

SOUTH DAKOTA STATEWIDE FISHERIES SURVEY

Clear, Marshall County

UJA-Lake-917-001

2023

Lake Information

Name:	Clear	Maximum Depth:	20 Feet
County:	Marshall	Mean Depth:	12 Feet
		OHWM Elevation:	1,824
Surface Area:	1,217 Acres	Outlet Elevation:	1,823

Surveys and Investigations

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

Gear	Date	Effort
AFS std gill net	Jun 20, 2023	4 net-nights
AFS std gill net	Jun 21, 2023	4 net-nights
AFS std gill net	Jun 22, 2023	4 net-nights
fall night EF-WAE	Oct 24, 2023	2400 seconds
frame net (std 3/4 in)	Jun 20, 2023	6 net-nights
frame net (std 3/4 in)	Jun 21, 2023	12 net-nights

Common Fish Species Present

Walleye

Smallmouth Bass

Northern Pike

Largemouth Bass

Yellow Perch

Bluegill

Black Crappie

Black Bullhead

White Sucker

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.
- **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	111	9.3	3.1	97		16	5	98	2
	Black Crappie	126	10.1	2.4	95	3	79	5	97	1
	Bluegill	141	11.8	6.6	81	5	14	4	110	1
	Common Carp	4	0.3	0.3	75		0		111	7
	Largemouth Bass	4	0.1	0.1	100		100		111	
	Northern Pike	21	1.7	0.6	60	18	10		86	2
	Smallmouth Bass	42	3.4	1.1	88		66	11	95	2
	Walleye	38	2.8	1.0	27	12	21	11	86	1
	White Sucker	6	0.5	0.3	100		100		105	4
	Yellow Perch	7	0.6	0.3	0		0		197	137
frame net (std 3/4 in)	Black Bullhead	203	11.3	4.1	98		49	5	90	1
	Black Crappie	29	1.6	0.6	55	14	38	14	103	4
	Bluegill	1198	66.6	17.6	73	2	6	1	107	1
	Largemouth Bass	1	0.0	0.0	0		0			
	Northern Pike	6	0.3	0.2	17		0		79	0
	Smallmouth Bass	28	1.4	0.4	73	14	65	15	85	3
	Walleye	8	0.2	0.1	33		0		94	6
	Yellow Perch	18	0.9	0.8	56	20	0		81	

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	
		2014	2015	2016	2017	2018	2019	2020	2021	2022	2023		
AFS std frame net	Black Bullhead			7.8	3.6								5.70
	Black Crappie			1.9	2.3								2.10
	Bluegill			15.2	19.9								17.55
	Common Carp			0.6	0.9								0.75
	Largemouth Bass			0.0	0.2								0.10
	Northern Pike			0.8	0.8								0.80
	Smallmouth Bass			0.1	0.3								0.20
	Walleye			0.0	0.2								0.10
	Yellow Perch			9.9	1.3								5.60
AFS std gill net	Black Bullhead			15.0	9.8	6.4	5.8		9.9	8.8	9.3		9.29
	Black Crappie			1.3	1.3	3.1	1.9		4.9	13.1	10.1		5.10
	Bluegill			2.0	1.5	0.8	3.8		5.8	13.0	11.8		5.53
	Channel Catfish			0.0	0.1	0.0	0.0		0.0	0.0	0.0		0.01
	Common Carp			0.1	0.1	0.2	0.1		0.1	0.2	0.3		0.16
	Largemouth Bass			0.1	0.1	0.1	0.3		0.3	0.3	0.1		0.19
	Northern Pike			2.2	3.5	1.2	2.2		3.1	2.9	1.7		2.40
	Smallmouth Bass			1.5	1.9	2.4	2.9		2.8	1.9	3.4		2.40
	Walleye			5.1	2.6	2.8	2.8		3.6	2.7	2.8		3.20
	White Sucker			0.8	2.3	0.3	0.2		0.6	1.6	0.5		0.90
	Yellow Perch			7.5	0.5	4.5	24.9		1.5	2.1	0.6		5.94
boat shocker (night)	Walleye*	3.0	17.0	1.5									7.17
boat shocker (night, DC)	Smallmouth Bass		28.0										28.00
fall night EF-WAE*	Walleye					1.5	40.0				1.5		14.33
frame net (std 3/4 in)	Black Bullhead	26.4				9.1	3.5		4.1	7.8	11.3		10.37
	Black Crappie	2.4				3.6	1.2		2.8	1.2	1.6		2.13
	Bluegill	22.9				67.8	95.3		51.3	45.8	66.6		58.28
	Common Carp	0.0				0.1	0.0		0.1	0.0	0.0		0.03
	Largemouth Bass	0.0				0.1	0.1		0.2	0.0	0.0		0.07
	Northern Pike	1.1				0.6	0.7		1.9	0.9	0.3		0.92
	Smallmouth Bass	1.1				0.2	0.8		1.8	0.9	1.4		1.03
	Walleye	0.5				0.0	0.5		0.2	0.3	0.2		0.28
	White Sucker	0.0				0.1	0.0		0.2	0.2	0.0		0.08

		CPUE										
Gear	Species	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	Avg
frame net (std 3/4 in)	Yellow Perch	1.8				6.0	2.1		0.4	0.9	0.9	2.02
spring day EF*	Smallmouth Bass									6.0		6.00
spring night EF-LMB*	Largemouth Bass							88.8				88.80
std exp gill net	Bigmouth Buffalo	0.2	0.0									0.10
	Black Bullhead	21.7	10.3									16.00
	Black Crappie	11.7	1.5									6.60
	Bluegill	2.5	1.5									2.00
	Northern Pike	6.0	5.5									5.75
	Smallmouth Bass	3.3	3.0									3.15
	Walleye	9.2	10.8									10.00
	White Sucker	2.2	1.3									1.75
	Yellow Perch	25.5	7.0									16.25

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											
			2014	2015	2016	2017	2018	2019	2020	2021	2022	2023		
AFS std frame net	Black Bullhead	PSD			96	100								
		PSD-P			84	88								
		Wr			102	88								
	Black Crappie	PSD			82	10								
		PSD-P			73	10								
		Wr			95	108								
	Bluegill	PSD			25	8								
		PSD-P			3	2								
		Wr			108	104								
	Common Carp	PSD			100	100								
		PSD-P			90	100								
		Wr			114									
	Largemouth Bass	PSD			0	100								
		PSD-P			0	100								
		Wr				111								
	Northern Pike	PSD			85	93								
		PSD-P			15	20								
		Wr			81	81								
	Smallmouth Bass	PSD			100	60								
		PSD-P			100	60								
		Wr			70	96								
Walleye	PSD				100									
	PSD-P				100									
	Wr				90									
Yellow Perch	PSD			7	4									
	PSD-P			0	4									
	Wr			85	88									
AFS std gill net	Black Bullhead	PSD			97	100	82	64		98	67	97		
		PSD-P			78	90	81	14		27	43	16		
		Wr			102	95	92	103		91	94	98		
	Black Crappie	PSD			67	31	51	39		98	100	95		
		PSD-P			67	31	24	26		12	29	79		
		Wr			100	108	102	106		100	97	97		

Gear	Species	Index	Year									
			2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
AFS std gill net	Bluegill	PSD			42	39	0	7		91	97	81
		PSD-P			13	22	0	0		1	4	14
		Wr			111	111	108	110		107	104	110
	Common Carp	PSD			100	100	50	100		100	50	75
		PSD-P			0	100	50	100		0	50	0
		Wr			112	97	106	82		105	194	111
	Largemouth Bass	PSD			100	0	100	67		67	100	100
		PSD-P			0	0	0	33		67	33	100
		Wr			115	129	125	121		120	118	111
	Northern Pike	PSD			69	76	71	92		86	77	60
		PSD-P			0	5	7	8		5	43	10
		Wr			90	85	91	90		84	86	86
	Smallmouth Bass	PSD			89	100	83	89		71	78	88
		PSD-P			61	91	66	86		50	57	66
		Wr			104	95	103	93		94	89	95
	Walleye	PSD			70	84	73	82		67	41	27
		PSD-P			11	16	24	33		49	41	21
		Wr			93	87	91	90		83	86	86
	White Sucker	PSD			100	100	100	100		100	100	100
		PSD-P			100	100	100	100		100	100	100
		Wr			106	102	96	94		100	110	105
Yellow Perch	PSD			9	17	4	1		0	16	0	
	PSD-P			2	0	0	0		0	0	0	
	Wr			94	90	90	102		91	88	197	
boat shocker (night)	Walleye	PSD	0	0	0							
		PSD-P	0	0	0							
		Wr	94	92	80							
boat shocker (night, DC)	Smallmouth Bass	PSD		71								
		PSD-P		50								
		Wr		102								
frame net (std 3/4 in)	Black Bullhead	PSD	55				86	87		96	89	98
		PSD-P	12				81	59		61	52	49
		Wr	95				85	86		88	90	90
	Black Crappie	PSD	100				53	33		100	100	55
		PSD-P	100				24	14		6	32	38
		Wr	100				95	105		97	97	103

Gear	Species	Index	Year										
			2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	
frame net (std 3/4 in)	Bluegill	PSD	48					20	23		77	81	73
		PSD-P	26				4	4		5	4	6	
		Wr	111				99	103		105	105	107	
	Common Carp	PSD					100				0		
		PSD-P					100				0		
		Wr									116		
	Largemouth Bass	PSD	0				100	0			67		0
		PSD-P	0				50	0			0		0
		Wr					112	105			103		
	Northern Pike	PSD	50				80	67			29	25	17
		PSD-P	0				20	8			0	0	0
		Wr	87				78	86			75	80	79
	Smallmouth Bass	PSD	37				67	87			66	53	73
		PSD-P	26				67	73			50	53	65
		Wr	101				91	95			86	91	85
	Walleye	PSD	22				0	33			50	40	33
		PSD-P	0				0	0			25	20	0
		Wr	91					86			76	87	94
	White Sucker	PSD					100				100	100	
		PSD-P					100				100	100	
		Wr					103				93	117	
Yellow Perch	PSD	41				5	8			25	41	56	
	PSD-P	0				0	0			0	0	0	
	Wr	91				84	88			100	86	81	
spring day EF	Smallmouth Bass	PSD										67	
		PSD-P										33	
spring night EF-LMB	Largemouth Bass	PSD								61			
		PSD-P								32			
		Wr								114			
std exp gill net	Black Bullhead	PSD	58	97									
		PSD-P	4	15									
		Wr	100	99									
	Black Crappie	PSD	97	100									
		PSD-P	96	100									
		Wr	101	100									
	Bluegill	PSD	67	44									

Gear	Species	Index	Year										
			2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	
std exp gill net	Bluegill	PSD-P	47	22									
		Wr	110	113									
	Northern Pike	PSD	50	55									
		PSD-P	8	3									
		Wr	87	84									
	Smallmouth Bass	PSD	85	89									
		PSD-P	35	72									
		Wr	102	97									
	Walleye	PSD	15	37									
		PSD-P	2	5									
		Wr	86	88									
	White Sucker	PSD	77	100									
		PSD-P	77	63									
		Wr	101	99									
	Yellow Perch	PSD	36	24									
		PSD-P	2	0									
		Wr	92	93									

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+
2021	51			230 (21)	235 (28)		266 (2)				

Species: Bluegill

Mean Length (expanded sample number) at capture by age											
Year	N	1	2	3	4	5	6	7	8	9	10+
2023	1197		103 (122)	129 (198)	164 (12)	174 (203)	181 (505)	192 (158)			
2022	825		101 (34)	118 (76)	155 (129)	176 (387)	190 (157)	190 (37)	213 (4)	223 (1)	
2021	905		106 (45)	135 (96)	166 (433)	184 (289)	193 (35)	216 (4)	217 (5)	222 (1)	245 (1)
2019	1714		93 (374)	119 (823)	151 (346)	181 (92)	204 (56)	205 (14)		224 (9)	
2018	1084		101 (555)	138 (395)	162 (48)	192 (66)	216 (15)	218 (5)			
2017	369	95 (154)	111 (165)	144 (28)	178 (12)	198 (9)	213 (3)				
2016	611	61 (362)	97 (98)	138 (108)	177 (27)	191 (12)	227 (6)				
2014	413	91 (84)	109 (80)	142 (45)	189 (135)	195 (59)	230 (10)	255 (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+
2020	41		209 (16)	245 (6)	264 (4)	326 (16)					

Species: Smallmouth Bass

Mean Length (expanded sample number) at capture by age											
Year	N	1	2	3	4	5	6	7	8	9	10+
2015	28			218 (4)	280 (8)	374 (4)	358 (3)	412 (7)	461 (1)		461 (1)

Species: Walleye

Mean Length (expanded sample number) at capture by age											
Year	N	1	2	3	4	5	6	7	8	9	10+
2023	37	225 (2)	225 (2)	285 (1)	332 (23)		427 (2)				637 (7)
2022	32			284 (15)		334 (4)		555 (1)		604 (3)	632 (9)
2021	51	271 (1)	240 (13)	311 (3)	393 (11)		559 (2)	511 (3)	556 (1)	551 (2)	625 (15)

Mean Length (expanded sample number) at capture by age

Year	N	1	2	3	4	5	6	7	8	9	10+
2019	34		291 (7)		425 (6)	473 (2)	462 (4)		523 (9)	627 (2)	550 (4)
2018	33		325 (1)	354 (10)	406 (4)	434 (5)	522 (1)	506 (10)		668 (1)	656 (1)
2017	31		301 (2)	370 (4)	420 (6)	435 (1)	498 (15)	582 (1)	493 (1)		582 (1)
2016	61		277 (2)	339 (16)	384 (4)	456 (36)	505 (1)			639 (1)	693 (1)
2015	70	149 (1)	241 (5)	324 (7)	373 (52)	420 (1)	481 (3)	575 (1)			
2014	60	187 (5)		345 (51)	394 (1)	461 (2)				589 (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+
2023	7		171 (1)		145 (1)	172 (2)	181 (3)				
2022	25				169 (10)	184 (14)	185 (1)	220 (1)			
2021	18			151 (4)	166 (13)	148 (1)					
2019	315		138 (262)	157 (39)	182 (14)						
2018	55		149 (5)	157 (38)	160 (9)	187 (2)			243 (1)		
2017	6		142 (1)	151 (2)	165 (1)	187 (1)	230 (1)				
2016	90		134 (2)	153 (69)	178 (11)	215 (1)	235 (6)	235 (1)			
2015	114	93 (3)	115 (72)	151 (27)		210 (11)	237 (1)				
2014	233	98 (13)	125 (101)	159 (14)	192 (53)	208 (28)	230 (18)	221 (7)			

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).

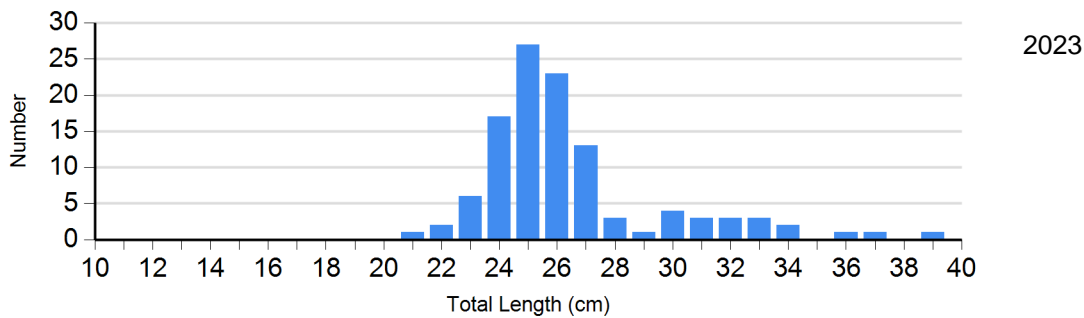
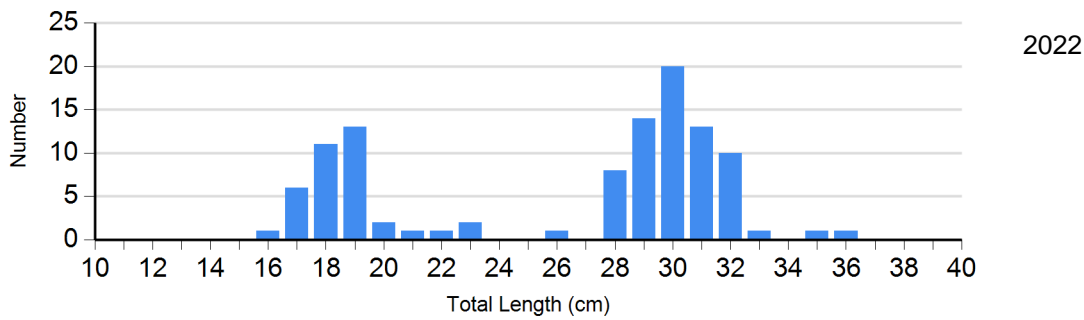
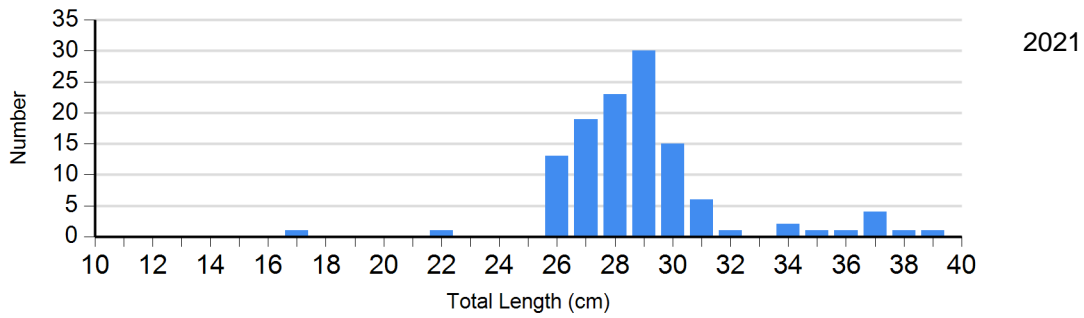
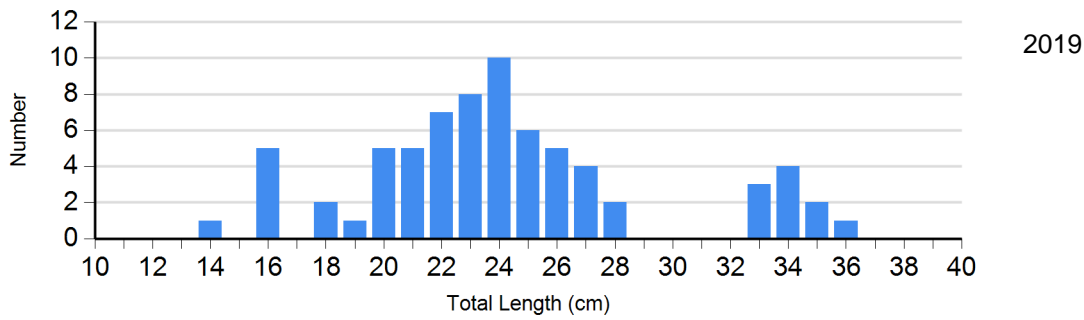
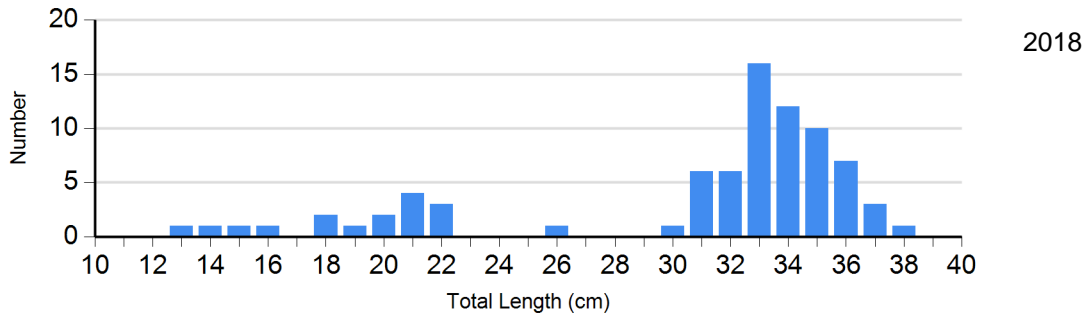
Species	Year	Length Groups							
		S-Q		Q-P		P-M		M	
		N	Wr (SE)	N	Wr (SE)	N	Wr (SE)	N	Wr (SE)
Black Bullhead Gill Net	2019	25	105 (1.8)	35	106 (1.4)	10	90 (4.1)	0	
	2021	2	92 (1.0)	85	94 (1.1)	30	85 (3.2)	2	71 (7.9)
	2022	35	96 (5.2)	25	96 (2.4)	46	92 (1.3)	0	
	2023	3	108 (7.7)	90	98 (1.1)	17	96 (3.3)	1	31
Black Crappie Frame Net	2019	14	106 (2.8)	4	109 (2.4)	1	87	2	95 (1.9)
	2021	0		48	98 (0.9)	3	93 (2.7)	0	
	2022	0		15	97 (1.2)	6	94 (1.6)	1	
	2023	13	115 (5.0)	5	94 (3.5)	11	96 (3.3)	0	
Bluegill Frame Net	2019	1326	101 (0.6)	321	106 (1.0)	68	107 (1.6)	0	
	2021	210	105 (0.5)	672	105 (0.7)	42	96 (0.6)	0	
	2022	159	102 (0.6)	632	105 (0.5)	34	103 (1.0)	0	
	2023	318	112 (0.6)	814	104 (0.4)	66	98 (1.2)	0	
Common Carp Gill Net	2019	0		0		0		1	82
	2021	0		1	105	0		0	
	2022	1	194	0		0		1	
	2023	1	105	3	113 (6.8)	0		0	
Largemouth Bass Electro Fishing	2020	29	115 (1.1)	21	114 (1.3)	24	113 (1.6)	0	
Northern Pike Gill Net	2019	2	91 (1.4)	22	91 (1.3)	2	88 (2.8)	0	
	2021	5	80 (1.9)	30	84 (1.2)	2	85	0	
	2022	8	81 (3.6)	12	83 (1.8)	14	91 (1.9)	1	97
	2023	8	90 (0.8)	10	82 (2.0)	2	86 (0.3)	0	
Walleye Gill Net	2019	6	87 (2.6)	16	90 (1.2)	10	90 (2.3)	1	96
	2021	14	83 (1.4)	8	81 (1.9)	12	82 (2.0)	9	85 (1.4)

Species	Year	Length Groups							
		S-Q		Q-P		P-M		M	
		N	Wr (SE)	N	Wr (SE)	N	Wr (SE)	N	Wr (SE)
Walleye Gill Net	2022	19	85 (1.1)	0		6	87 (2.2)	7	89 (2.5)
	2023	24	88 (1.2)	2	82 (2.3)	2	85 (4.2)	5	80 (2.7)
White Sucker Gill Net	2019	0		0		0		2	94 (4.4)
	2021	0		0		1	98	6	100 (2.9)
	2022	0		0		6	111 (4.0)	13	109 (2.5)
	2023	0		0		1	108	5	105 (3.5)
Yellow Perch Gill Net	2019	297	103 (0.6)	2	85	0		0	
	2021	18	91 (1.4)	0		0		0	
	2022	21	89 (1.1)	4	83 (2.5)	0		0	
	2023	7	197 (107.2)	0		0		0	

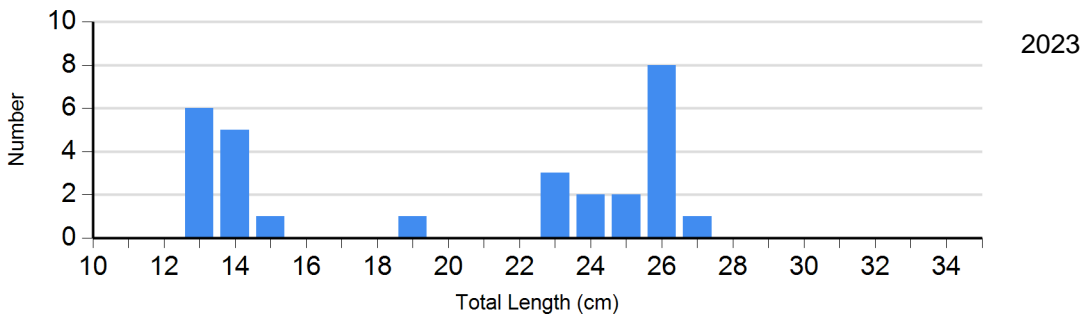
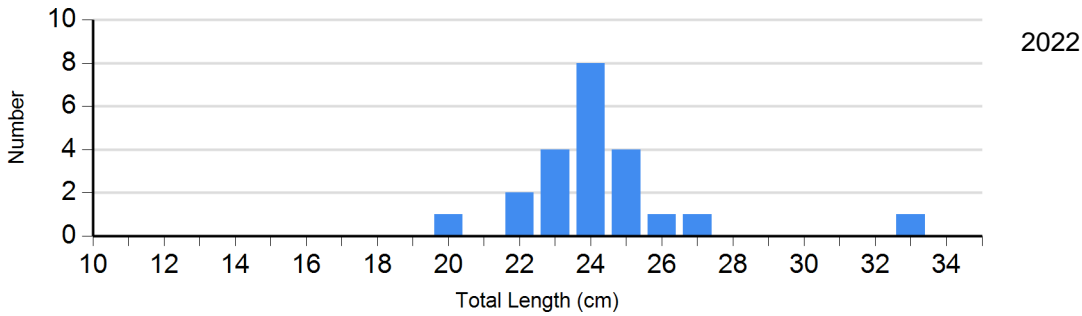
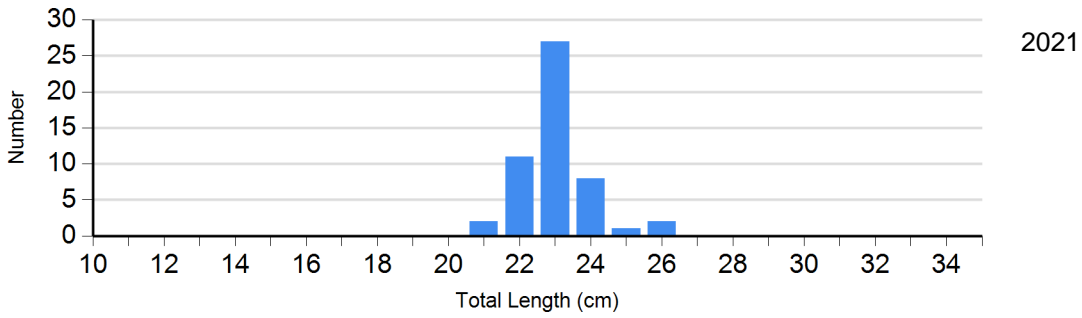
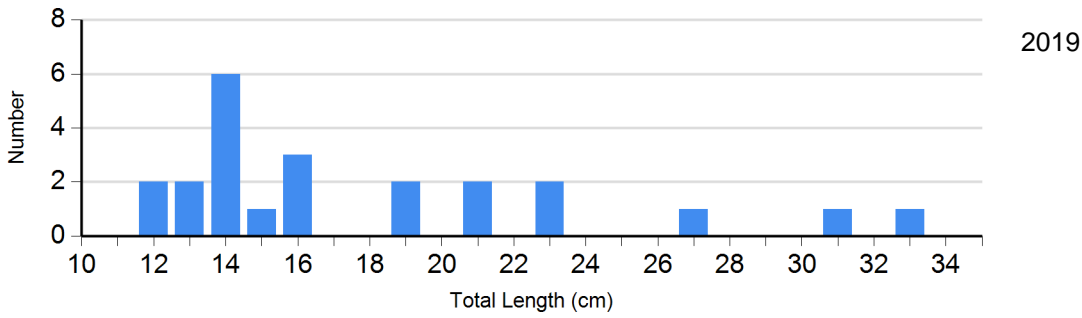
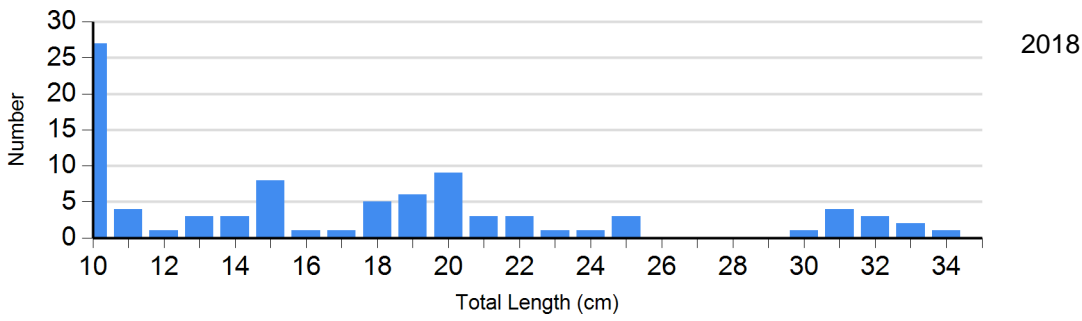
Length Frequency Distribution

Length frequency histogram of species sampled by year.

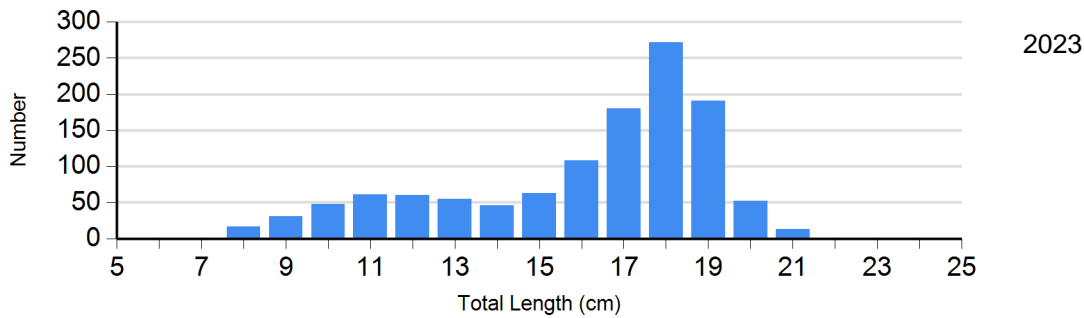
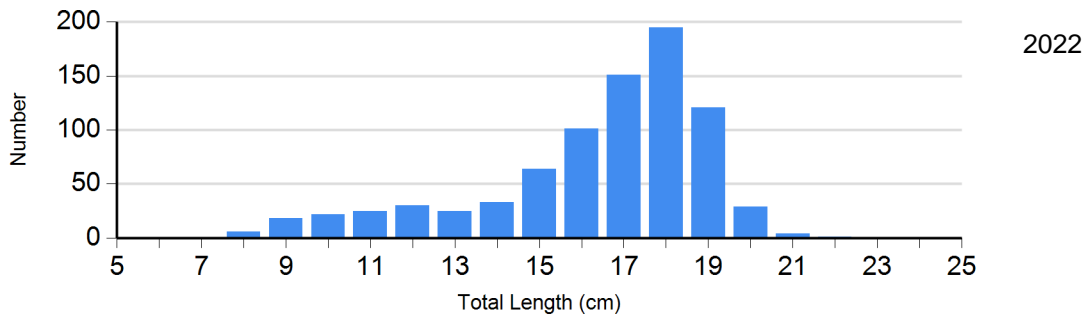
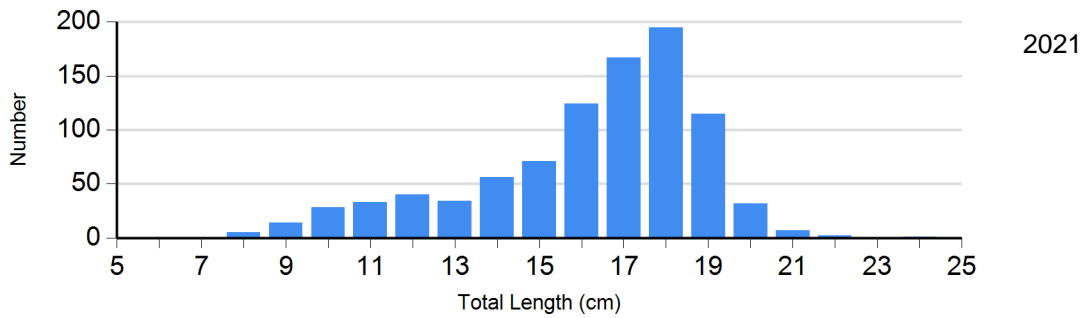
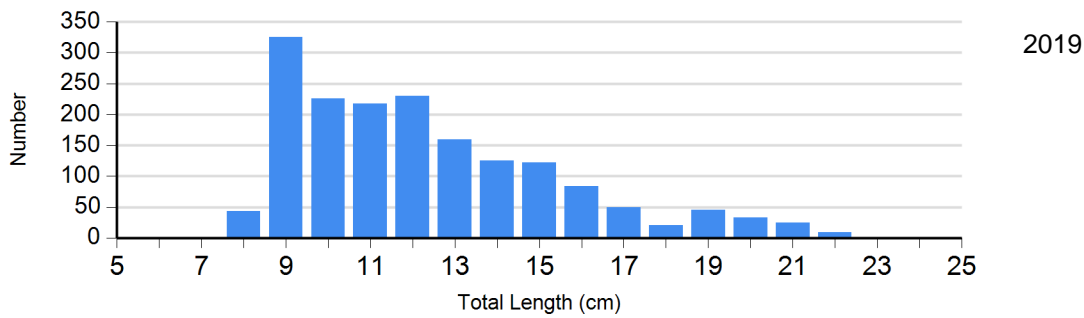
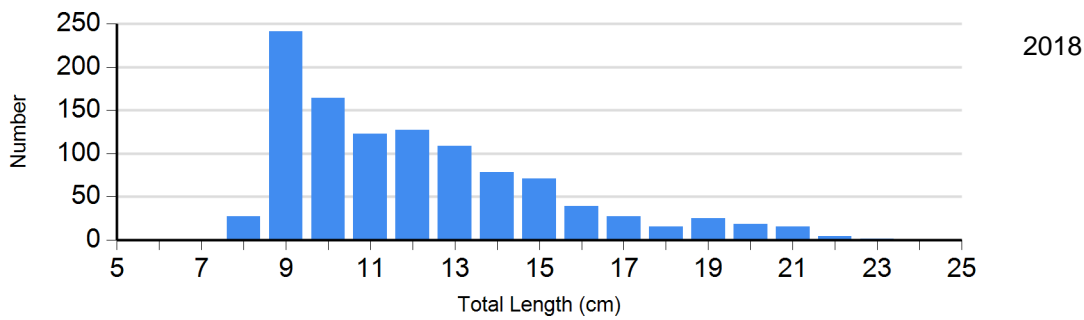
Species: Black Bullhead
Gear: AFS std gill net



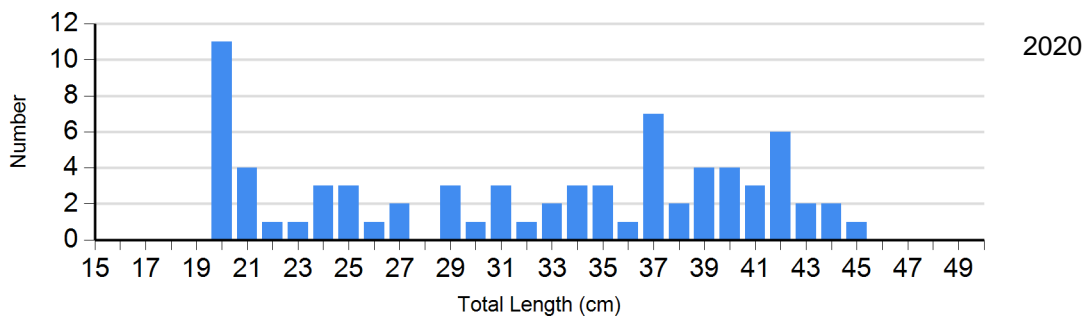
Species: Black Crappie
Gear: frame net (std 3/4 in)



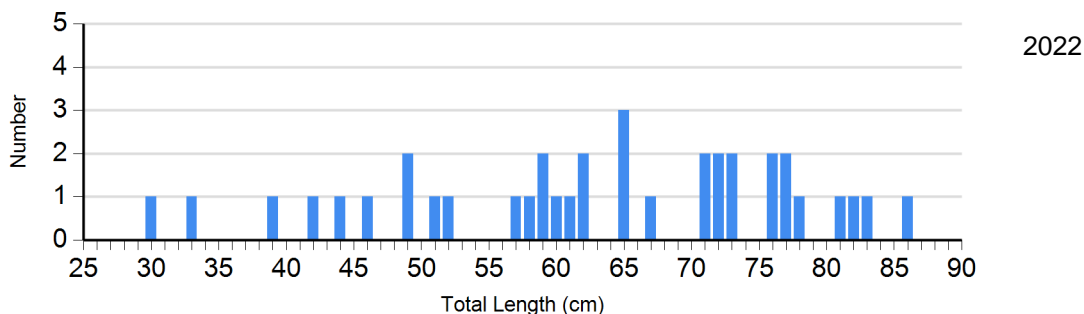
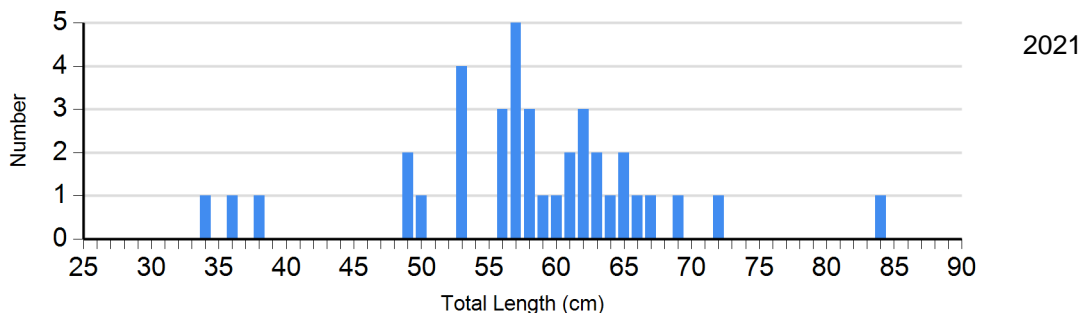
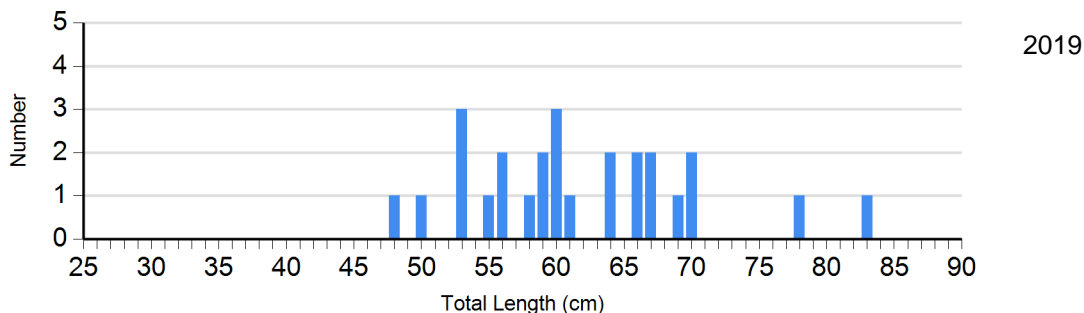
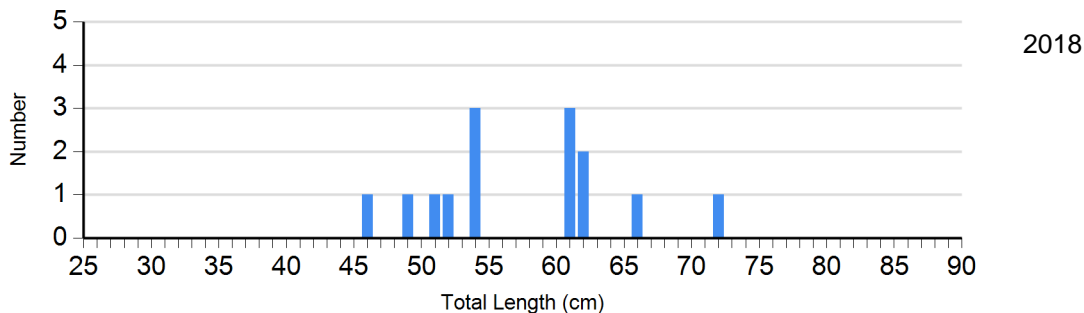
Species: Bluegill
Gear: frame net (std 3/4 in)

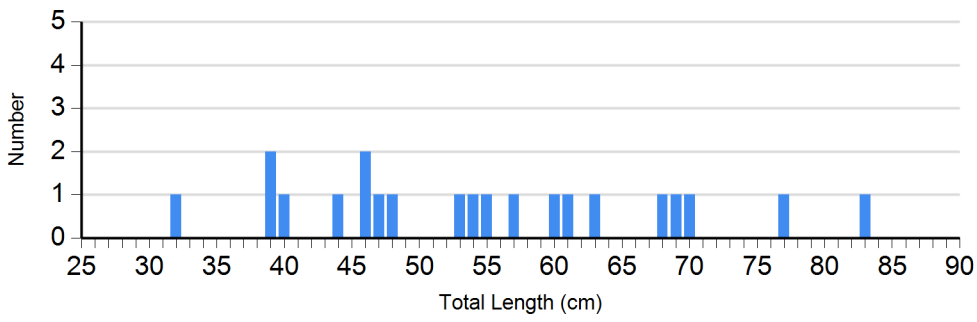


Species: Largemouth Bass
Gear: spring night EF-LMB

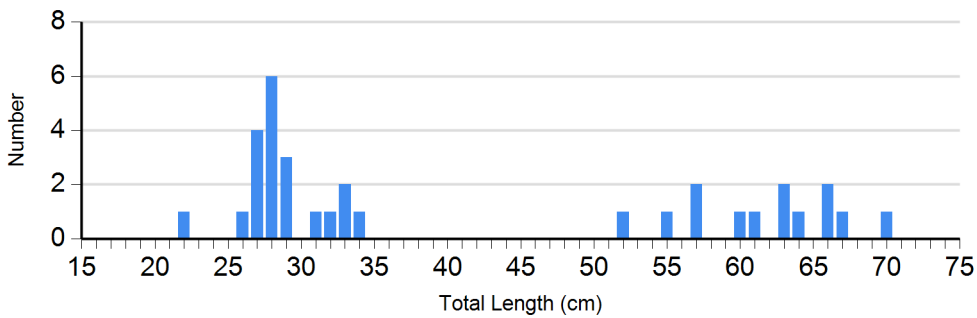
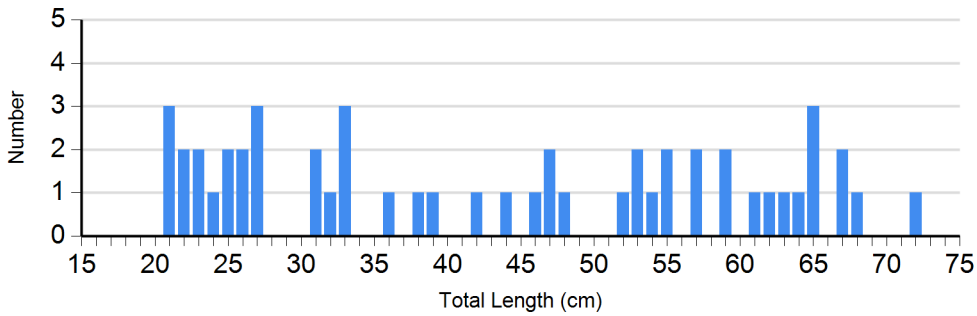
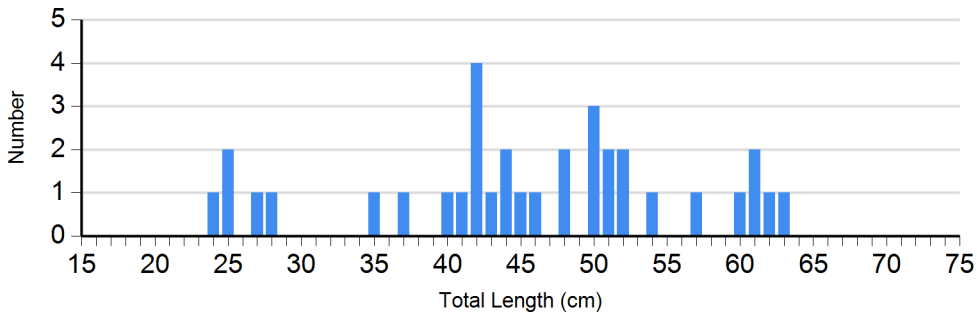
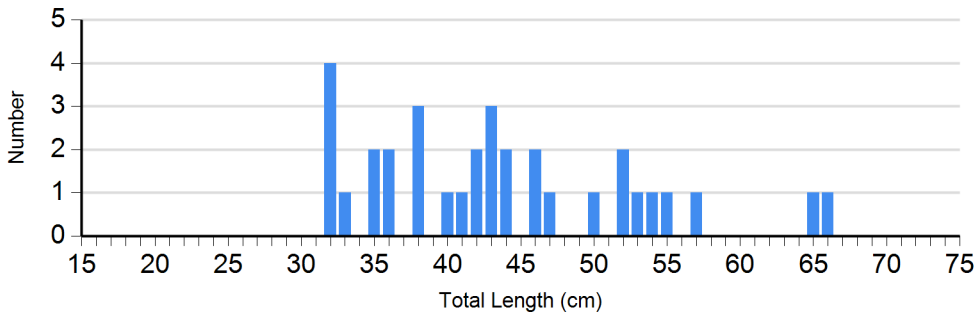


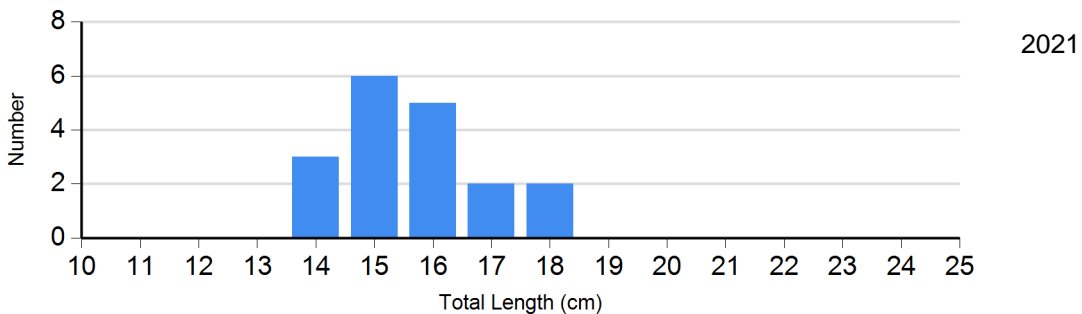
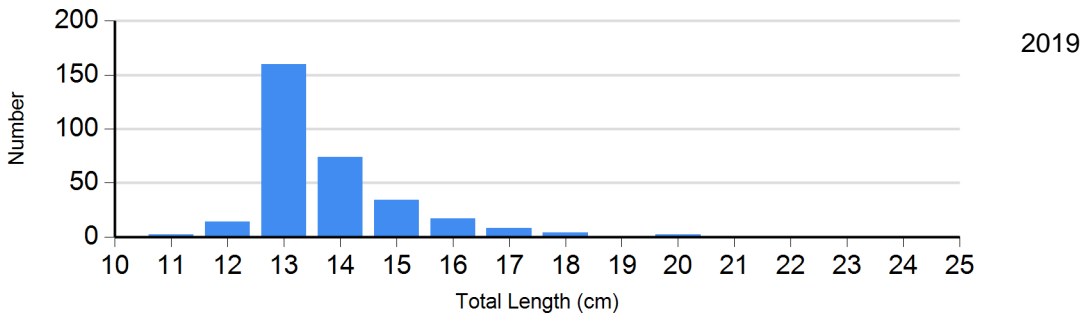
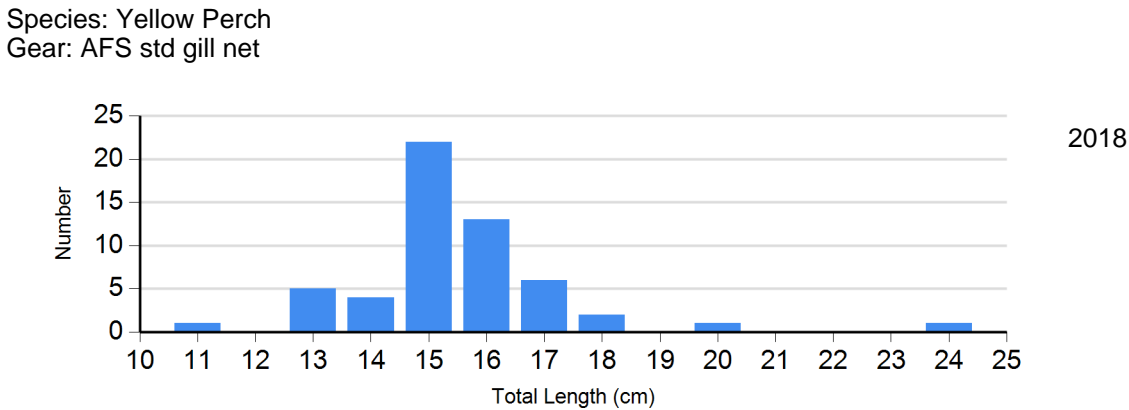
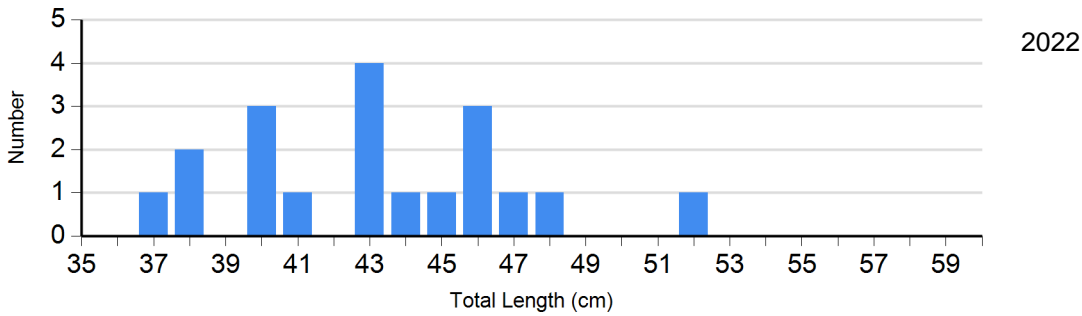
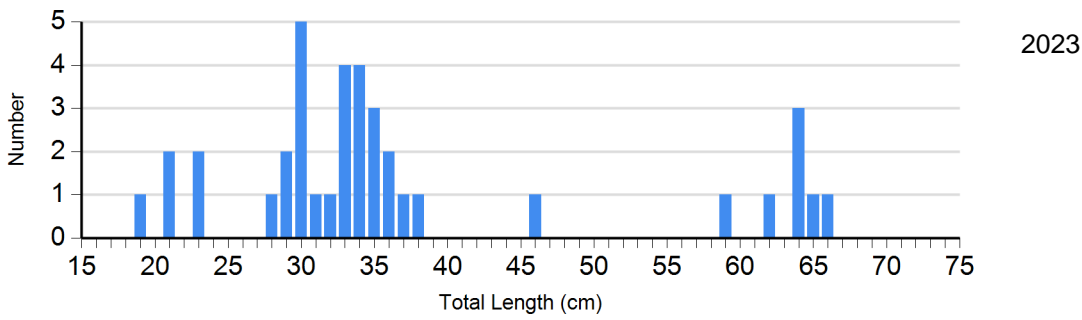
Species: Northern Pike
Gear: AFS std gill net

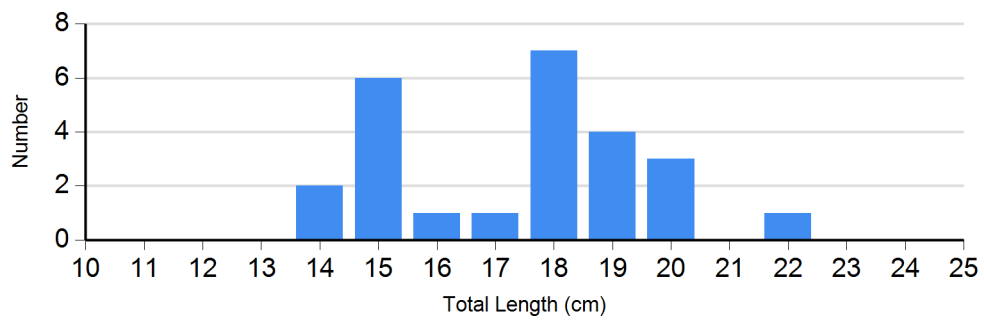




Species: Walleye
Gear: AFS std gill net





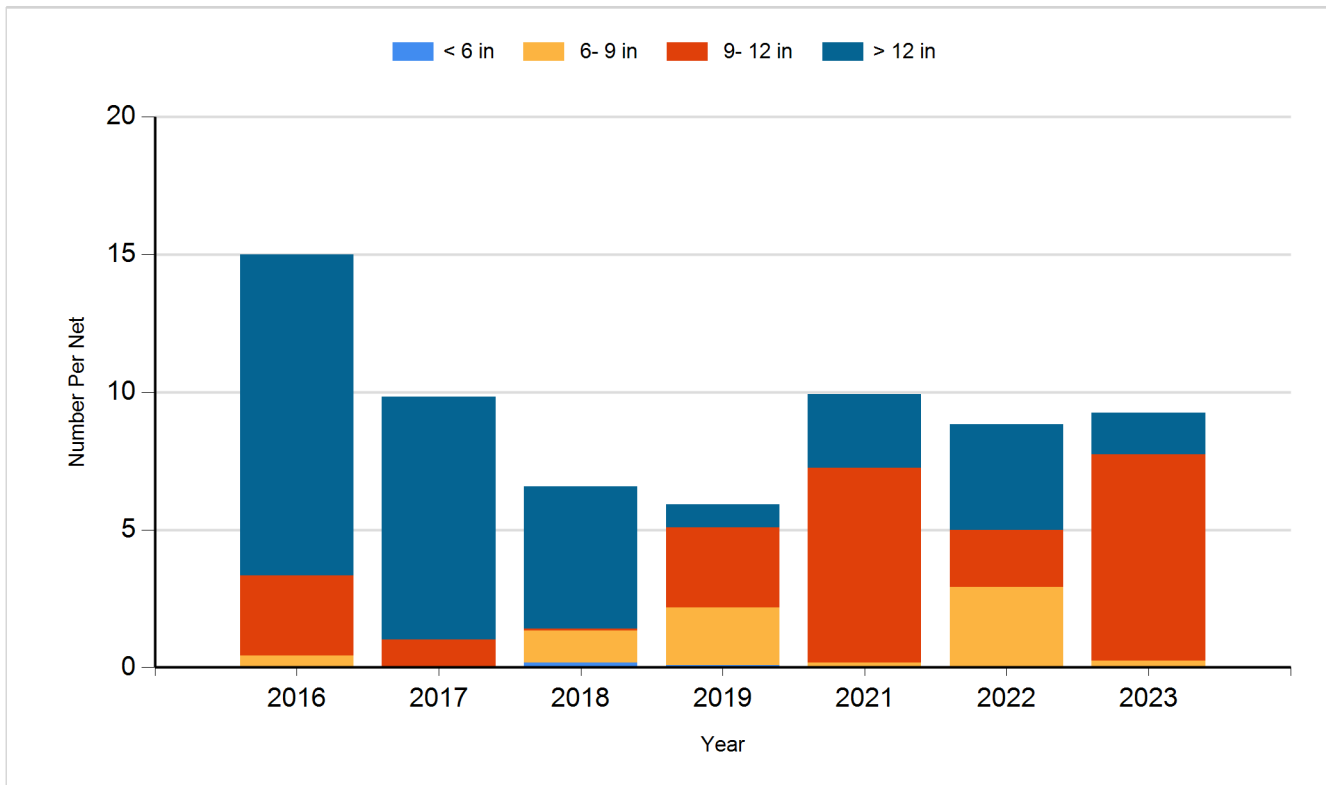


2022

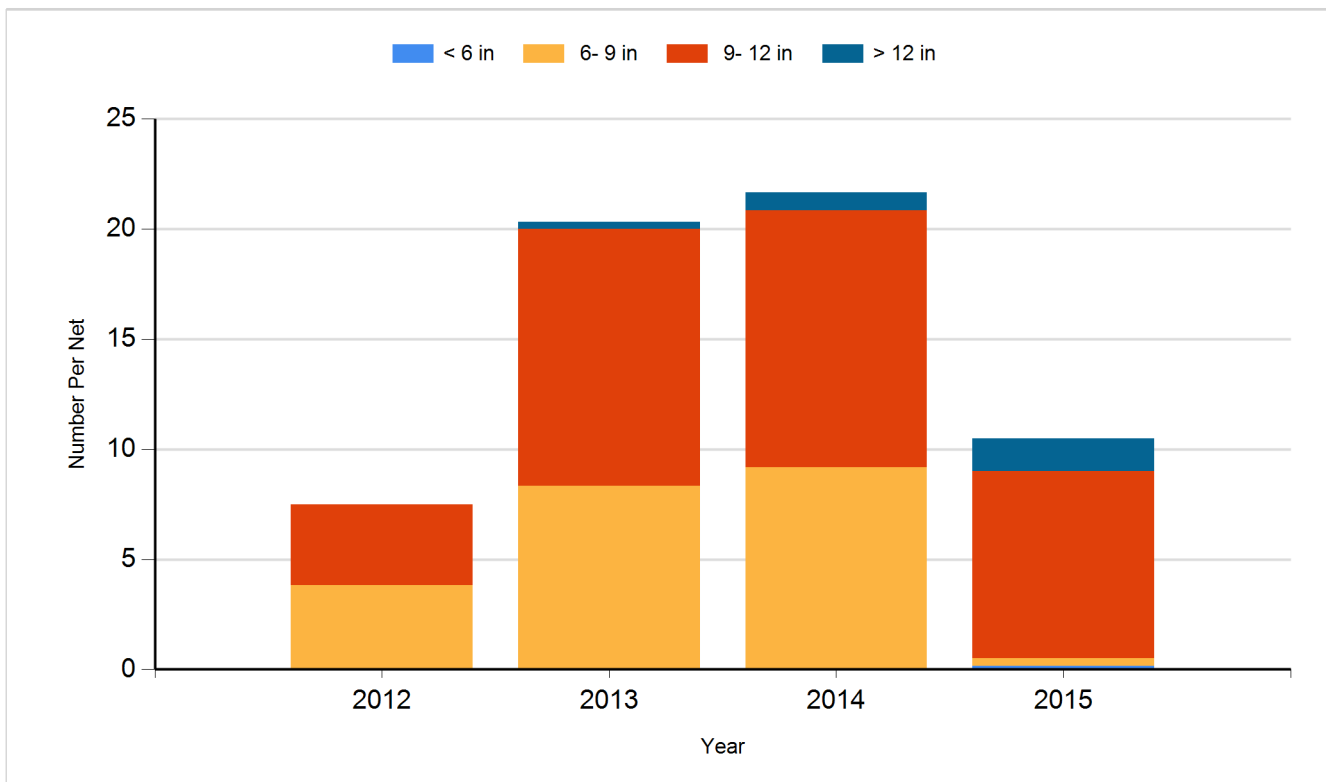
Historic Fish Sizes and Relative Abundance

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

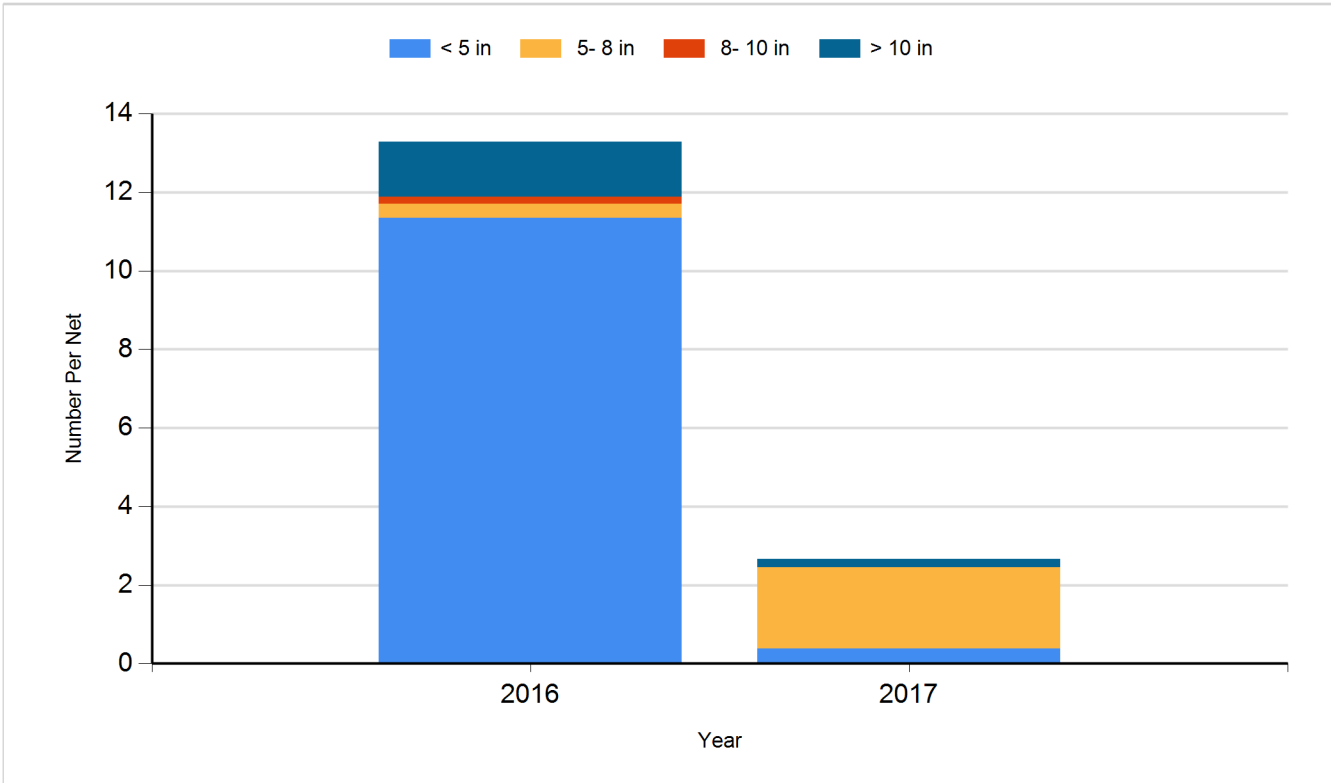
Species: Black Bullhead
Gear: AFS std gill net



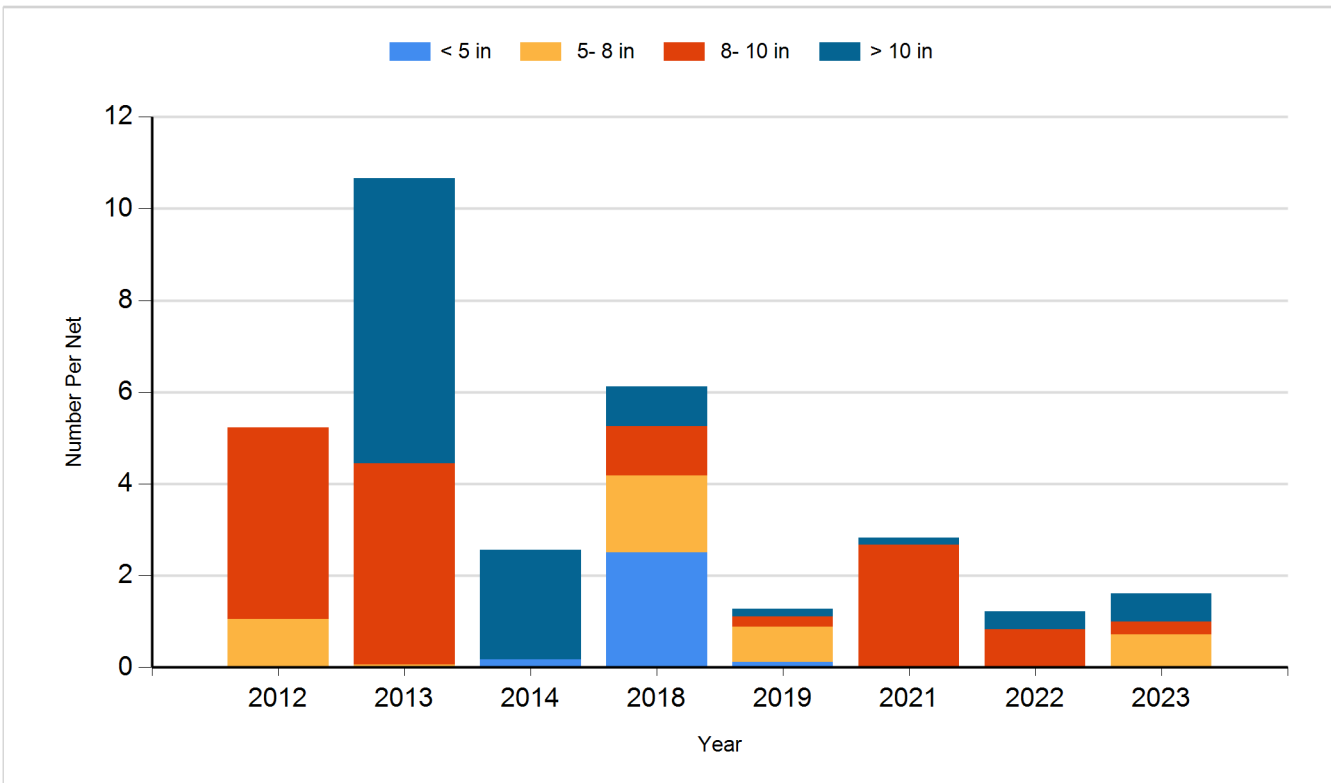
Species: Black Bullhead
Gear: std exp gill net



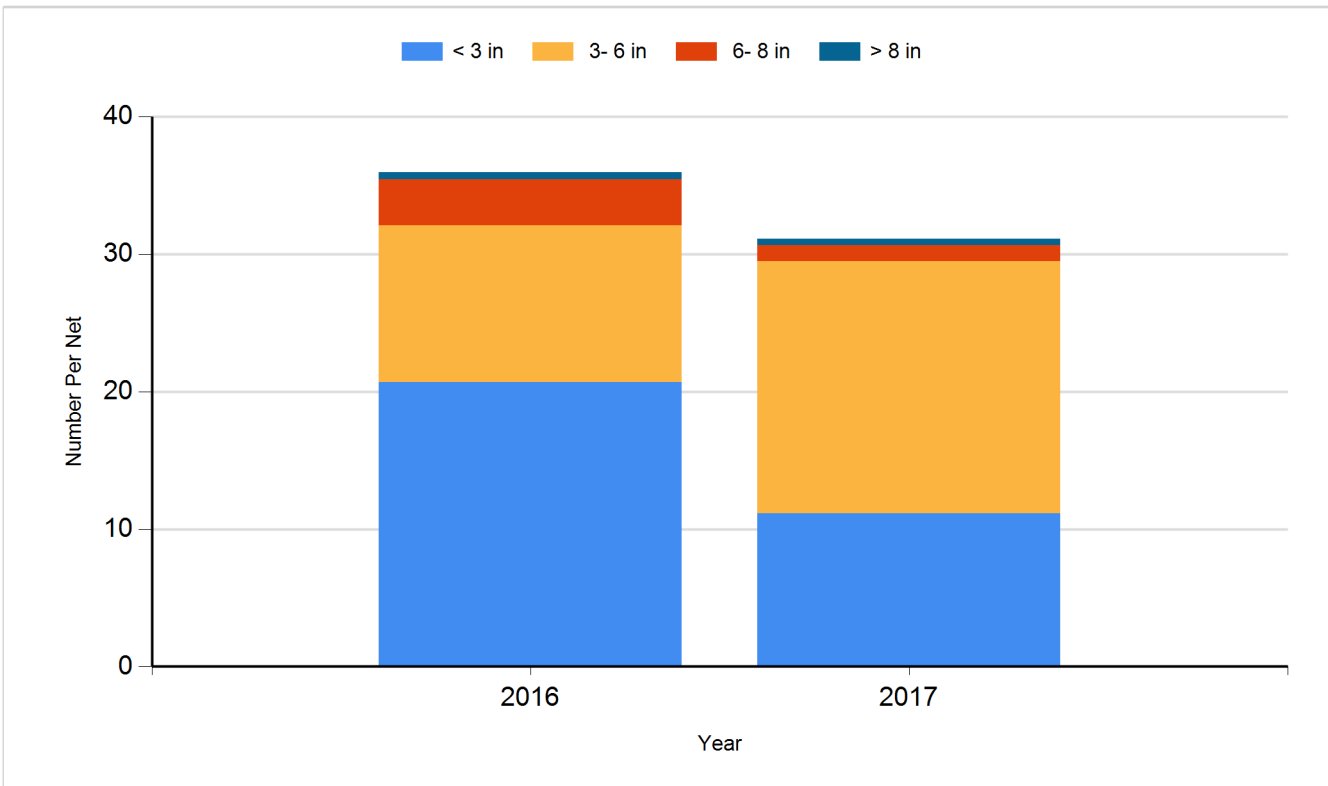
Species: Black Crappie
Gear: AFS std frame net



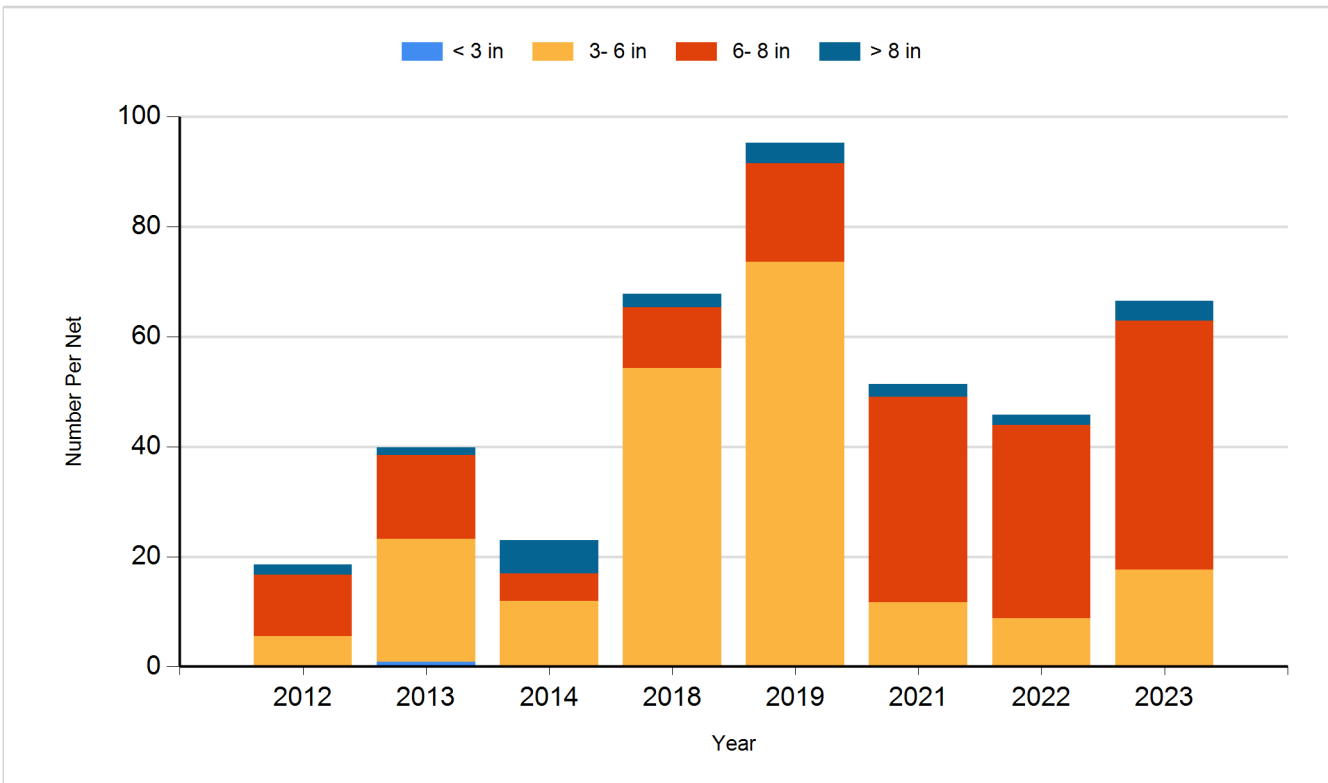
Species: Black Crappie
Gear: frame net (std 3/4 in)



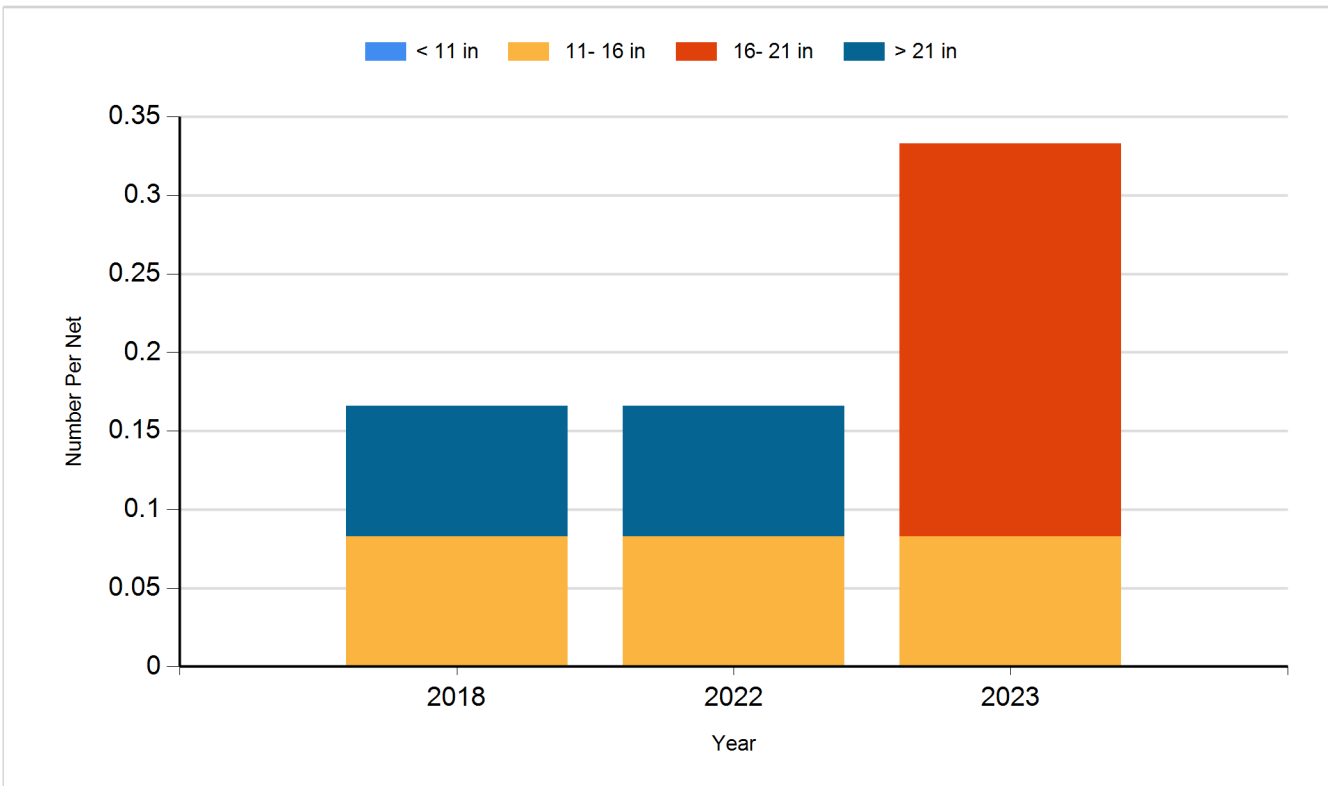
Species: Bluegill
Gear: AFS std frame net



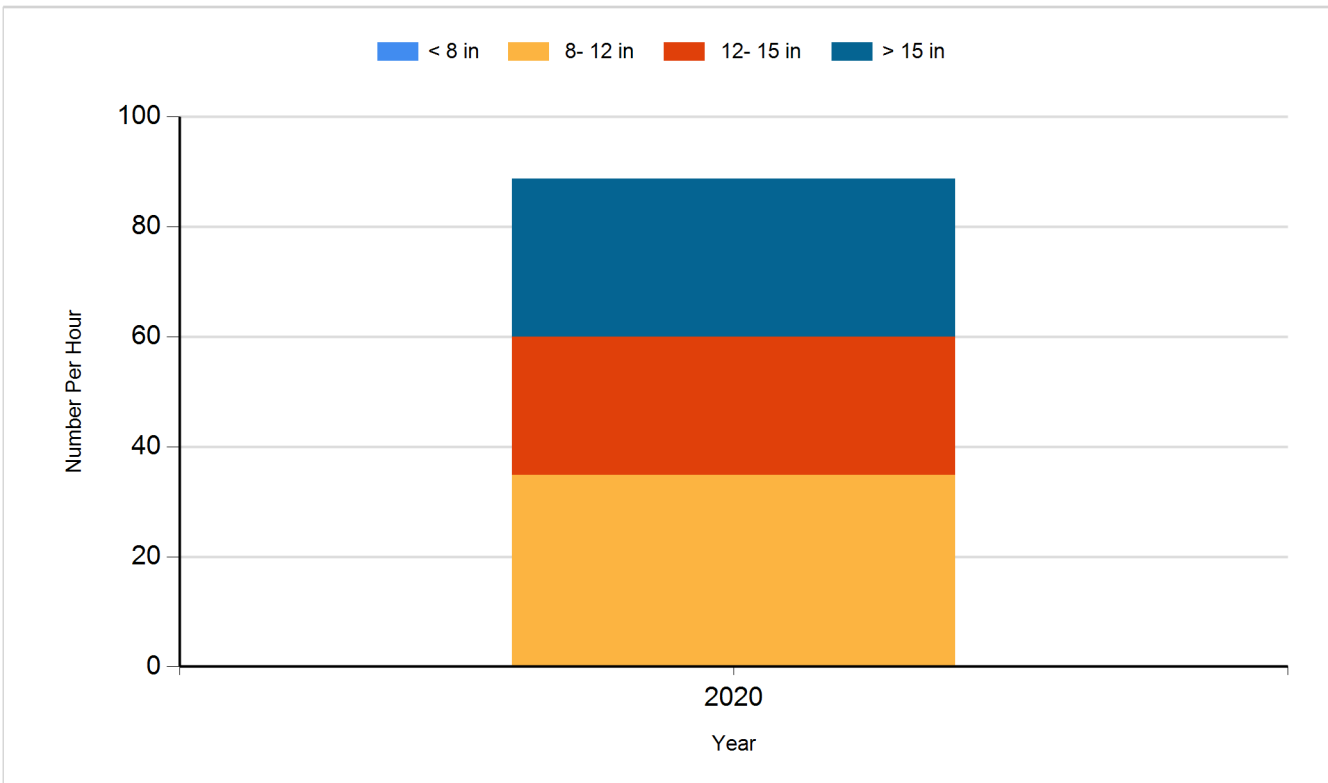
Species: Bluegill
Gear: frame net (std 3/4 in)



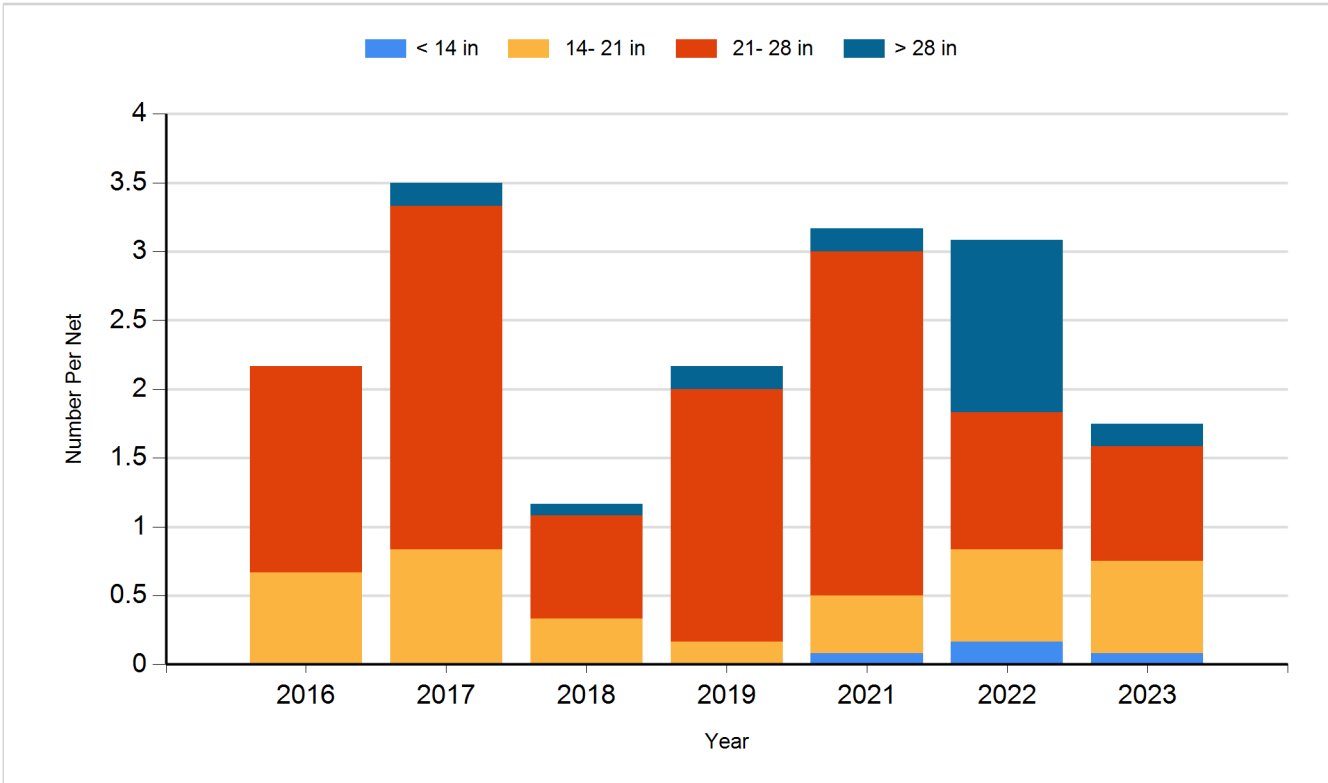
Species: Common Carp
Gear: AFS std gill net



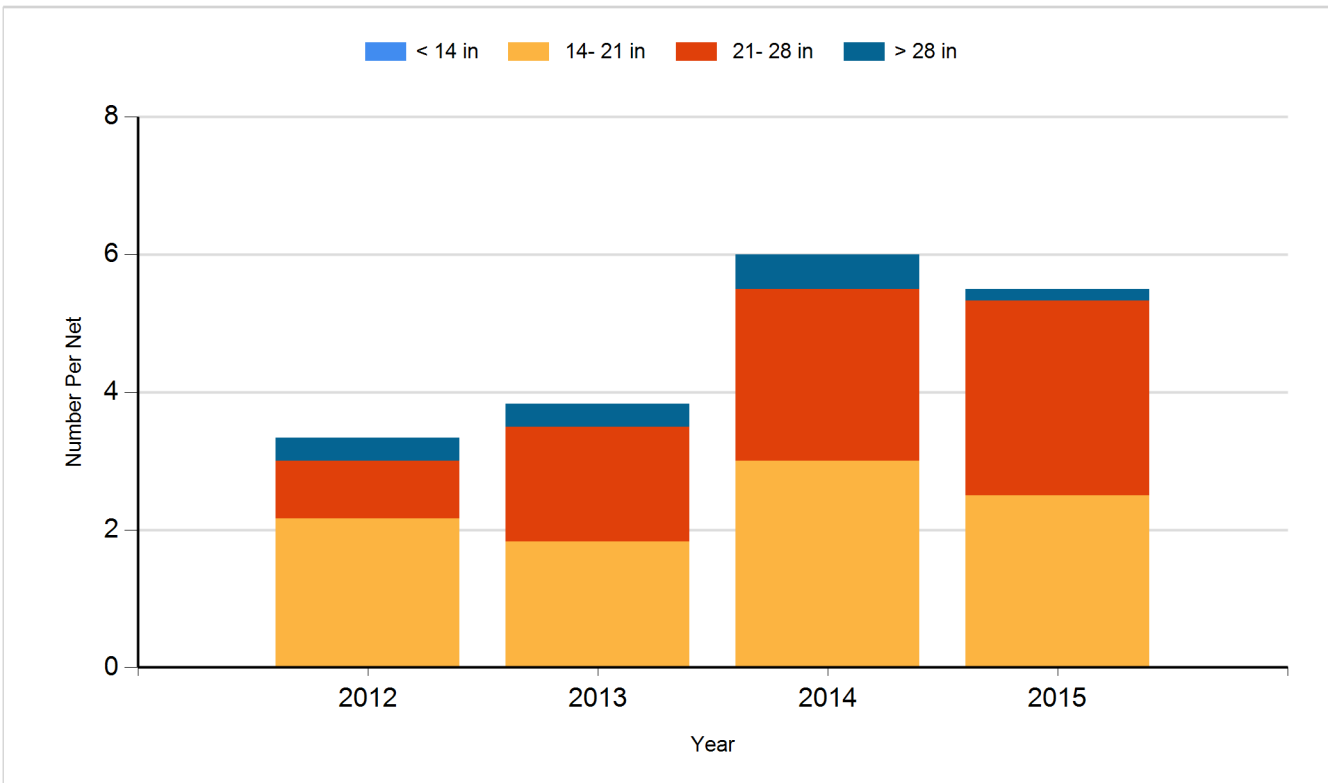
Species: Largemouth Bass
Gear: spring night EF-LMB



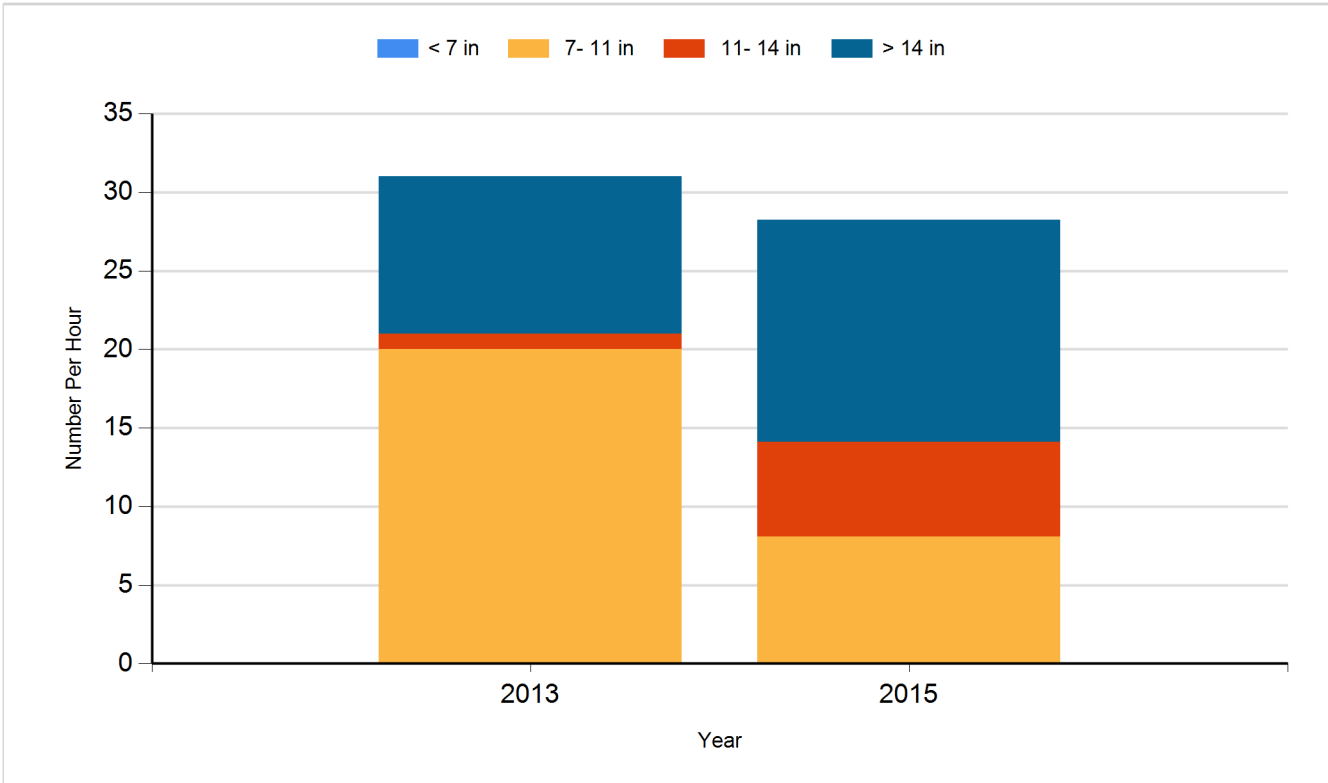
Species: Northern Pike
Gear: AFS std gill net



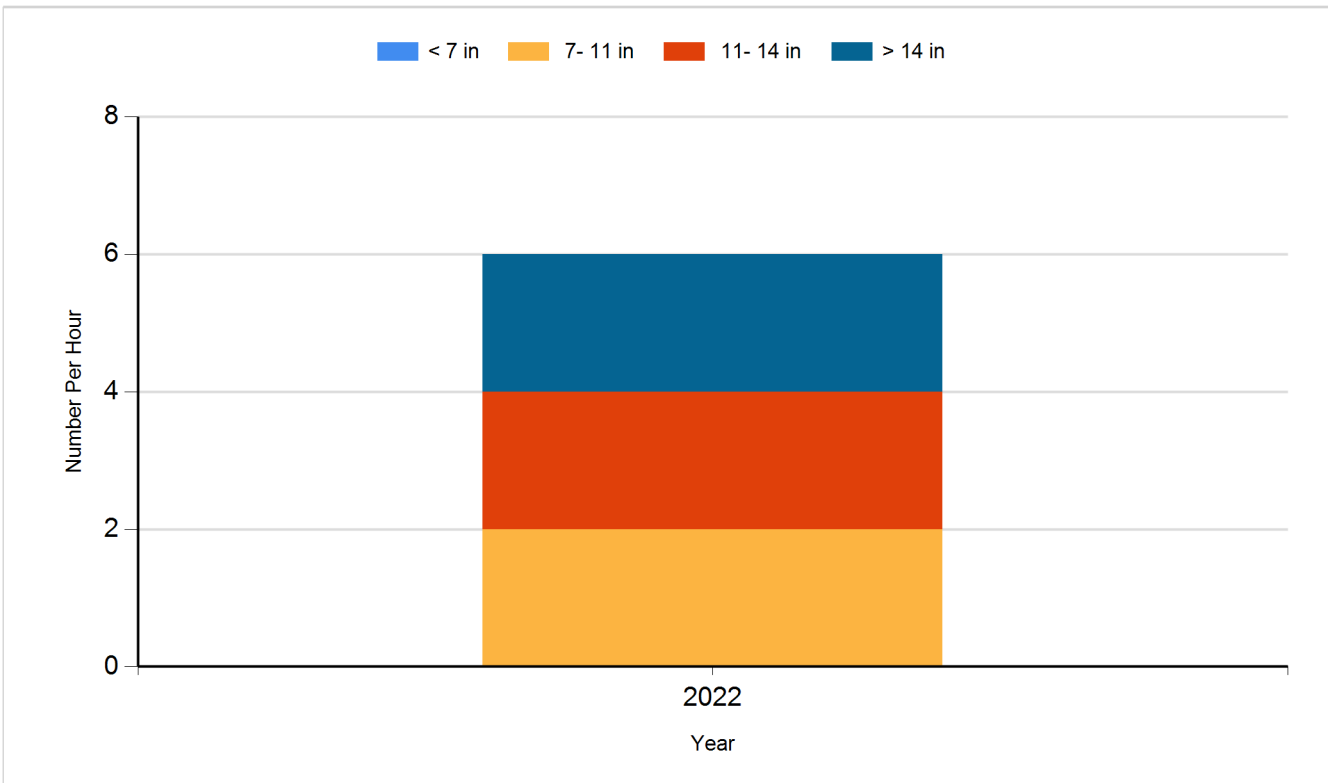
Species: Northern Pike
Gear: std exp gill net



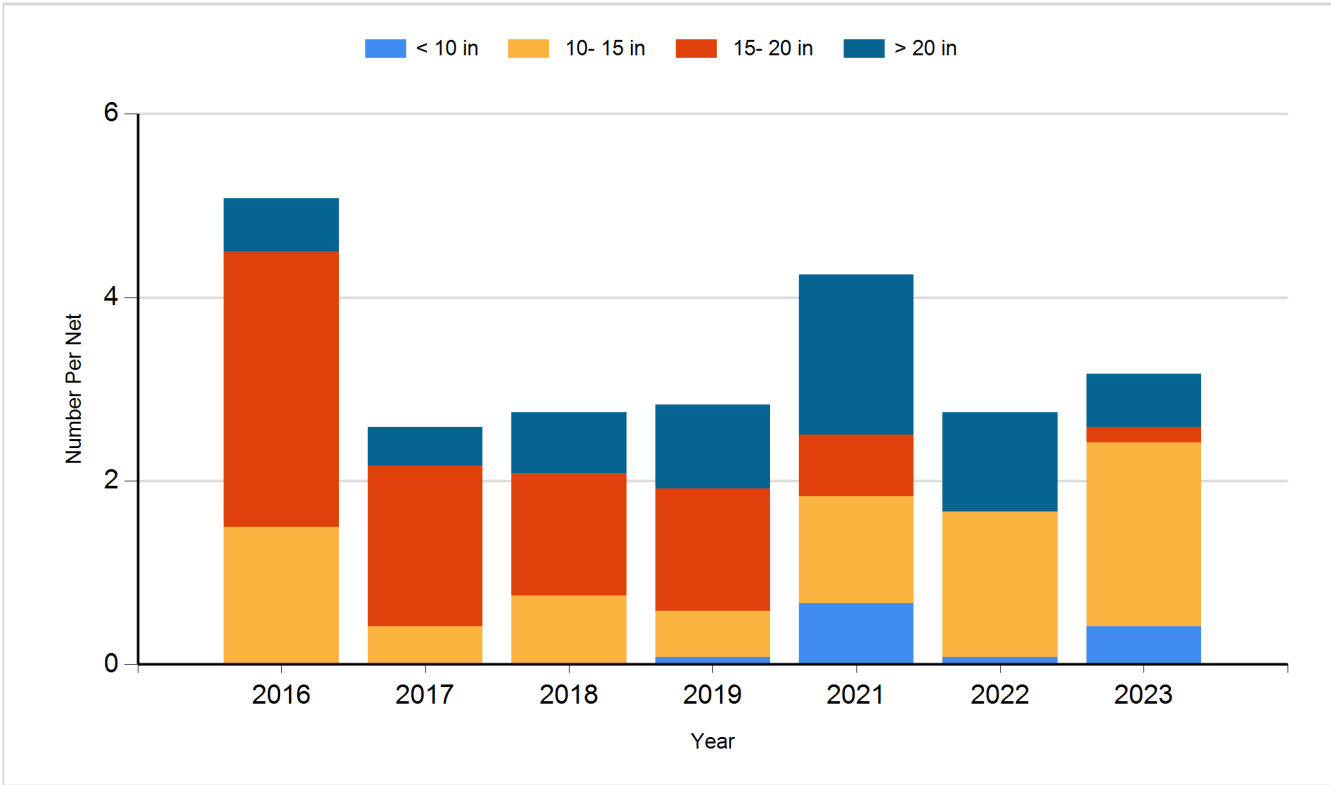
Species: Smallmouth Bass
Gear: boat shocker (night, DC)



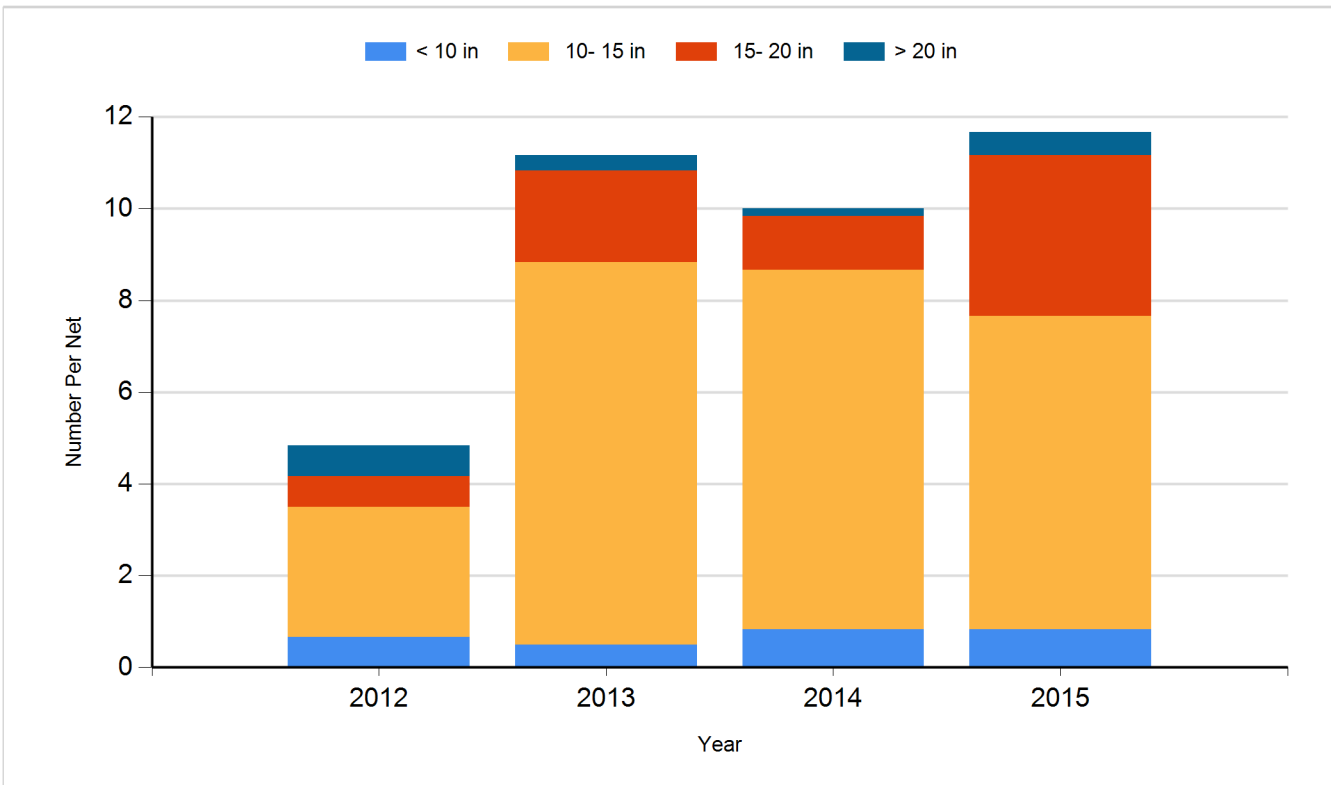
Species: Smallmouth Bass
Gear: spring day EF



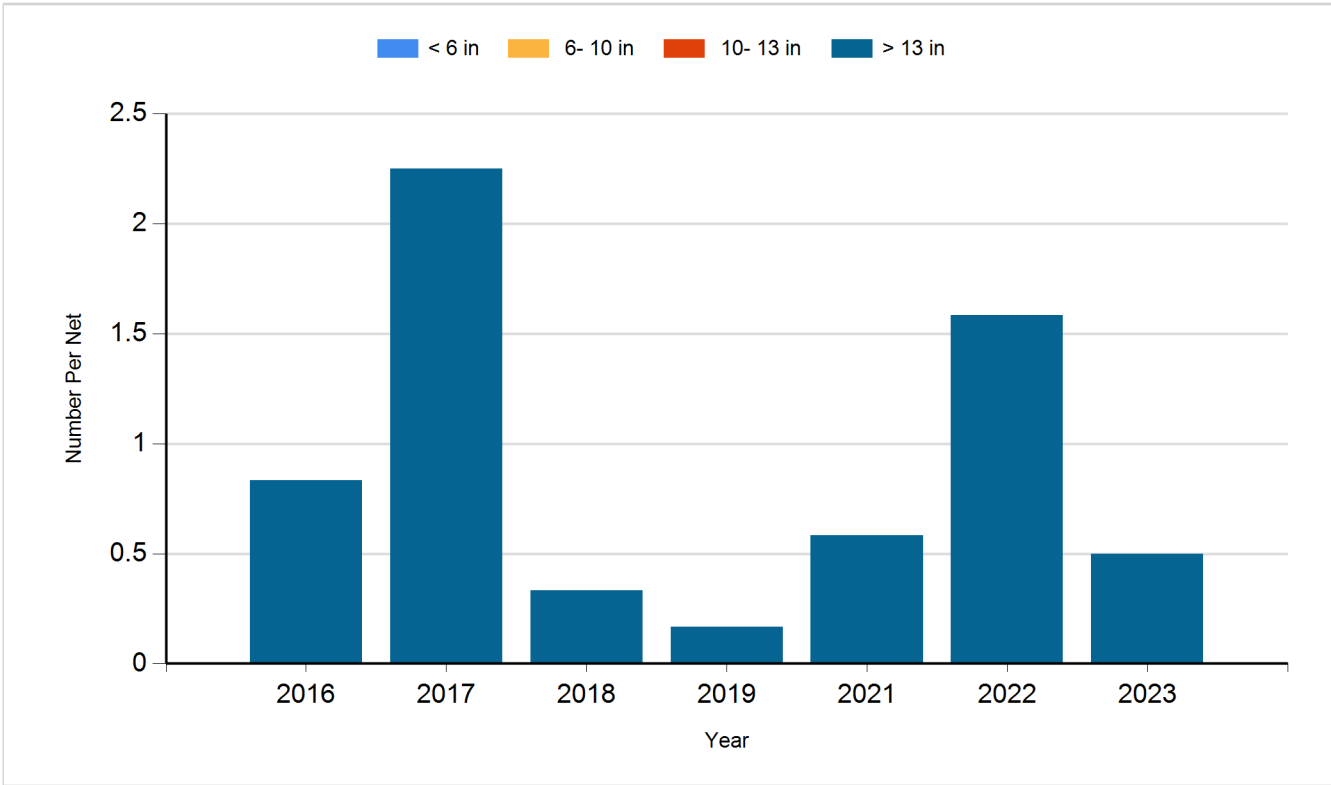
Species: Walleye
Gear: AFS std gill net



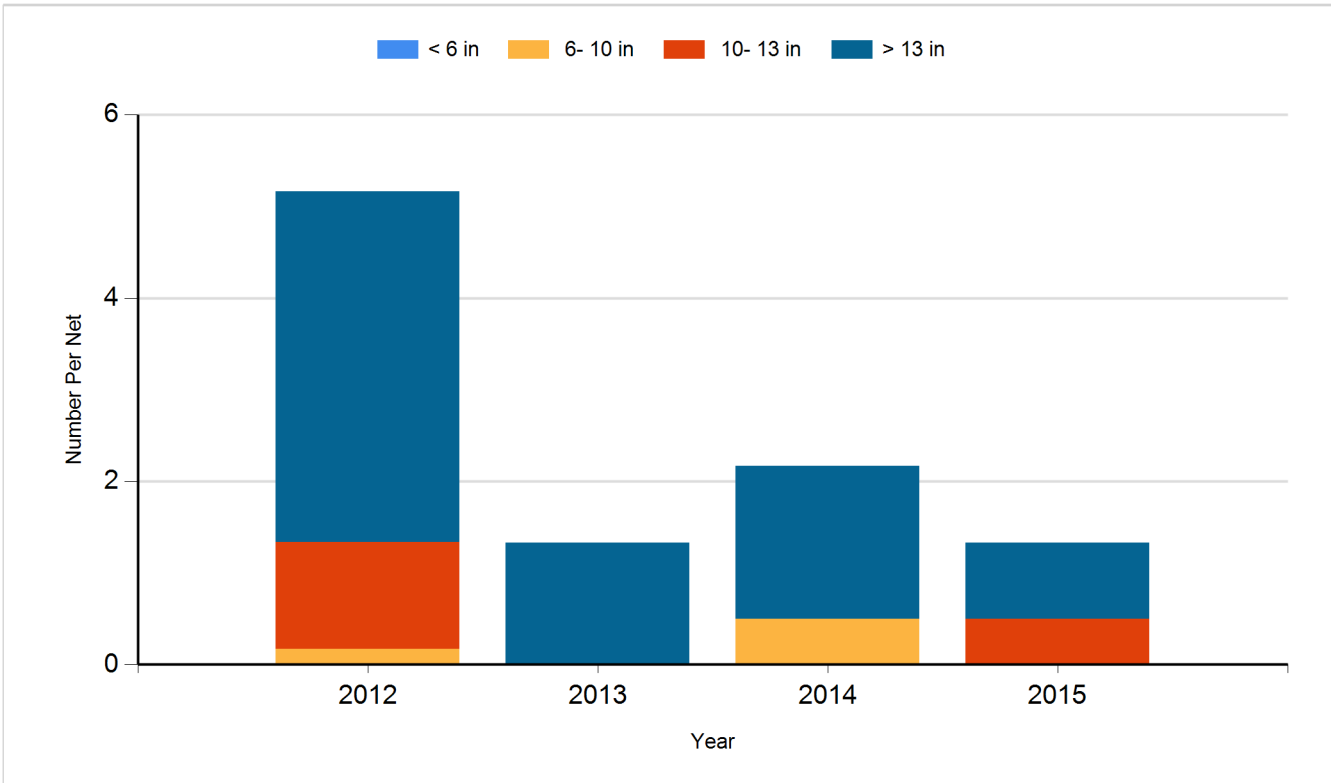
Species: Walleye
Gear: std exp gill net



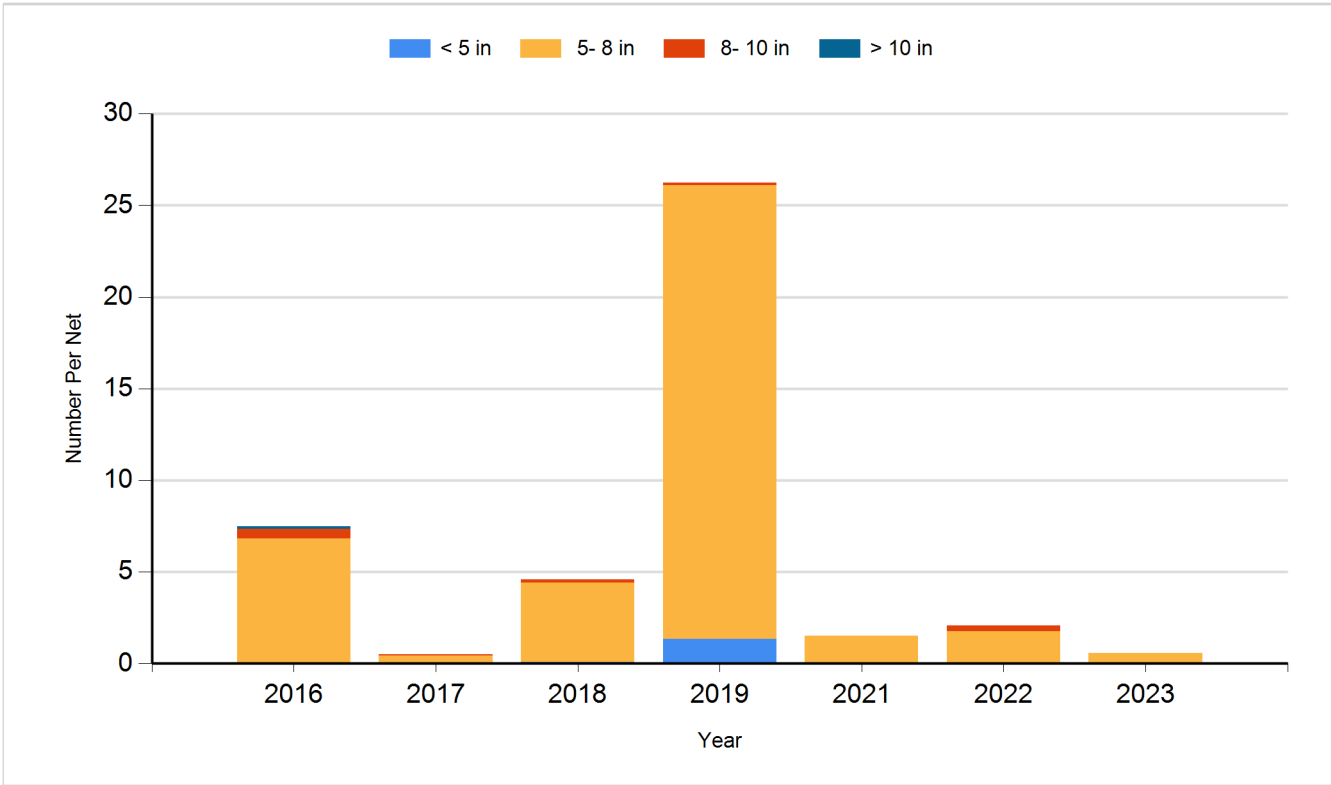
Species: White Sucker
Gear: AFS std gill net



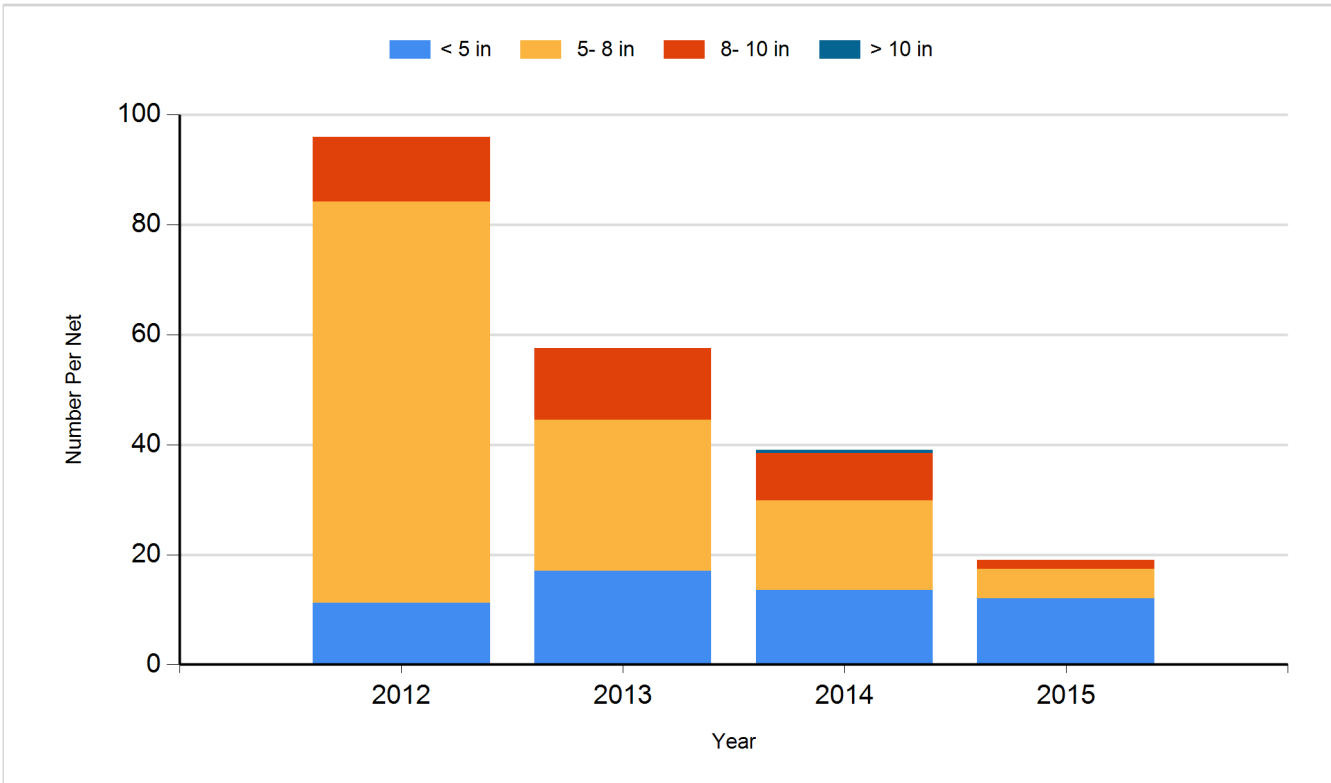
Species: White Sucker
Gear: std exp gill net



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
2012	Walleye	Fry	600,000
2013	Walleye	Fry	600,000
2014	Walleye	Fry	542,000
2014	Walleye	Large Fingerling	24,879
2015	Walleye	Fry	550,000
2016	Walleye	Fry	550,000
2017	Walleye	Large Fingerling	48,564
2019	Walleye	Large Fingerling	18,798
2021	Walleye	Juvenile	11,768
2022	Walleye	Juvenile	33,056
2023	Walleye	Fry	600,000