

SOUTH DAKOTA STATEWIDE FISHERIES SURVEY

Brant, Lake County

LBS-Lake-135-001

2018

Lake Information

Name:	Brant	Maximum Depth:	14 Feet
County:	Lake	Mean Depth:	10 Feet
Legal Description:	T105N-R51W-Sec. 3, 4, 9, 10	OHWM Elevation:	1,598
Surface Area:	1,046 Acres	Outlet Elevation:	1,597

Surveys and Investigations

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

Gear	Date	Effort
AFS std gill net	Jul 09, 2018	9 net-nights
frame net (std 3/4 in)	Jul 09, 2018	10 net-nights

Common Fish Species Present

Walleye

Yellow Perch

Black Bullhead

Black Crappie

Smallmouth Bass

White Sucker

White Bass

Common Carp

Northern Pike

Bluegill

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	11	1.2	1.4	73		18			
	Black Bullhead	25	2.8	0.9	84		36	15		
	Black Crappie	2	0.2	0.2	100		100		99	5
	Bluegill	4	0.4	0.2	100		100		109	2
	Channel Catfish	3	0.3	0.3	100		0		93	6
	Common Carp	13	1.4	1.0	100		38			
	Smallmouth Bass	41	4.3	3.5	38	12	15	9	95	1
	Walleye	17	1.8	0.7	44	20	25		86	2
	White Bass	35	3.9	1.7	100		89		93	6
	White Sucker	31	3.4	1.3	97		94			
	Yellow Perch	36	4.0	1.1	97		44	13	99	1
frame net (std 3/4 in)	Bigmouth Buffalo	6	0.6	0.4	83		17			
	Black Bullhead	132	13.2	6.1	89	4	62	6		
	Black Crappie	85	8.5	3.1	99		44	8	98	1
	Bluegill	12	1.2	0.6	92		92		108	5
	Bluegill X Gr. Sunfish Hybrid	1	0.1	0.1	0		0			
	Channel Catfish	1	0.1	0.1	100		0		100	
	Common Carp	23	2.3	1.6	91		48	16		
	Northern Pike	15	1.3	0.9	92		31		84	3
	Smallmouth Bass	89	8.5	3.3	16	6	5		86	1
	Walleye	8	0.7	0.4	29		29		85	2
	White Bass	9	0.9	0.6	100		100		83	3
	White Sucker	42	4.2	2.1	100		93			
	Yellow Bullhead	1	0.1	0.1	100		100			
	Yellow Perch	8	0.8	0.5	100		75		89	2

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.

Gear	Species	CPUE										Avg
		2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	
AFS std frame net	Bigmouth Buffalo									0.1		0.1
	Black Bullhead									16.5		16.5
	Black Crappie									9.5		9.5
	Bluegill									0.5		0.5
	Common Carp									0.1		0.1
	Smallmouth Bass									2.7		2.7
	Walleye									1.6		1.6
	White Bass									3.3		3.3
	White Sucker									2.2		2.2
Yellow Perch									0.2		0.2	
AFS std gill net	Bigmouth Buffalo									1.6	1.2	1.4
	Black Bullhead									21.0	2.8	11.9
	Black Crappie									2.0	0.2	1.1
	Bluegill									0.2	0.4	0.3
	Channel Catfish										0.3	0.3
	Common Carp									1.2	1.4	1.3
	Northern Pike									0.2		0.2
	Shorthead Redhorse									0.1		0.1
	Smallmouth Bass									0.7	4.3	2.5
	Walleye									2.7	1.8	2.3
	White Bass									4.7	3.9	4.3
	White Sucker									7.3	3.4	5.4
	Yellow Perch									6.7	4.0	5.4
fall night EF-WAE	Walleye	111.0	136.5	7.0	3.0	27.0	85.5	30.5				57.2
frame net (std 3/4 in)	Bigmouth Buffalo	6.5	4.4	4.5	1.9	0.7	0.3		2.6		0.6	2.7
	Black Bullhead	10.4	4.7	15.4	330.3	41.1	48.6	41.7	306.8		13.2	90.2
	Black Crappie	5.8	5.2	4.8	5.9	2.4	1.5	1.3	4.7		8.5	4.5
	Bluegill	1.9	3.2	2.7	1.3	0.7	0.2	0.3	1.6		1.2	1.5
	Bluegill X Gr. Sunfish Hybrid										0.1	0.1
	Channel Catfish		0.2		1.5	0.2	0.1	0.1			0.1	0.4
	Common Carp	2.6	3.5	1.2	7.1	0.3	0.7	0.2	1.3		2.3	2.1
	Green Sunfish							0.1				0.1
	Northern Pike	0.4	4.8	2.8	5.9	1.8	1.9	1.4	1.6		1.3	2.4

		CPUE										
Gear	Species	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	Avg
frame net (std 3/4 in)	Smallmouth Bass	1.9	1.6	3.8	3.0	1.2	1.4	1.1	17.0		8.5	4.4
	Sunfish Hybrid						0.0		0.0			0.0
	Walleye	0.5	2.2	0.6	1.2	0.1	0.2	0.0	1.4		0.7	0.8
	White Bass	0.3	0.9	0.2	3.8	3.0	1.8	1.3	3.9		0.9	1.8
	White Sucker	1.5	3.9	0.6	1.5	0.9	2.3	4.3	1.6		4.2	2.3
	Yellow Bullhead				0.1	0.2		0.1			0.1	0.1
	Yellow Perch	0.5	5.0	8.5	2.2		0.1	0.3	1.4		0.8	2.4
std exp gill net	Bigmouth Buffalo	4.0	4.4		0.5	0.3	1.0		0.2			1.7
	Black Bullhead	4.8	4.4	9.7	23.8	24.3	27.6	21.2	34.2			18.8
	Black Crappie	1.0	0.4		2.5				1.4			1.3
	Bluegill	0.2	0.2		0.3		0.2	0.2	0.4			0.3
	Channel Catfish	0.2			0.3	1.3			1.6			0.9
	Common Carp	0.0	1.2		0.5	0.7	0.4	0.6	2.2			0.8
	Green Sunfish	0.2										0.2
	Northern Pike	0.2	1.4	12.7	1.8	1.7	1.8	0.4	0.2			2.5
	Orangespotted Sunfish		0.0									0.0
	Smallmouth Bass	0.2	3.2	3.0	4.3	2.3	1.2	1.6	2.8			2.3
	Spottail Shiner	0.0	0.0				0.0					0.0
	Walleye	6.2	8.0	23.7	11.3	1.3	4.0	3.0	3.8			7.7
	White Bass	7.4	0.8	2.7	4.3	1.0	1.0	1.2	3.4			2.7
	White Sucker	3.4	7.2	6.0	6.0	2.7	6.8	5.2	2.6			5.0
	Yellow Perch	12.4	35.4	16.3	32.8		8.4	4.6	18.8			18.4

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										
			2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	
AFS std frame net	Black Bullhead	PSD										66	
		PSD-P										42	
		Wr										101	
	Black Crappie	PSD										57	
		PSD-P										14	
		Wr										101	
	Bluegill	PSD										40	
		PSD-P										0	
		Wr										109	
	Common Carp	PSD										100	
		PSD-P										0	
		Wr										109	
	Smallmouth Bass	PSD										19	
		PSD-P										4	
		Wr										89	
	Walleye	PSD										6	
		PSD-P										0	
		Wr										78	
	White Bass	PSD										97	
		PSD-P										82	
		Wr										86	
White Sucker	PSD										100		
	PSD-P										95		
	Wr										100		
Yellow Perch	PSD										100		
	PSD-P										100		
	Wr										84		
AFS std gill net	Black Bullhead	PSD										75	84
		PSD-P										22	36
	Black Crappie	PSD										5	100
		PSD-P										0	100
		Wr										121	99
	Bluegill	PSD										50	100
		PSD-P										0	100
		Wr										92	109
	Common Carp	PSD										100	100

Gear	Species	Index	Year											
			2009	2010	2011	2012	2013	2014	2015	2016	2017	2018		
AFS std gill net	Common Carp	PSD-P										17	38	
		PSD										100		
		PSD-P										100		
	Northern Pike	Wr										109		
		Smallmouth Bass	PSD										57	38
			PSD-P										43	15
	Wr											92	95	
	Walleye	PSD										59	44	
		PSD-P										11	25	
		Wr										83	86	
	White Bass	PSD										79	100	
		PSD-P										43	89	
		Wr										97	93	
	White Sucker	PSD										100	97	
		PSD-P										97	94	
Yellow Perch		PSD										60	97	
	PSD-P										45	44		
	Wr										99	99		
fall night EF-WAE	Walleye	Wr	94	94	89	83	88	84	89					
frame net (std 3/4 in)	Black Bullhead	PSD	96	77	51	93	100	97	98	3		89		
		PSD-P	18	27	5	11	25	57	42	2		62		
		Wr	102	93	85	92	91							
	Black Crappie	PSD	93	100	60	99	100	100	94	55		99		
		PSD-P	22	100	40	6	59	100	69	28		44		
		Wr	105	101	107	108	102	102	97	110		98		
	Bluegill	PSD	100	97	97	100	63	100	50	75		92		
		PSD-P	74	84	16	44	50	100	25	38		92		
		Wr	116	110	123	118	115	103	110	113		108		
	Common Carp	PSD	100	24	93	93	100	75	100	8		91		
		PSD-P	16	17	0	12	50	25	100	8		48		
		Wr	98	99	98	92	94							
	Northern Pike	PSD	40	36	15	66	71	91	100	100		92		
		PSD-P	20	3	9	14	24	13	18	31		31		
		Wr	66	84	81	80	84	90	76	82		84		
	Smallmouth Bass	PSD	26	42	9	42	21	82	31	8		16		
		PSD-P	4	5	4	8	0	24	8	2		5		

Gear	Species	Index	Year									
			2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
frame net (std 3/4 in)	Smallmouth Bass	Wr	89	94	99	91	99	104	98	101		86
		PSD	67	15	29	14	100	100	0	43		29
		PSD-P	67	4	0	7	0	50	0	29		29
	Walleye	Wr	78	90	84	91	75	93			82	85
		PSD	67	100	100	100	100	100	100	100	97	100
		PSD-P	67	91	50	96	100	100	100	59		100
	White Bass	Wr	95	94	97	91	87	91	85	94		83
		PSD	100	91	100	100	100	100	100	100	100	100
		PSD-P	100	72	57	94	100	96	98	100		93
	White Sucker	Wr	100	95	98	91	94					
		PSD	100	83	73	100		0	33	79		100
		PSD-P	17	77	23	8		0	33	43		75
	Yellow Perch	Wr	106	103	103	99		127	94	100		89
		PSD	83	73	72	84	100	98	100	33		
		PSD-P	0	32	14	1	10	17	16	15		
std exp gill net	Black Bullhead	Wr	101	101	110	90	92					
		PSD	80	100		100				0		
		PSD-P	40	100		0				0		
Black Crappie	Wr	109	94		109				125			
	PSD	100	100		100		0	100	50			
	PSD-P	100	100		100		0	0	50			
Bluegill	Wr	112	133		91		114	107	127			
	PSD	0	67		100	100	50	100	9			
	PSD-P	0	50		0	100	50	100	0			
Common Carp	Wr		100		104	92						
	PSD	100	14	8	71	100	89	100	100			
	PSD-P	0	0	0	14	20	56	100	0			
Northern Pike	Wr	71	89	81	78	93	93	79	129			
	PSD	0	75	78	18	43	50	50	14			
	PSD-P	0	44	56	12	0	33	38	0			
Smallmouth Bass	Wr	76	89	93	94	87	108	100	91			
	PSD	13	15	37	11	75	35	67	0			
	PSD-P	6	3	1	4	25	10	40	0			
Walleye	Wr	81	88	85	90	88	89	85	85			
	PSD	100	100	100	100	100	100	100	100			
	PSD-P	51	100	100	94	100	100	100	24			
White Bass	Wr	92	92	93	90	81	93	84	98			

Gear	Species	Index	Year									
			2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
std exp gill net	White Sucker	PSD	100	92	100	100	100	74	100	100		
		PSD-P	94	81	50	83	100	71	88	92		
		Wr	101	96	99	101	100					
	Yellow Perch	PSD	87	68	82	96		19	26	73		
		PSD-P	11	53	35	21		5	4	24		
		Wr	103	96	102	96		108	101	105		

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+
2013	29		212 (1)	250 (25)	245 (2)		322 (2)				
2012	71	163 (1)	225 (60)		245 (8)	311 (2)					
2011	58	151 (23)	225 (12)	277 (2)	291 (13)	306 (7)	336 (1)				
2010	62			263 (54)	277 (7)	305 (1)					
2009	68		208 (41)	248 (19)	276 (6)		320 (1)	335 (1)			

Species: Bluegill

Mean Length (expanded sample number) at capture by age											
Year	N	1	2	3	4	5	6	7	8	9	10+
2013	8	125 (4)			225 (3)				265 (1)		
2012	16		179 (3)	195 (8)	213 (4)	215 (1)					

Species: Walleye

Mean Length (expanded sample number) at capture by age											
Year	N	1	2	3	4	5	6	7	8	9	10+
2018	17	270 (8)	339 (2)	383 (1)	454 (2)	443 (1)					576 (3)
2017	30	247 (11)	384 (4)	437 (10)	482 (3)			551 (2)			
2016	30	255 (15)	297 (15)								
2015	32	203 (17)	351 (6)			469 (1)	540 (5)	588 (2)	471 (1)		
2014	20	266 (12)	293 (1)	398 (1)	465 (5)	578 (1)					
2013	4			396 (3)	541 (1)						
2012	50	236 (6)	314 (39)	419 (1)	474 (2)	539 (1)					718 (1)
2011	105	245 (54)	359 (32)	425 (8)	468 (11)						
2010	53	249 (25)	334 (12)	372 (15)					586 (1)		
2009	37	220 (6)	302 (25)	389 (4)			572 (1)				727 (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+
2018	36	154 (1)	243 (26)	280 (6)	294 (2)	323 (1)					
2017	67	165 (27)	248 (16)	272 (23)				335 (1)			
2016	94	179 (28)	243 (64)	293 (2)							
2015	23	165 (17)	236 (5)	296 (1)							
2014	42	165 (34)	236 (5)	260 (2)	313 (1)						
2012	131	174 (3)	227 (107)	270 (22)							
2011	49	155 (9)	240 (32)	261 (5)	308 (2)	318 (1)					
2010	177	158 (56)	231 (21)	265 (94)	311 (2)	307 (4)					
2009	61	161 (2)	220 (53)	270 (3)	303 (3)						

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).

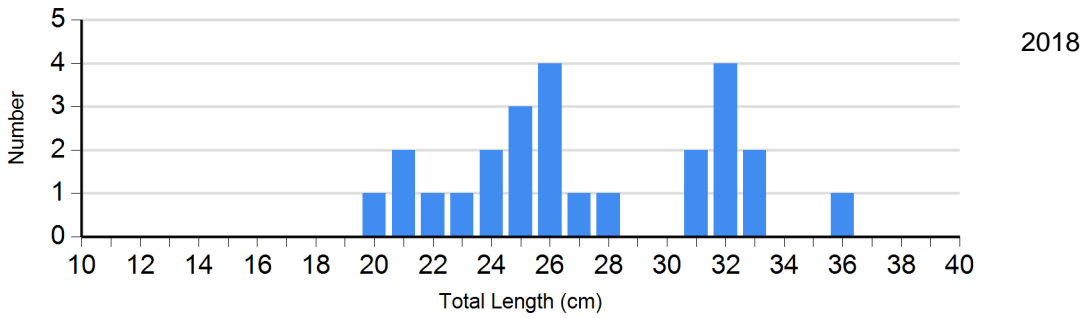
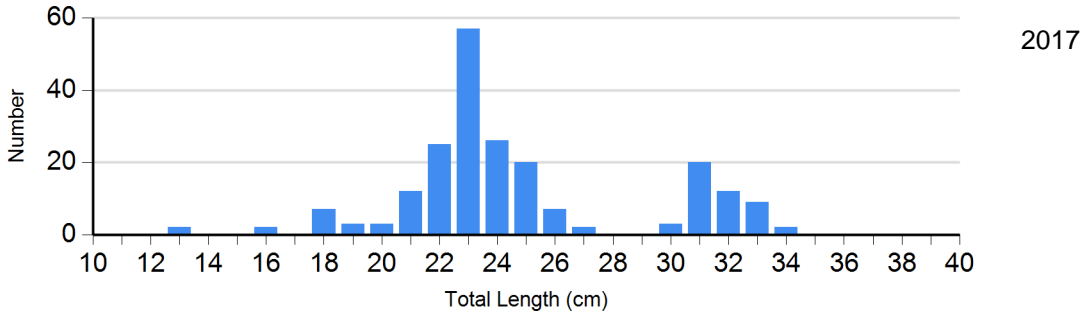
Species	Year	Length Groups							
		S-Q		Q-P		P-M		M	
		N	Wr (SE)	N	Wr (SE)	N	Wr (SE)	N	Wr (SE)
Black Crappie Frame Net	2014	0		0		16	103 (1.7)	2	91 (8.5)
	2015	1	104	4	105 (1.3)	2	96 (1.7)	9	94 (1.6)
	2016	21	121 (3.0)	13	108 (2.4)	5	98 (13.7)	8	93 (2.2)
	2017	41	108 (1.4)	41	96 (1.9)	10	96 (1.1)	3	83
	2018	1	99	47	102 (0.9)	36	94 (0.8)	1	86
Bluegill Frame Net	2014	0		0		2	103 (9.3)	0	
	2015	2	103 (22.1)	1	117	1	117	0	
	2016	4	105 (5.8)	6	124 (2.6)	6	108 (2.4)	0	
	2017	3	104 (14.6)	2	116 (8.3)	0		0	
	2018	1	106	0		11	108 (4.0)	0	
Northern Pike Gill Net	2014	1	86	3	85 (8.4)	5	99 (6.3)	0	
	2015	0		0		2	79 (18.7)	0	
	2016	0		1	129	0		0	
	2017	0		0		1	105	1	113
Walleye Gill Net	2014	13	86 (3.7)	5	93 (5.7)	2	99 (1.2)	0	
	2015	5	78 (1.7)	4	89 (1.8)	6	88 (2.3)	0	
	2016	19	85 (1.2)	0		0		0	
	2017	11	79 (1.2)	13	83 (1.5)	3	94 (3.9)	0	
	2018	9	89 (2.6)	3	81 (4.6)	3	84 (2.2)	1	83
White Bass Gill Net	2018	0		4	128 (38.3)	28	89 (0.9)	3	80 (2.8)
White Bass Gill Net	2014	0		0		2	99 (2.3)	3	89 (1.3)
	2015	0		0		1	79	5	84 (2.0)
	2016	0		13	99 (4.0)	0		4	97 (8.2)

Species	Year	Length Groups							
		S-Q		Q-P		P-M		M	
		N	Wr (SE)	N	Wr (SE)	N	Wr (SE)	N	Wr (SE)
White Bass Gill Net	2017	10	92 (1.8)	17	103 (8.5)	11	93 (1.4)	9	94 (2.1)
Yellow Perch Gill Net	2014	34	108 (1.9)	6	111 (12.8)	1	101	1	91
	2015	17	101 (2.2)	5	103 (2.9)	1	90	0	
	2016	25	104 (1.5)	46	106 (1.2)	23	104 (1.3)	0	
	2017	27	101 (2.1)	10	98 (1.6)	29	99 (1.5)	1	80
	2018	1	96	19	100 (1.4)	15	99 (1.6)	1	85

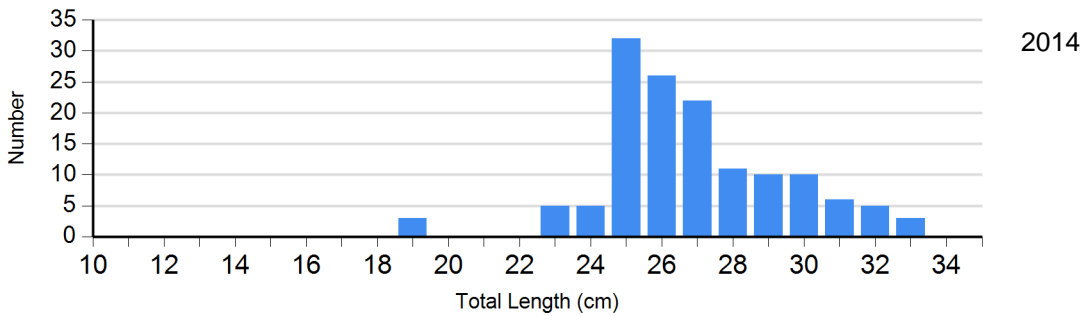
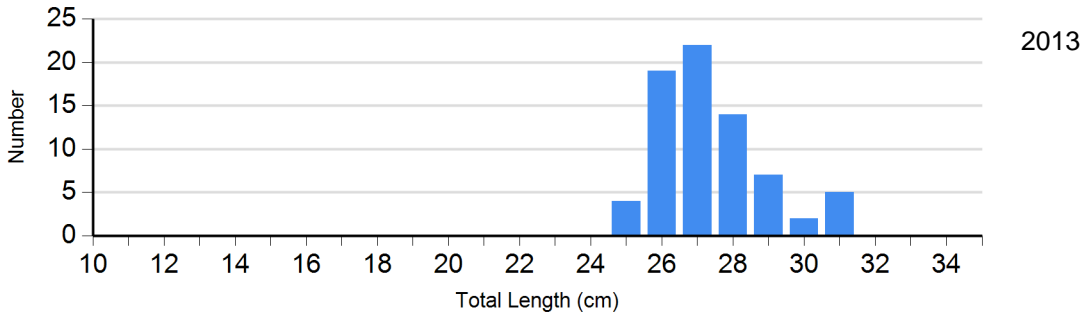
Length Frequency Distribution

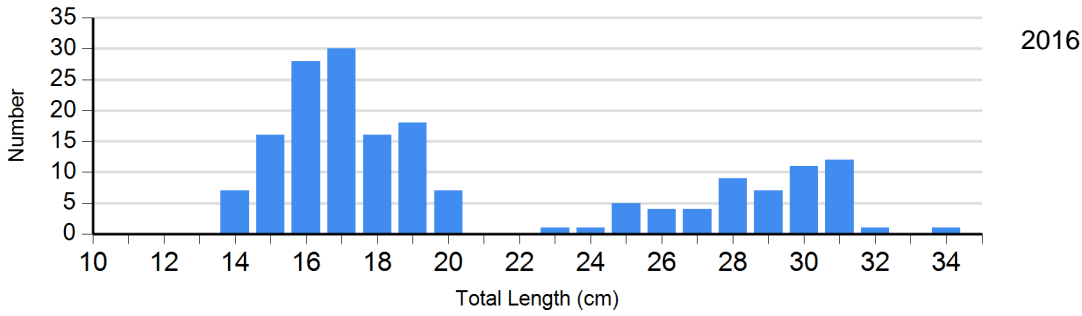
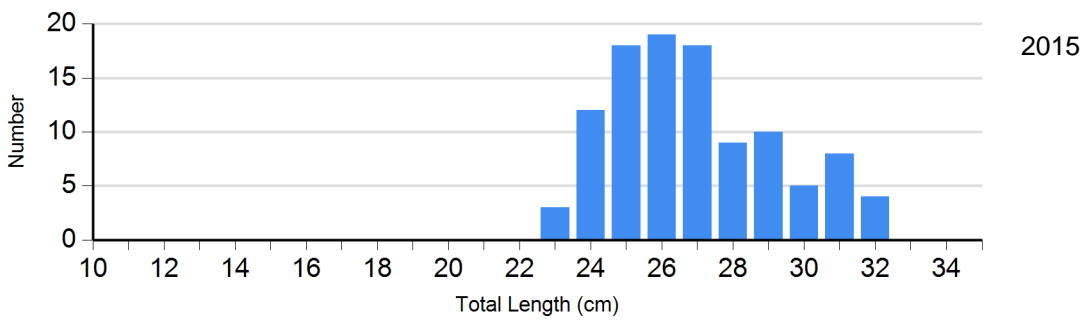
Length frequency histogram of species sampled by year.

Species: Black Bullhead
Gear: AFS std gill net

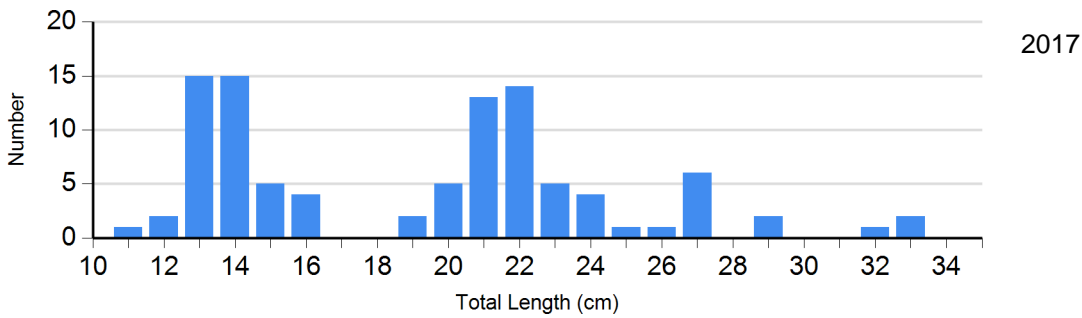


Species: Black Bullhead
Gear: std exp gill net

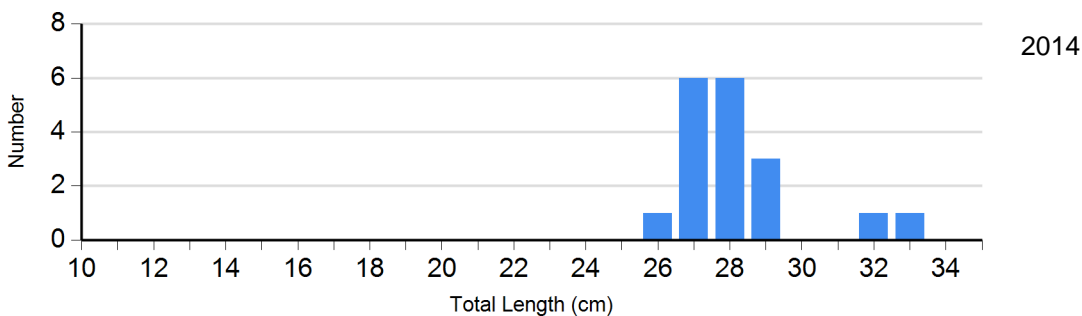
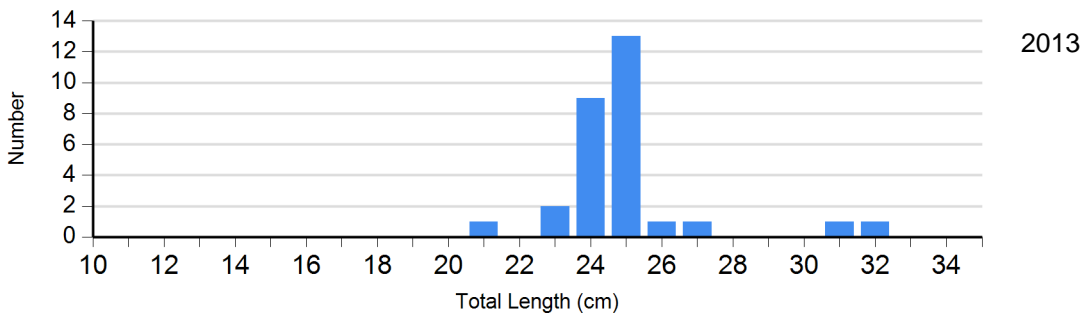


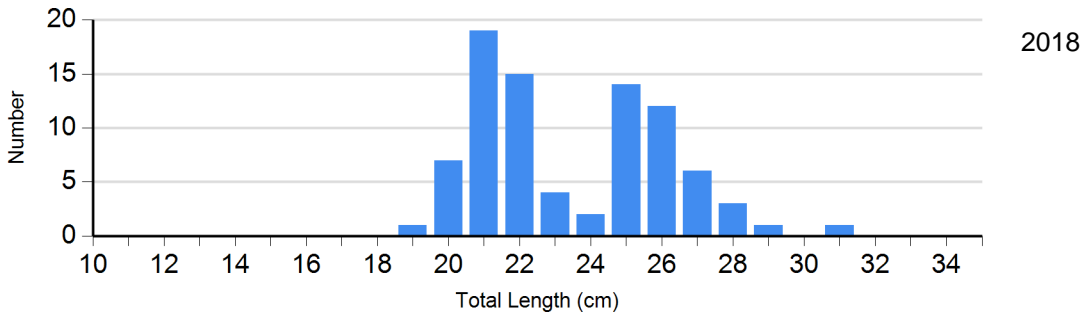
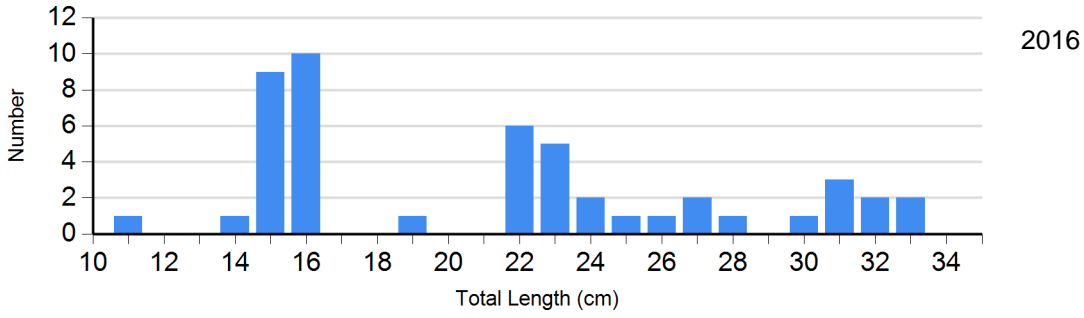
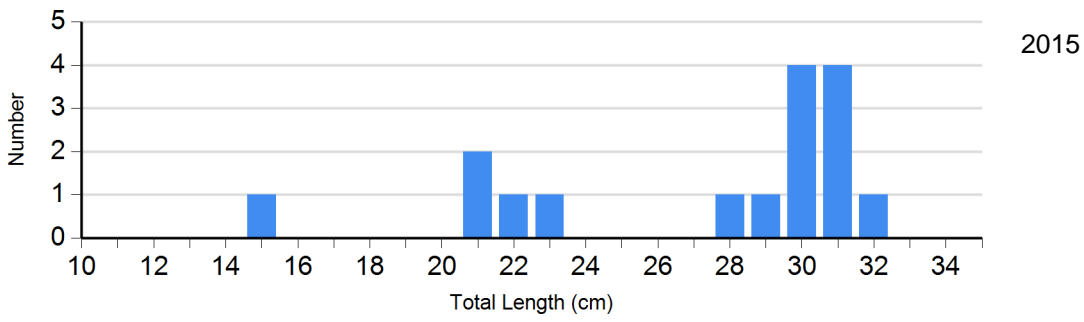


Species: Black Crappie
Gear: AFS std frame net

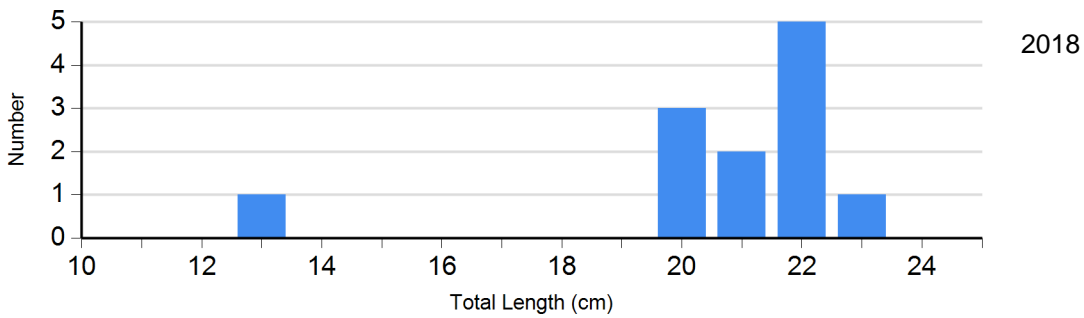
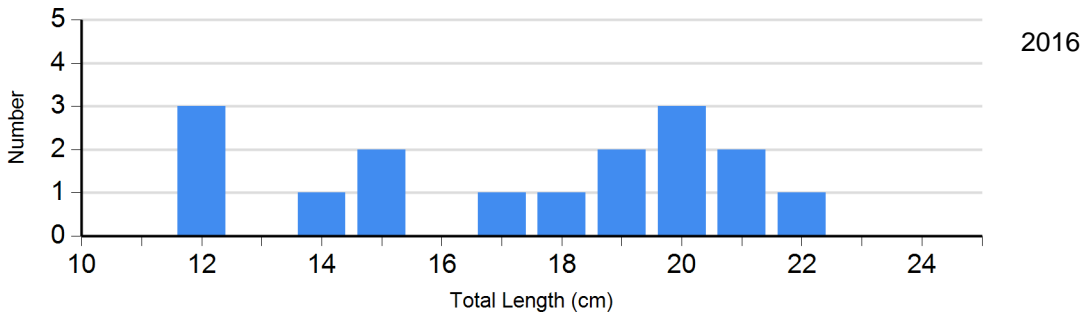


Species: Black Crappie
Gear: frame net (std 3/4 in)

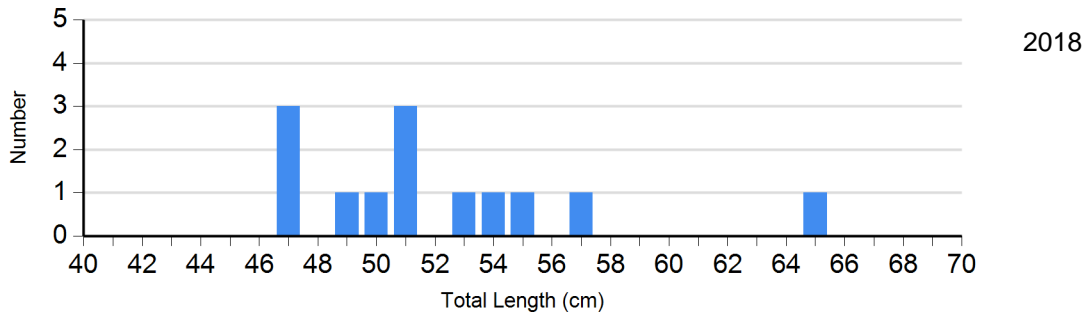
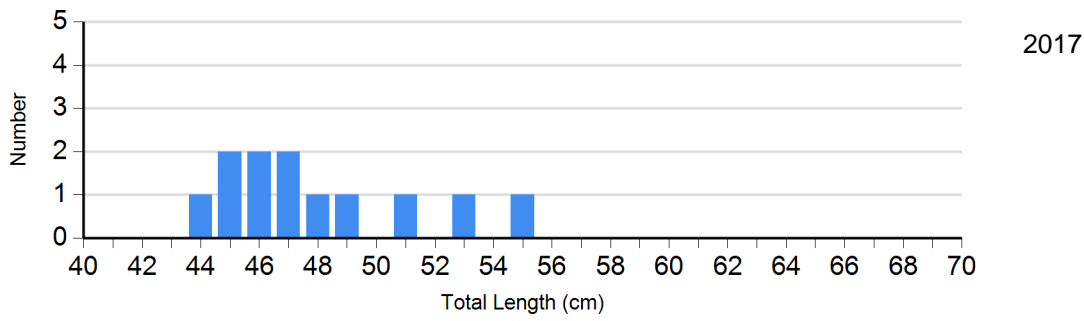




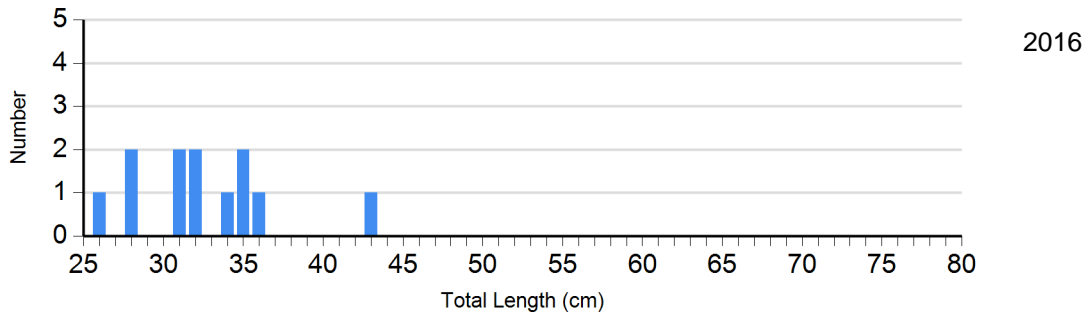
Species: Bluegill
 Gear: frame net (std 3/4 in)



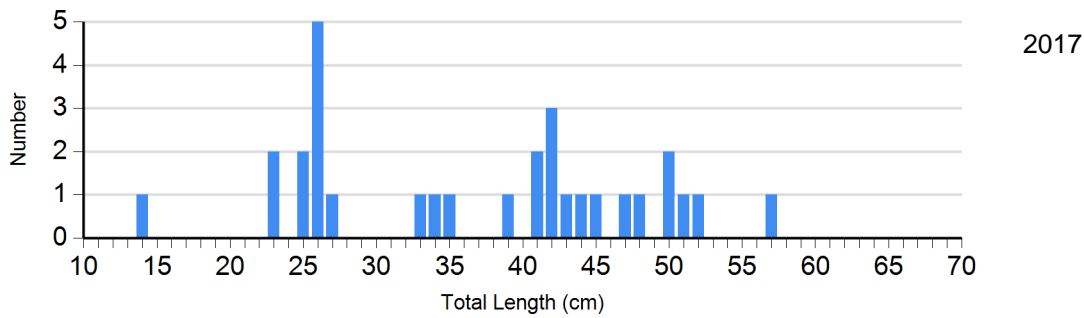
Species: Common Carp
Gear: AFS std gill net

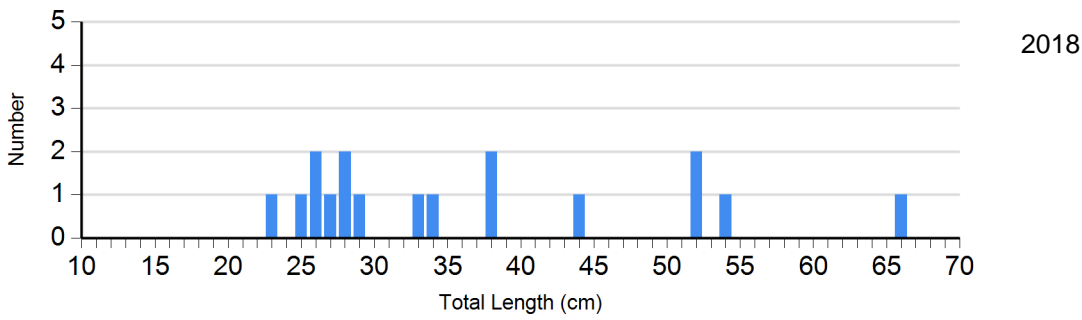


Species: Common Carp
Gear: std exp gill net

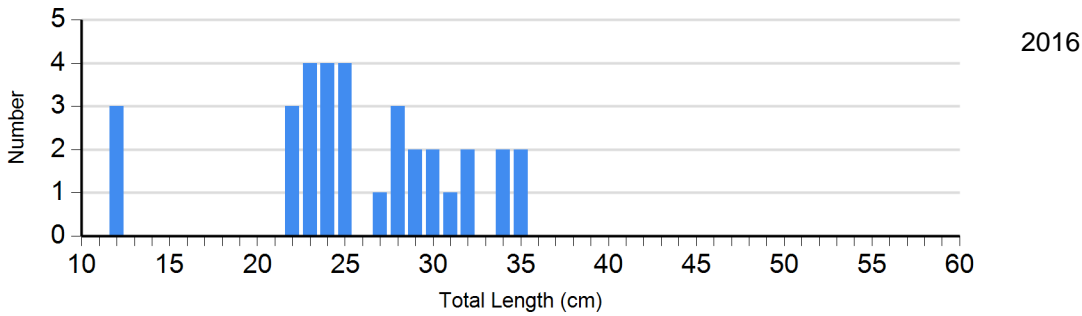
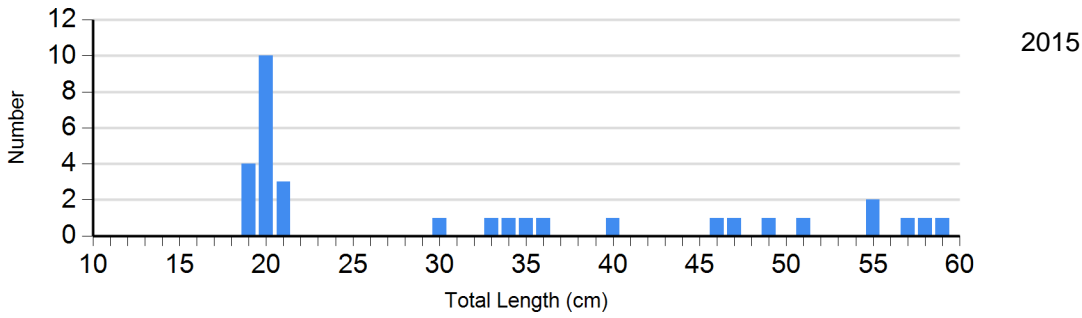
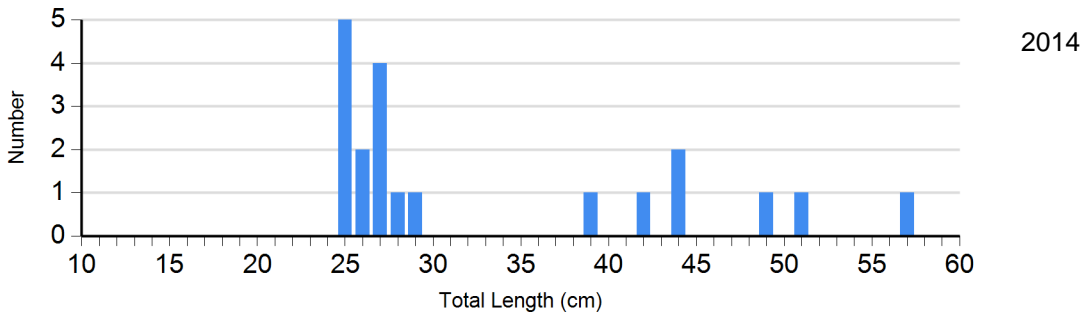


Species: Walleye
Gear: AFS std gill net

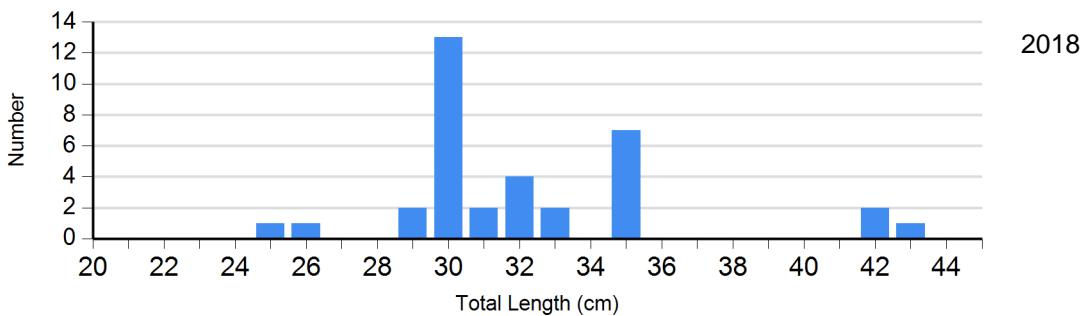




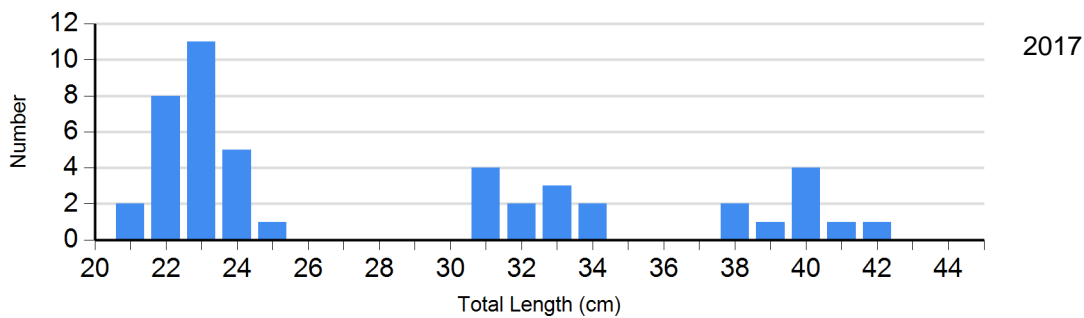
Species: Walleye
Gear: std exp gill net



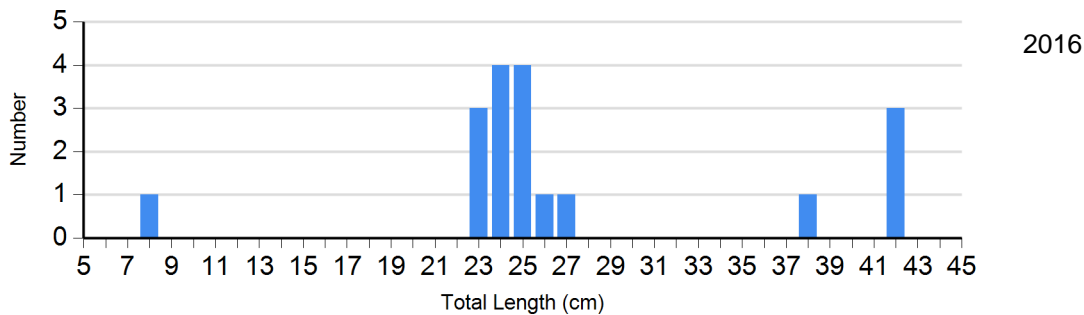
Species: White Bass
Gear: AFS std gill net



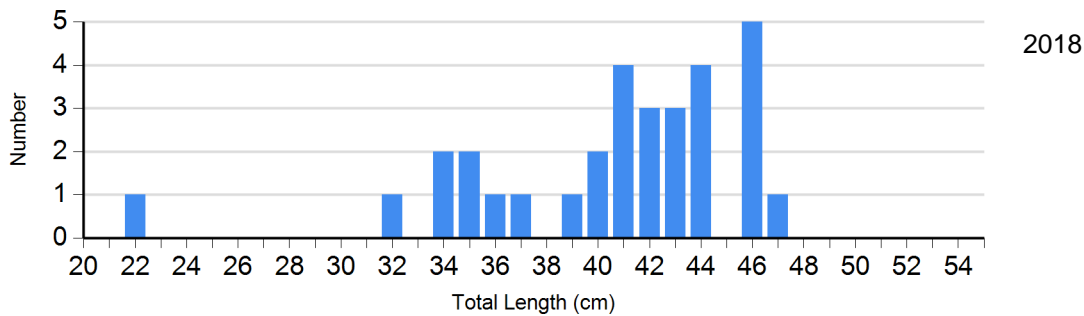
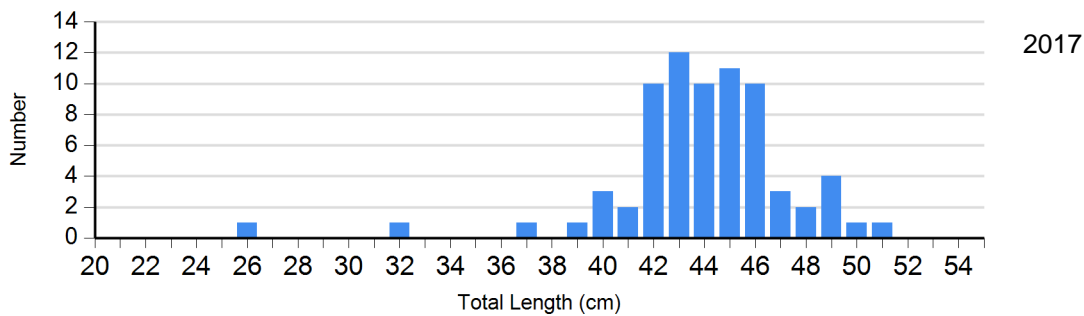
Species: White Bass
 Gear: AFS std gill net



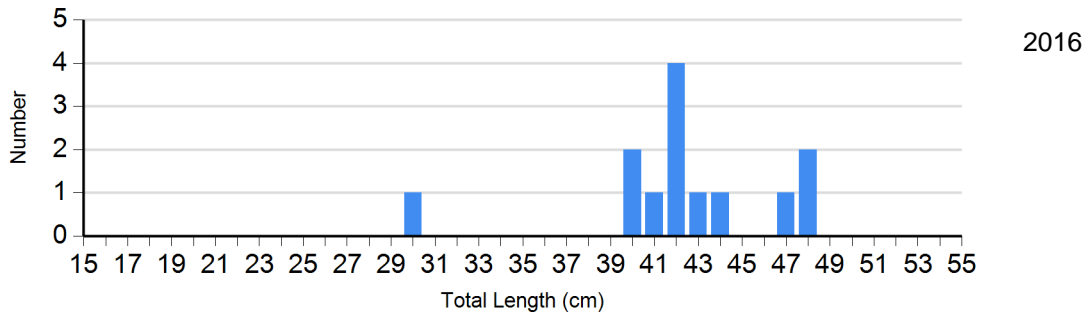
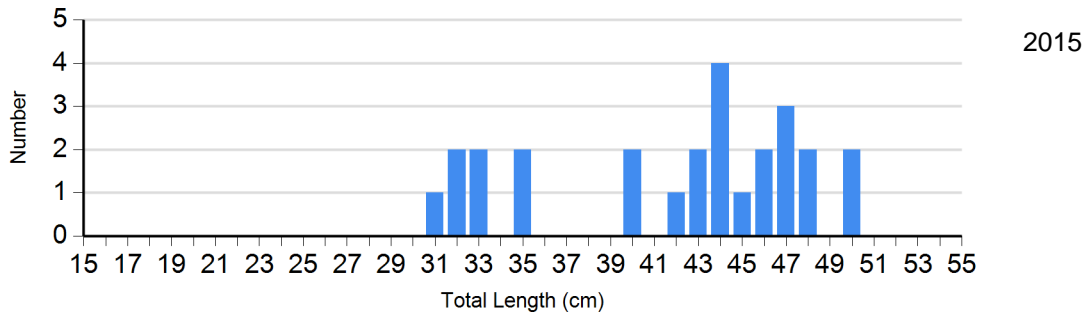
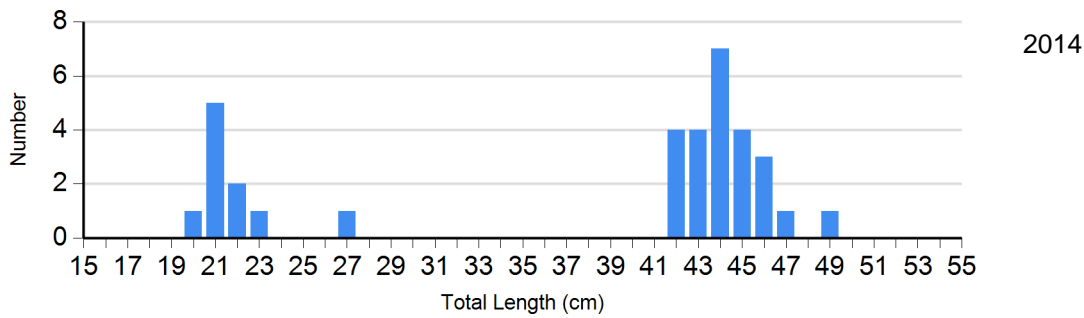
Species: White Bass
 Gear: std exp gill net



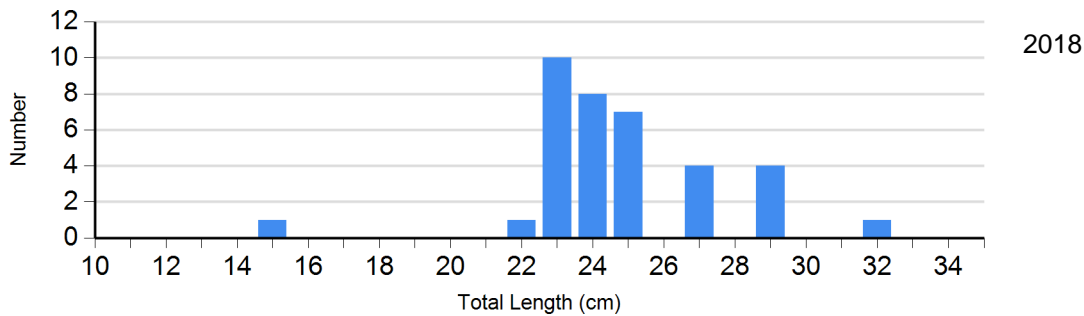
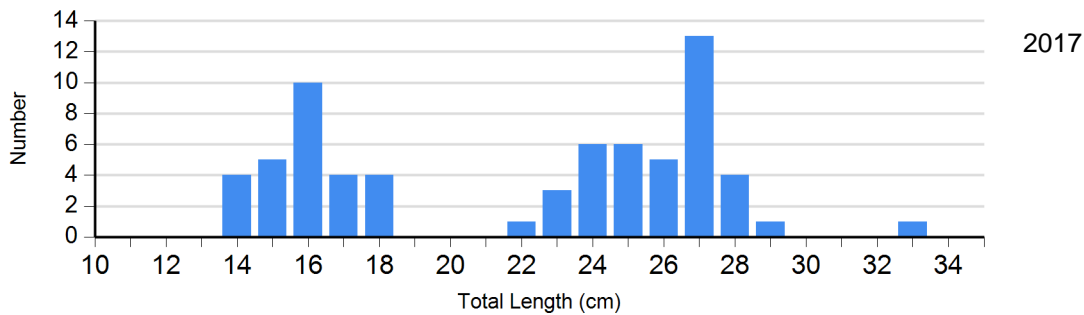
Species: White Sucker
 Gear: AFS std gill net



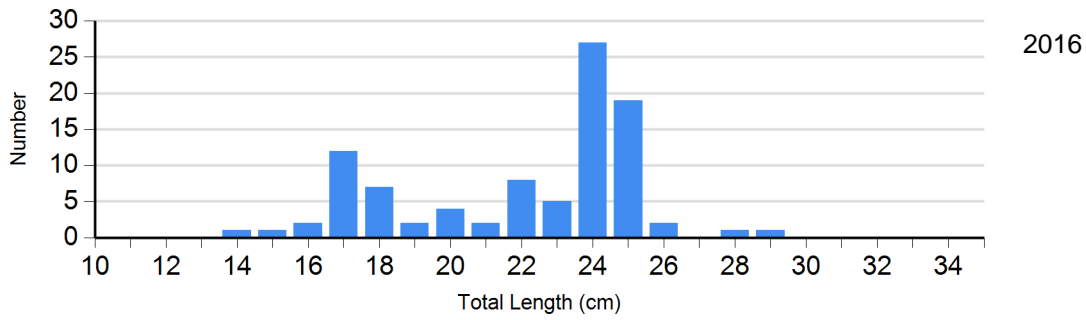
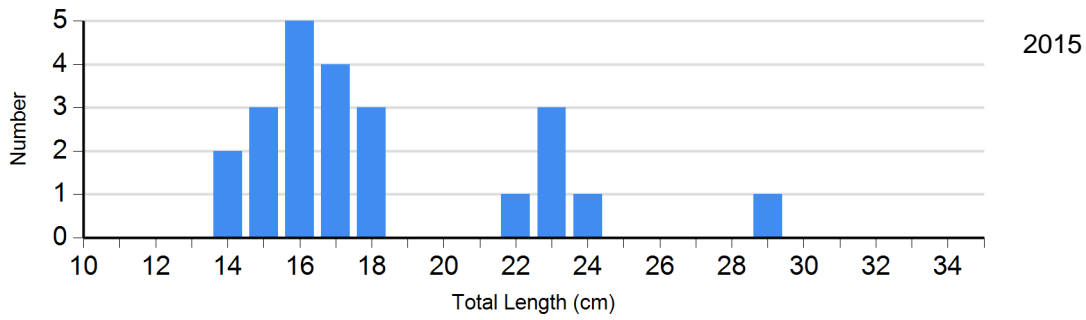
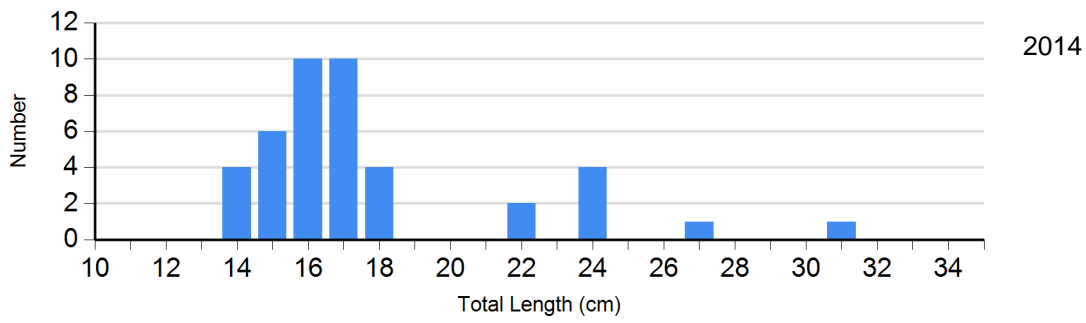
Species: White Sucker
 Gear: std exp gill net



Species: Yellow Perch
 Gear: AFS std gill net



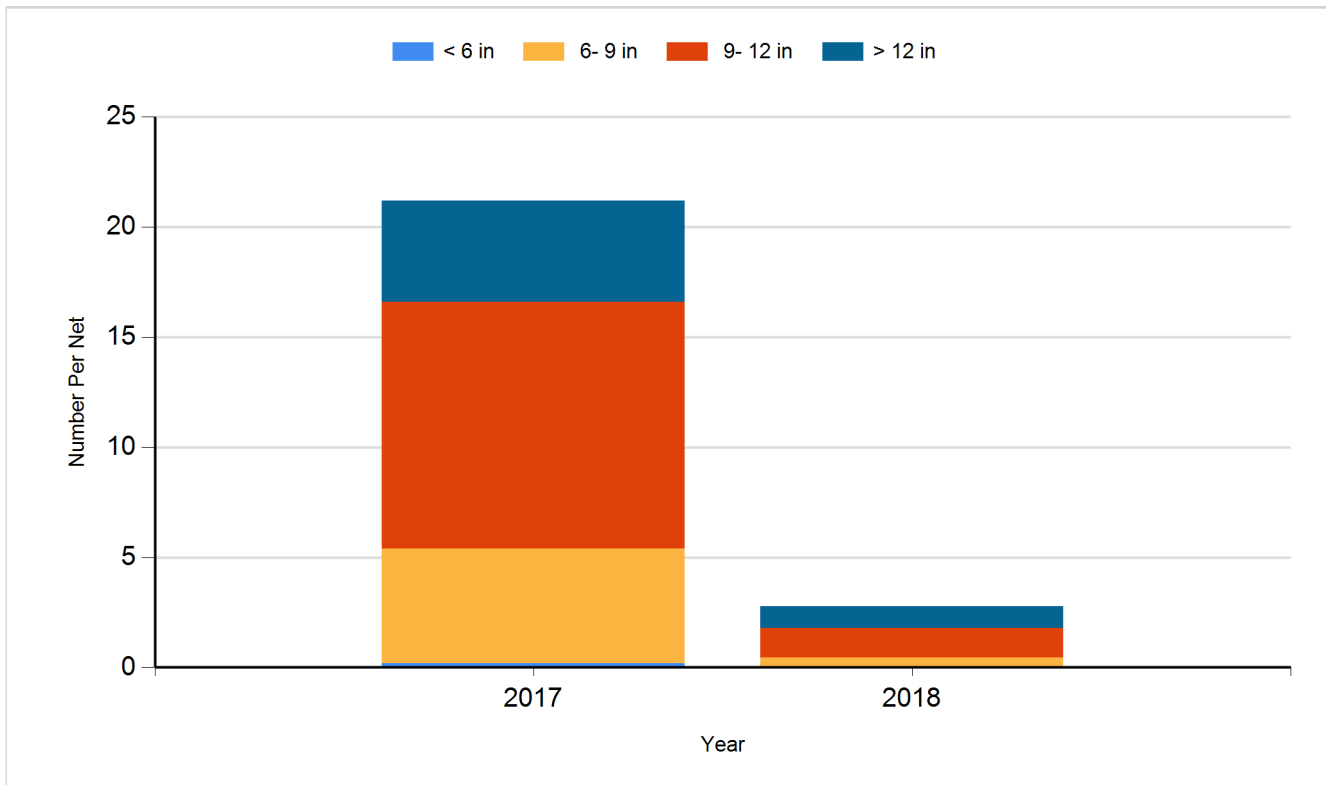
Species: Yellow Perch
Gear: std exp gill net



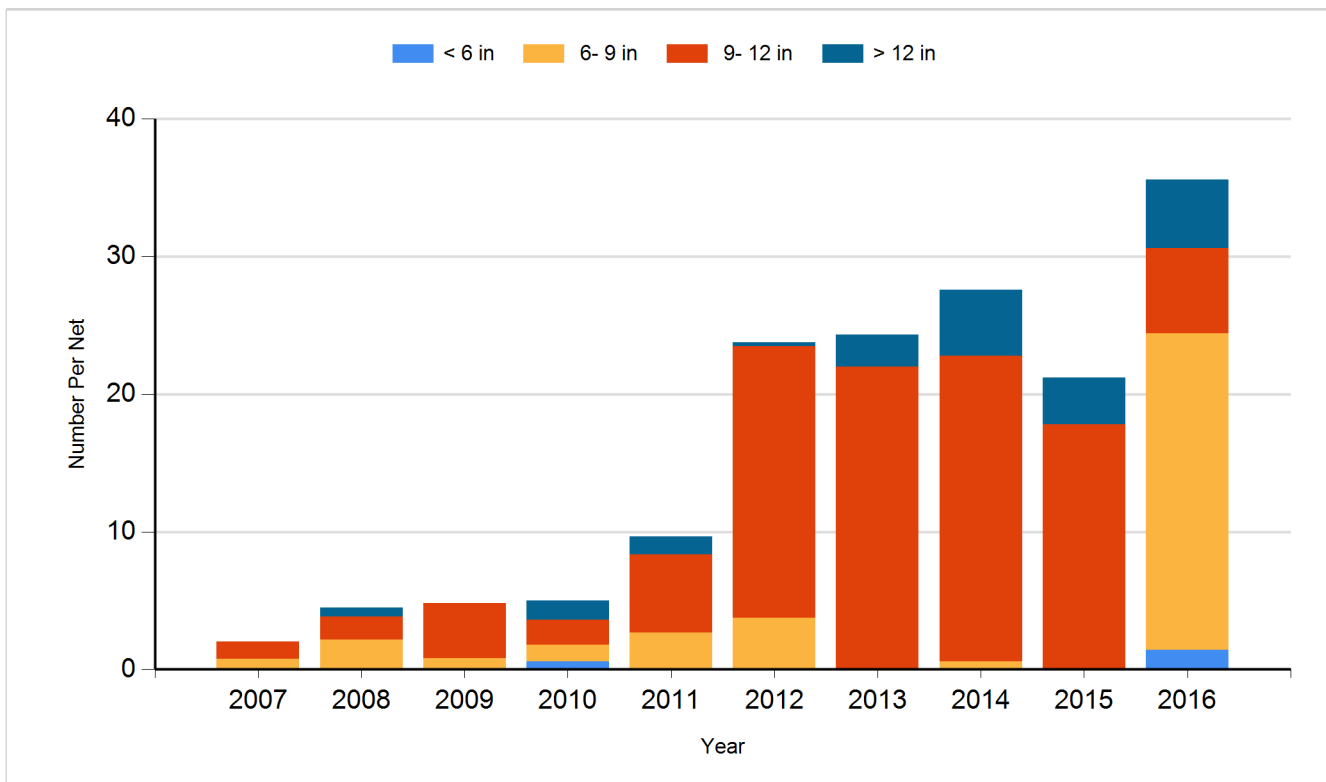
Historic Fish Sizes and Relative Abundance

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

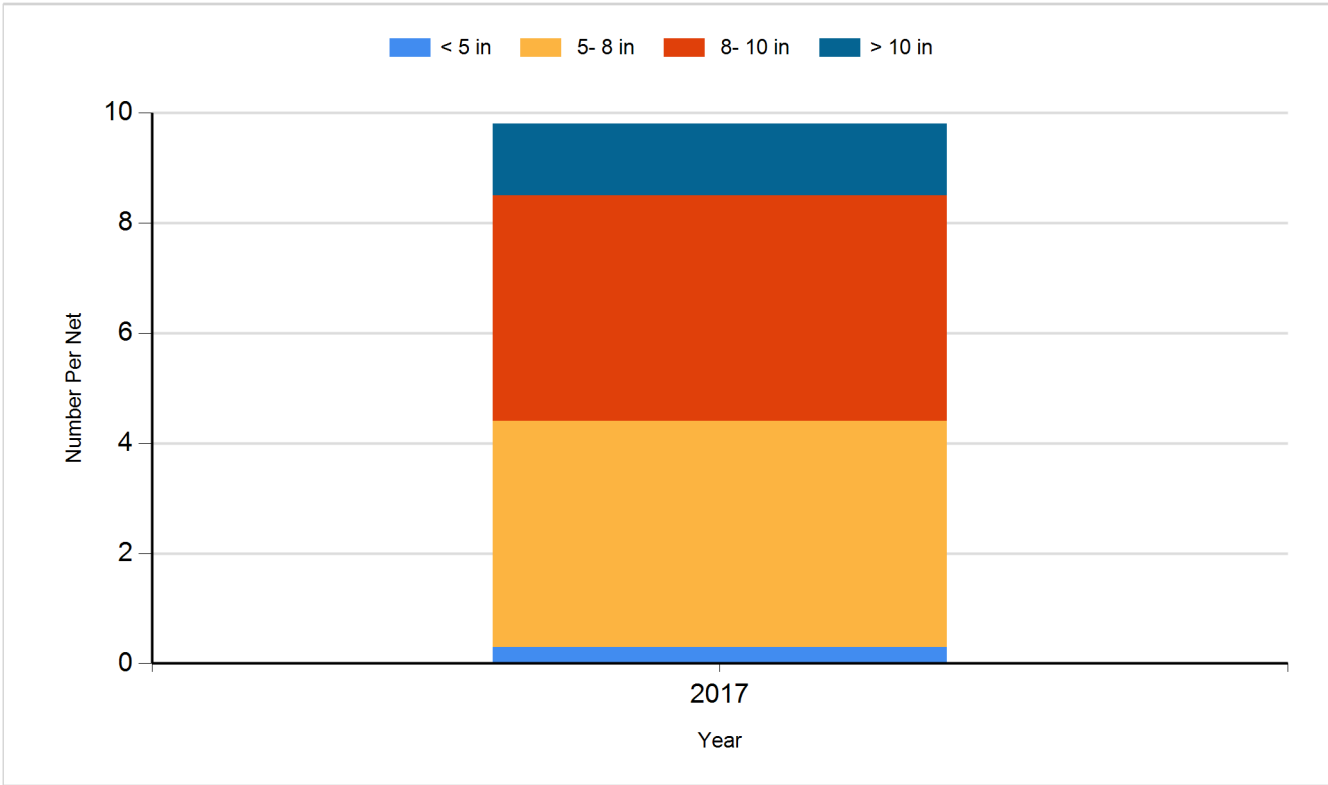
Species: Black Bullhead
Gear: AFS std gill net



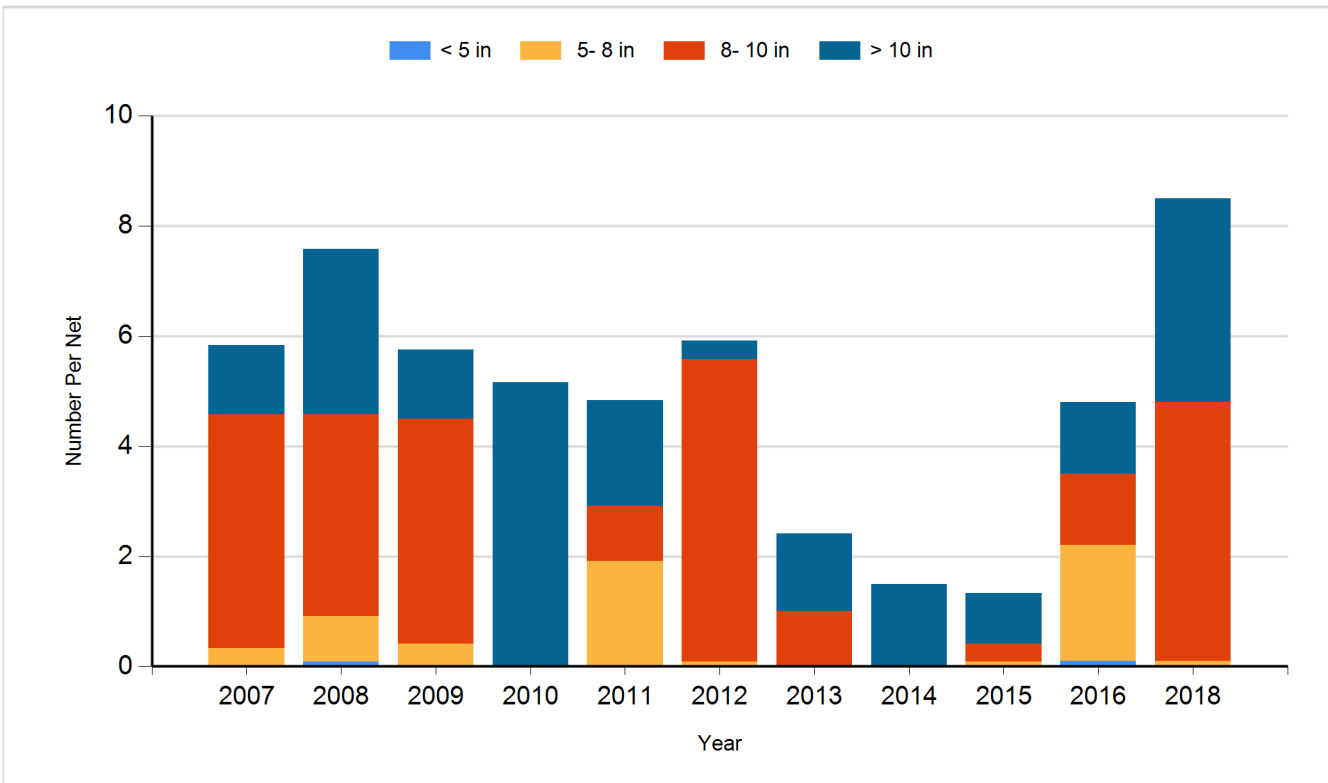
Species: Black Bullhead
Gear: std exp gill net



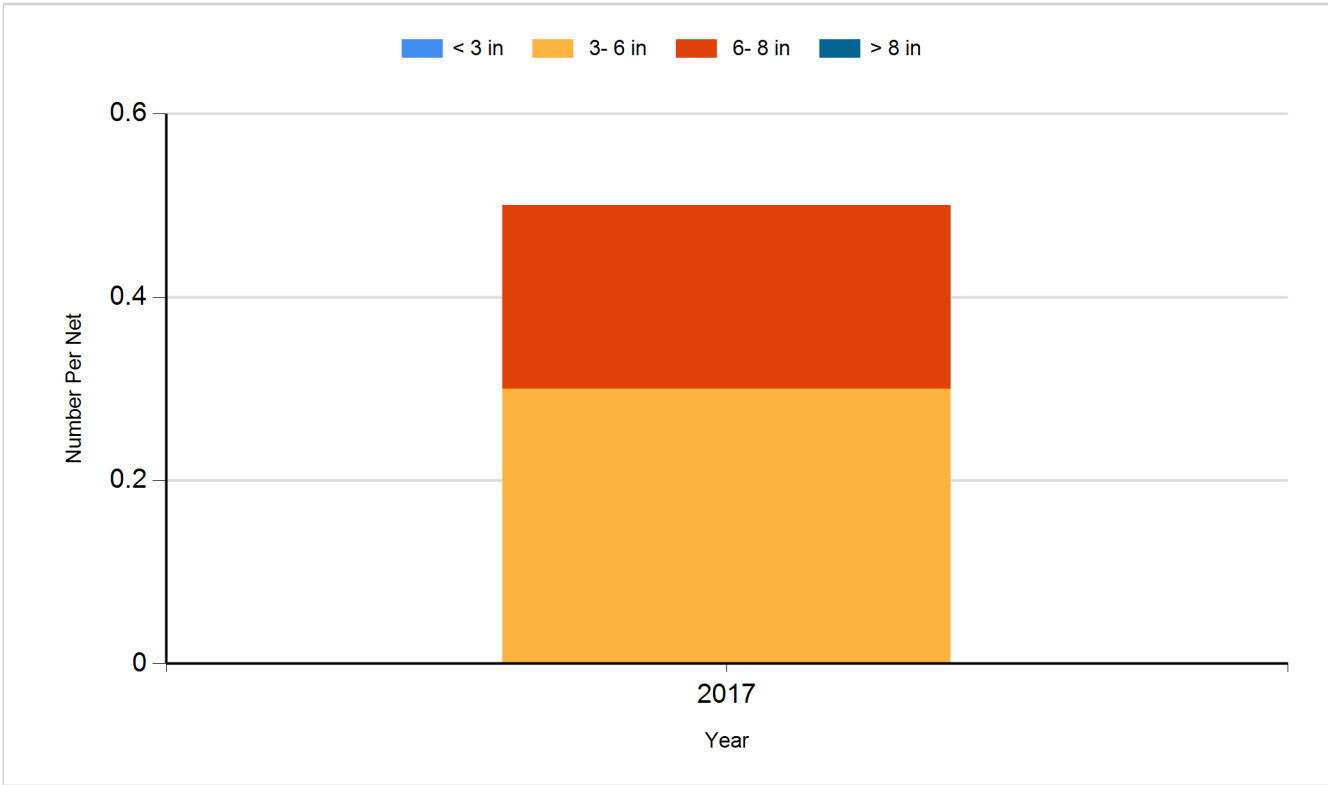
Species: Black Crappie
Gear: AFS std frame net



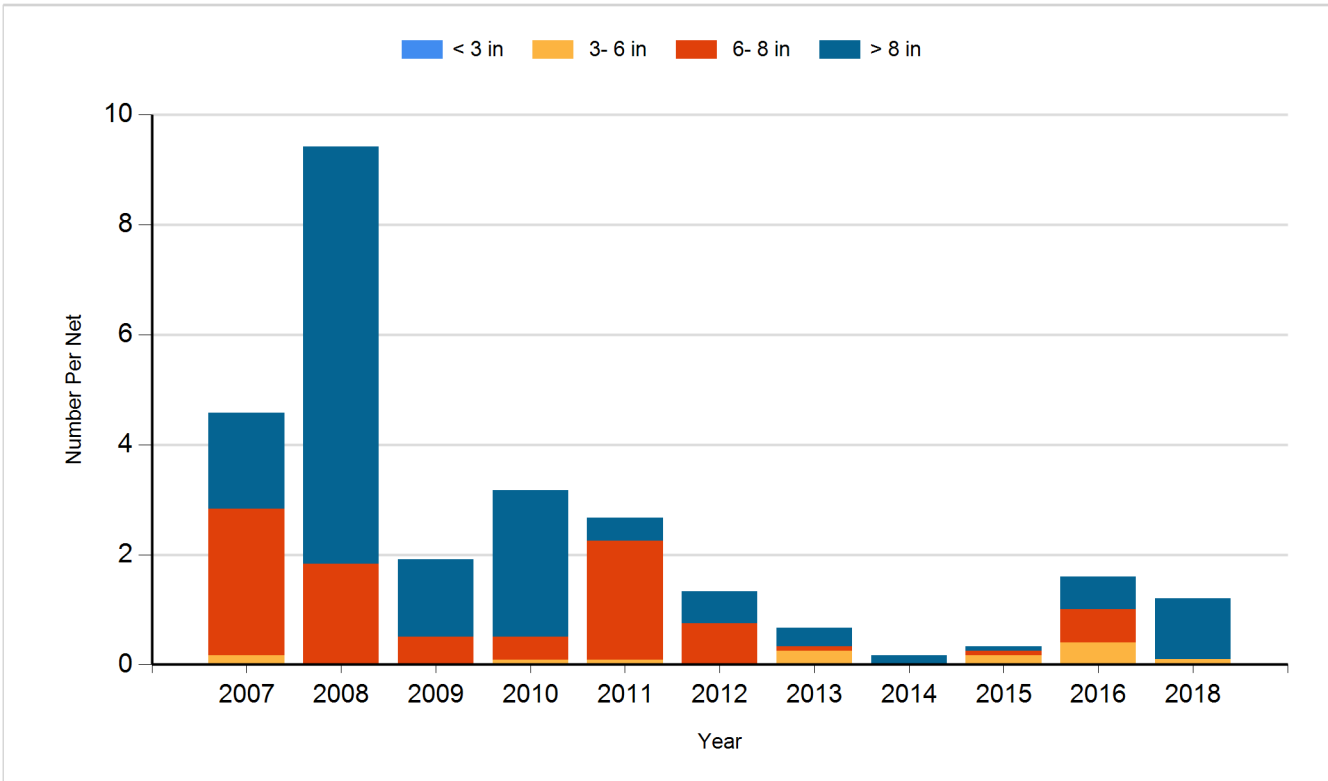
Species: Black Crappie
Gear: frame net (std 3/4 in)



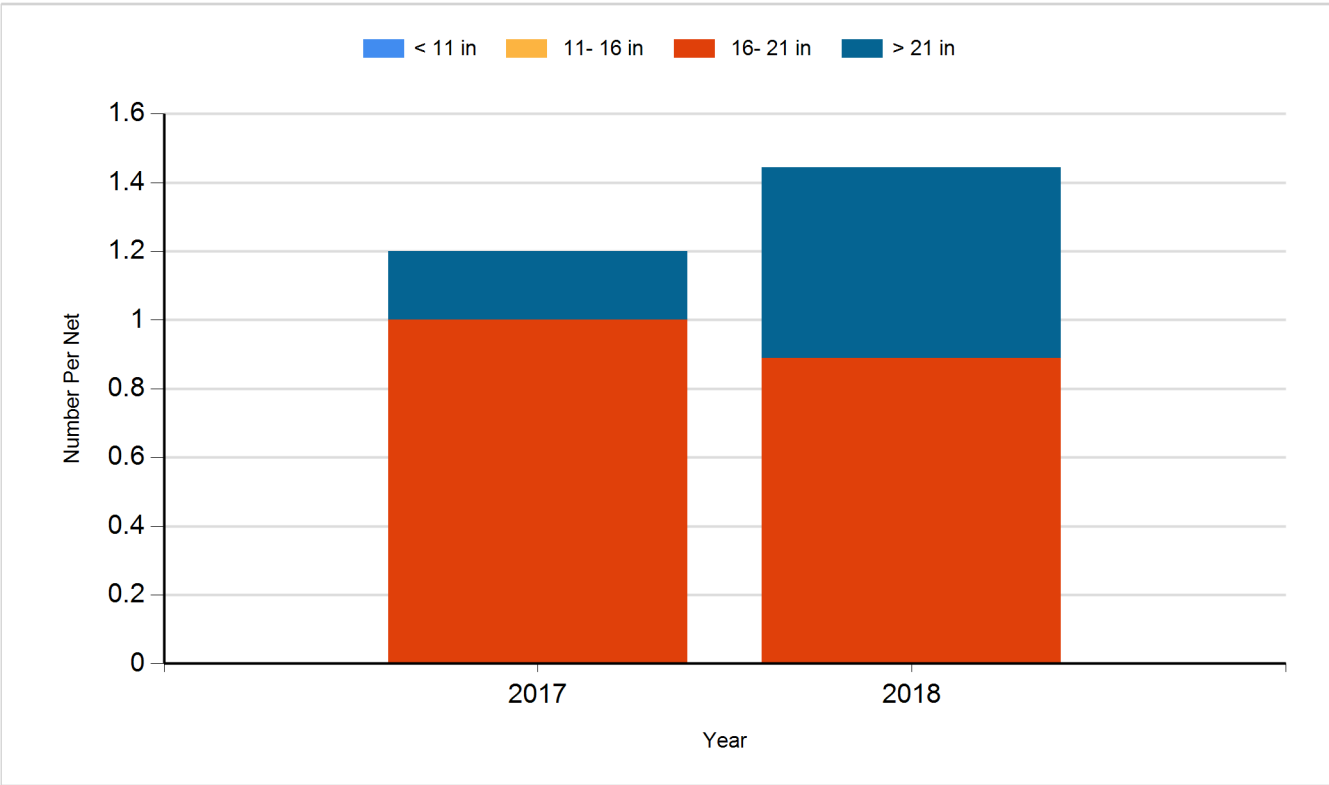
Species: Bluegill
Gear: AFS std frame net



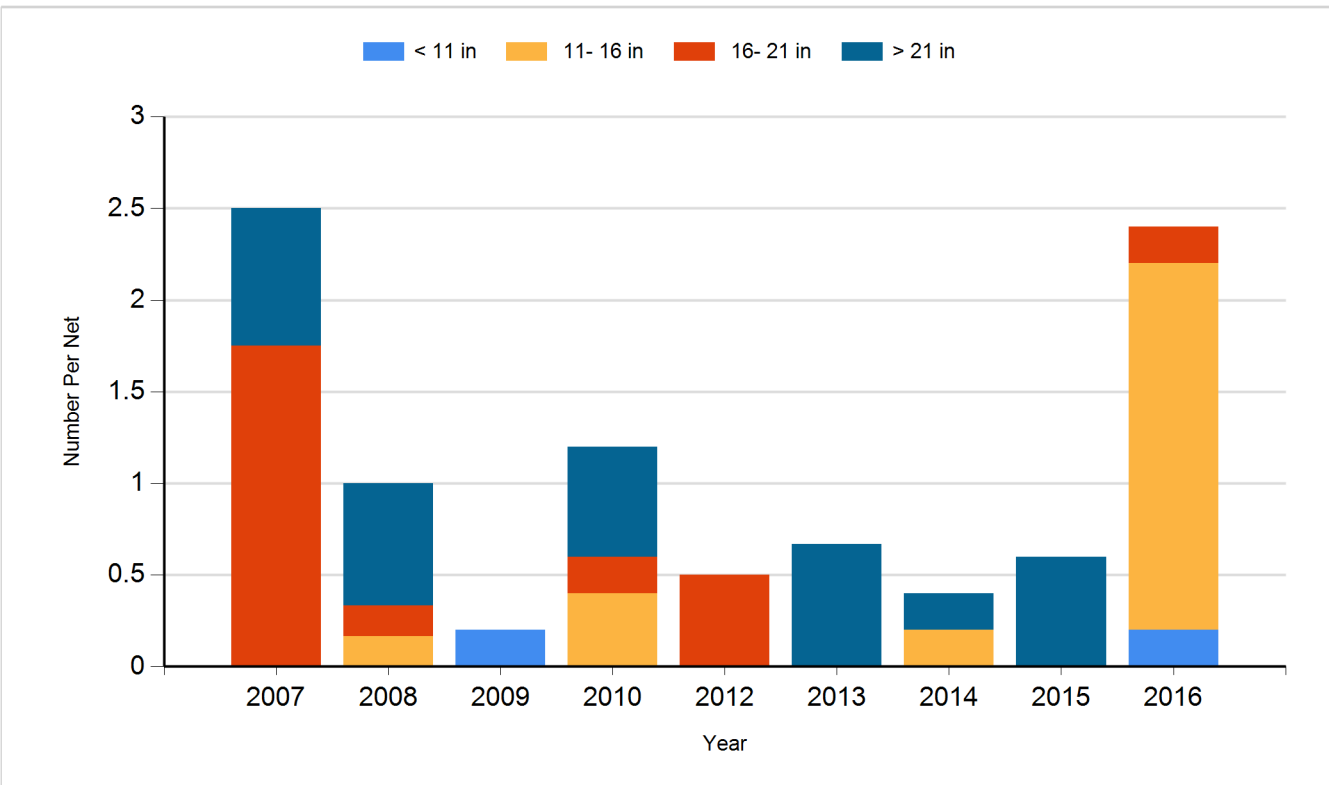
Species: Bluegill
Gear: frame net (std 3/4 in)



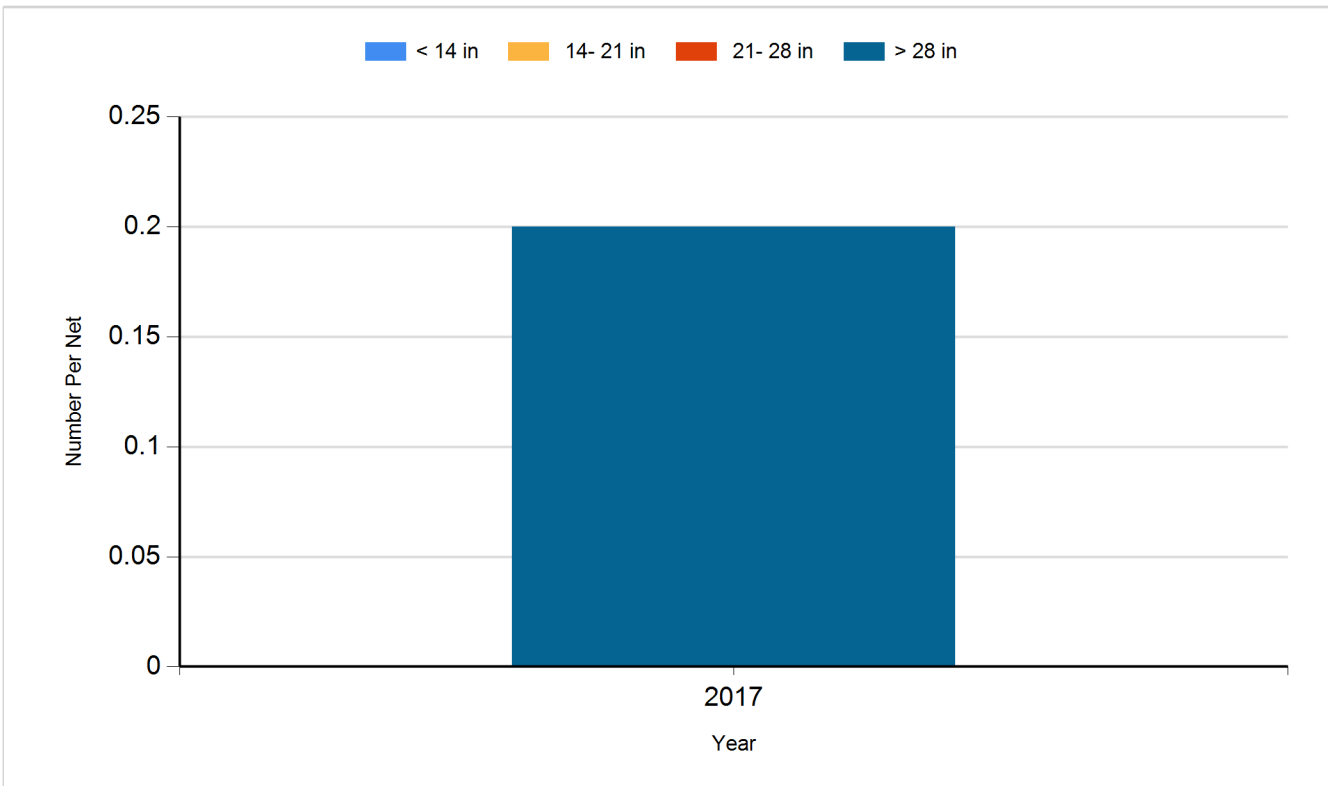
Species: Common Carp
Gear: AFS std gill net



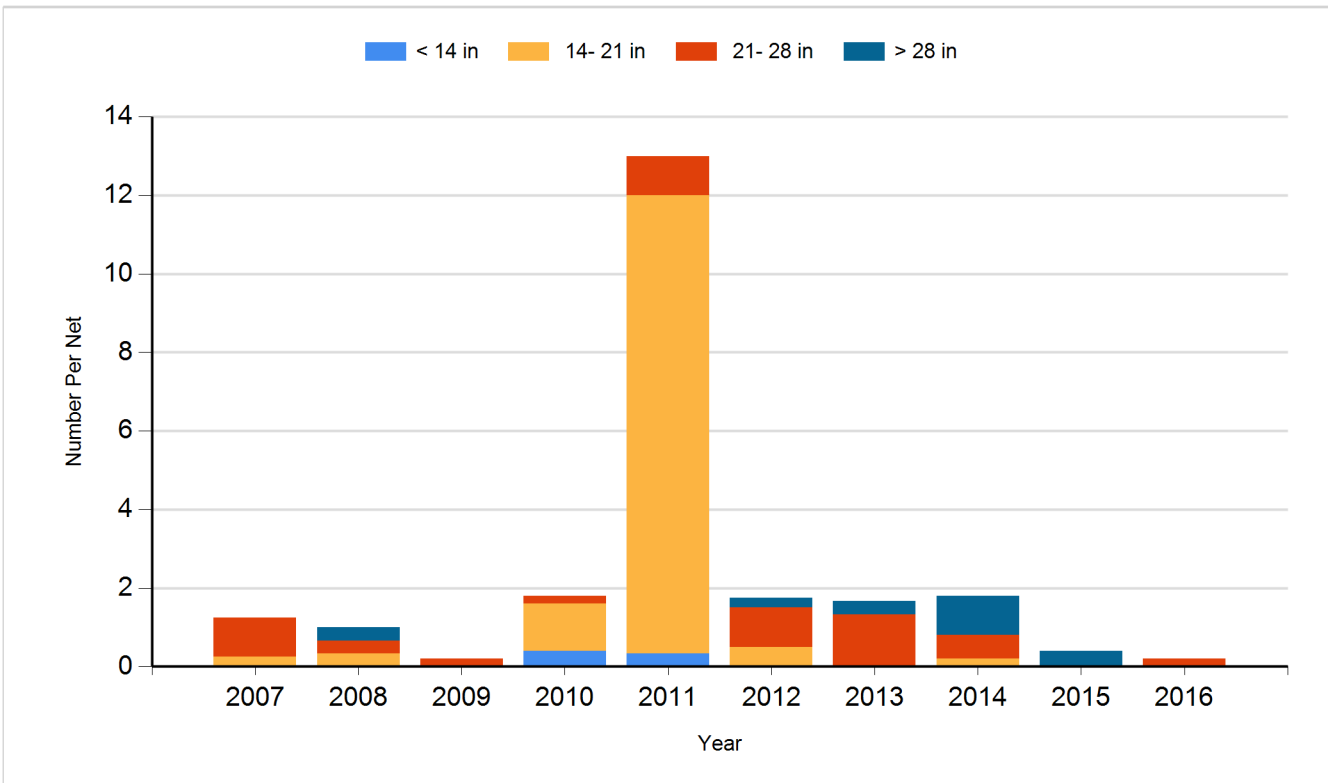
Species: Common Carp
Gear: std exp gill net



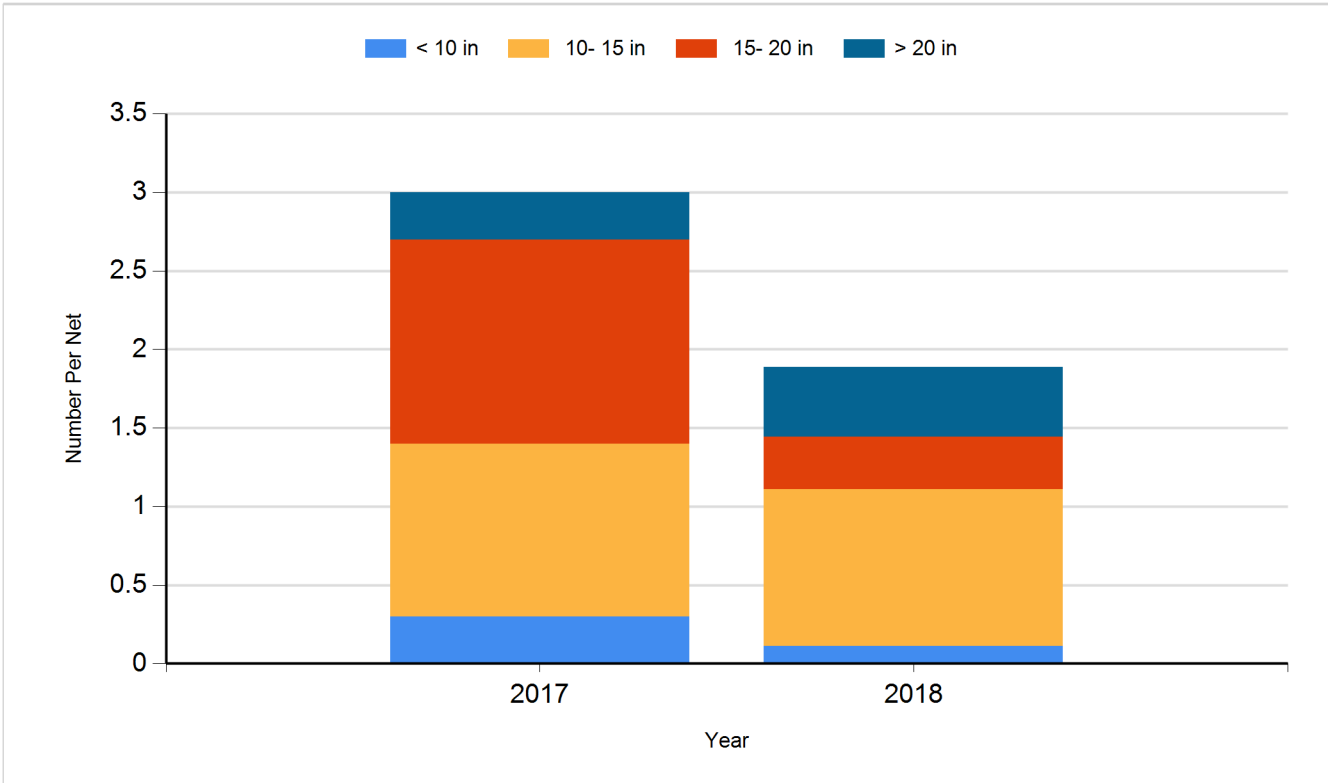
Species: Northern Pike
Gear: AFS std gill net



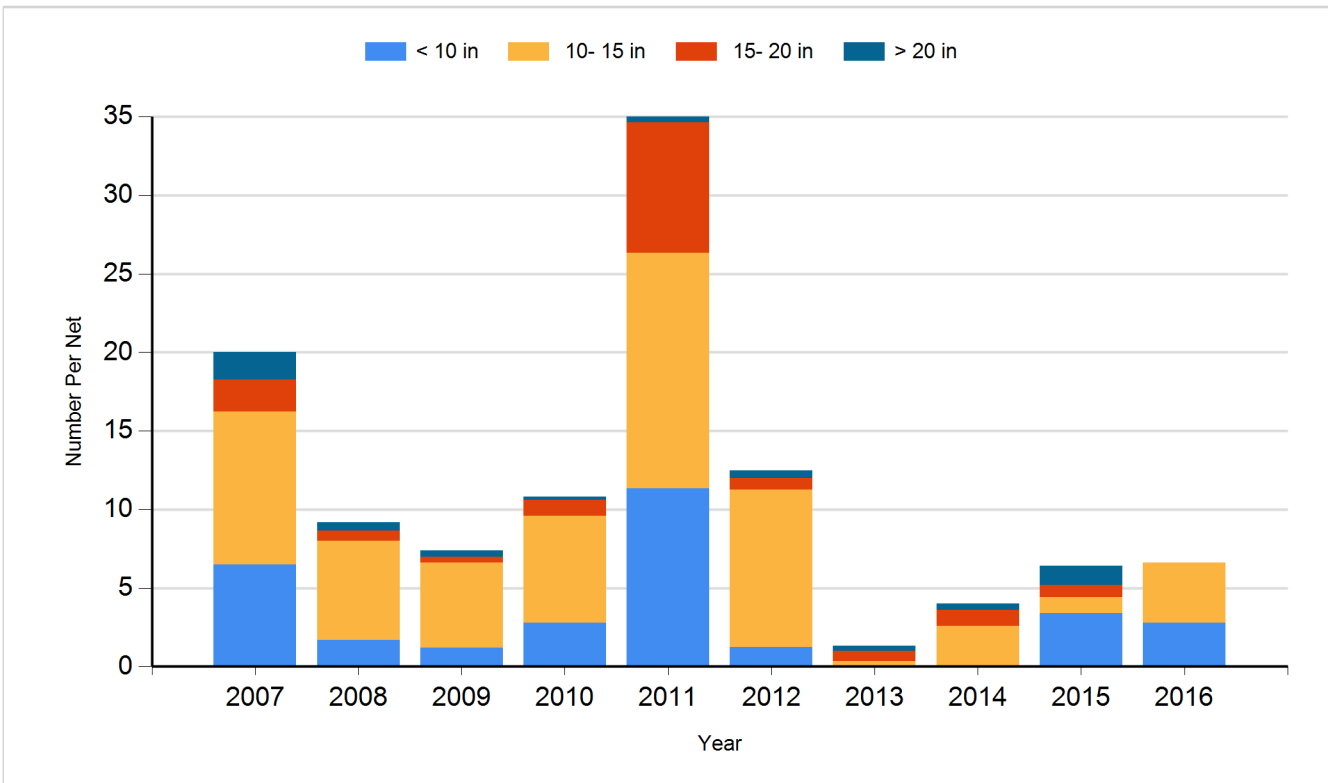
Species: Northern Pike
Gear: std exp gill net



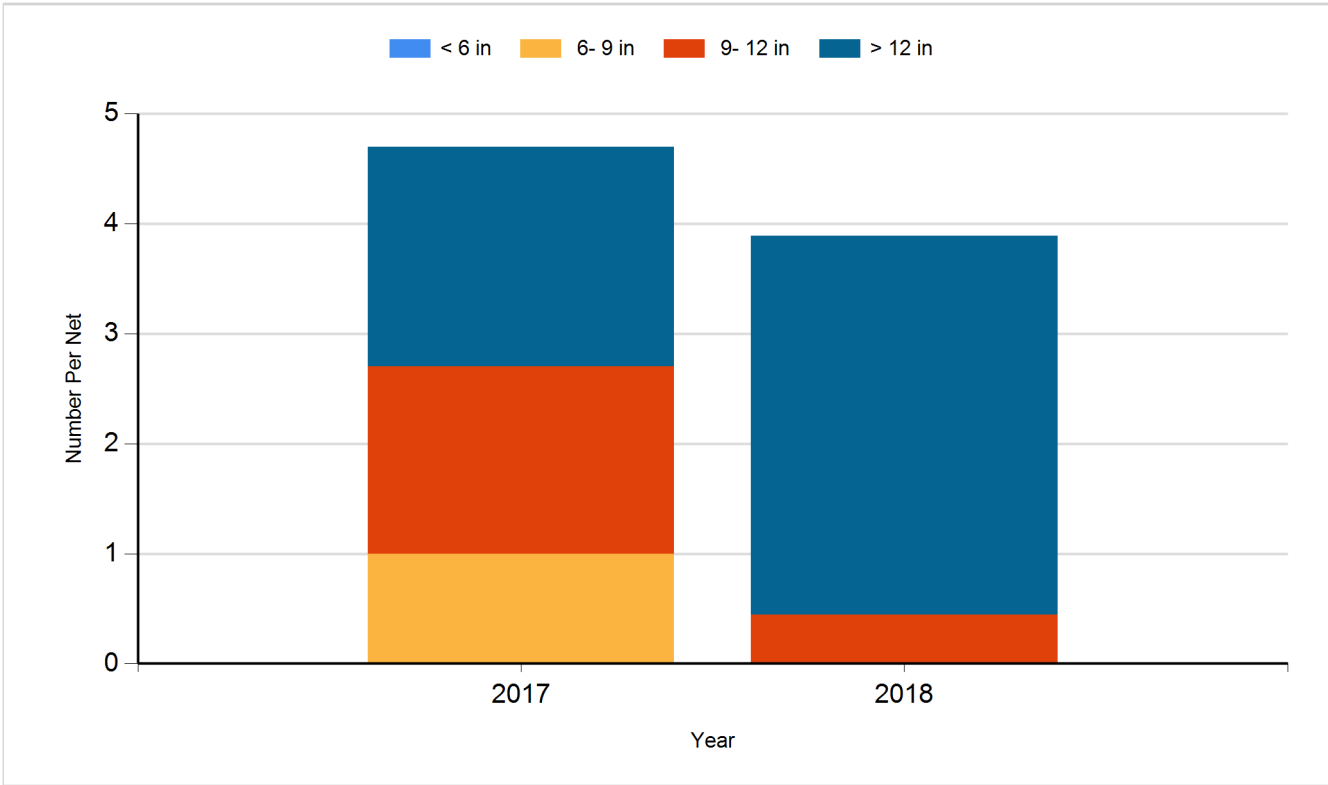
Species: Walleye
Gear: AFS std gill net



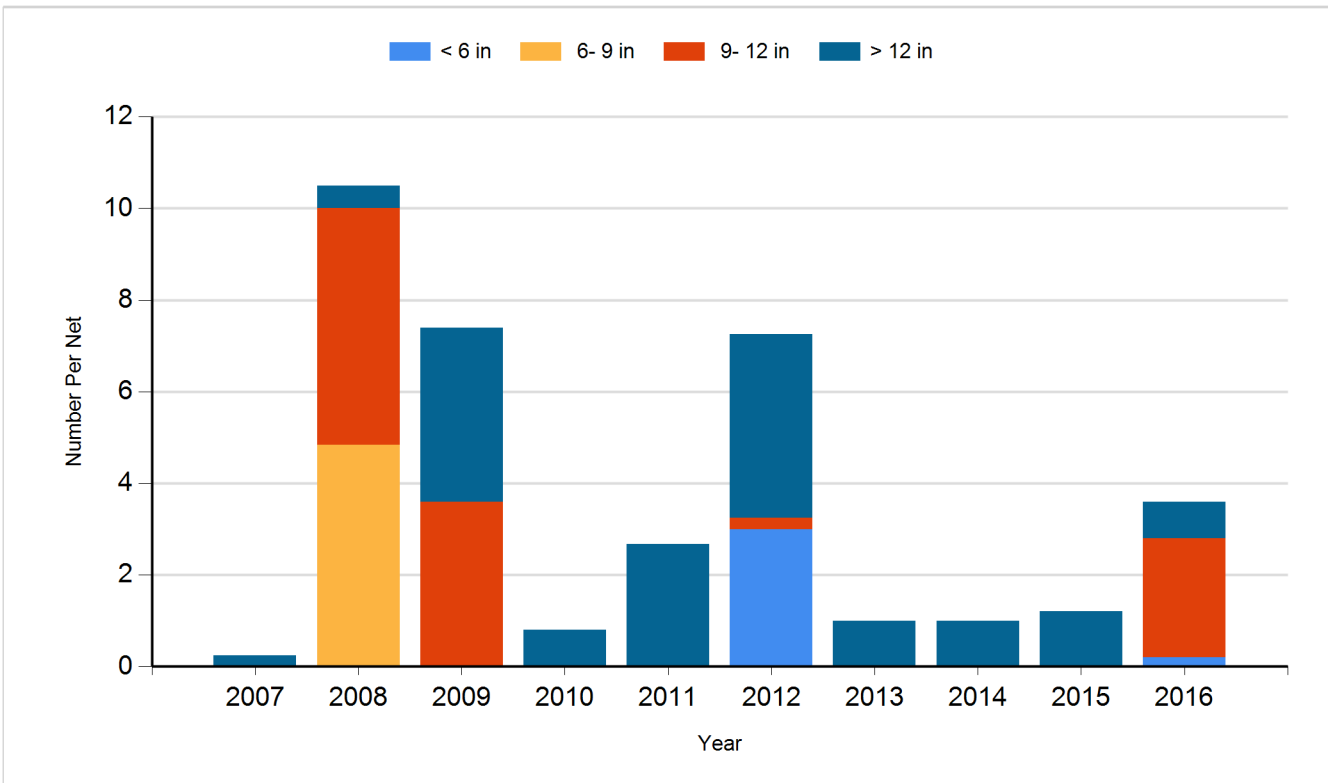
Species: Walleye
Gear: std exp gill net



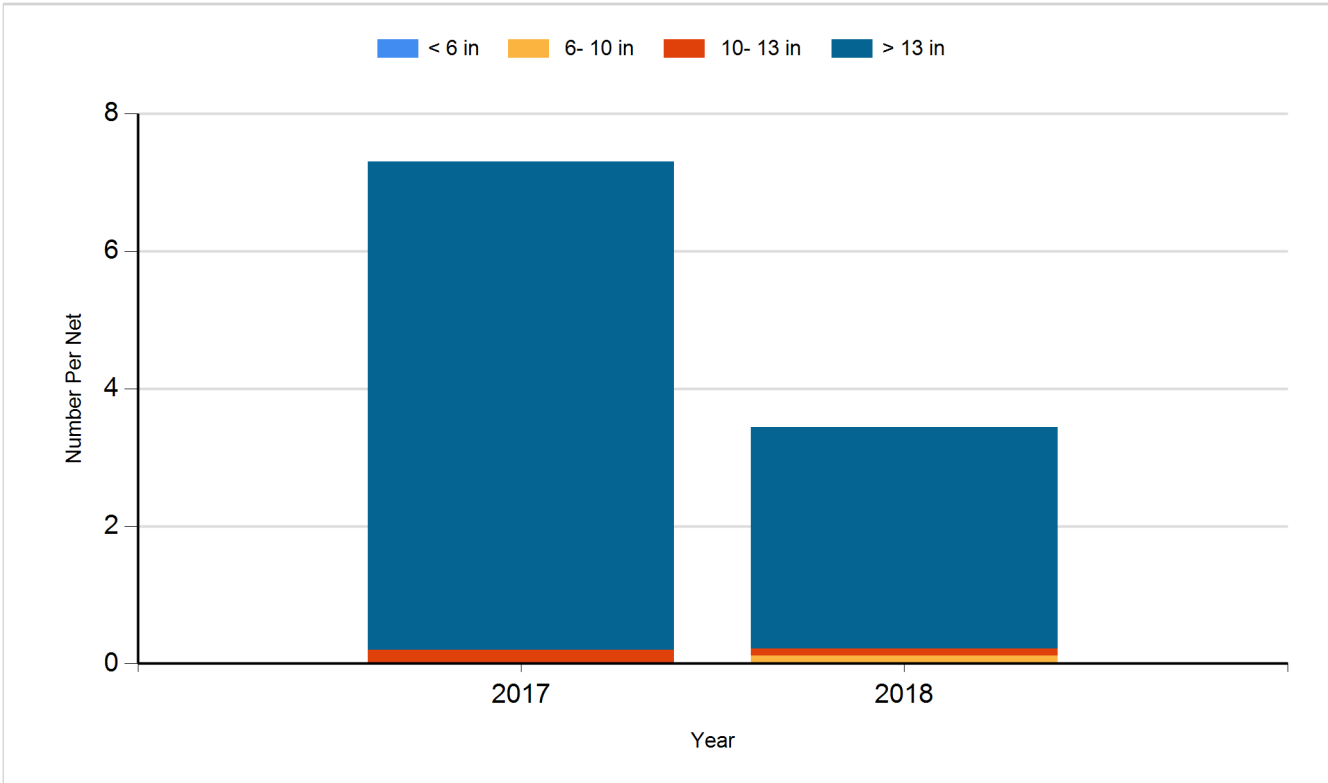
Species: White Bass
Gear: AFS std gill net



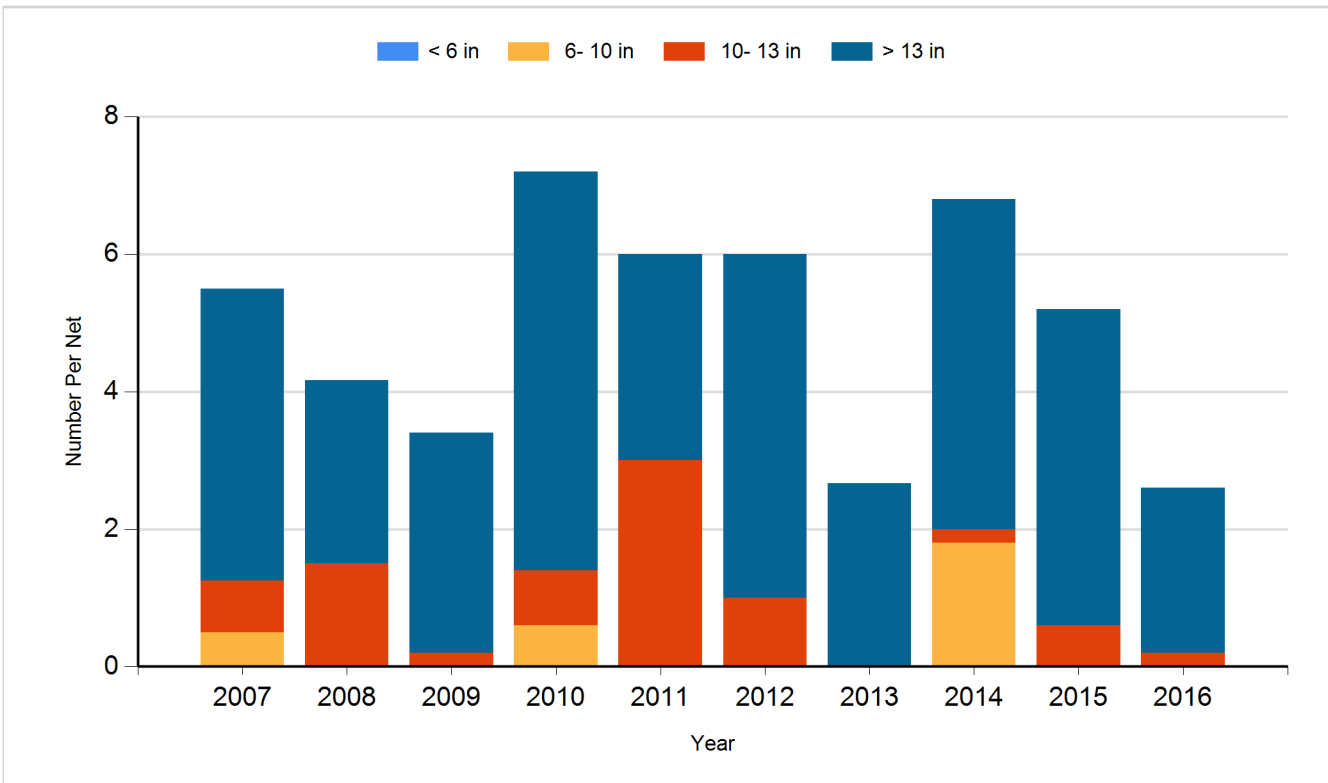
Species: White Bass
Gear: std exp gill net



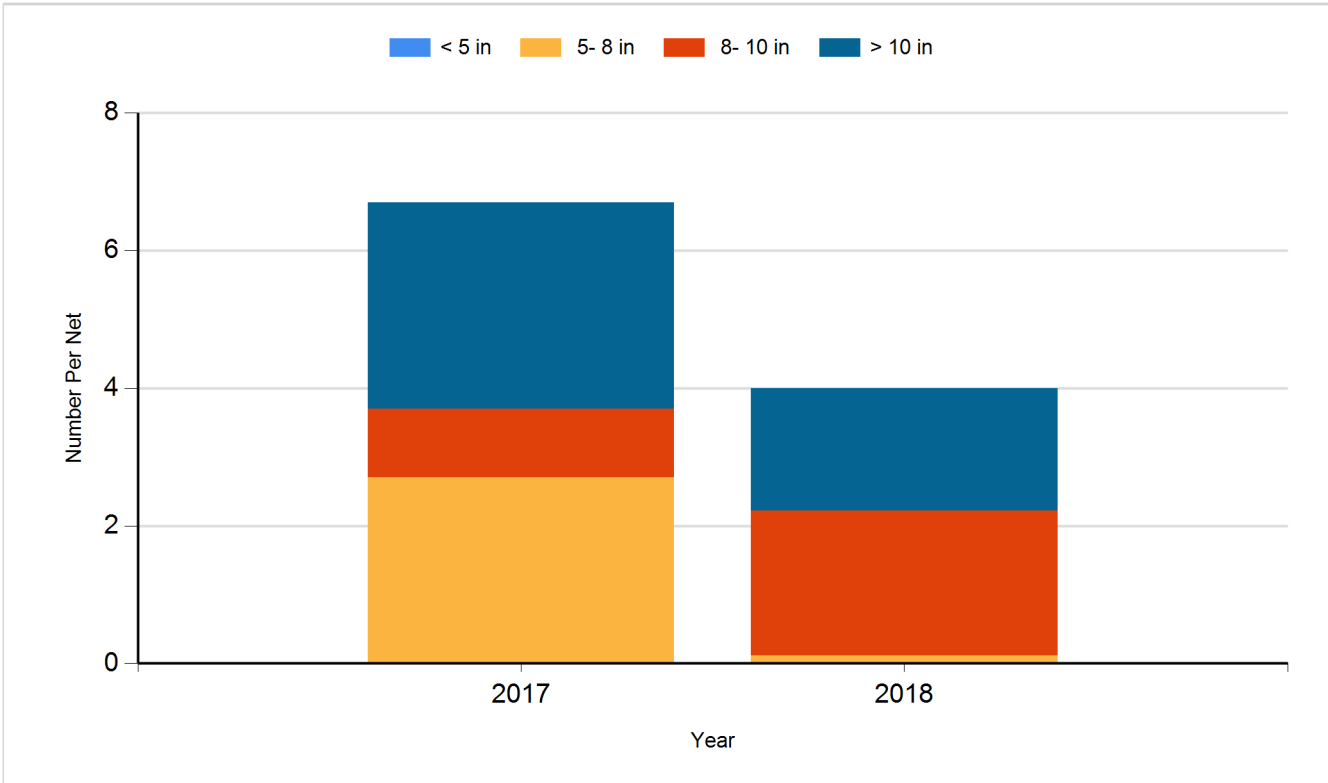
Species: White Sucker
Gear: AFS std gill net



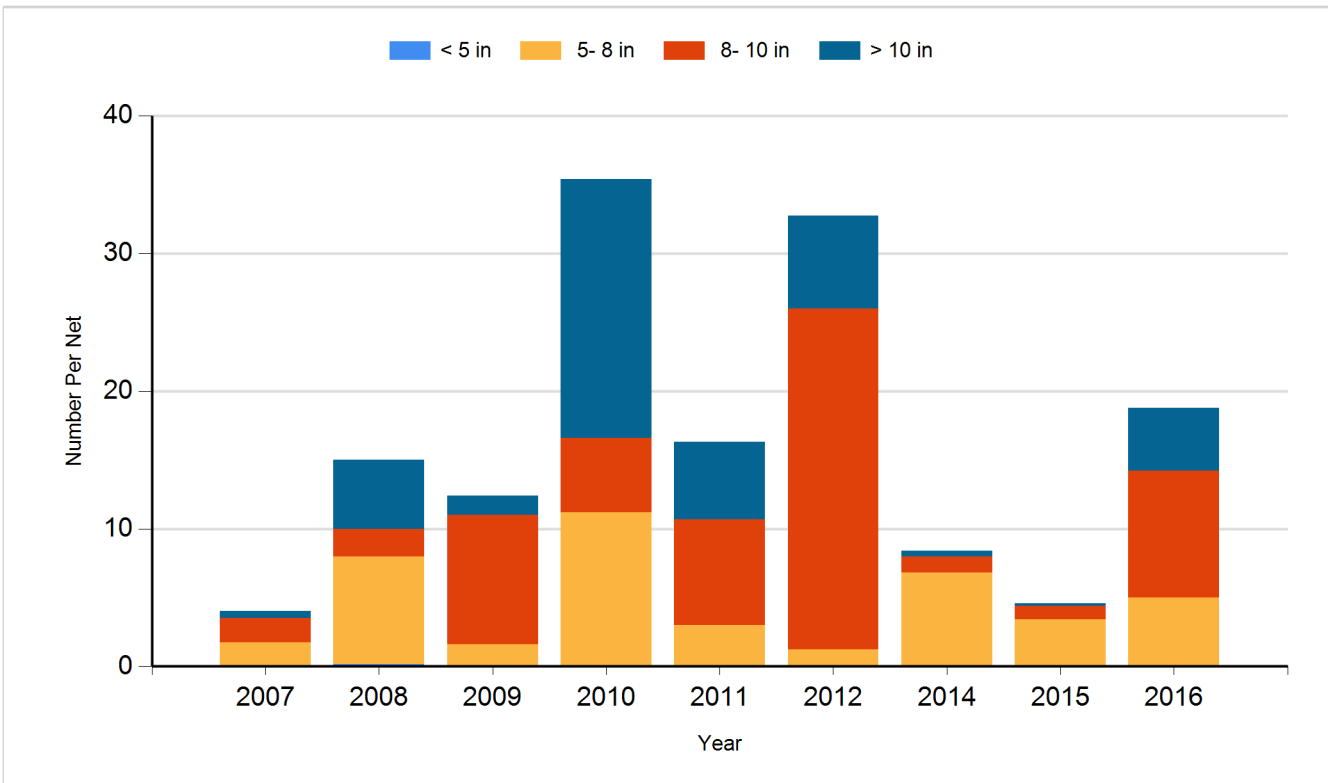
Species: White Sucker
Gear: std exp gill net



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
2007	Fathead Minnow	Adult	4,000
2007	Yellow Perch	Fingerling	40,205
2008	Yellow Perch	Small Fingerling	103,540
2009	Walleye	Small Fingerling	103,900
2009	Yellow Perch	Fry	5,245,000
2013	Walleye	Small Fingerling	102,660
2014	Walleye	Small Fingerling	103,600
2014	Yellow Perch	Small Fingerling	499,000
2015	Walleye	Small Fingerling	68,320
2017	Walleye	Small Fingerling	70,490
2018	Walleye	Small Fingerling	72,900