

SOUTH DAKOTA STATEWIDE FISHERIES SURVEY

Clear, Marshall County

UJA-Lake-917-001

2022

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 21, 2022	6 net-nights
AFS std gill net	Jun 22, 2022	6 net-nights
fall night EF-WAE	Oct 03, 2022	1800 seconds
frame net (std 3/4 in)	Jun 22, 2022	9 net-nights
frame net (std 3/4 in)	Jun 23, 2022	9 net-nights
spring day EF	May 23, 2022	3600 seconds

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	106	8.8	2.6	67	6	43	7	94	2
	Black Crappie	157	13.1	3.3	100		29	5	97	1
	Bluegill	156	13.0	3.2	97		4	2	104	1
	Common Carp	2	0.2	0.2	50		50		194	
	Largemouth Bass	3	0.3	0.2	100		33		118	6
	Northern Pike	37	2.9	0.7	77	11	43	13	86	2
	Smallmouth Bass	23	1.9	0.8	78	14	57	16	89	3
	Walleye	33	2.7	0.9	41	13	41	13	86	1
	White Sucker	19	1.6	0.5	100		100		110	3
frame net (std 3/4 in)	Yellow Perch	25	2.1	1.1	16		0		88	1
	Black Bullhead	140	7.8	1.7	89	4	53	6	90	2
	Black Crappie	22	1.2	0.6	100		32	16	97	1
	Bluegill	824	45.8	7.0	83	2	3	1	105	1
	Northern Pike	17	0.9	0.3	25		0		80	3
	Smallmouth Bass	20	0.9	0.4	53	20	53	20	91	6
	Walleye	7	0.3	0.1	40		20		87	5
	White Sucker	3	0.2	0.1	100		100		117	17
	Yellow Perch	17	0.9	0.9	41	20	0		86	3
spring day EF*	Smallmouth Bass	6	6.0	3.2	67		33			

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 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	9.28	
	Black Crappie				1.3	1.3	3.1	1.9		4.9	13.1	4.27	
	Bluegill				2.0	1.5	0.8	3.8		5.8	13.0	4.48	
	Channel Catfish				0.0	0.1	0.0	0.0		0.0	0.0	0.02	
	Common Carp				0.1	0.1	0.2	0.1		0.1	0.2	0.13	
	Largemouth Bass				0.1	0.1	0.1	0.3		0.3	0.3	0.20	
	Northern Pike				2.2	3.5	1.2	2.2		3.1	2.9	2.52	
	Smallmouth Bass				1.5	1.9	2.4	2.9		2.8	1.9	2.23	
	Walleye				5.1	2.6	2.8	2.8		3.6	2.7	3.27	
	White Sucker				0.8	2.3	0.3	0.2		0.6	1.6	0.97	
	Yellow Perch				7.5	0.5	4.5	24.9		1.5	2.1	6.83	
boat shocker (night)	Walleye*	51.0	3.0	17.0	1.5							18.13	
boat shocker (night, AC)	Largemouth Bass	92.0										92.00	
boat shocker (night, DC)	Smallmouth Bass	31.0		28.0								29.50	
fall night EF-WAE*	Walleye						1.5	40.0				20.75	
frame net (std 3/4 in)	Black Bullhead	29.7	26.4				9.1	3.5		4.1	7.8	13.43	
	Black Crappie	10.7	2.4				3.6	1.2		2.8	1.2	3.65	
	Bluegill	39.0	22.9				67.8	95.3		51.3	45.8	53.68	
	Common Carp	0.0	0.0				0.1	0.0		0.1	0.0	0.03	
	Largemouth Bass	0.1	0.0				0.1	0.1		0.2	0.0	0.08	
	Northern Pike	0.6	1.1				0.6	0.7		1.9	0.9	0.97	
	Smallmouth Bass	2.4	1.1				0.2	0.8		1.8	0.9	1.20	
Walleye	0.4	0.5				0.0	0.5		0.2	0.3	0.32		

		CPUE										
Gear	Species	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	Avg
frame net (std 3/4 in)	White Sucker	0.1	0.0				0.1	0.0		0.2	0.2	0.10
	Yellow Perch	3.9	1.8				6.0	2.1		0.4	0.9	2.52
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	0.0	0.2	0.0								0.07
	Black Bullhead	20.3	21.7	10.3								17.43
	Black Crappie	6.2	11.7	1.5								6.47
	Bluegill	0.3	2.5	1.5								1.43
	Common Carp	0.0	0.0	0.0								0.00
	Northern Pike	3.8	6.0	5.5								5.10
	Smallmouth Bass	4.3	3.3	3.0								3.53
	Walleye	10.7	9.2	10.8								10.23
	White Sucker	1.3	2.2	1.3								1.60
	Yellow Perch	40.5	25.5	7.0								24.33

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 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	
		PSD-P				78	90	81	14			27	43	
		Wr				102	95	92	103			91	94	
	Black Crappie	PSD				67	31	51	39			98	100	
		PSD-P				67	31	24	26			12	29	
		Wr				100	108	102	106			100	97	

Gear	Species	Index	Year									
			2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
AFS std gill net	Bluegill	PSD				42	39	0	7		91	97
		PSD-P				13	22	0	0		1	4
		Wr				111	111	108	110		107	104
	Common Carp	PSD				100	100	50	100		100	50
		PSD-P				0	100	50	100		0	50
		Wr				112	97	106	82		105	194
	Largemouth Bass	PSD				100	0	100	67		67	100
		PSD-P				0	0	0	33		67	33
		Wr				115	129	125	121		120	118
	Northern Pike	PSD				69	76	71	92		86	77
		PSD-P				0	5	7	8		5	43
		Wr				90	85	91	90		84	86
	Smallmouth Bass	PSD				89	100	83	89		71	78
		PSD-P				61	91	66	86		50	57
		Wr				104	95	103	93		94	89
	Walleye	PSD				70	84	73	82		67	41
		PSD-P				11	16	24	33		49	41
		Wr				93	87	91	90		83	86
	White Sucker	PSD				100	100	100	100		100	100
		PSD-P				100	100	100	100		100	100
		Wr				106	102	96	94		100	110
Yellow Perch	PSD				9	17	4	1		0	16	
	PSD-P				2	0	0	0		0	0	
	Wr				94	90	90	102		91	88	
boat shocker (night)	Walleye	PSD	0	0	0	0						
		PSD-P	0	0	0	0						
		Wr	97	94	92	80						
boat shocker (night, AC)	Largemouth Bass	PSD	43									
		PSD-P	12									
		Wr	110									
boat shocker (night, DC)	Smallmouth Bass	PSD	35		71							
		PSD-P	32		50							
		Wr	93		102							
frame net (std 3/4 in)	Black Bullhead	PSD	60	55				86	87		96	89
		PSD-P	5	12				81	59		61	53
		Wr	99	95				85	86		88	90

Gear	Species	Index	Year									
			2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
frame net (std 3/4 in)	Black Crappie	PSD	99	100				53	33		100	100
		PSD-P	58	100				24	14		6	32
		Wr	102	100				95	105		97	97
	Bluegill	PSD	43	48				20	23		80	83
		PSD-P	4	26				4	4		3	3
		Wr	108	111				99	103		105	105
	Common Carp	PSD						100			0	
		PSD-P						100			0	
		Wr									116	
	Largemouth Bass	PSD	0	0				100	0		67	
		PSD-P	0	0				50	0		0	
		Wr						112	105		103	
	Northern Pike	PSD	64	50				80	67		29	25
		PSD-P	36	0				20	8		0	0
		Wr	86	87				78	86		75	80
	Smallmouth Bass	PSD	48	37				67	87		66	53
		PSD-P	34	26				67	73		50	53
		Wr	97	101				91	95		86	91
	Walleye	PSD	75	22				0	33		50	40
		PSD-P	25	0				0	0		25	20
		Wr	84	91					86		76	87
	White Sucker	PSD	100					100			100	100
		PSD-P	100					100			100	100
		Wr	99					103			93	117
	Yellow Perch	PSD	32	41				5	8		25	41
		PSD-P	0	0				0	0		0	0
		Wr	85	91				84	88		100	86
spring day EF	Smallmouth Bass	PSD										67
		PSD-P										
spring night EF-LMB	Largemouth Bass	PSD									61	
		PSD-P									32	
		Wr									114	
std exp gill net	Black Bullhead	PSD	59	58	97							
		PSD-P	2	4	15							
		Wr	101	100	99							
	Black Crappie	PSD	100	97	100							

Gear	Species	Index	Year									
			2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
std exp gill net	Black Crappie	PSD-P	76	96	100							
		Wr	106	101	100							
	Bluegill	PSD	0	67	44							
		PSD-P	0	47	22							
		Wr	141	110	113							
	Northern Pike	PSD	52	50	55							
		PSD-P	9	8	3							
		Wr	87	87	84							
	Smallmouth Bass	PSD	58	85	89							
		PSD-P	35	35	72							
		Wr	103	102	97							
	Walleye	PSD	22	15	37							
		PSD-P	3	2	5							
		Wr	89	86	88							
	White Sucker	PSD	100	77	100							
		PSD-P	100	77	63							
		Wr	100	101	99							
	Yellow Perch	PSD	32	36	24							
		PSD-P	0	2	0							
		Wr	95	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+
2022	824		101 (34)	120 (59)	156 (133)	176 (411)	189 (149)	190 (36)	213 (2)	223 (1)	
2021	904		107 (26)	136 (93)	167 (463)	183 (283)	193 (31)	216 (3)	218 (4)	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)			
2013	718	49 (1)	120 (435)	184 (267)	212 (5)	226 (10)					

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)					
2013	92		230 (45)	312 (33)	361 (1)	385 (3)	408 (6)	433 (2)		514 (1)	514 (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+
2015	28			218 (4)	280 (8)	374 (4)	358 (3)	412 (7)	461 (1)		461 (1)
2013	29		195 (11)	249 (9)			387 (4)			427 (1)	460 (4)

Species: Walleye

Mean Length (expanded sample number) at capture by age											
Year	N	1	2	3	4	5	6	7	8	9	10+
2022	32			284 (15)		334 (4)		555 (1)		604 (3)	632 (9)

Mean Length (expanded sample number) at capture by age

Year	N	1	2	3	4	5	6	7	8	9	10+
2021	51	271 (1)	240 (13)	311 (3)	393 (11)		559 (2)	511 (3)	556 (1)	551 (2)	625 (15)
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)	
2013	67		279 (42)	359 (5)	394 (17)		481 (1)				652 (2)

Species: Yellow Perch

Mean Length (expanded sample number) at capture by age

Year	N	1	2	3	4	5	6	7	8	9	10+
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)			
2013	345	99 (81)	123 (34)	166 (93)	188 (59)	216 (77)					

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).

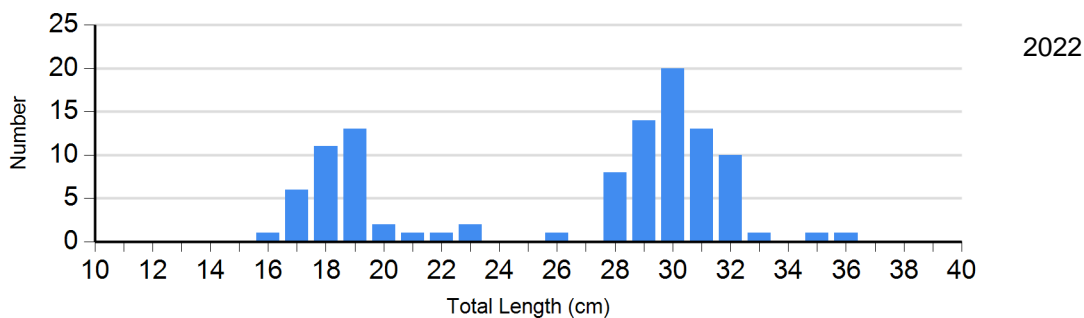
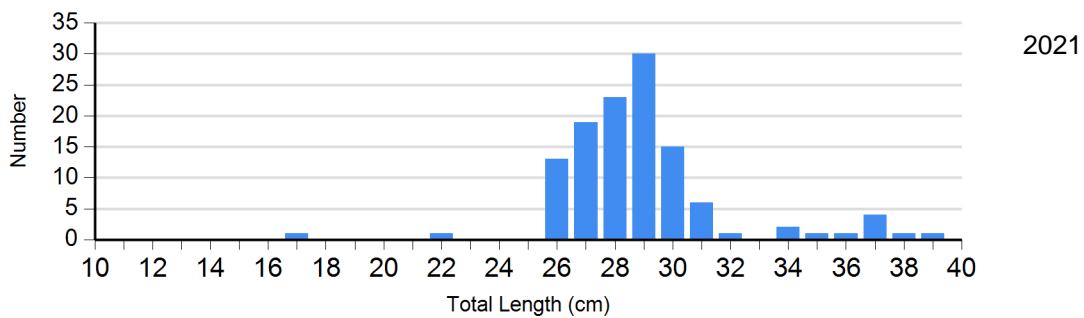
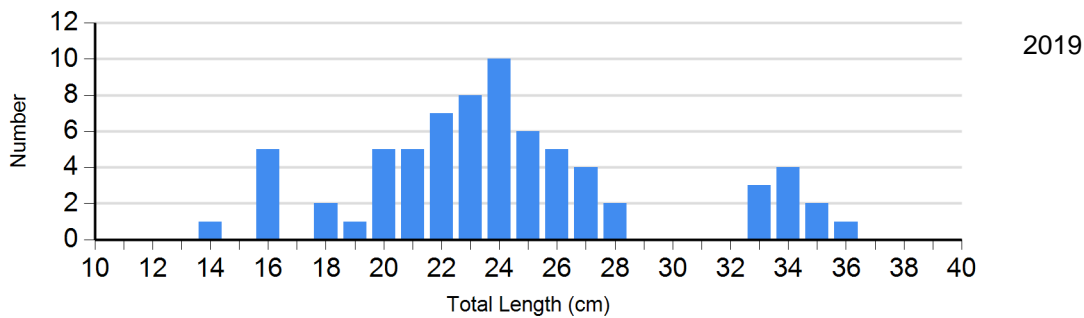
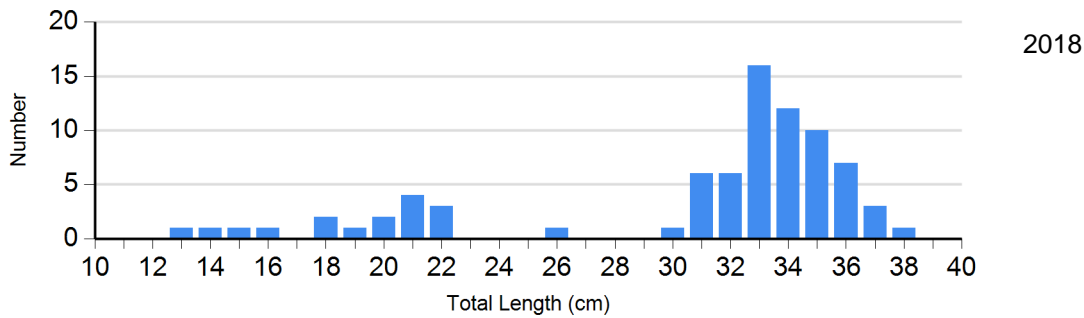
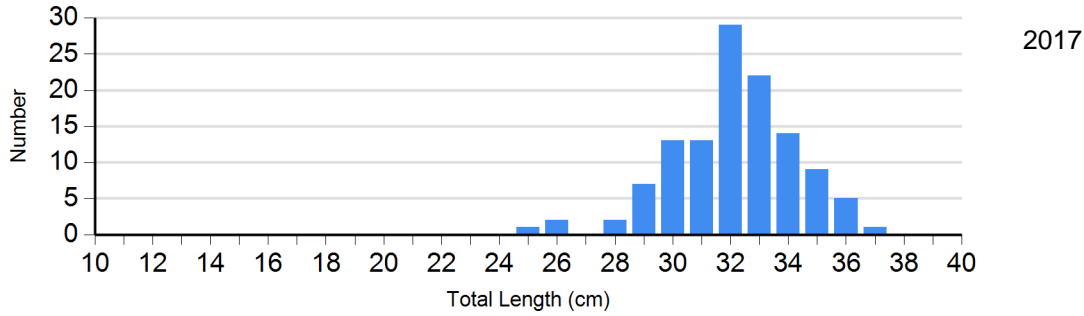
Species	Year	Length Groups							
		S-Q		Q-P		P-M		M	
		N	Wr (SE)	N	Wr (SE)	N	Wr (SE)	N	Wr (SE)
Black Bullhead Gill Net	2018	14	95 (2.4)	1	88	61	91 (1.8)	1	84
	2019	25	105 (1.8)	35	106 (1.4)	10	90 (4.1)	0	
	2021	2	92 (1.0)	85	94 (1.1)	30	85 (3.2)	2	71 (7.9)
	2022	35	96 (5.2)	25	96 (2.4)	46	92 (1.3)	0	
Black Crappie Frame Net	2018	27	97 (1.1)	17	95 (2.4)	3	94 (1.4)	11	89 (2.6)
	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	
Bluegill Frame Net	2018	869	99 (0.5)	177	101 (0.8)	38	95 (1.3)	0	
	2019	1326	101 (0.6)	321	106 (1.0)	68	107 (1.6)	0	
	2021	187	105 (0.5)	710	105 (0.7)	27	96 (0.6)	0	
	2022	139	102 (0.6)	662	105 (0.5)	23	103 (1.1)	0	
Common Carp Gill Net	2018	1	119	0		1	92	0	
	2019	0		0		0		1	82
	2021	0		1	105	0		0	
	2022	1	194	0		0		1	
Largemouth Bass Electro Fishing	2020	29	115 (1.1)	21	114 (1.3)	24	113 (1.6)	0	
Northern Pike Gill Net	2018	4	101 (0.9)	9	87 (2.9)	1	86	0	
	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
Walleye Gill Net	2018	9	89 (1.7)	16	95 (1.4)	6	88 (2.5)	2	86 (2.5)
	2019	6	87 (2.6)	16	90 (1.2)	10	90 (2.3)	1	96

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	2021	14	83 (1.4)	8	81 (1.9)	12	82 (2.0)	9	85 (1.4)
	2022	19	85 (1.1)	0		6	87 (2.2)	7	89 (2.5)
White Sucker Gill Net	2018	0		0		0		4	96 (2.8)
	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)
Yellow Perch Gill Net	2018	52	90 (0.9)	2	92 (3.0)	0		0	
	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	

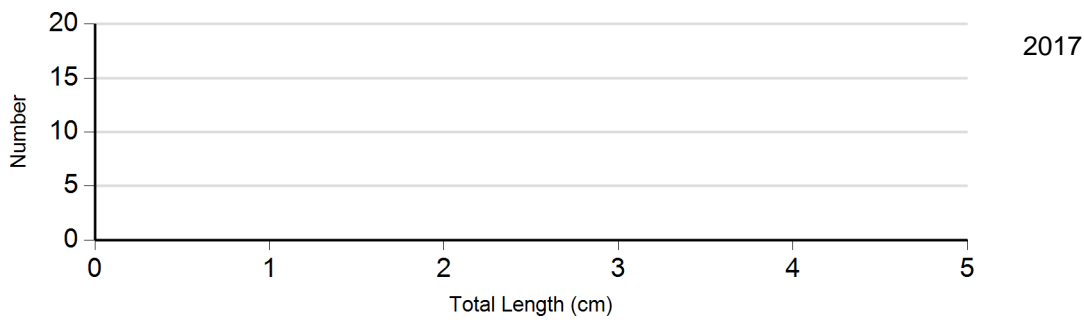
Length Frequency Distribution

Length frequency histogram of species sampled by year.

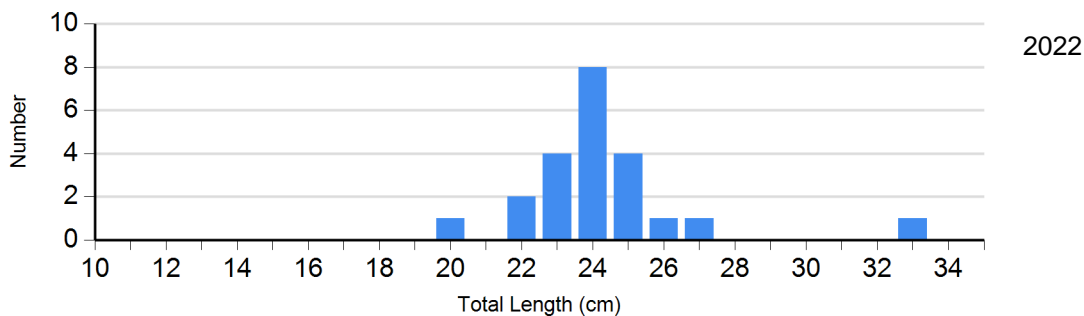
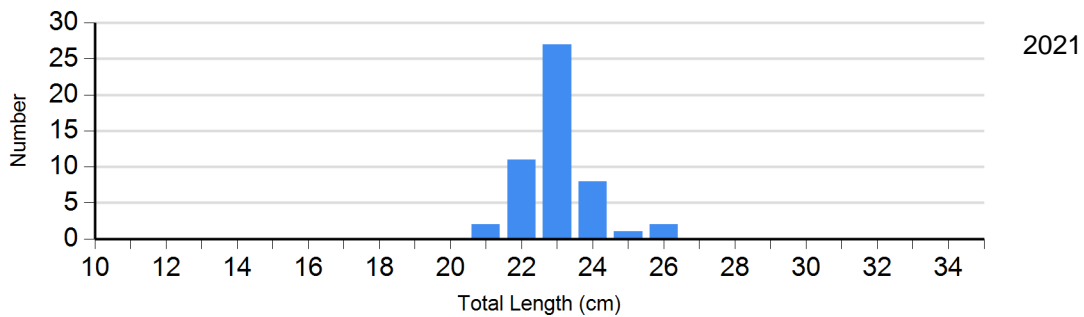
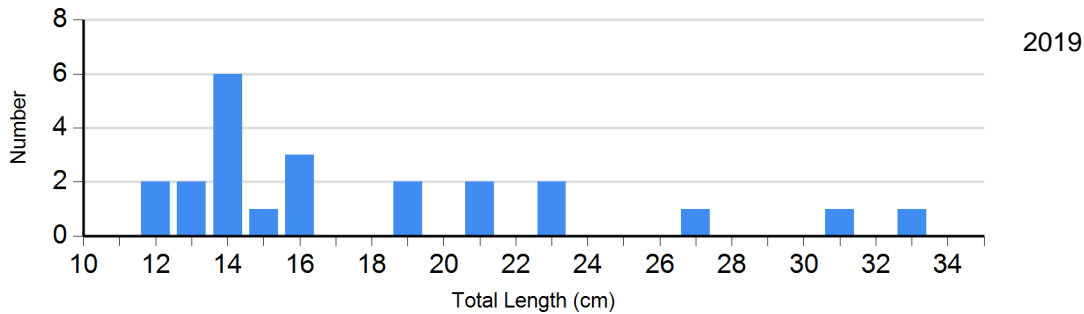
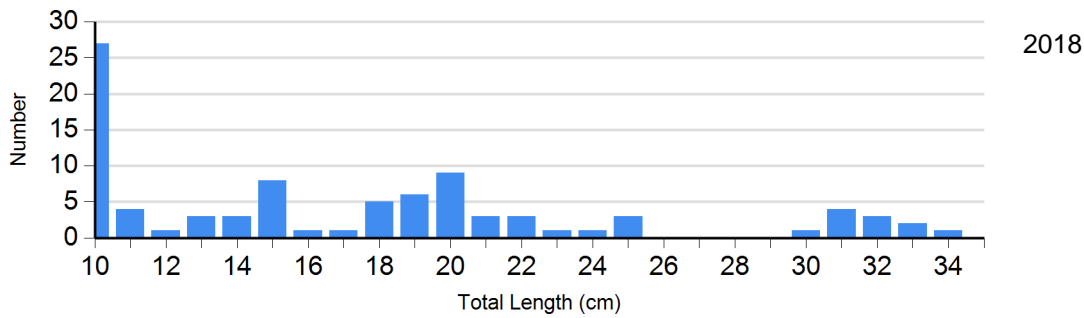
Species: Black Bullhead
Gear: AFS std gill net



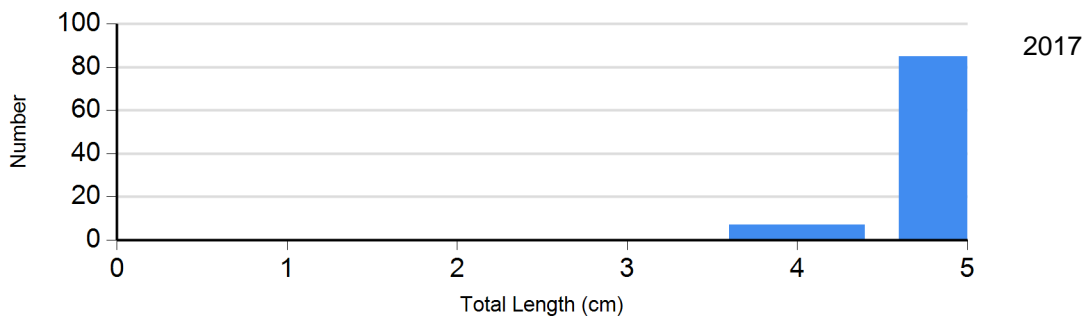
Species: Black Crappie
Gear: AFS std frame net



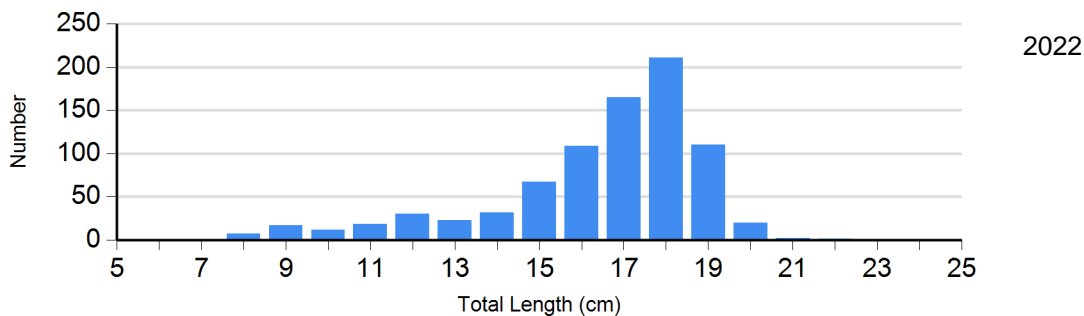
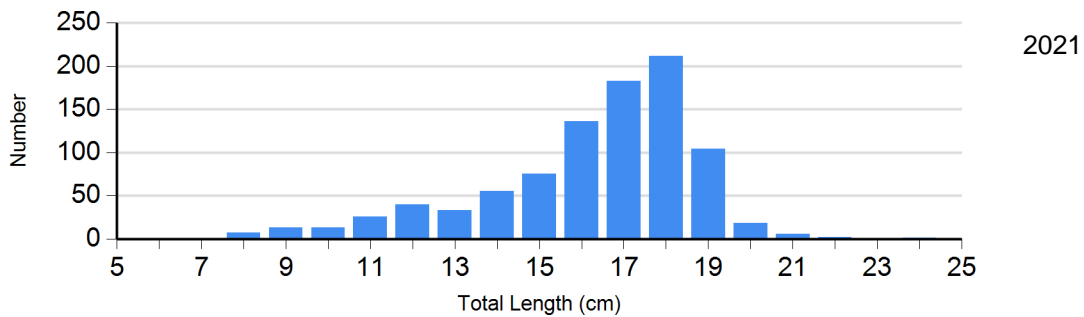
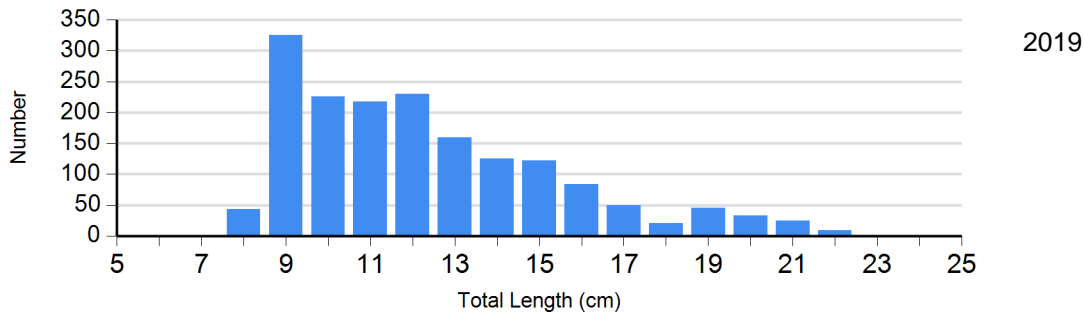
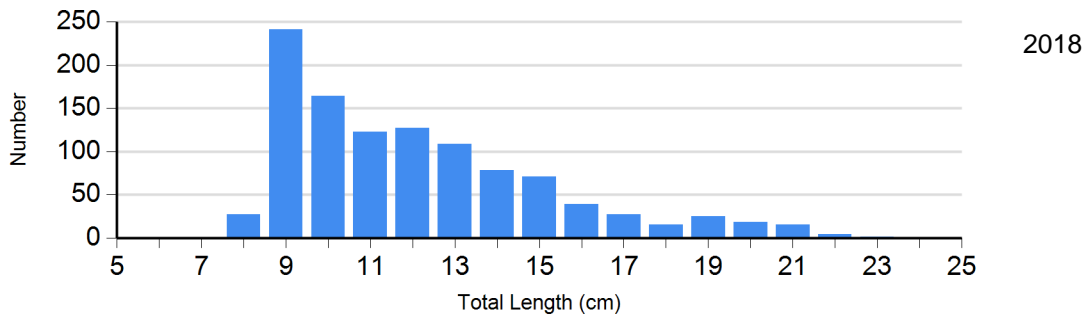
Species: Black Crappie
Gear: frame net (std 3/4 in)



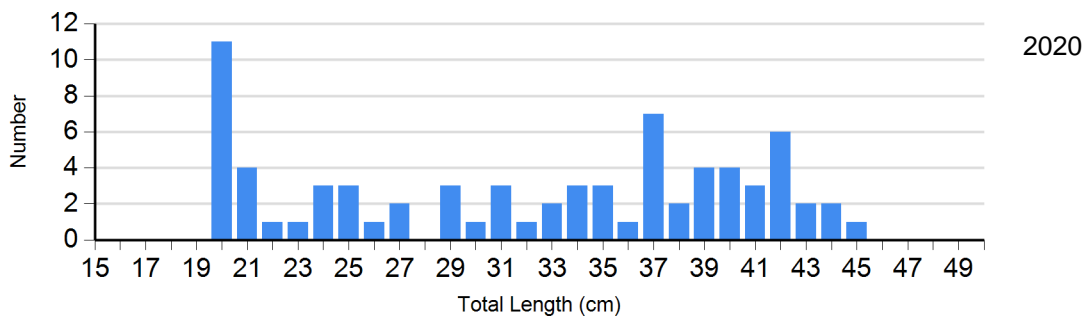
Species: Bluegill
Gear: AFS std frame net



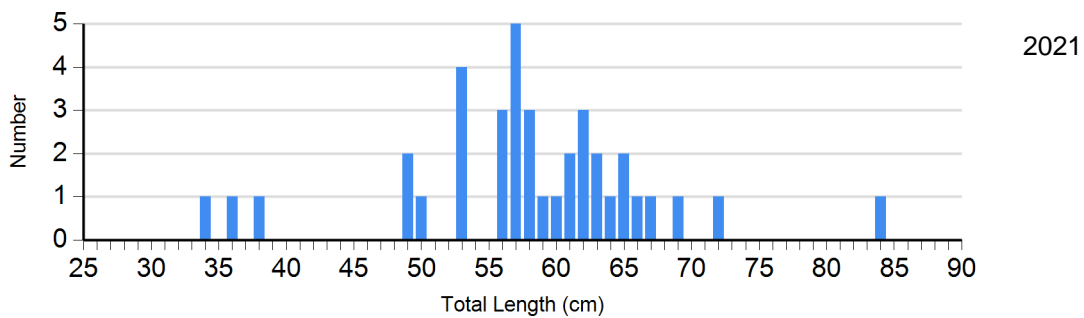
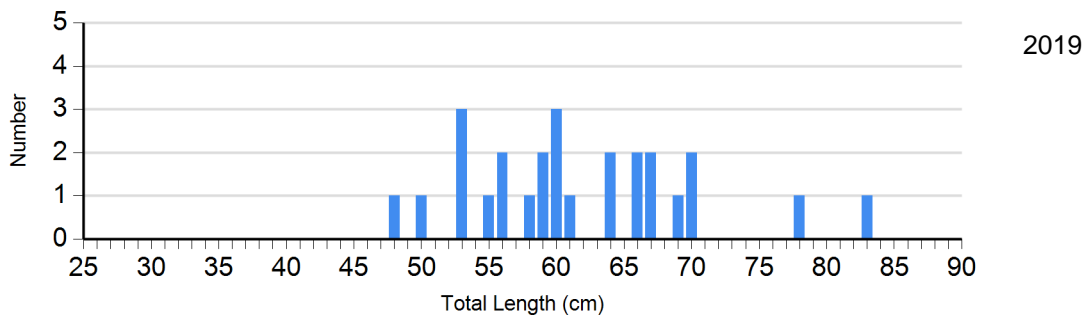
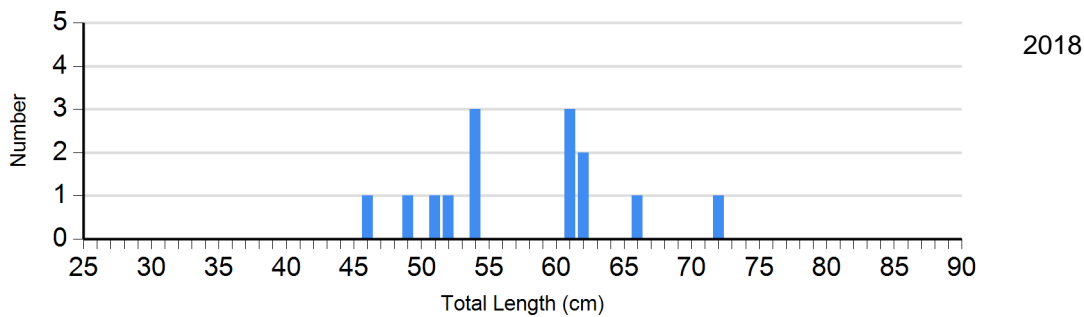
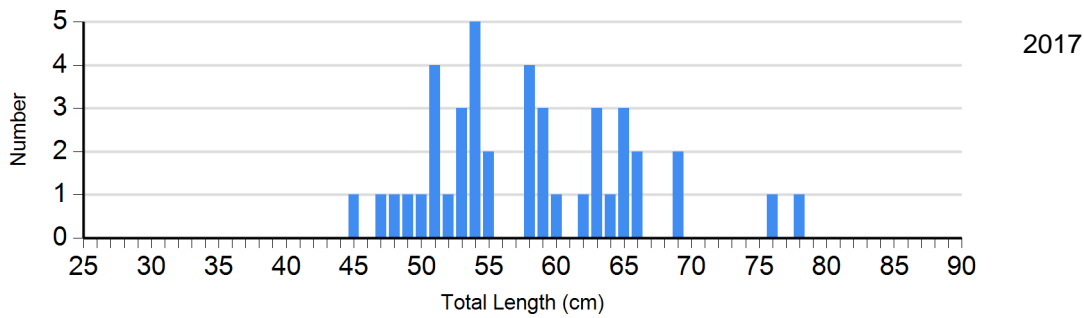
Species: Bluegill
Gear: frame net (std 3/4 in)

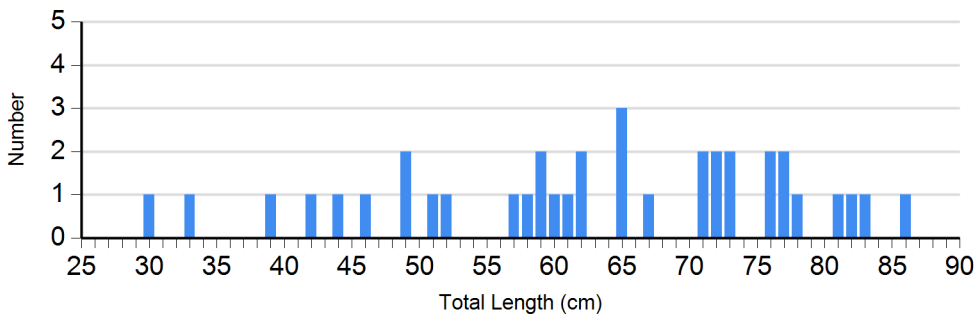


Species: Largemouth Bass
 Gear: spring night EF-LMB



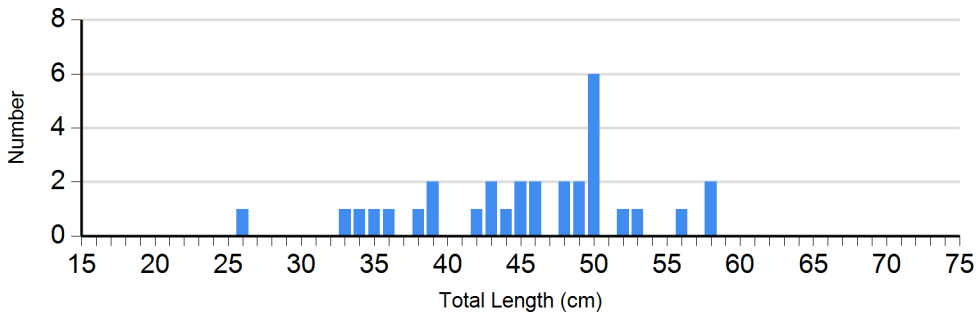
Species: Northern Pike
 Gear: AFS std gill net



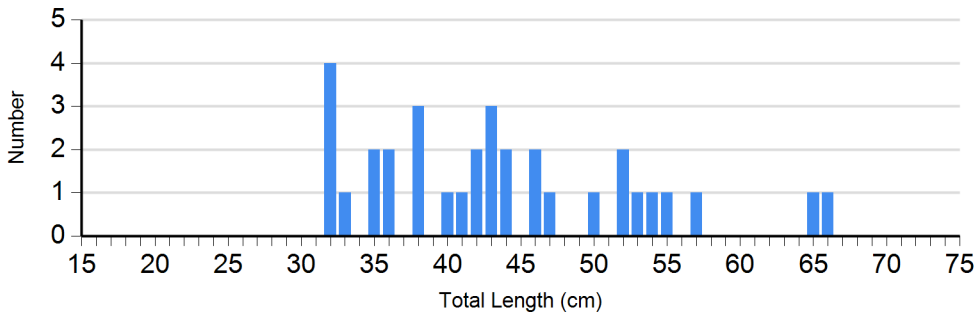


2022

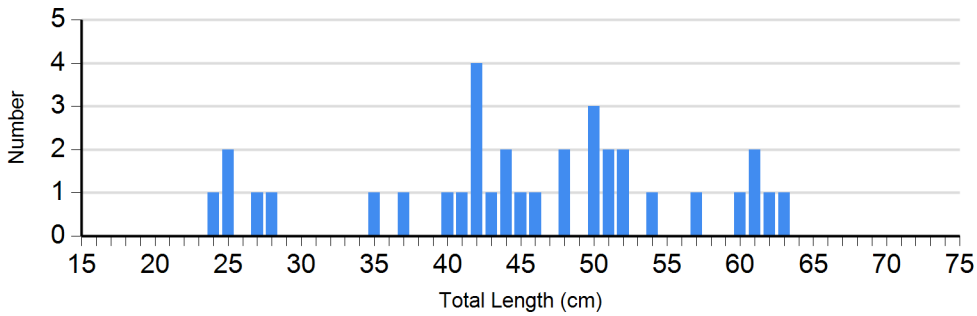
Species: Walleye
Gear: AFS std gill net



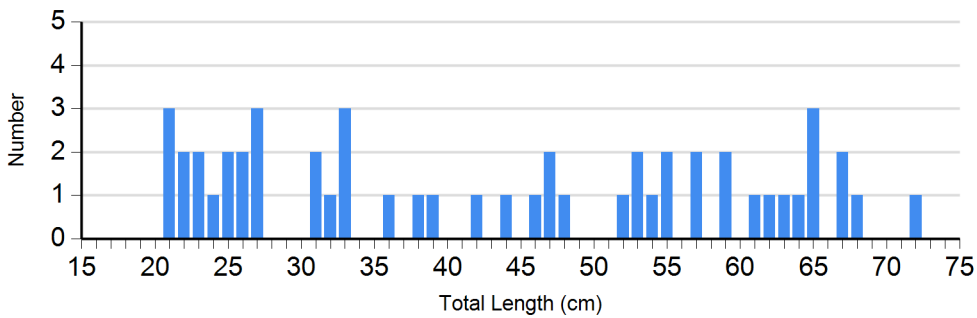
2017



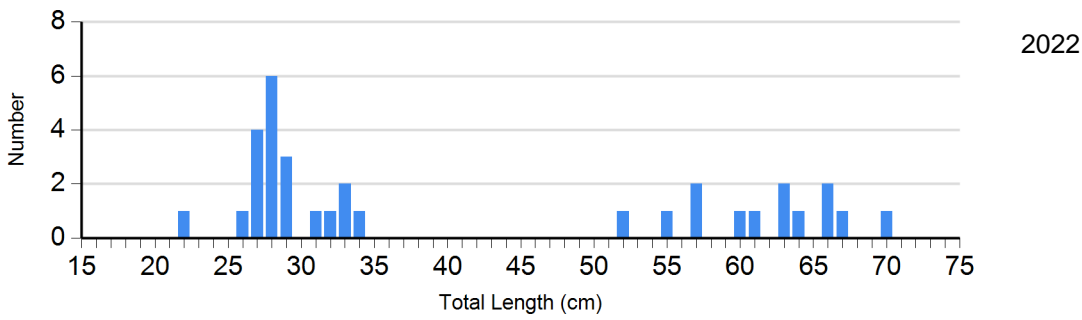
2018



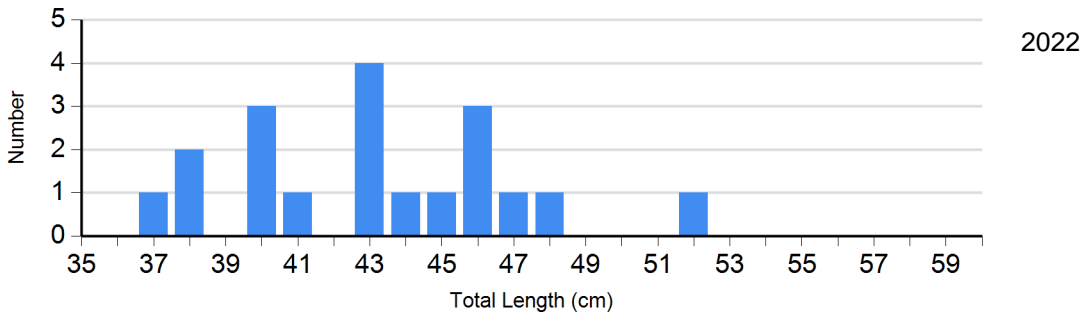
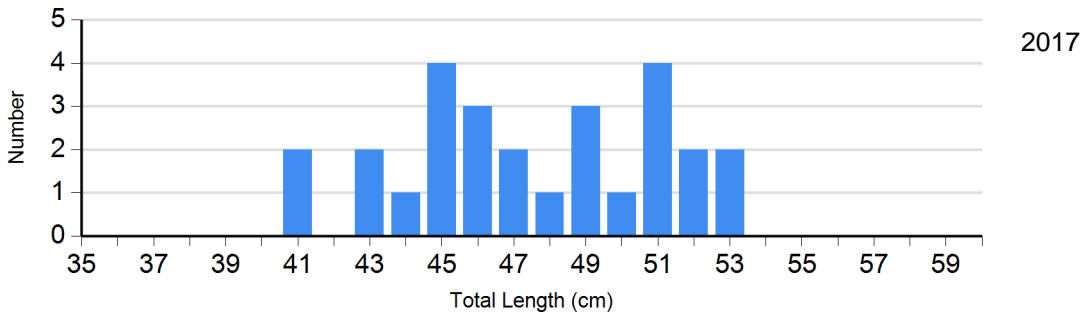
2019



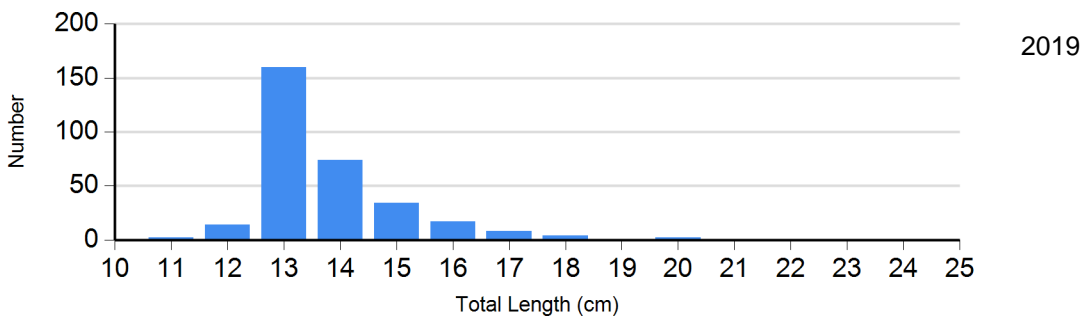
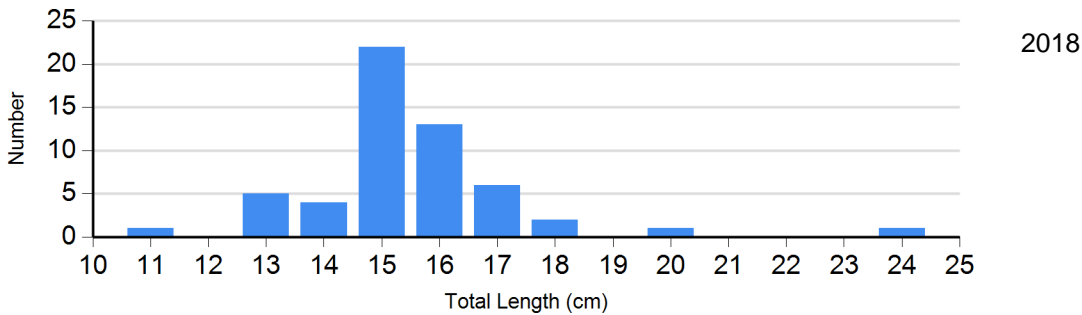
2021

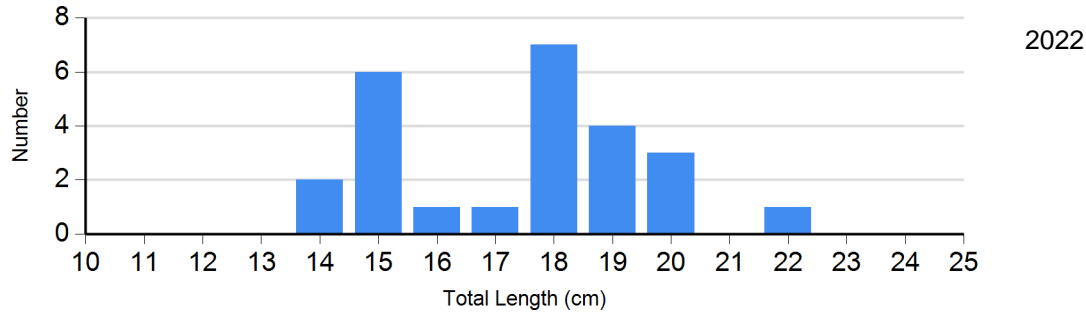
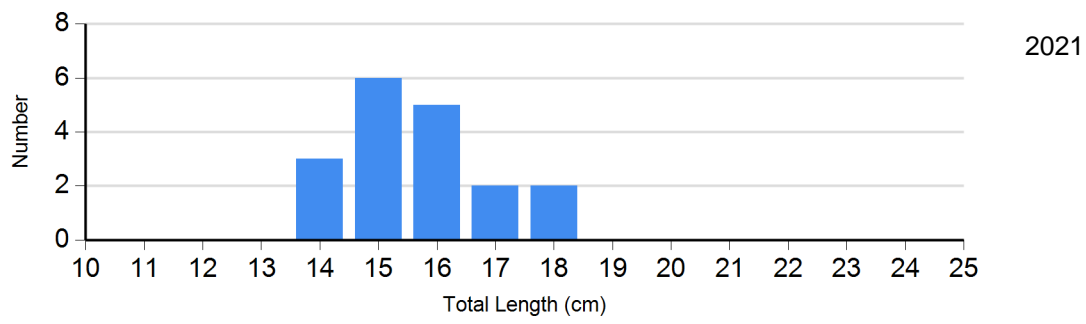


Species: White Sucker
Gear: AFS std gill net



Species: Yellow Perch
Gear: AFS std gill net

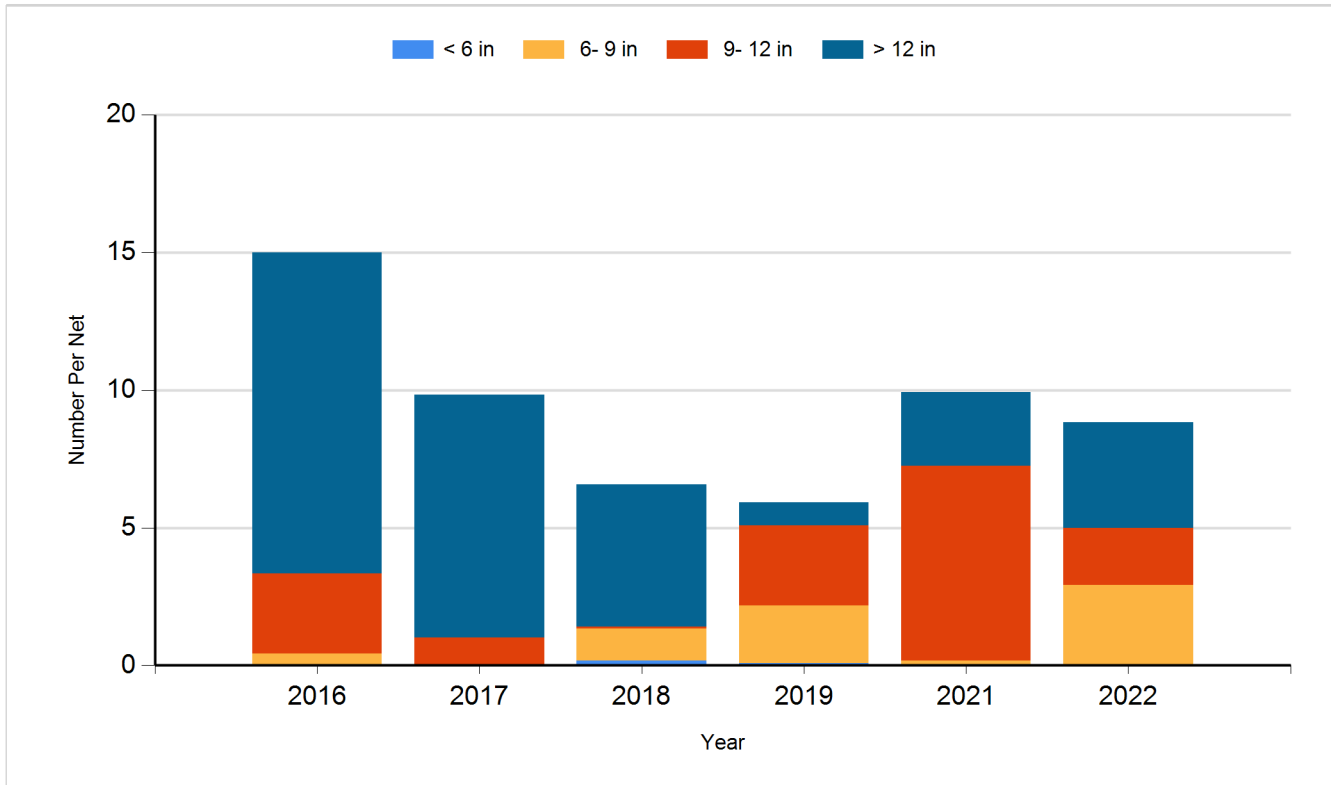




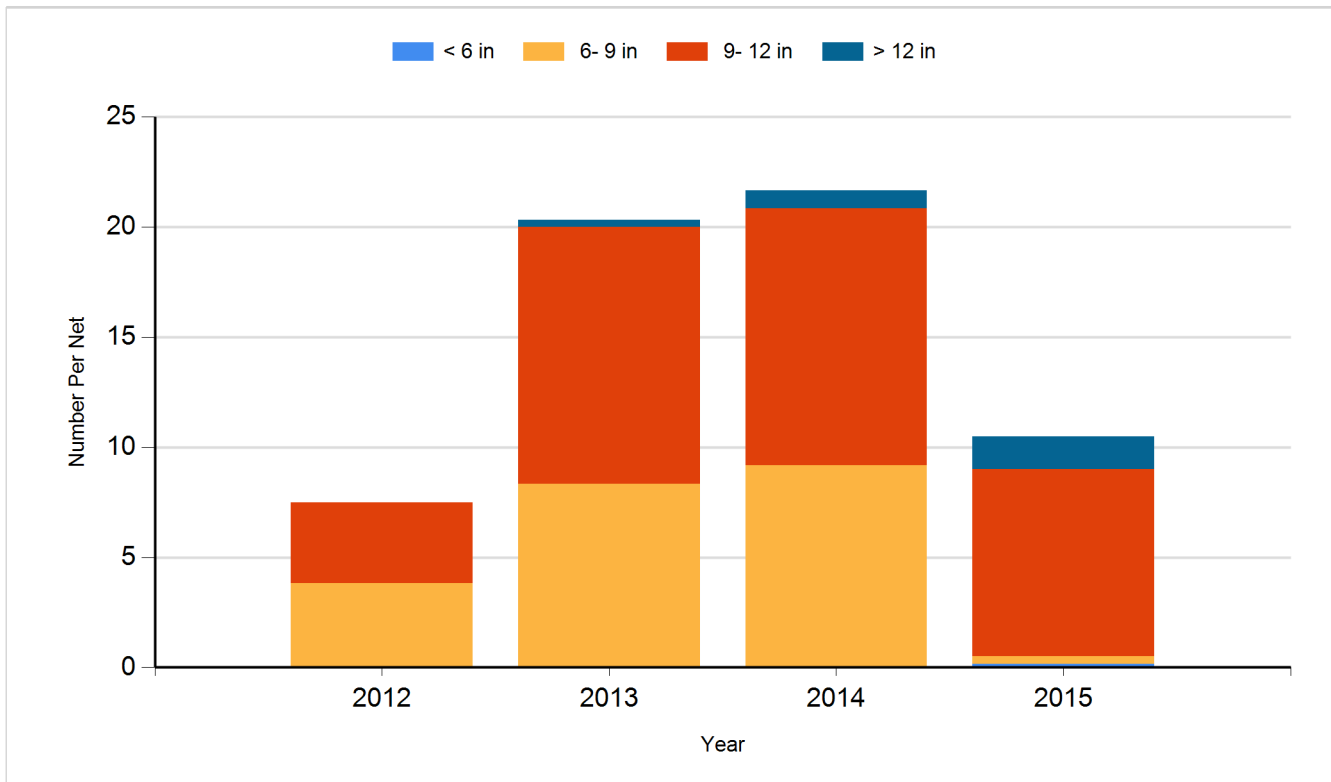
Historic Fish Sizes and Relative Abundance

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

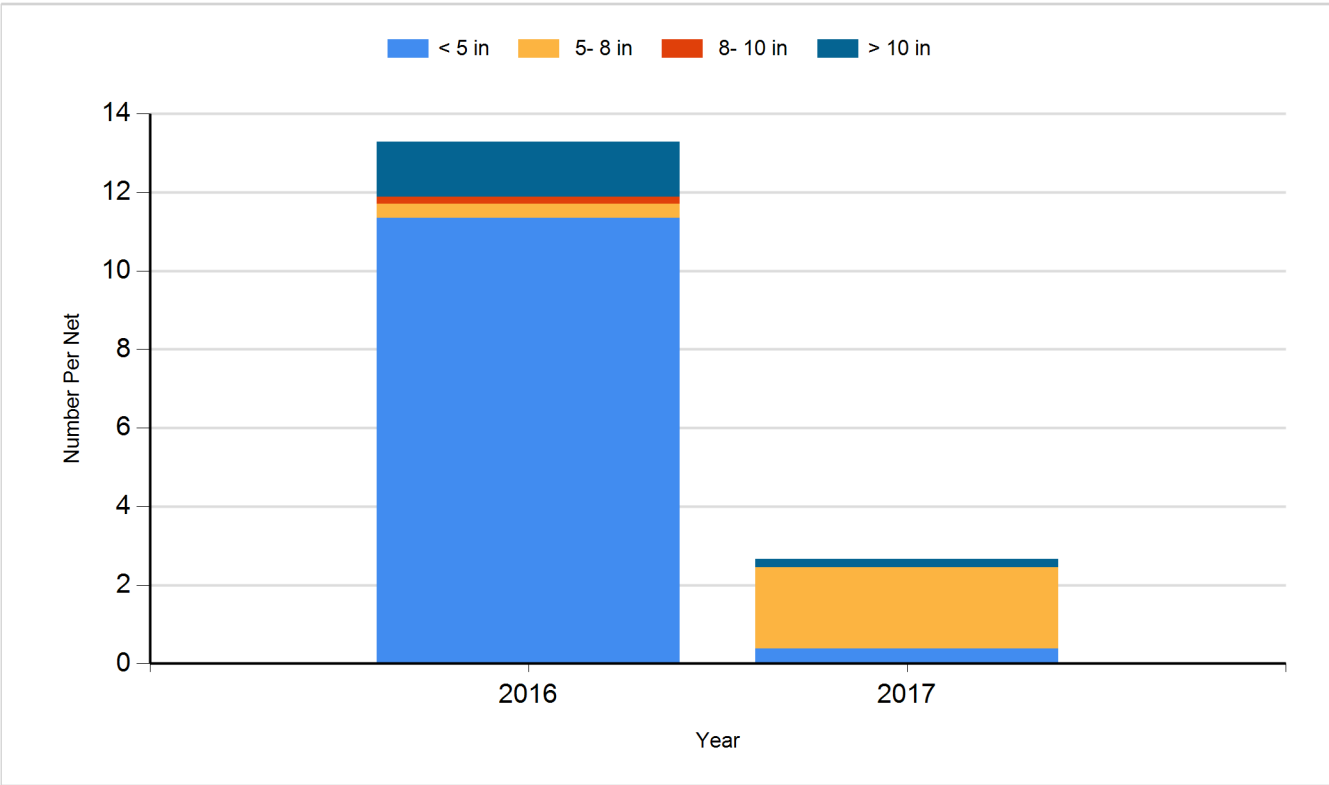
Species: Black Bullhead
Gear: AFS std gill net



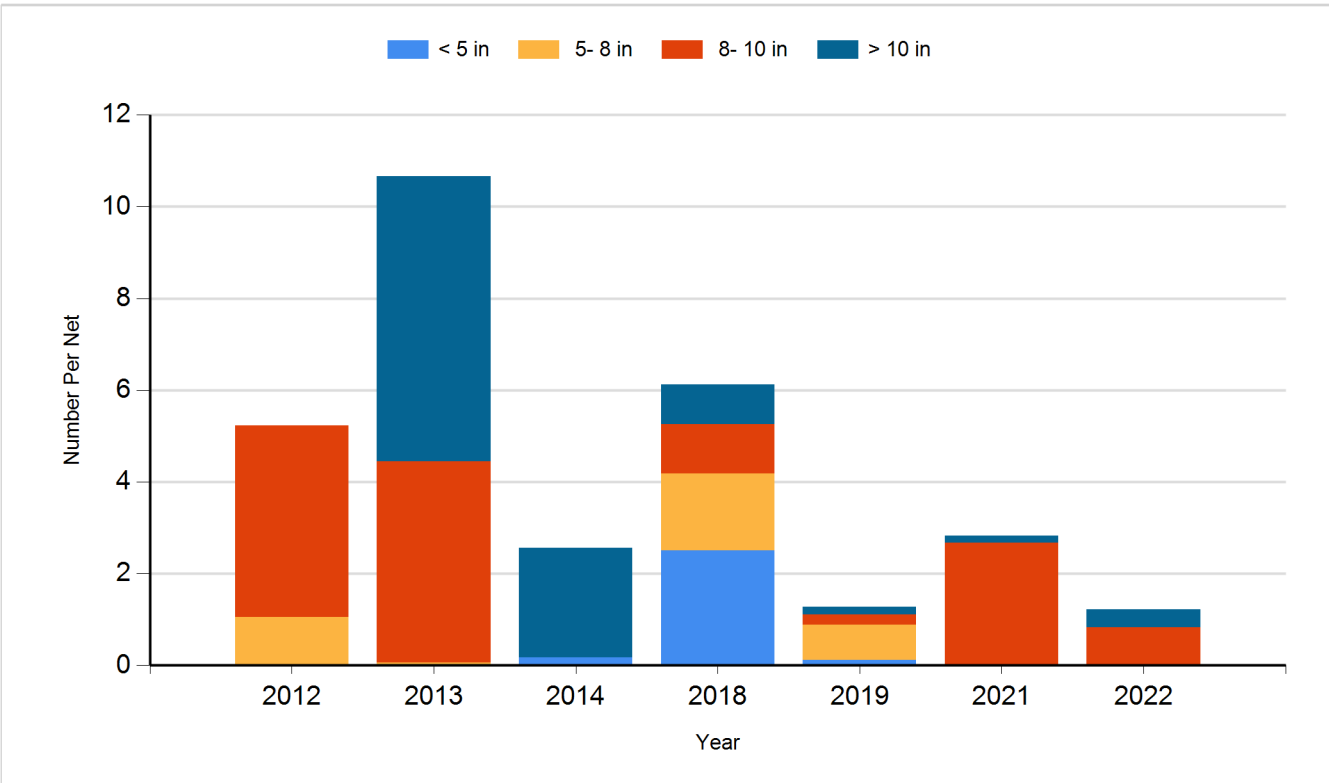
Species: Black Bullhead
Gear: std exp gill net



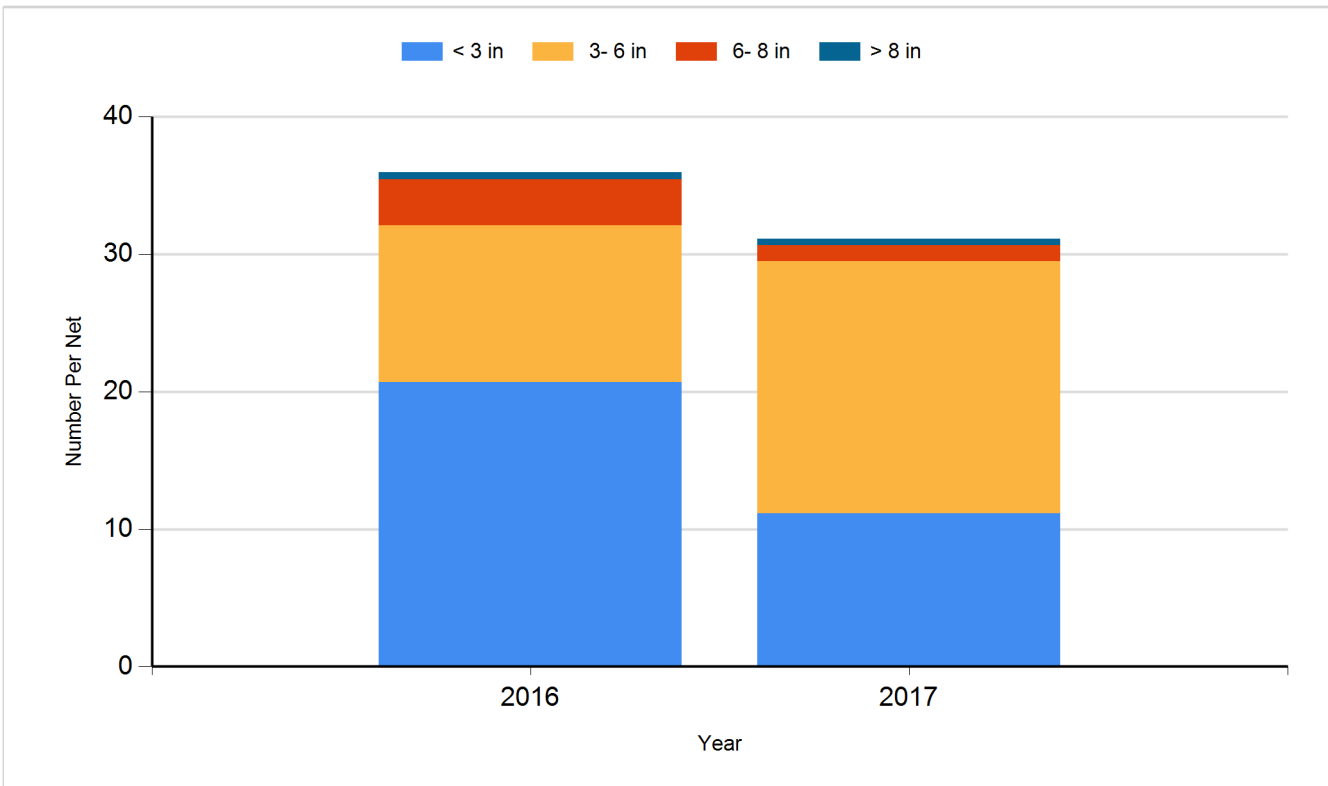
Species: Black Crappie
Gear: AFS std frame net



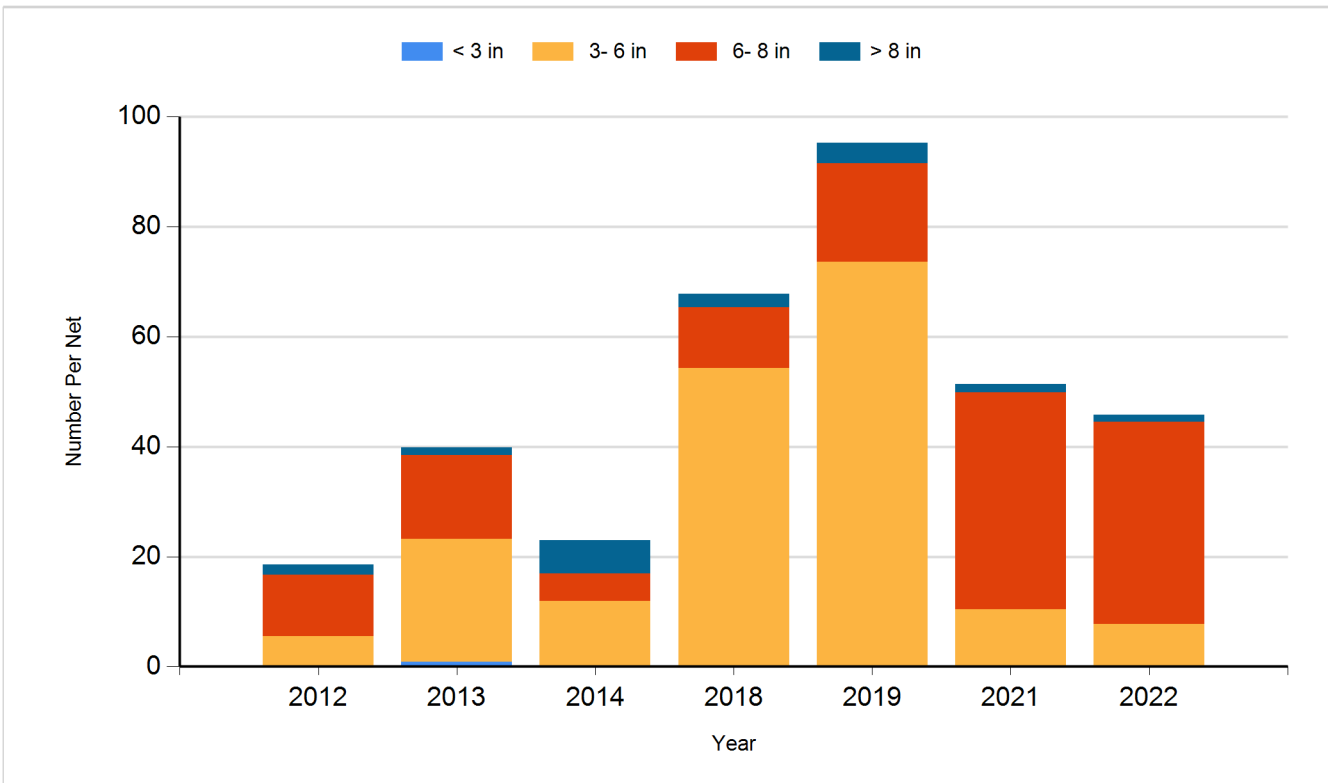
Species: Black Crappie
Gear: frame net (std 3/4 in)



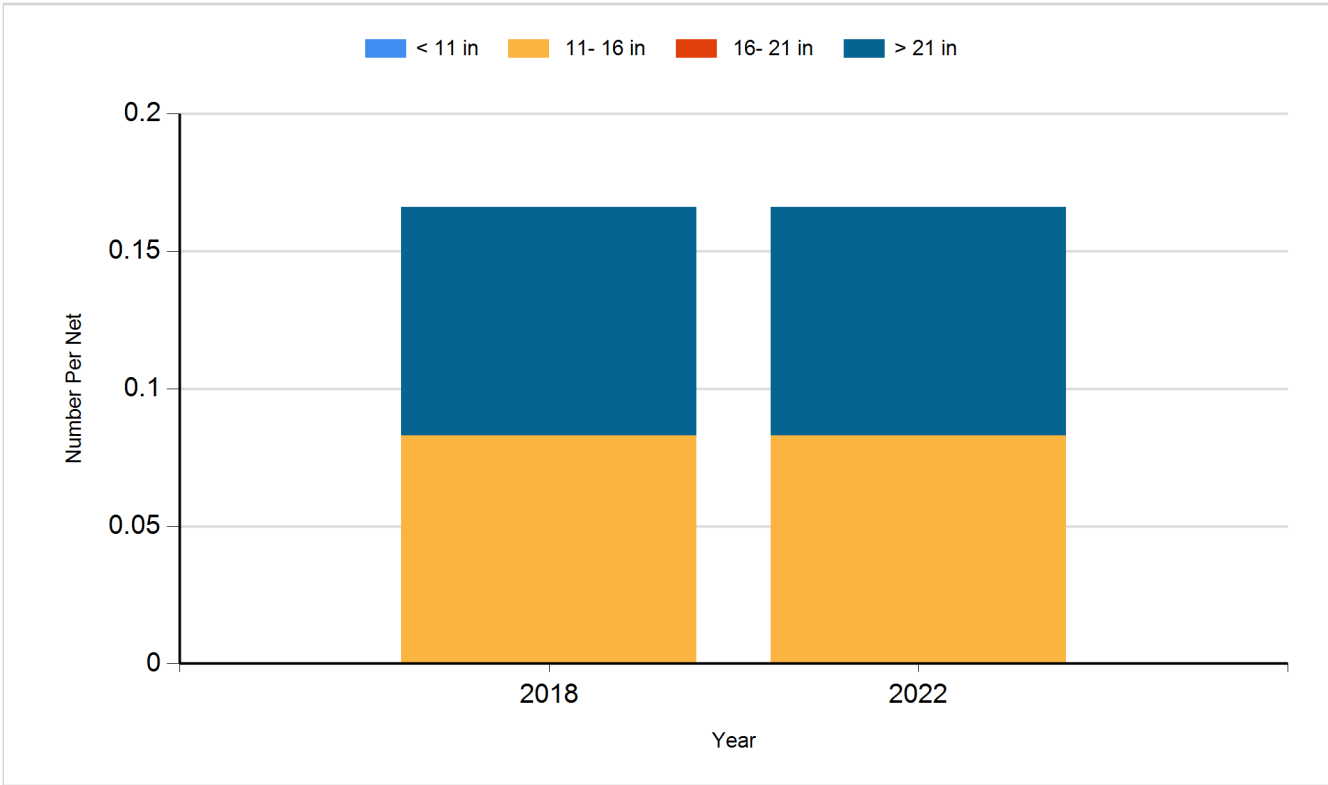
Species: Bluegill
Gear: AFS std frame net



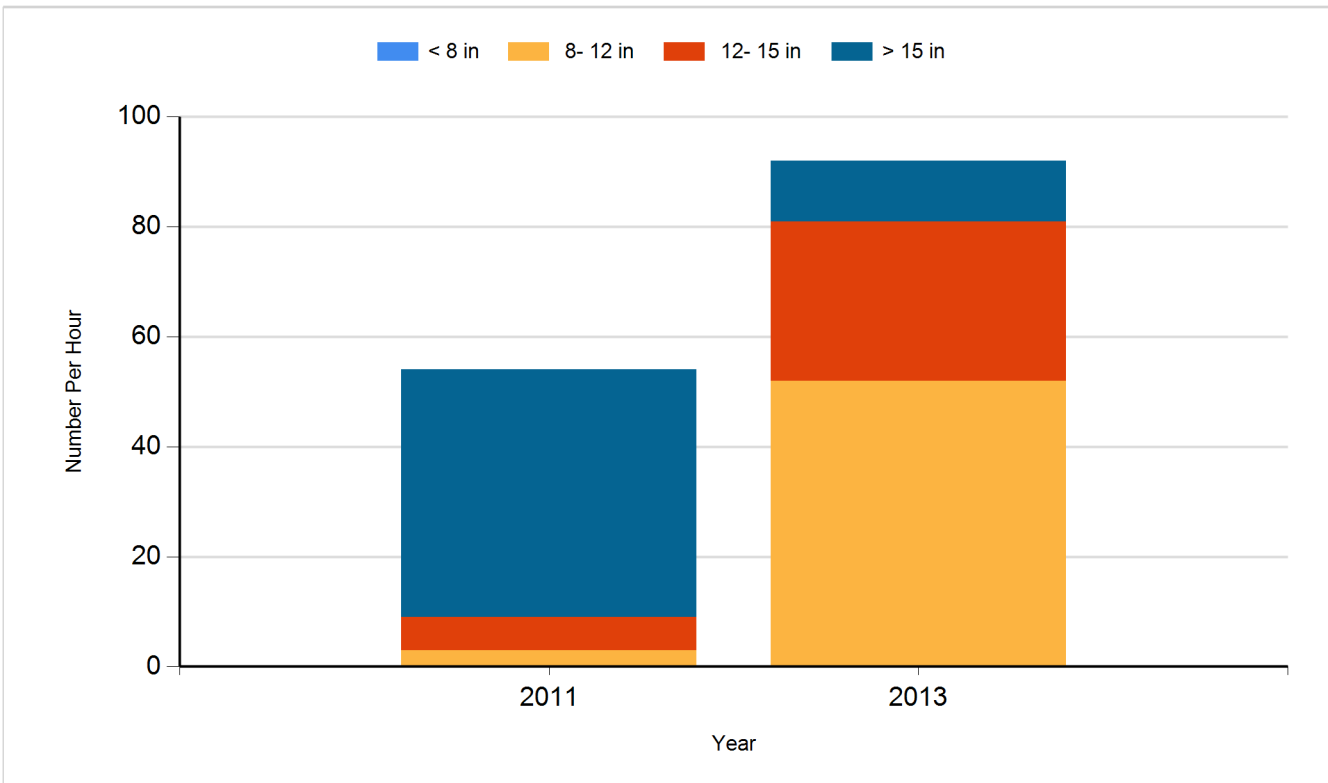
Species: Bluegill
Gear: frame net (std 3/4 in)



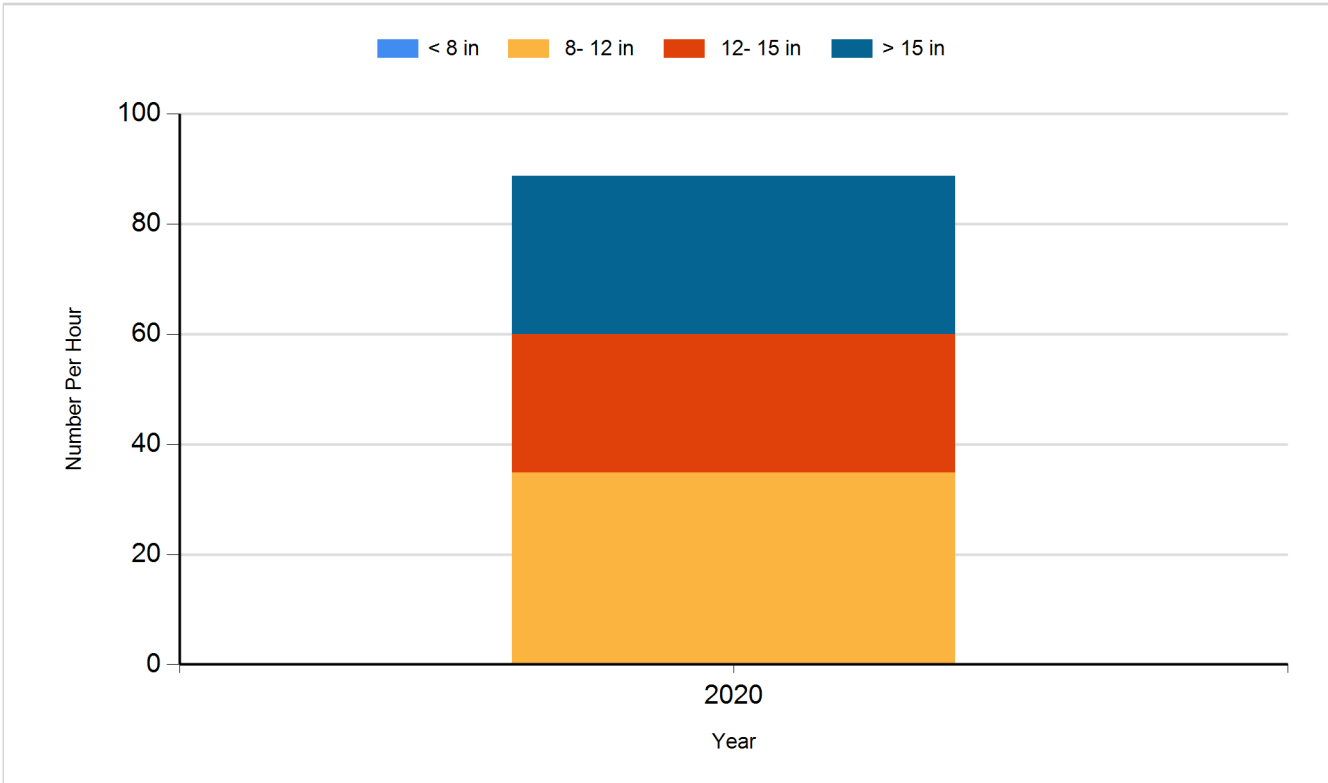
Species: Common Carp
Gear: AFS std gill net



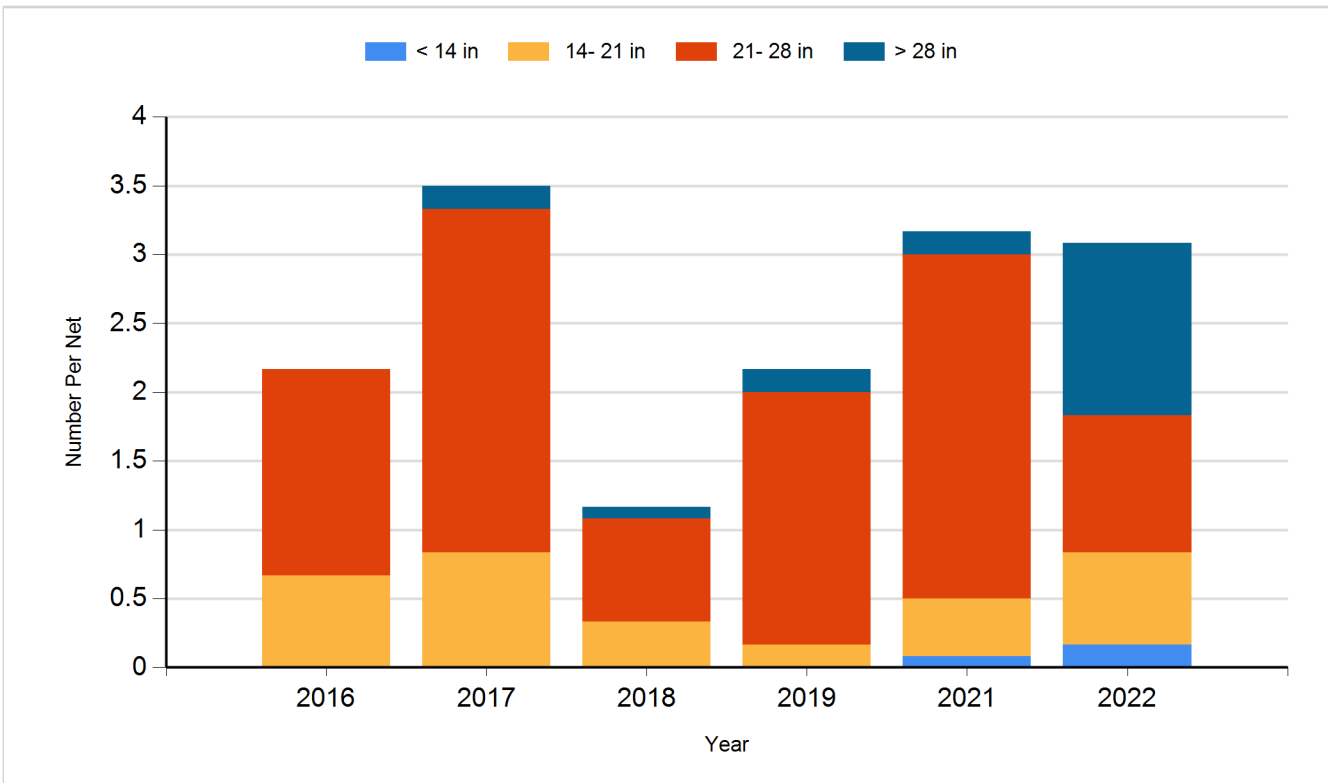
Species: Largemouth Bass
Gear: boat shocker (night, AC)



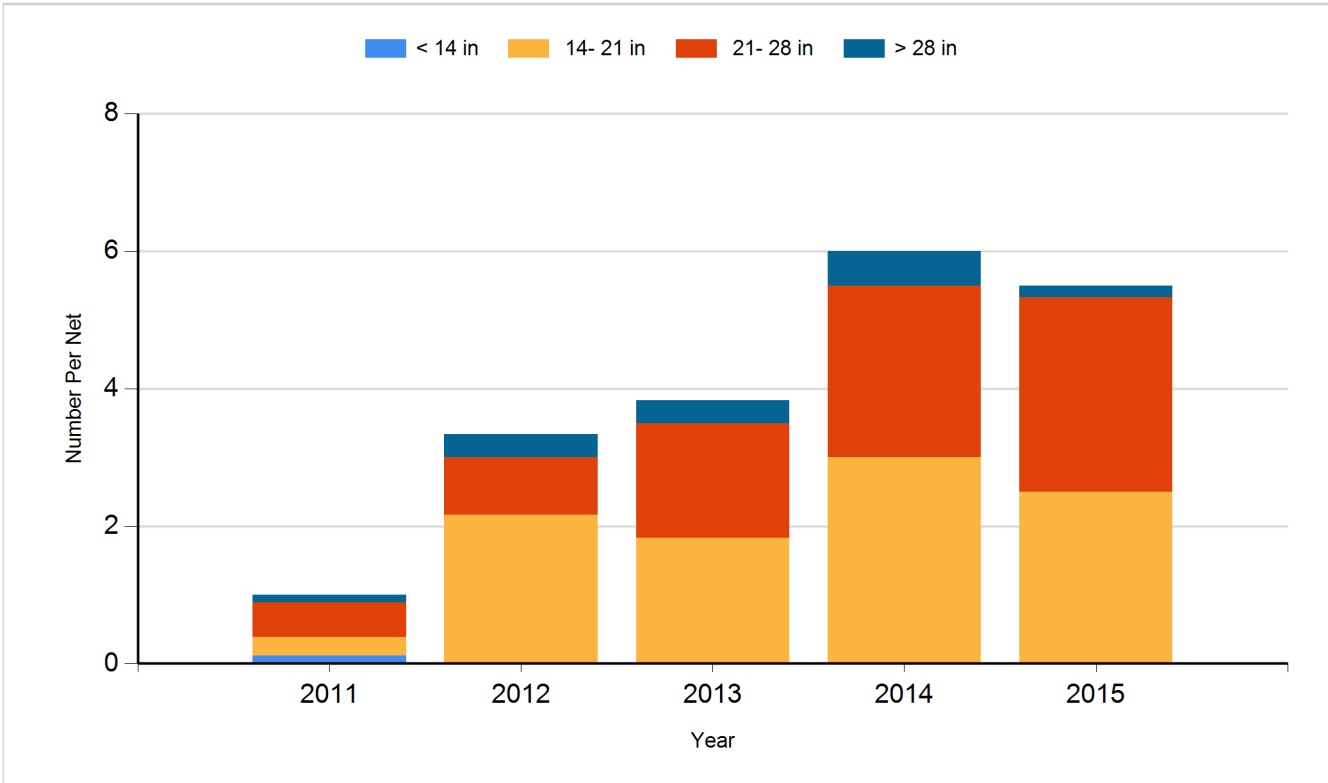
Species: Largemouth Bass
Gear: spring night EF-LMB



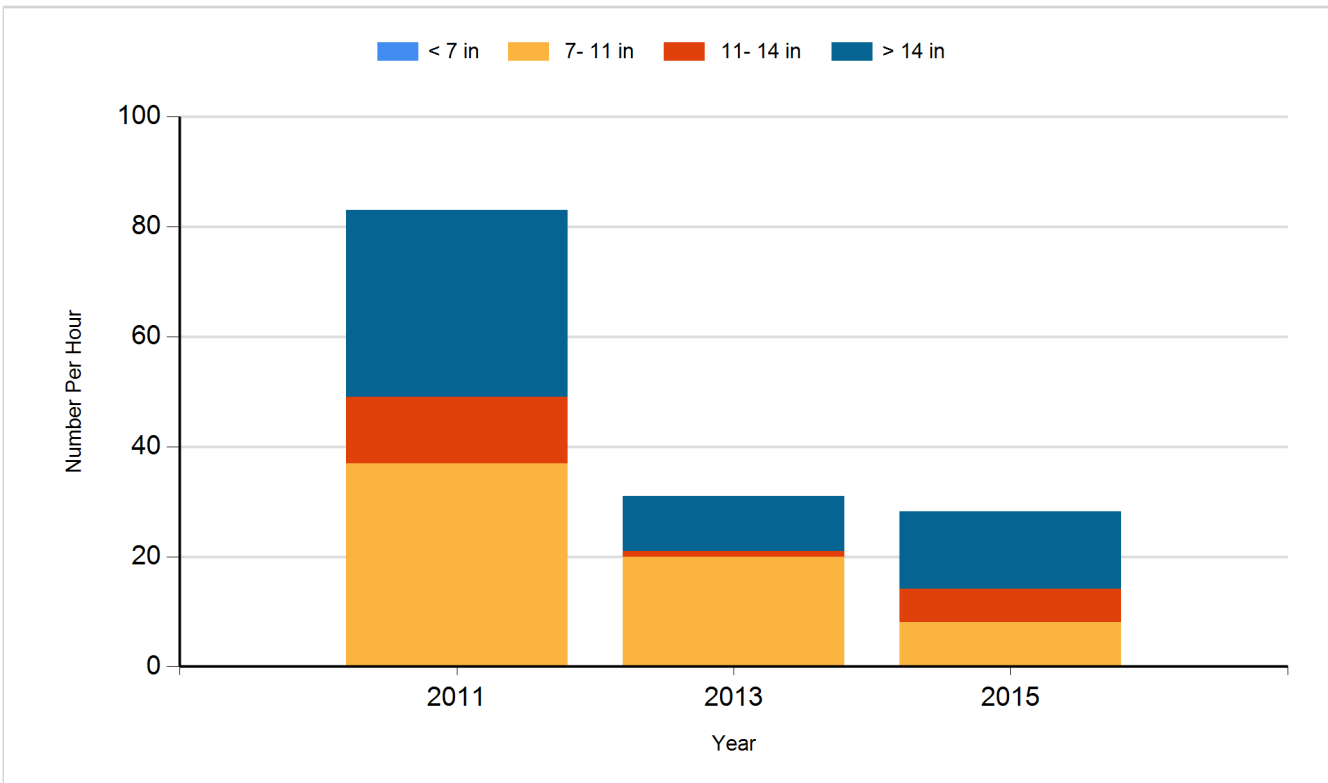
Species: Northern Pike
Gear: AFS std gill net



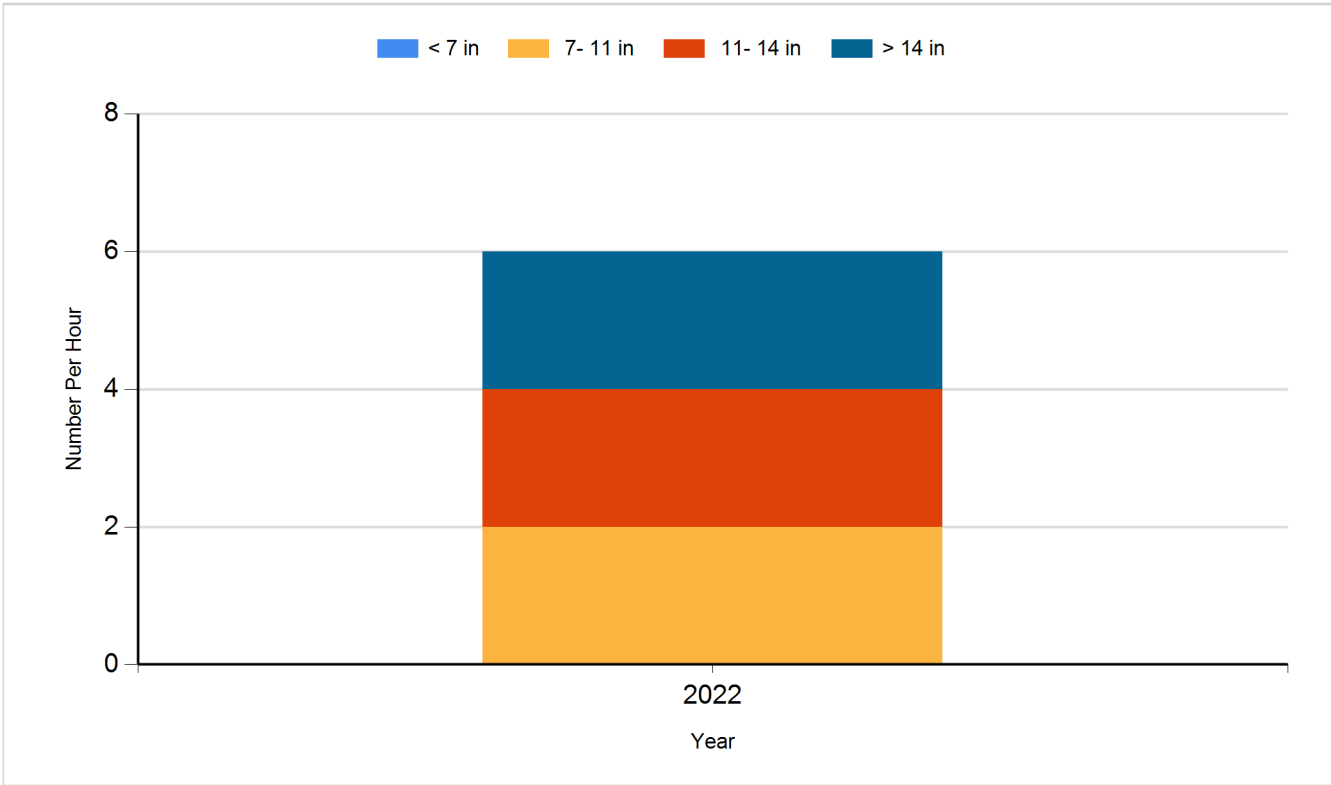
Species: Northern Pike
Gear: std exp gill net



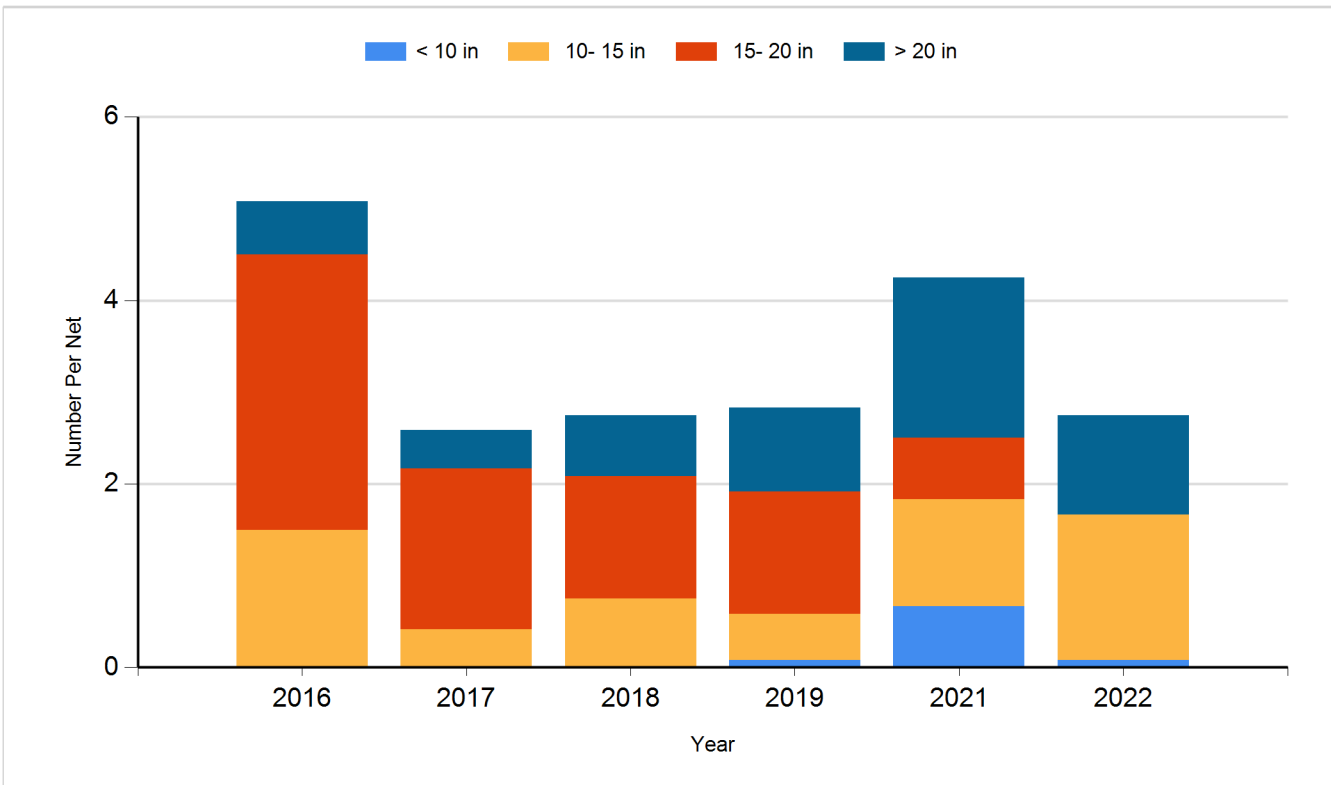
Species: Smallmouth Bass
Gear: boat shocker (night, DC)



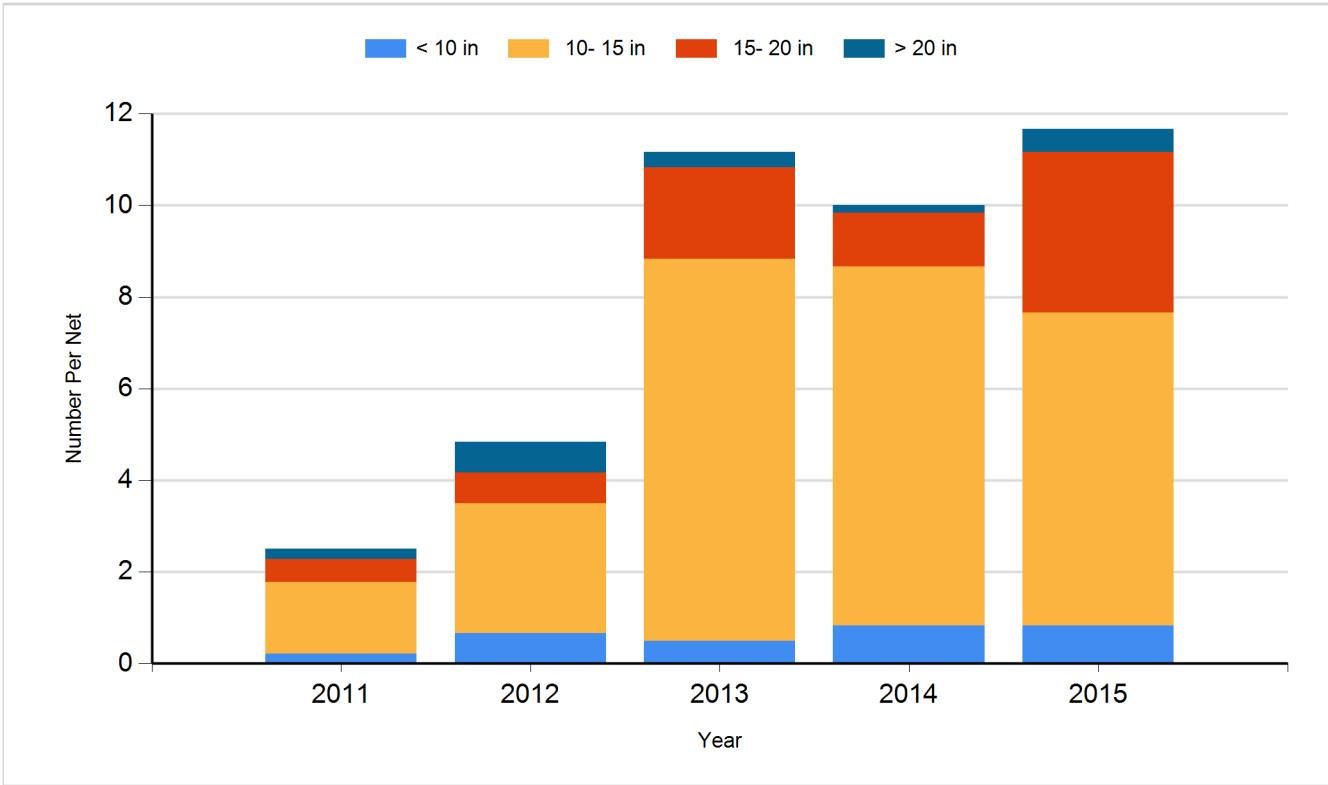
Species: Smallmouth Bass
Gear: spring day EF



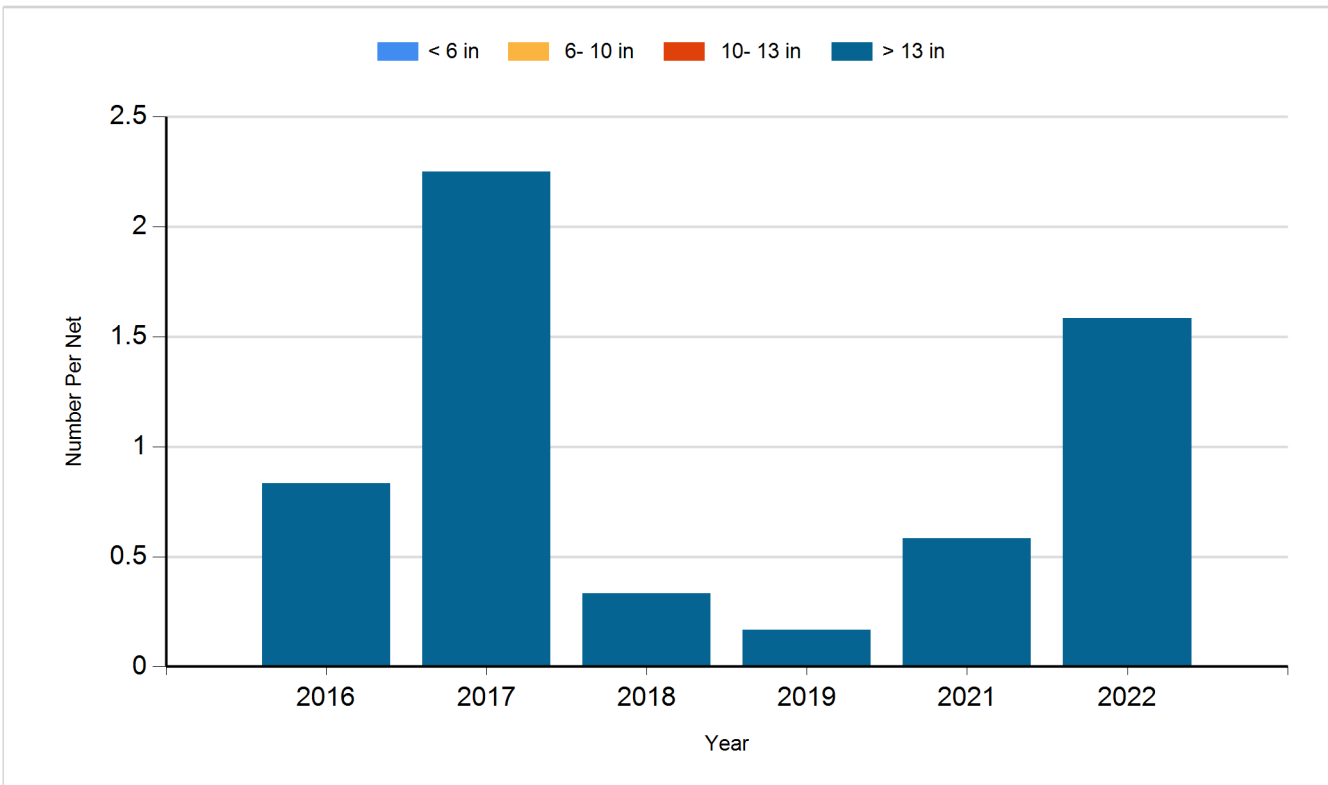
Species: Walleye
Gear: AFS std gill net



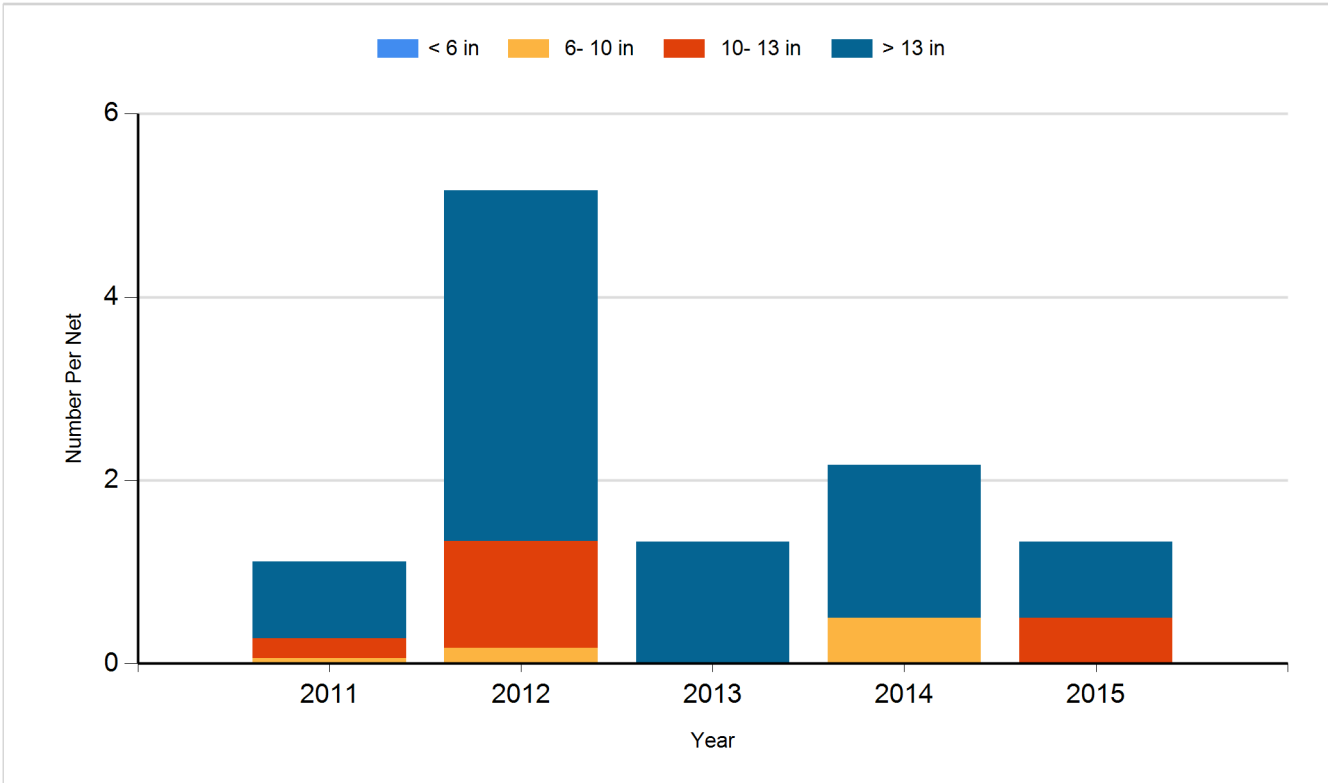
Species: Walleye
Gear: std exp gill net



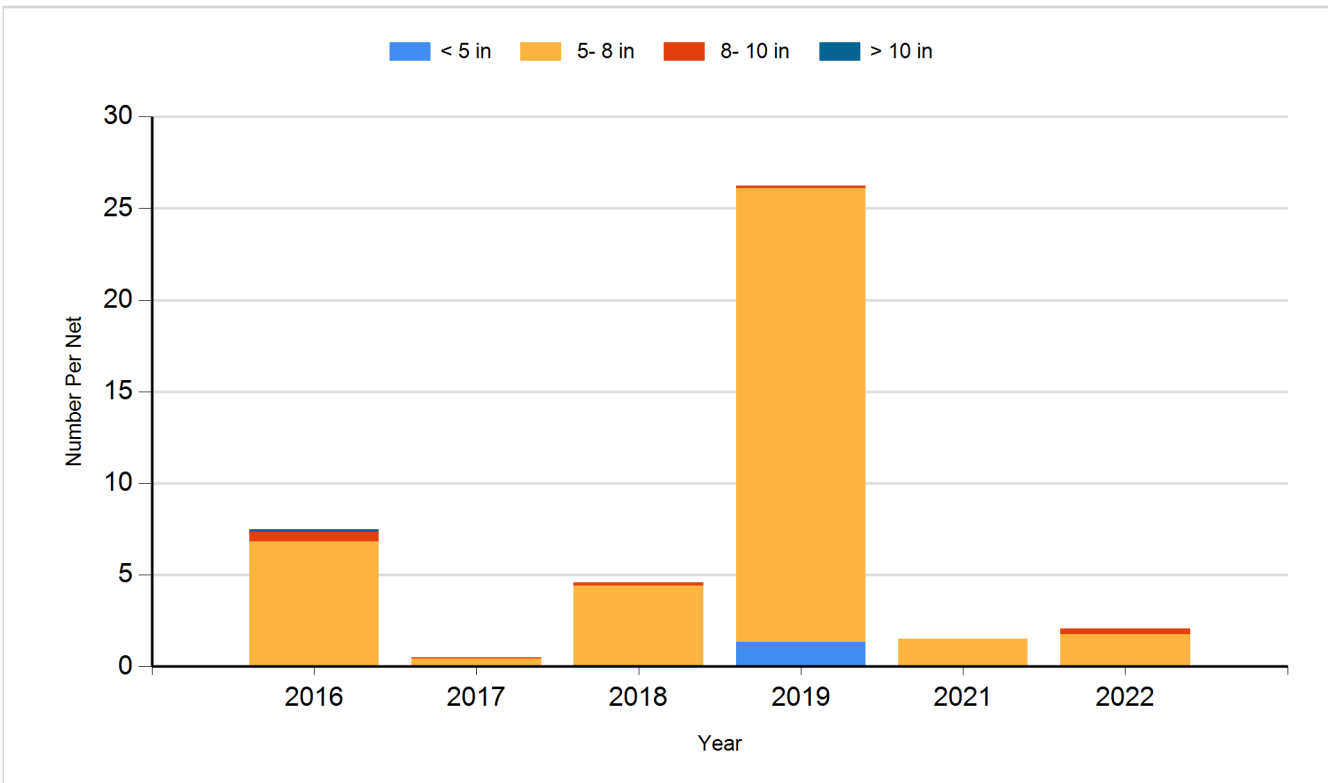
Species: White Sucker
Gear: AFS std gill net



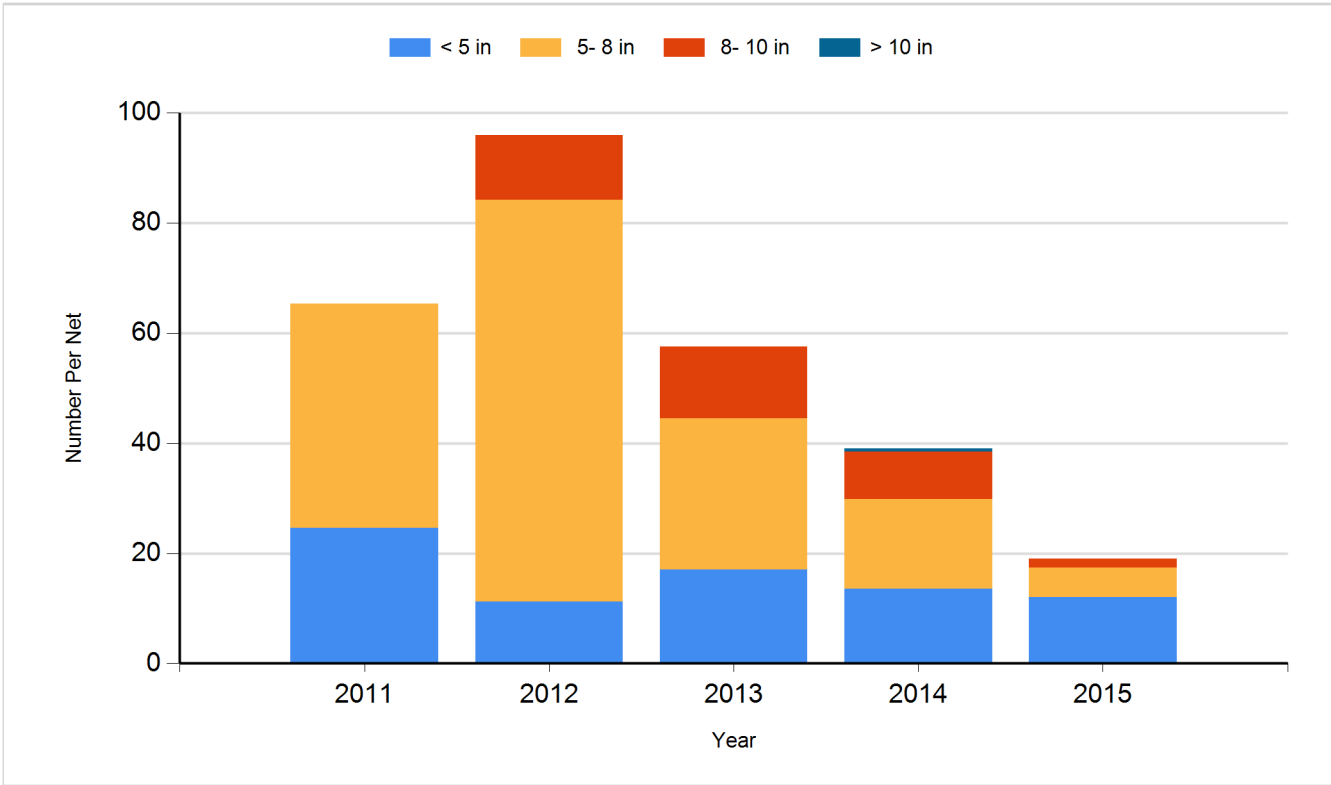
Species: White Sucker
Gear: std exp gill net



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
2011	Walleye	Fry	600,000
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