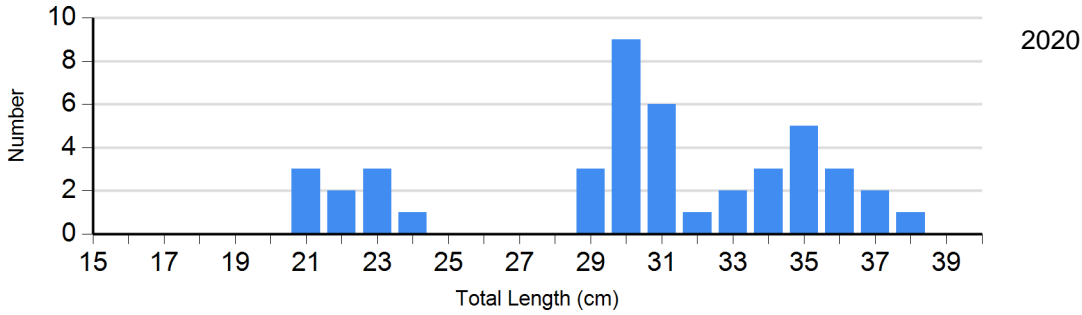
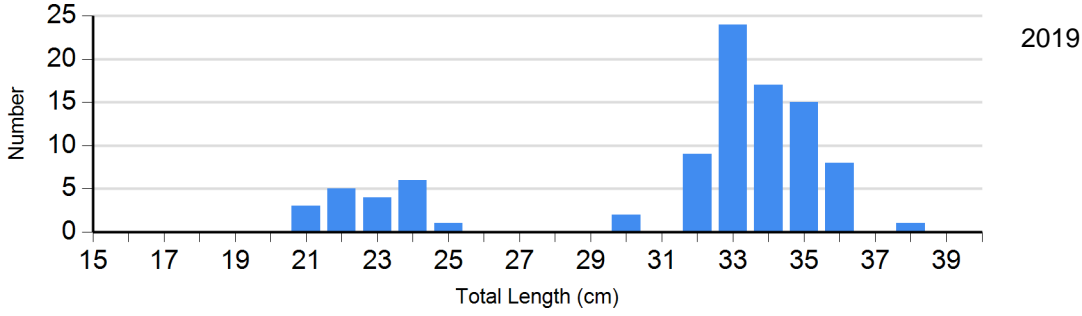
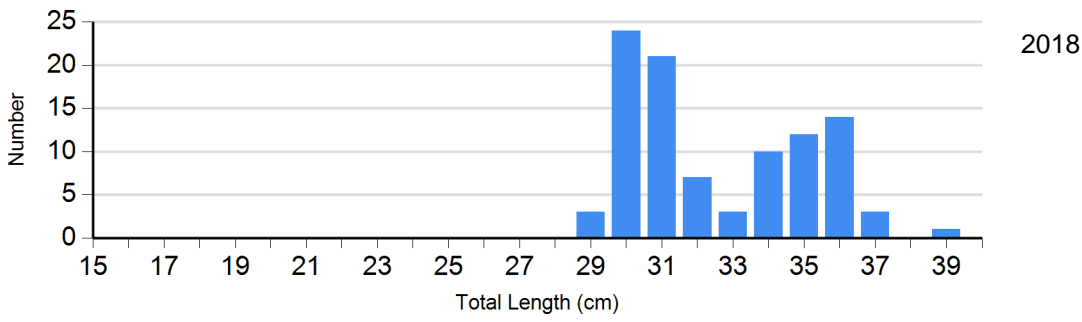


Species: Walleye  
Gear: std exp gill net

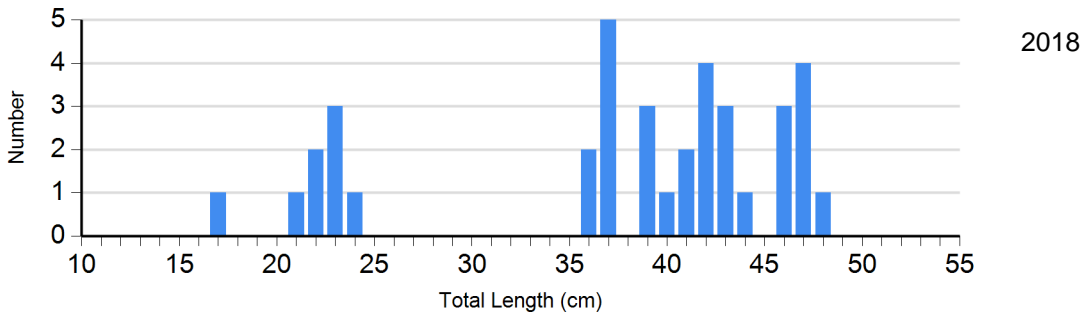
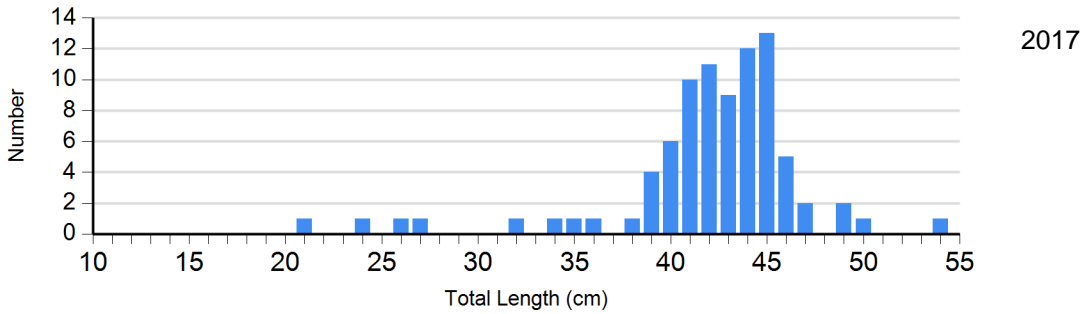


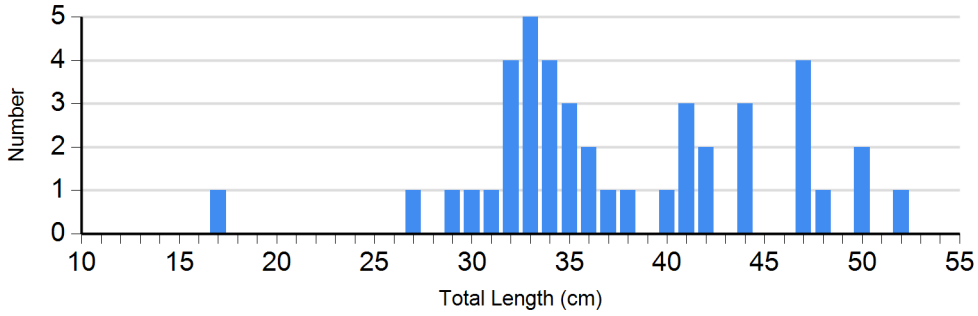
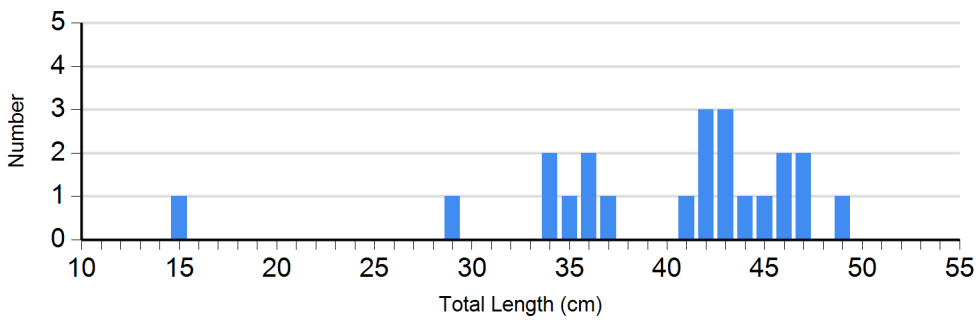
Species: White Bass  
Gear: AFS std gill net



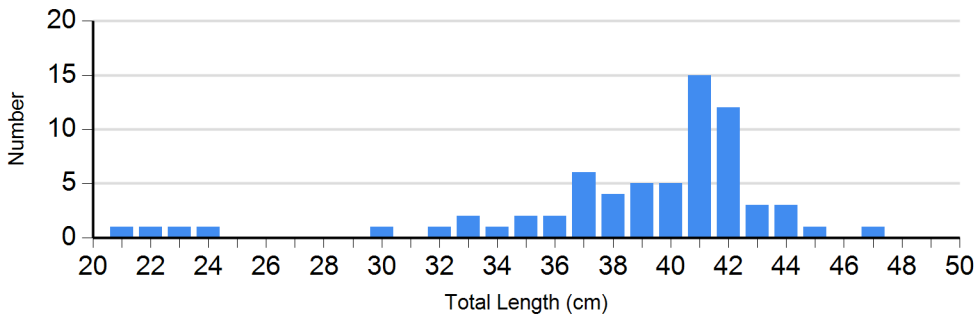
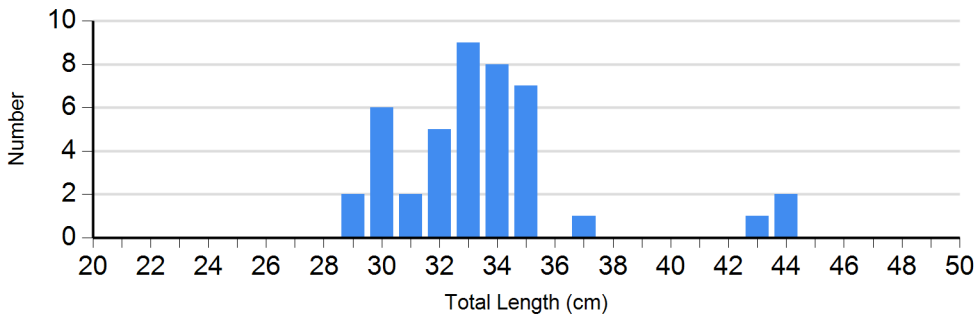


Species: White Sucker  
Gear: AFS std gill net

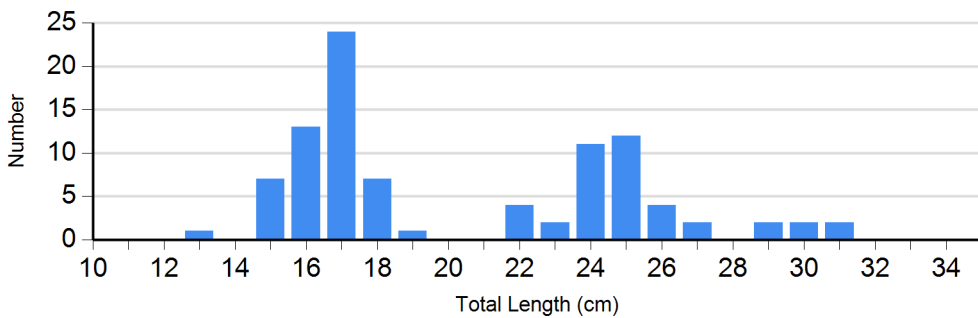


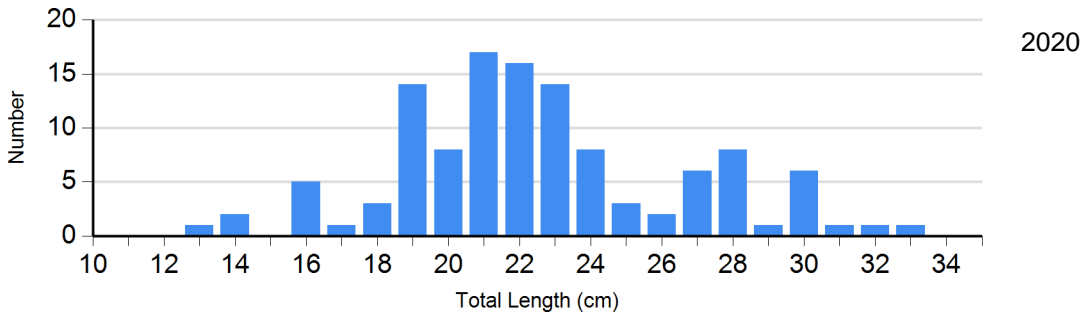
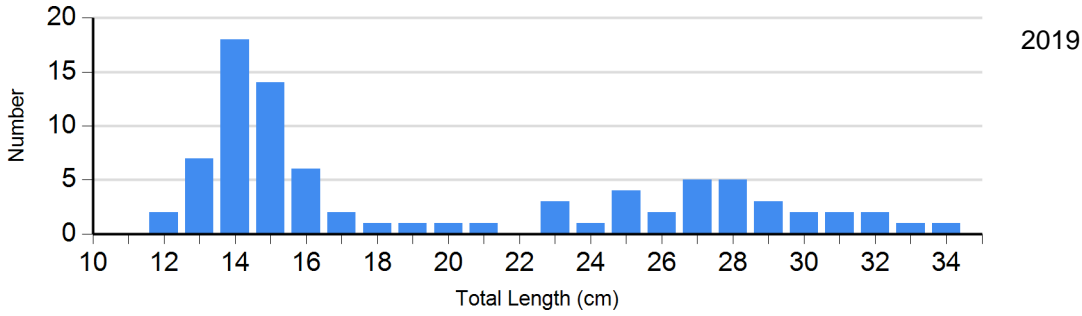
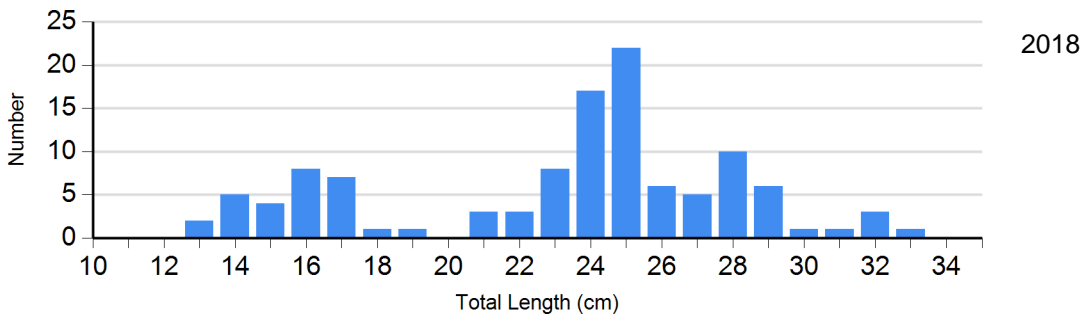


Species: White Sucker  
 Gear: std exp gill net

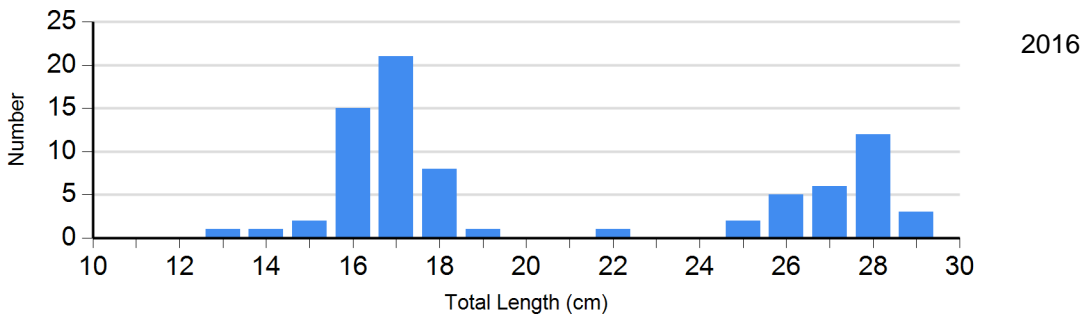
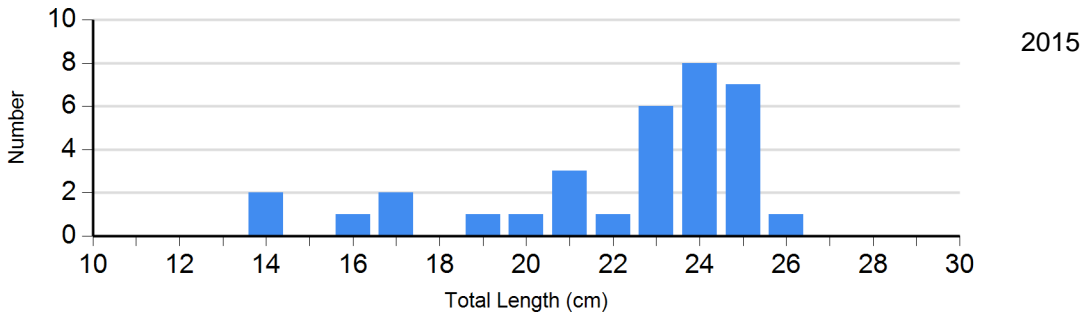


Species: Yellow Perch  
 Gear: AFS std gill net





Species: Yellow Perch  
 Gear: std exp gill net

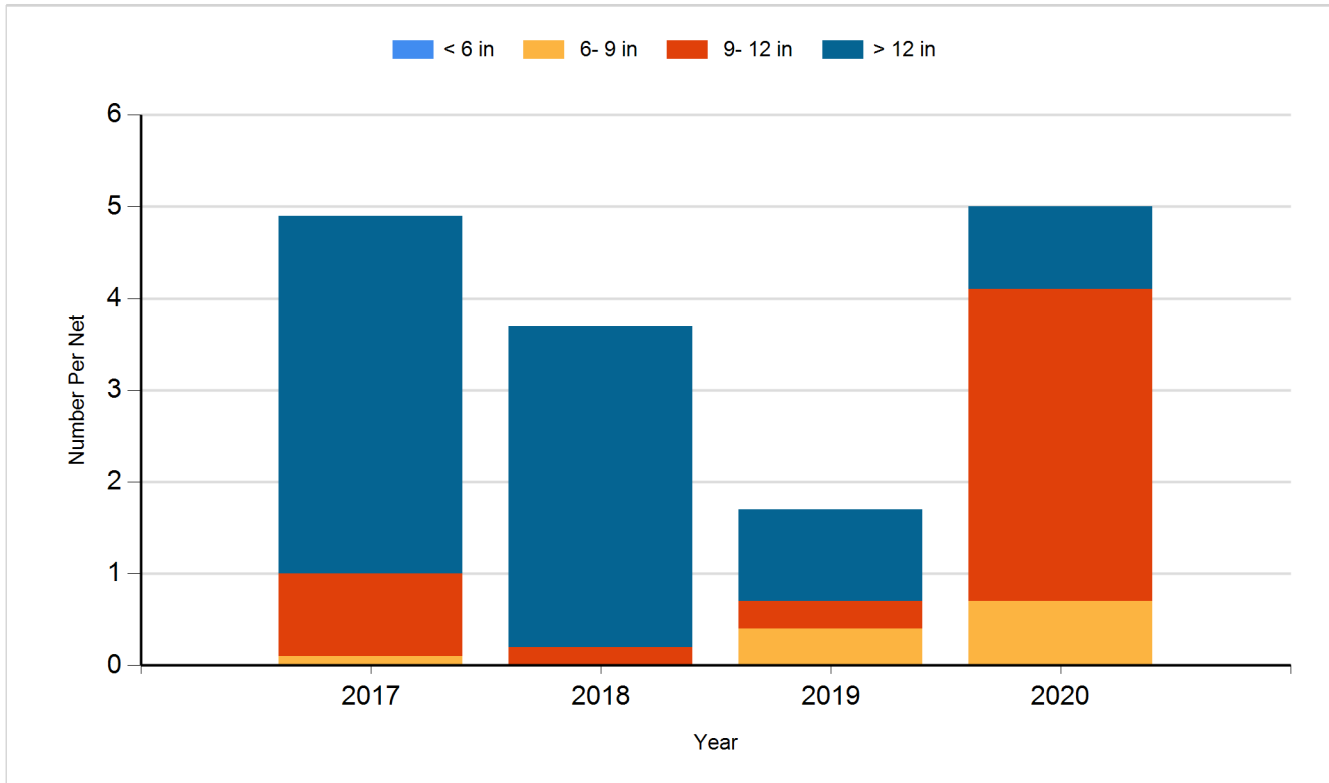




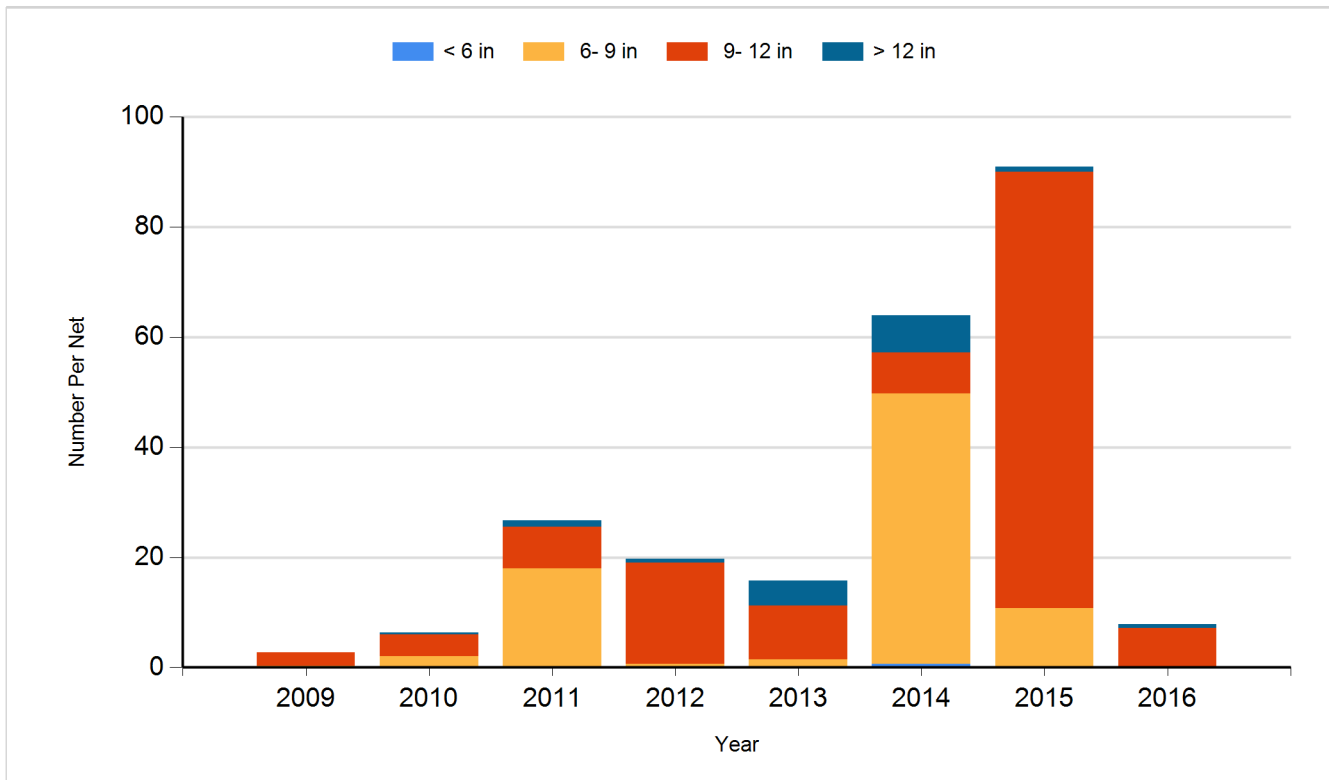
## Historic Fish Sizes and Relative Abundance

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

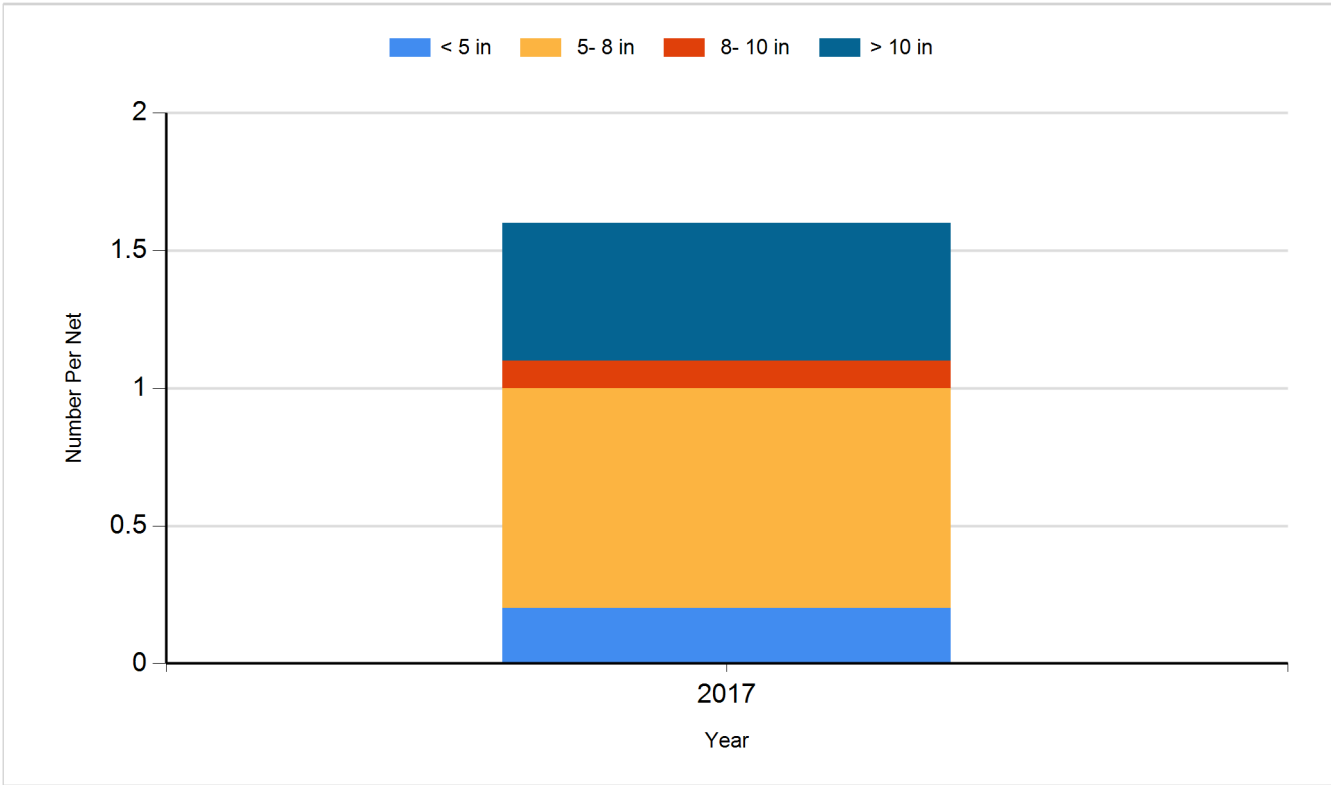
Species: Black Bullhead  
Gear: AFS std gill net



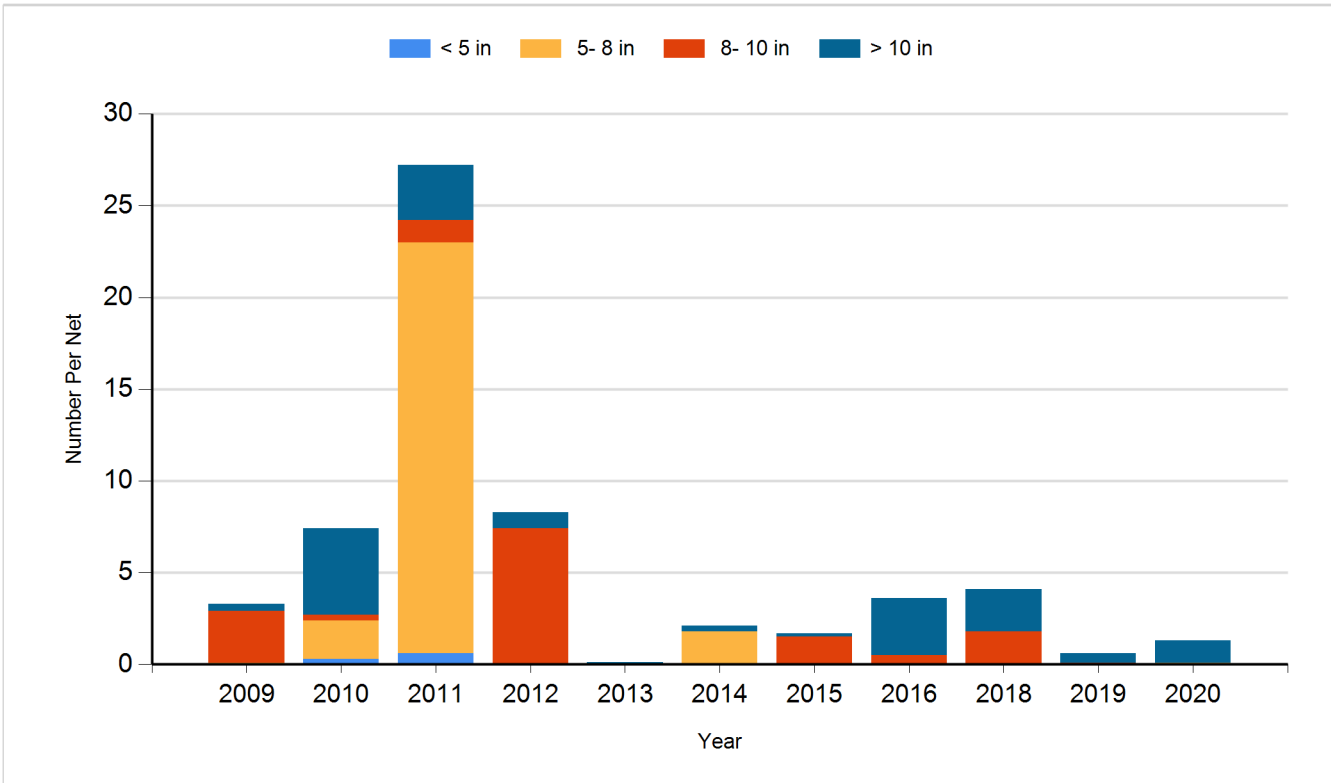
Species: Black Bullhead  
Gear: std exp gill net



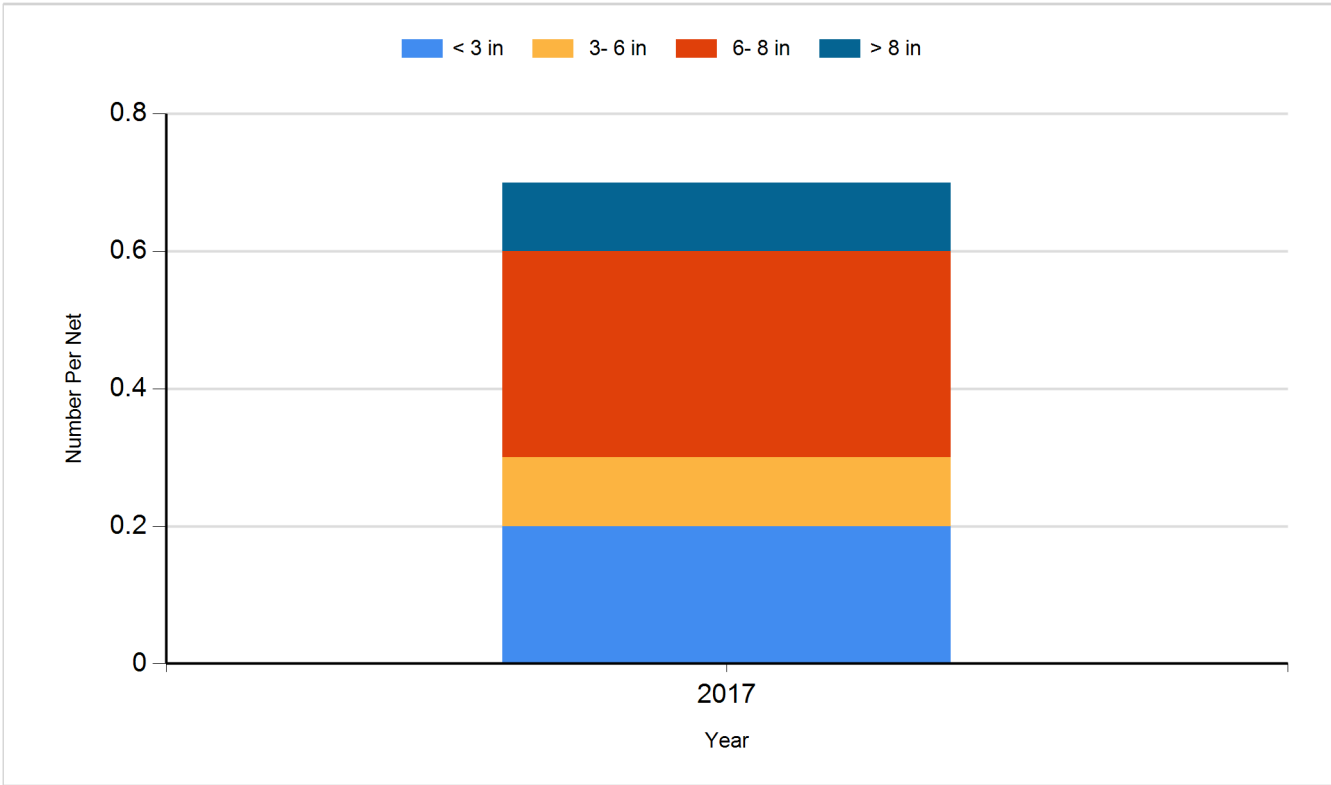
Species: Black Crappie  
Gear: AFS std frame net



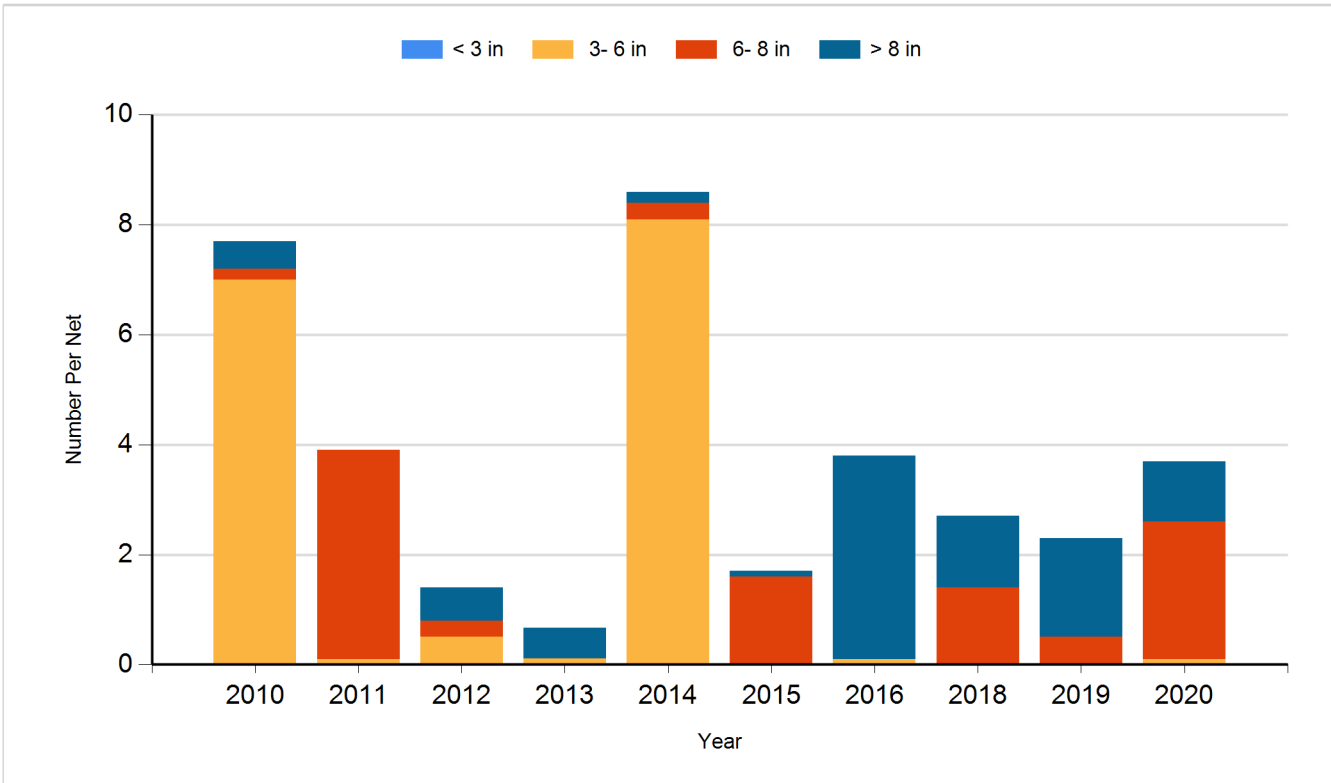
Species: Black Crappie  
Gear: frame net (std 3/4 in)



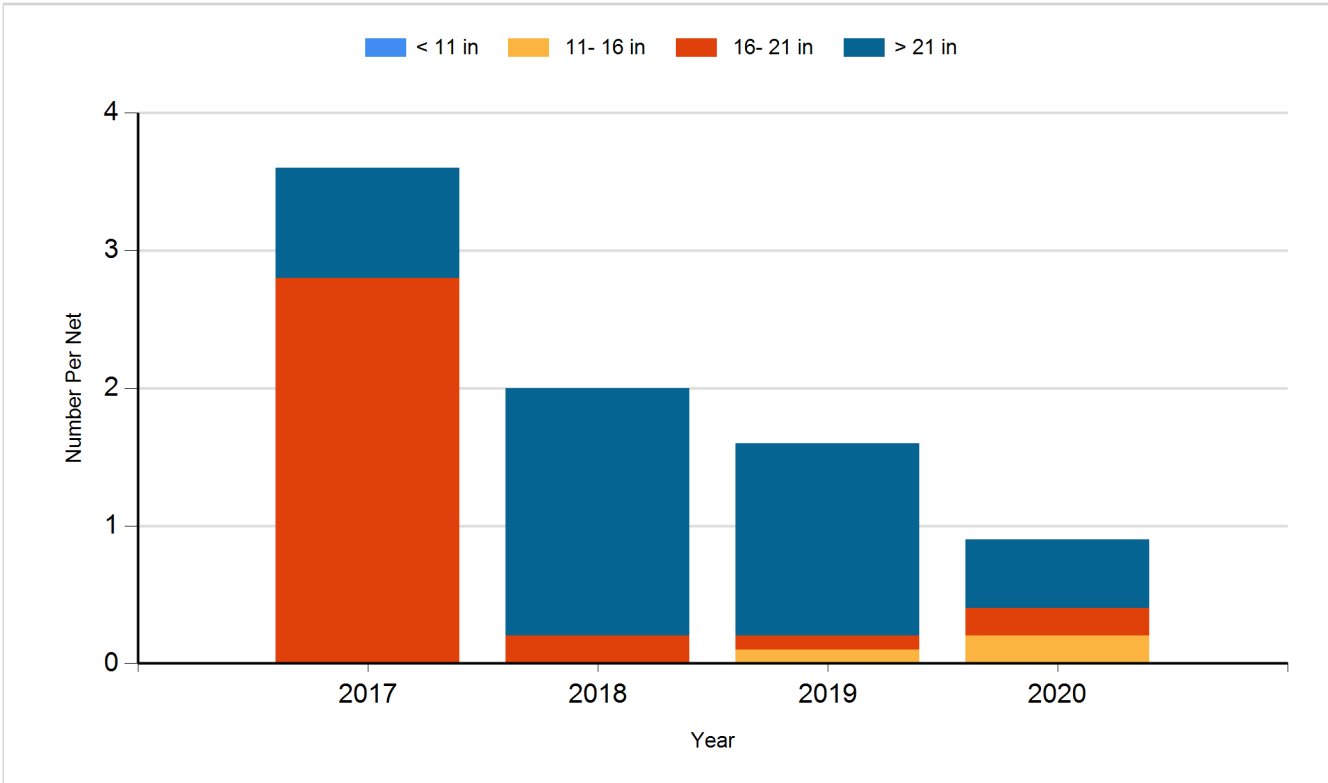
Species: Bluegill  
Gear: AFS std frame net



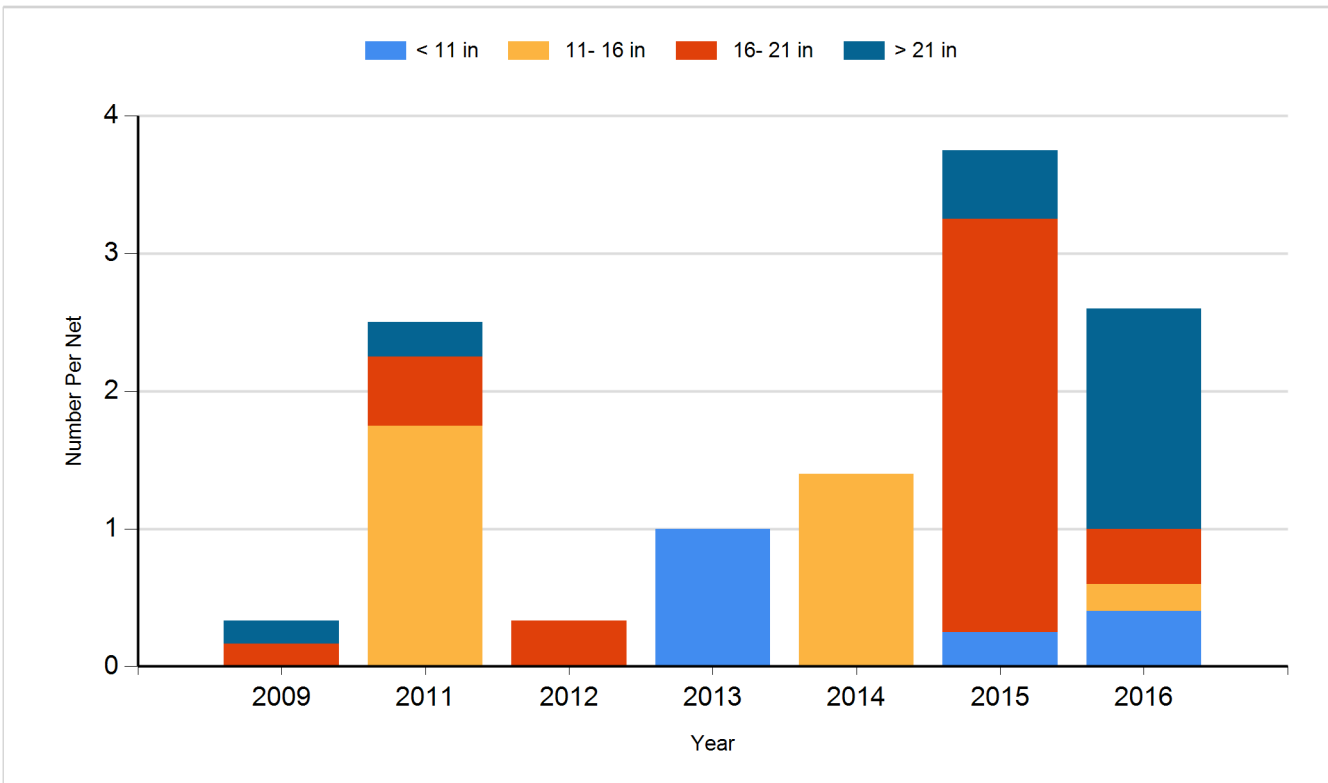
Species: Bluegill  
Gear: frame net (std 3/4 in)



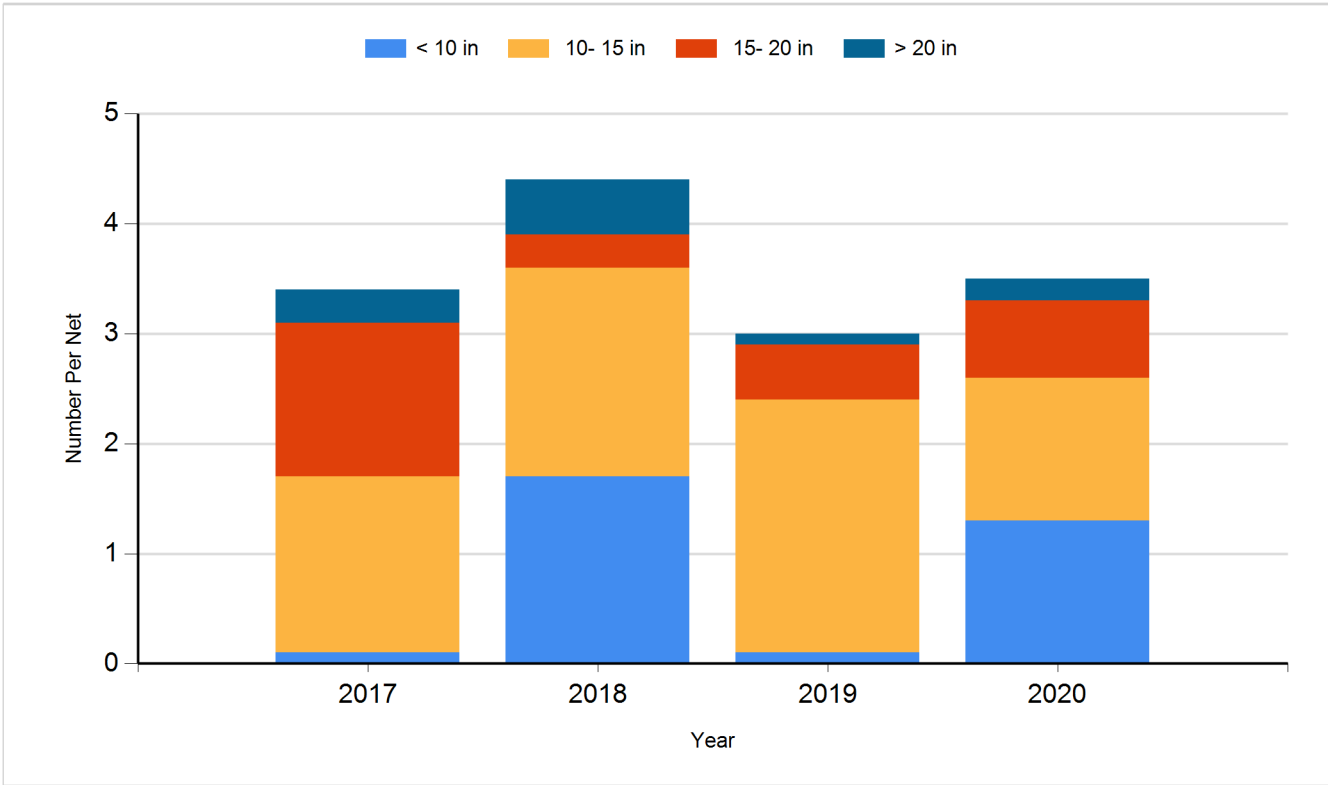
Species: Common Carp  
Gear: AFS std gill net



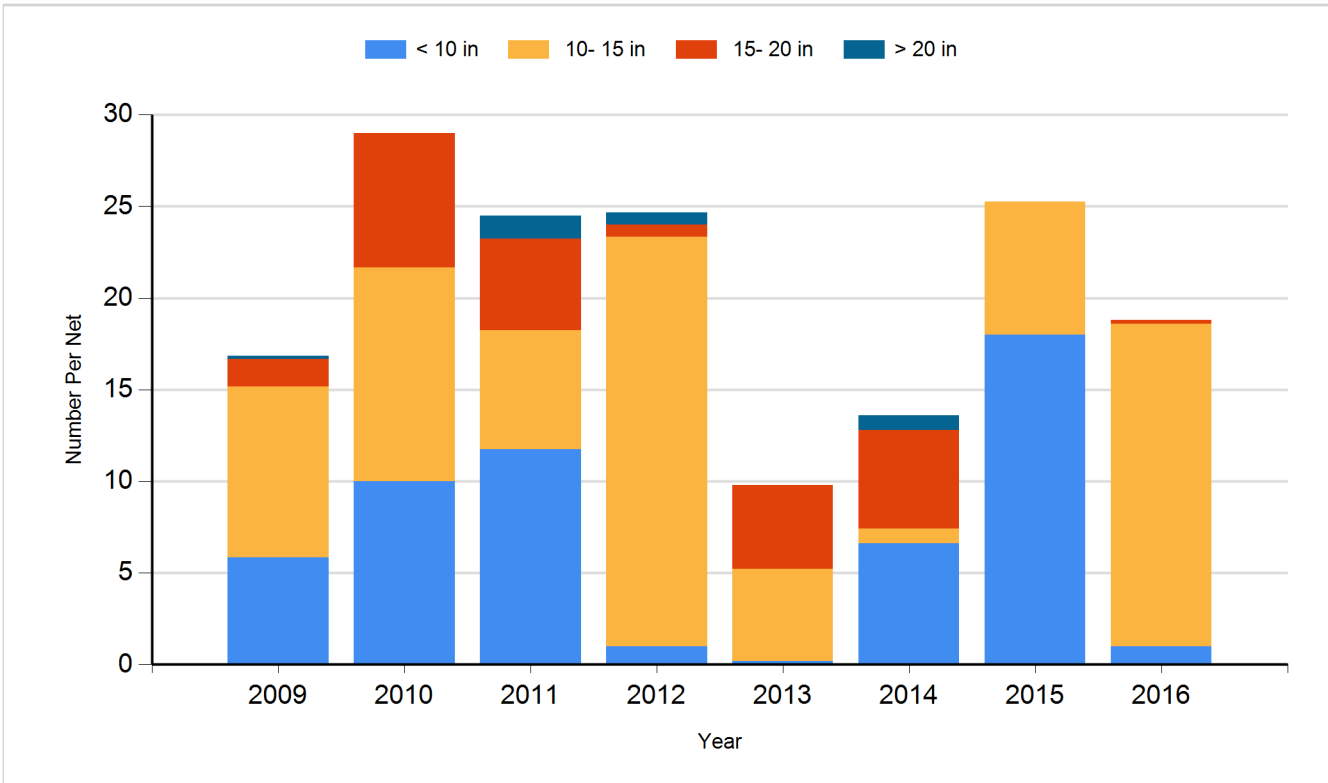
Species: Common Carp  
Gear: std exp gill net



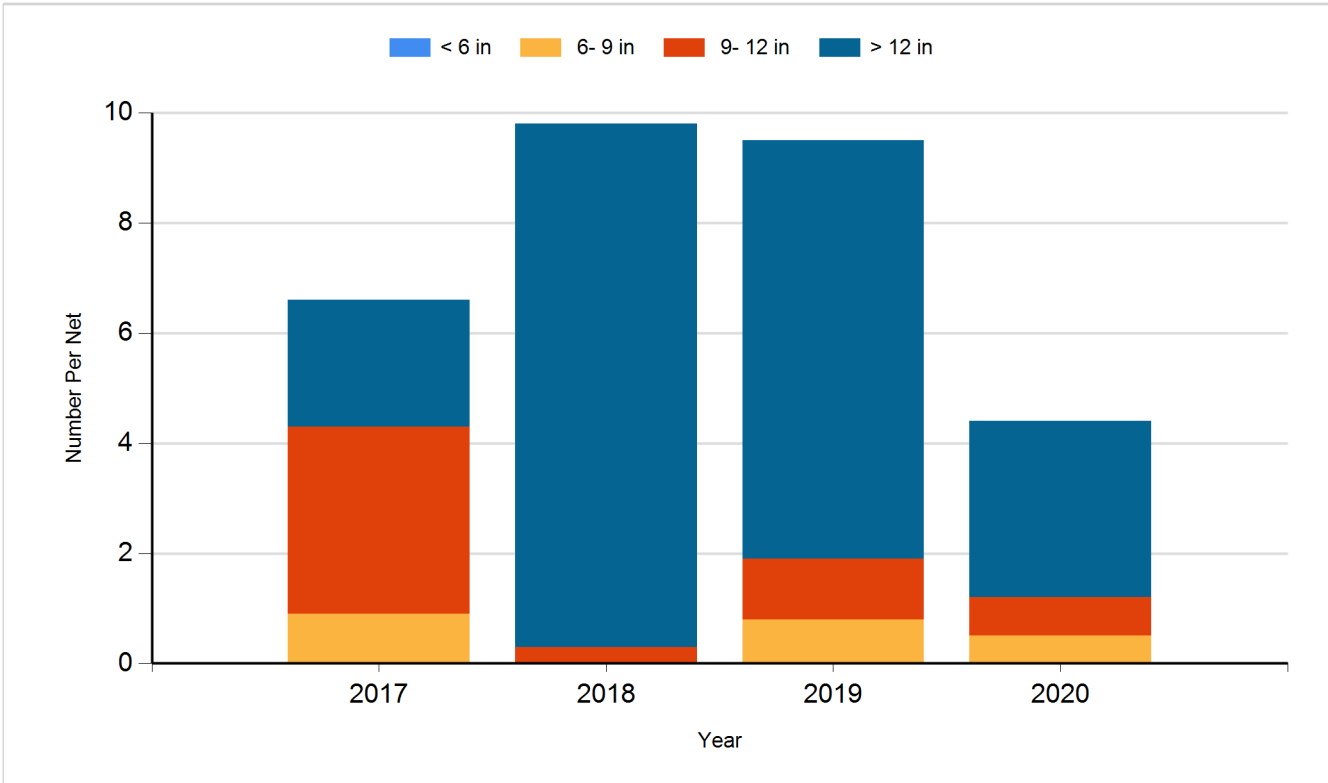
Species: Walleye  
Gear: AFS std gill net



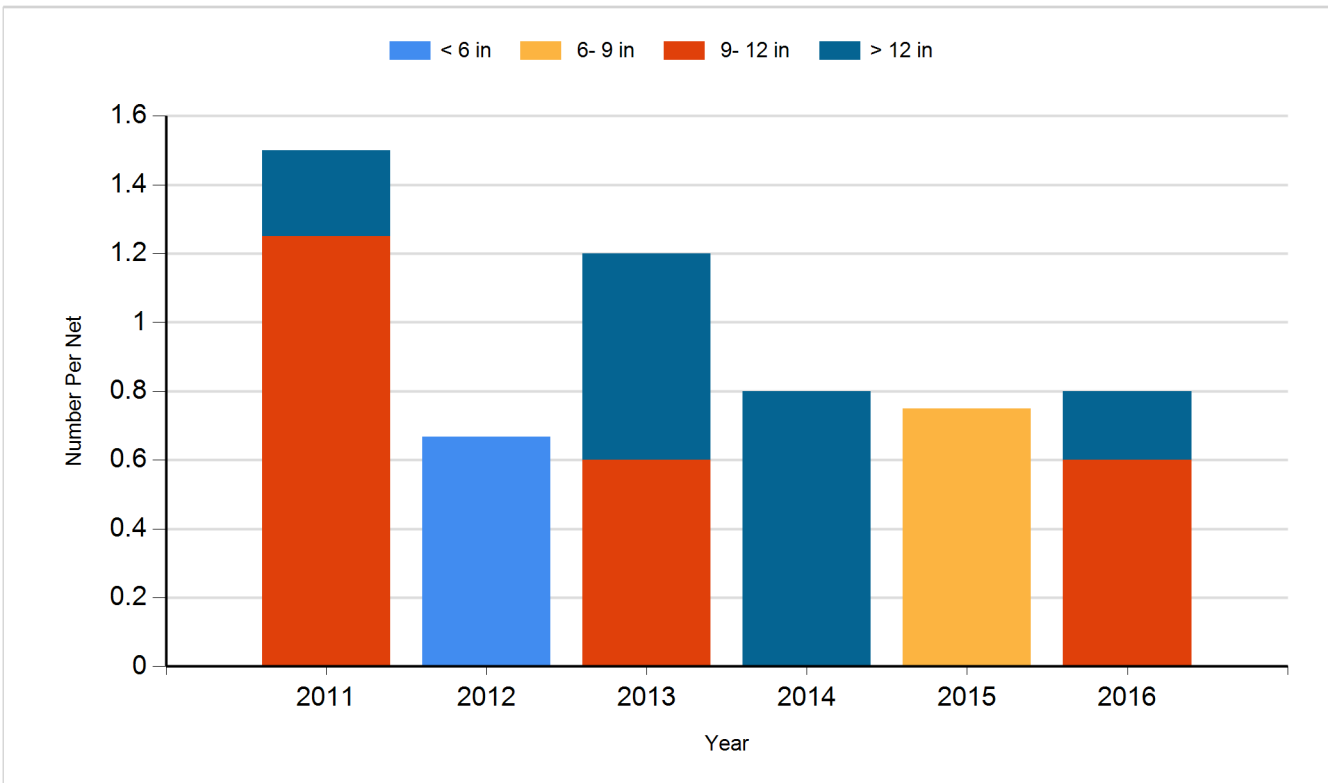
Species: Walleye  
Gear: std exp gill net



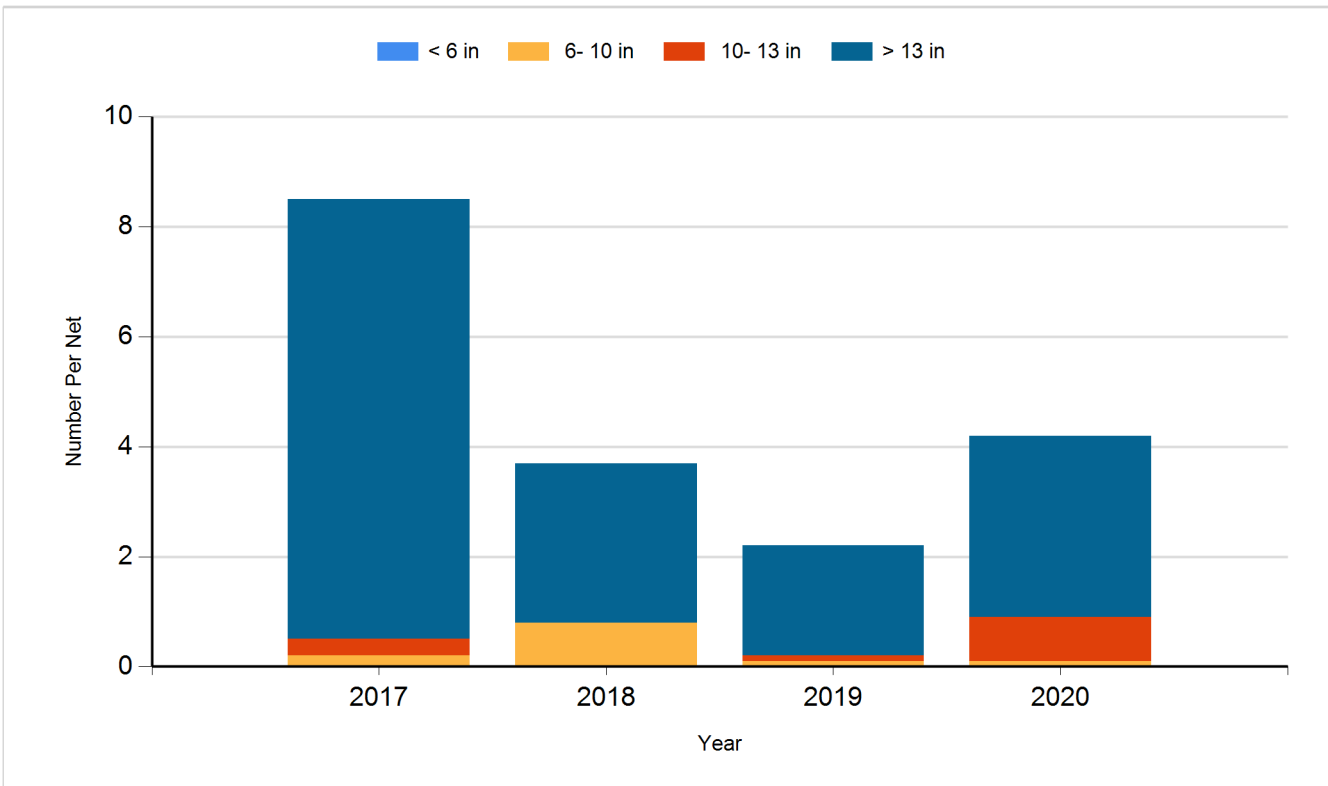
Species: White Bass  
Gear: AFS std gill net



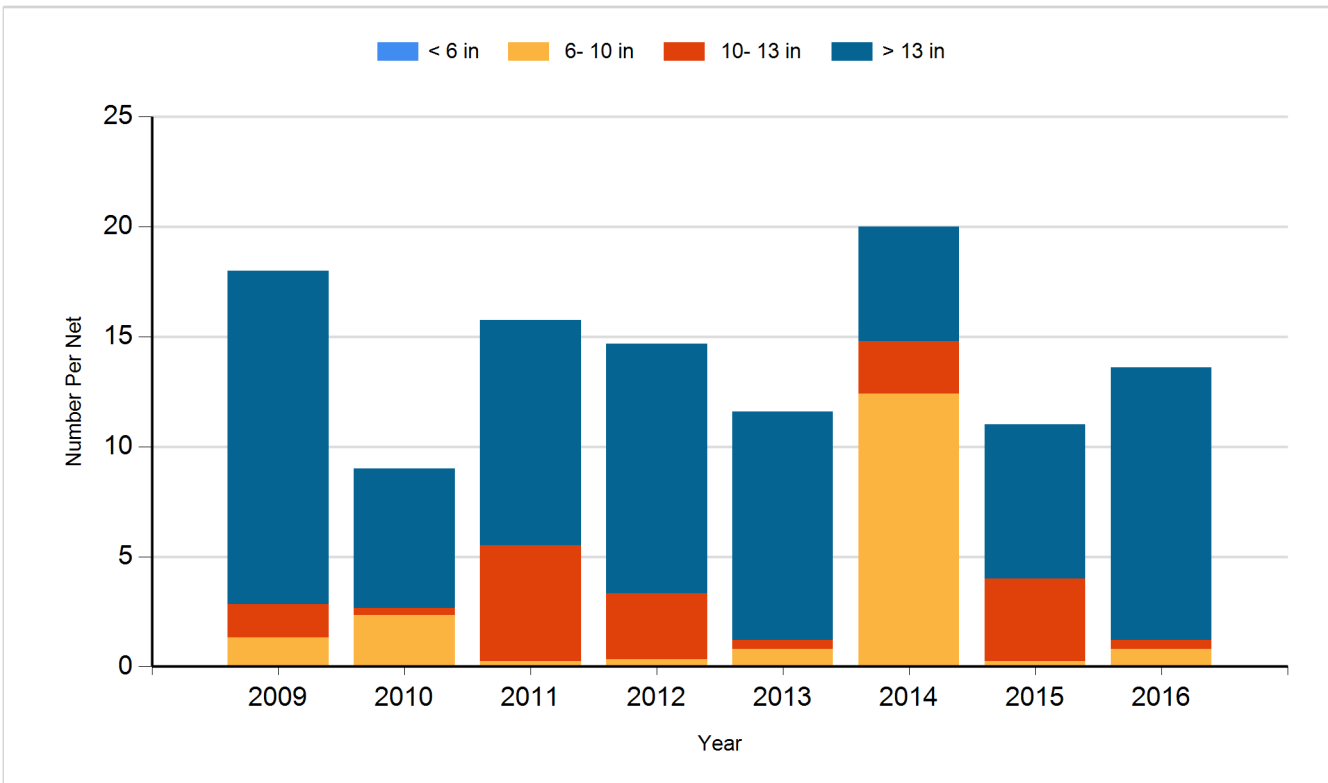
Species: White Bass  
Gear: std exp gill net



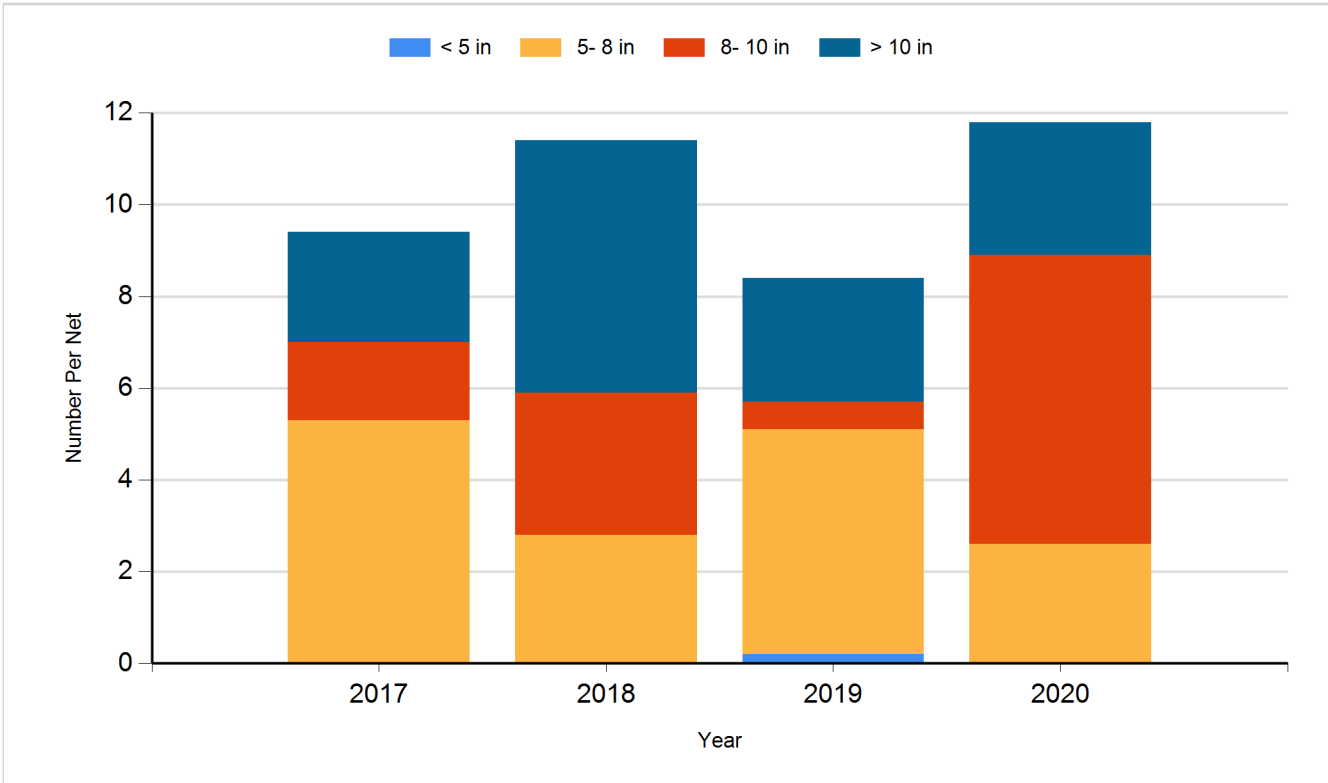
Species: White Sucker  
Gear: AFS std gill net



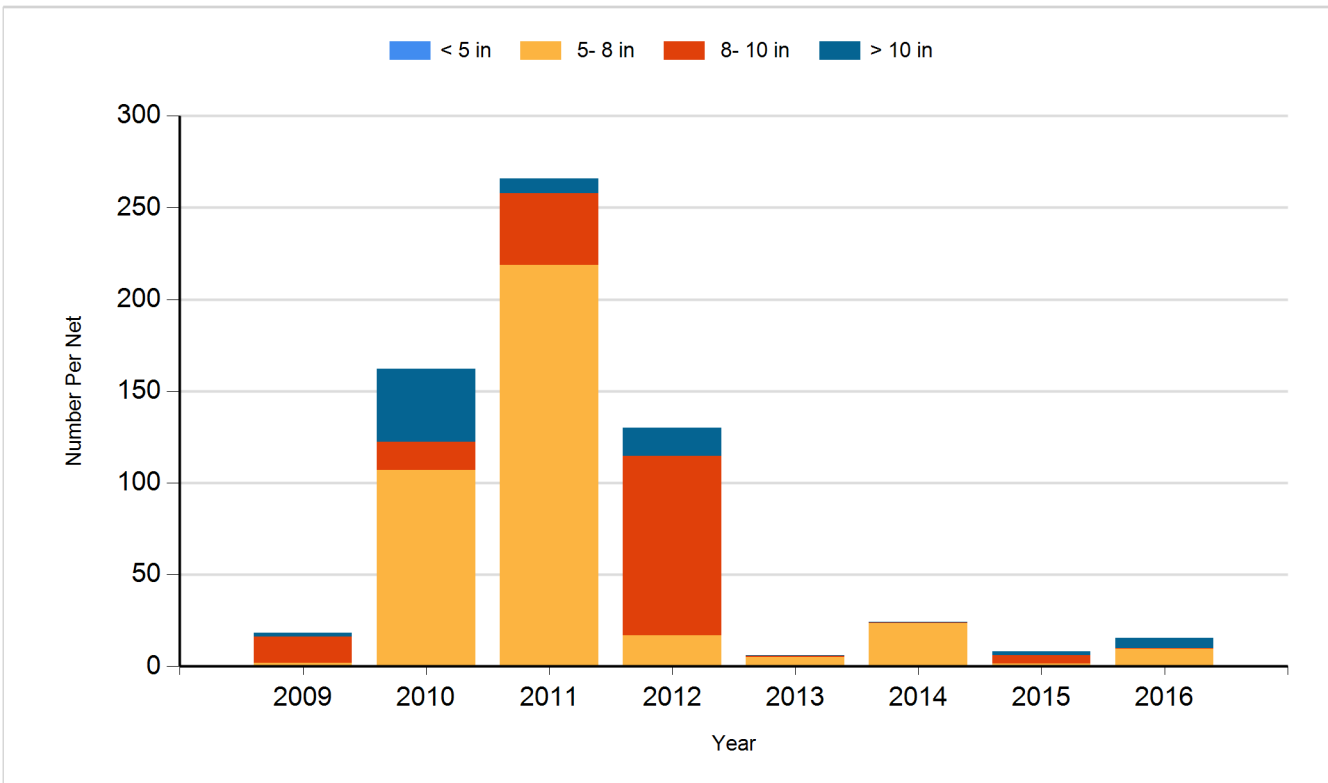
Species: White Sucker  
Gear: std exp gill net



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
2010	Walleye	Small Fingerling	280,320
2011	Northern Pike	Fry	35,200
2011	Walleye	Fry	70,000
2013	Walleye	Small Fingerling	280,150
2014	Walleye	Small Fingerling	196,200
2017	Walleye	Fingerling	195,515
2019	Walleye	Small Fingerling	196,265