SOUTH DAKOTA STATEWIDE FISHERIES SURVEY

Campbell, Brookings County MBS-Lake-234-000 2018

Lake Information

Name:CampbellMaximum Depth:8 FeetCounty:BrookingsMean Depth:3 FeetLegal Description:T109n-R50W-Sec.28, 29, 32, 33;OHWM Elevation:1,576

T108N-R50W-Sec. 5

Surface Area: 798 Acres Outlet Elevation: 1,575

Surveys and Investigations

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

Gear	Date	Effort
AFS std gill net	Jun 26, 2018	6 net-nights

Common Fish Species Present

Walleye

Yellow Perch

Black Bullhead

White Sucker

Channel Catfish

Saugeye

White Bass

Bigmouth Buffalo

Common Carp

Northern Pike

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.

$$\mathit{CPUE} = \frac{\mathit{number of fish}}{\mathit{effort}}$$

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.

$$PSD = \left(\frac{number\ of\ fish \ge quality\ length}{number\ of\ fish \ge stock\ length}\right) \times 100$$

$$\textit{PSD} - \textit{P} = \left(\frac{number\ of\ fish\ \geq preferred\ length}{number\ of\ fish\ \geq stock\ length}\right) \ge 100$$

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.

$$Wr = \left(\frac{W}{Ws}\right) \times 100$$

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).

	Stock		Qu	ality	Preferred		Memorable		Trophy	
Species Name	(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

			Abun	dance	St	tock Der	nsity Indic	es	Condition	
Gear	Species	Sample Size (n)	CPUE	CI-80	PSD	CI-80	PSD-P	CI-80	Wr	CI-80
AFS std gill net	Bigmouth Buffalo	8	1.3	2.0	38		13			
	Black Bullhead	106	17.7	3.1	95	3	3			
	Black Crappie	1	0.2	0.2	100		100		64	
	Channel Catfish	36	6.0	1.6	100		17	10	93	2
	Common Carp	7	1.2	0.5	100		57			
	Northern Pike	2	0.3	0.3	50		50		121	37
	Saugeye	22	3.7	1.2	9		0		88	2
	Shorthead Redhorse	1	0.2	0.2	100		100			
	Walleye	18	3.0	1.4	33	18	0		83	2
	White Bass	10	1.7	1.1	90		80		89	2
	White Sucker	49	8.2	2.2	100		100			
	Yellow Perch	9	1.5	0.6	78		44		100	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.

							CPUE					
Gear	Species	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	Avg
AFS std gill net	Bigmouth Buffalo									1.5	1.3	1.4
	Black Bullhead									10.8	17.7	14.3
	Black Crappie										0.2	0.2
	Channel Catfish									2.3	6.0	4.2
	Common Carp									4.3	1.2	2.8
	Northern Pike									8.0	0.3	0.6
	Saugeye									1.3	3.7	2.5
	Shorthead Redhorse									0.2	0.2	0.2
	Walleye									10.8	3.0	6.9
	White Bass									1.5	1.7	1.6
	White Sucker									9.5	8.2	8.9
	Yellow Perch									3.3	1.5	2.4
frame net (std	Bigmouth Buffalo		34.9	11.4		1.2						15.8
3/4 in)	Black Bullhead		158.3	322.9		32.3						171.2
	Black Crappie		0.4	0.1								0.3
	Channel Catfish		2.5	8.6		6.1						5.7
	Common Carp		6.1	1.7		8.2						5.3
	Northern Pike		1.5	2.9		0.2						1.5
	Shorthead Redhorse			0.1		0.1						0.1
	Walleye		0.3	0.3								0.3
	White Bass			0.5								0.5
	White Sucker		6.9	3.0		0.8						3.6
	Yellow Bullhead		0.3	2.3								1.3
	Yellow Perch		4.0	0.6								2.3
std exp gill net	Bigmouth Buffalo		0.7				0.7	2.0				1.1
	Black Bullhead		41.0	26.0		21.3	27.7	39.7	61.0			36.1
	Channel Catfish		3.3	4.3		7.3	3.7	3.0	5.3			4.5
	Common Carp			0.3		1.3	0.0	4.0	1.3			1.4
	Common Shiner							0.0				0.0
	Northern Pike		1.7	8.0		1.0	8.7	2.7	1.3			3.9
	Orangespotted Sunfish		0.0					0.0	0.0			0.0
	Shorthead Redhorse					1.0			0.3			0.7
	Walleye		1.3	0.7		0.3	3.0	0.3	22.7			4.7
	White Bass			1.0				2.7	2.0			1.9

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							CPUE					
Gear	Species	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	Avg
std exp gill net	White Sucker		41.3	5.7		2.3	3.3	7.7	9.3			11.6
	Yellow Bullhead			0.3								0.3
	Yellow Perch		146.7	5.3			2.3	26.3	6.0			37.3

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.

							Ye	ar				
Gear	Species	Index	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
AFS std gill net	Bigmouth Buffalo	PSD								'	0	38
		PSD-P									0	13
	Black Bullhead	PSD									29	95
		PSD-P									3	3
	Channel Catfish	PSD									50	100
		PSD-P									14	17
		Wr									98	93
	Common Carp	PSD									85	100
		PSD-P									58	57
	Northern Pike	PSD									80	50
		PSD-P									40	50
		Wr									85	121
	Saugeye	PSD									0	9
		PSD-P									0	0
		Wr									88	88
	Walleye	PSD									20	33
		PSD-P									0	0
		Wr									82	83
	White Bass	PSD									100	90
		PSD-P									100	80
		Wr									92	89
	White Sucker	PSD									100	100
		PSD-P									98	100
	Yellow Perch	PSD									95	78
		PSD-P									80	44
		Wr									91	100
frame net (std	Bigmouth Buffalo	PSD		93	97		100					
3/4 in)		PSD-P		11	18		50					
		Wr		88	92		84					
	Black Bullhead	PSD		22	10		89					
		PSD-P		1	0		0					
		Wr		100	90		83					
	Channel Catfish	PSD		36	20		92					
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Species Index 2009 2010 2011 2012 2013 2014 2015 2016 2017 2018
Wr
Common Carp PSD 100 65 99 PSD-P 80 53 52 Wr 96 92 92 Northern Pike PSD 100 55 100 PSD-P 53 7 0 Wr 95 89 72 Walleye PSD 100 100 PSD-P 33 0 Wr 106 97 White Bass PSD 0 0 PSD-P 0 0 PSD-P 0 0 Wr 84 White Sucker PSD 97 97 100 Wr 95 86 Yellow Perch PSD 96 86 Yellow Perch PSD 48 50 PSD-P 38 0 Wr 95 86 Std exp gill net Bigmouth Buffalo PSD 100 0 0 0 PSD-P 0 0 0 0 0 PSD-P 0 0 0 0 0 2 3 3 Wr 100 100 87 Channel Catfish PSD 0 38 100 100 100 19 PSD-P 0 0 0 0 27 111 6 Wr 101 106 94 107 109 99 Common Carp PSD-P 0 0 0 0 27 111 6 Wr 101 106 94 107 109 99
PSD-P
Northern Pike
Northern Pike PSD 100 55 100 Wr 95 89 72 Walleye PSD-P 33 0 7 0 PSD-P 33 0 0 PSD-P 0 0 PSD-P 0 PSD-P 100 100 PSD-P 100 PS
PSD-P
Walleye PSD 100 100 100 PSD-P 33 0 Wr 106 97 Wr 84 White Sucker PSD 48 50 100 100 Wr 95 86 86 Yellow Perch PSD-P 38 0 Wr 95 86 86 Yellow Perch PSD-P 38 0 Wr 95 85 Std exp gill net Black Bullhead PSD 15 9 72 45 45 60 PSD-P 2 0 0 0 2 3 Wr 100 100 87 Channel Catfish PSD 0 38 100 100 87 Common Carp PSD-P 0 0 0 0 27 11 6 Wr 101 106 94 107 109 99 Common Carp PSD 0 101 100 0 8 100 100 99 99 Common Carp PSD PSD 0 100 0 0 8 100 100 99 99 Common Carp
Walleye
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White Sucker PSD 97 97 100 PSD-P 46 80 100 Wr 95 96 86 Yellow Perch PSD 48 50 PSD-P 38 0 Wr 95 85 Std exp gill net Bigmouth Buffalo PSD 100 PSD-P 0 0 0 0 0 Wr 89 Black Bullhead PSD 15 9 72 45 45 60 PSD-P 2 0 0 0 2 3 Wr 100 100 87 Channel Catfish PSD 0 38 100 100 19 PSD-P 0 0 0 0 27 11 6 Wr 101 106 94 107 109 99 Common Carp PSD 0 100 0 0 8 100
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Black Bullhead PSD 15 9 72 45 45 60 PSD-P 2 0 0 0 2 3 Wr 100 100 87 Channel Catfish PSD 0 38 100 100 100 19 PSD-P 0 0 0 27 11 6 Wr 101 106 94 107 109 99 Common Carp PSD 0 100 0 8 100
PSD-P 2 0 0 0 2 3 Wr 100 100 87 Channel Catfish PSD 0 38 100 100 100 19 PSD-P 0 0 0 0 27 11 6 Wr 101 106 94 107 109 99 Common Carp PSD 0 100 0 8 100
Wr 100 100 87 Channel Catfish PSD 0 38 100 100 100 19 PSD-P 0 0 0 27 11 6 Wr 101 106 94 107 109 99 Common Carp PSD 0 100 0 8 100
Channel Catfish PSD 0 38 100 100 19 PSD-P 0 0 0 27 11 6 Wr 101 106 94 107 109 99 Common Carp PSD 0 100 0 8 100
PSD-P 0 0 0 27 11 6 Wr 101 106 94 107 109 99 Common Carp PSD 0 100 0 8 100
Wr 101 106 94 107 109 99 Common Carp PSD 0 100 0 8 100
Common Carp PSD 0 100 0 8 100
PSD-P 0 50 0 8 25
Wr 108 91
Northern Pike PSD 40 42 100 35 75 100
PSD-P 0 4 0 8 0 25
Wr 98 91 79 98 97 88
Walleye PSD 100 50 0 100 0 0
PSD-P 0 0 0 11 0 0
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							Ye	ar				
Gear	Species	Index	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
std exp gill net	Walleye	Wr		105	97		100	105	113	90		
	White Bass	PSD			0				13	100		
		PSD-P			0				13	100		
		Wr			111				100	102		
	White Sucker	PSD		80	100		100	70	22	96		
		PSD-P		31	65		100	70	9	46		
		Wr		101	94		100					
	Yellow Perch	PSD		25	31			0	100	100		
		PSD-P		17	6			0	43	83		
		Wr		98	97			112	103	91		
		VVI		90	91			112	103	91		

Length at Capture

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

Species: Saugeye

				Mean Ler	ngth (expa	nded sam	ple numb	er) at capt	ure by age)	
Year	N	1	2	3	4	5	6	7	8	9	10+
2018	22	263 (4)	336 (18)								
Species: W	alleye										
				Mean Ler	ngth (expa	nded sam	ple numb	er) at capt	ure by age)	
Year	N	1	2	3	4	5	6	7	8	9	10+
2018	18	282 (5)	327 (6)	405 (7)							
2017	66	270 (28)	376 (37)					505 (1)			
Species: Y	ellow Pe	erch									
				Mean Ler	ngth (expa	nded sam	ple numb	er) at capt	ure by age	9	
Year	N	1	2	3	4	5	6	7	8	9	10+
2018	9	166 (2)	235 (2)	243 (1)	273 (1)	295 (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).

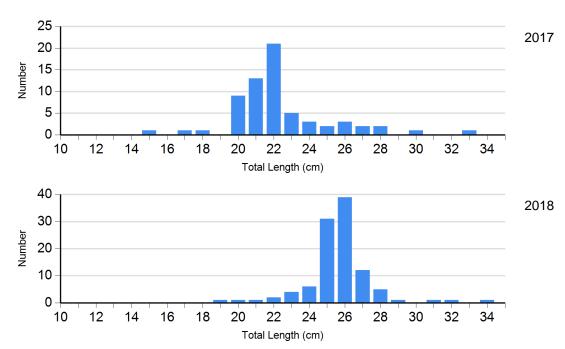
		Length Groups									
			S-Q		Q-P		P-M		М		
Species	Year	N	Wr (SE)	N	Wr (SE)	N	Wr (SE)	N	Wr (SE)		
Channel Catfish Gill Net	2014	0		8	106 (2.1)	2	109 (3.4)	1	116		
	2015	0		8	109 (3.2)	1	106	0			
	2016	13	96 (2.6)	2	104 (4.0)	1	128	0			
	2017	7	98 (2.3)	5	95 (3.2)	1	108	1	109		
	2018	0		30	91 (1.9)	4	100 (4.2)	2	111 (10.7)		
Northern Pike Gill Net	2014	17	99 (2.7)	7	95 (2.3)	2	93 (4.1)	0			
	2015	2	95 (4.2)	6	98 (3.6)	0		0			
	2016	0		3	91 (0.1)	1	79	0			
	2017	1	96	2	74 (4.2)	2	90 (0.8)	0			
	2018	1	150	0		1	92	0			
Saugeye Gill Net	2017	8	88 (1.9)	0		0		0			
	2018	20	88 (1.2)	2	90 (2.0)	0		0			
Walleye Gill Net	2014	0		8	104 (2.4)	1	108	0			
	2015	1	113	0		0		0			
	2016	68	90 (0.7)	0		0		0			
	2017	52	82 (0.8)	13	84 (1.6)	0		0			
	2018	12	85 (1.6)	6	81 (1.3)	0		0			
White Bass Gill Net	2018	1	95	1	85	6	90 (2.1)	2	85 (0.0)		
White Bass Gill Net	2015	7	100 (3.4)	0		0		1	103		
	2016	0		0		6	102 (2.7)	0			
	2017	0		0		9	92 (2.2)	0			
Yellow Perch Gill Net	2014	7	112 (3.5)	0		0		0			
	2015	0		45	103 (1.1)	34	103 (1.0)	0			
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		Length Groups										
			S-Q		Q-P		P-M		М			
Species	Year	N	Wr (SE)	N	Wr (SE)	N	Wr (SE)	N	Wr (SE)			
Yellow Perch Gill Net	2016	0		3	87 (3.7)	12	91 (2.5)	3	92 (3.9)			
	2017	1	81	3	104 (2.5)	9	90 (2.2)	7	88 (4.8)			
	2018	2	105 (4.7)	3	101 (4.0)	2	103 (0.9)	2	91 (8.1)			

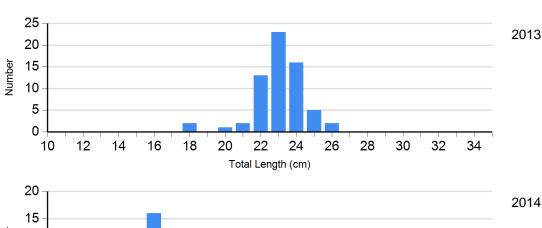
Length Frequency Distribution

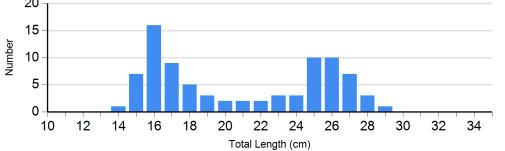
Length frequency histogram of species sampled by year.

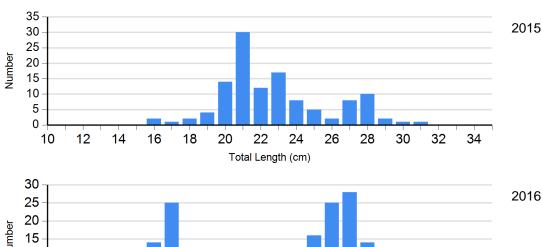
Species: Black Bullhead Gear: AFS std gill net

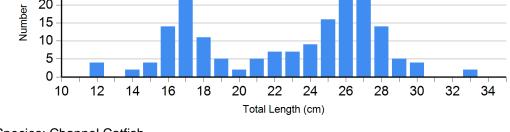


Species: Black Bullhead Gear: std exp gill net

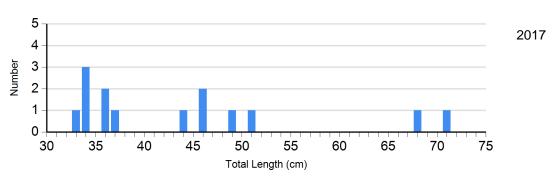


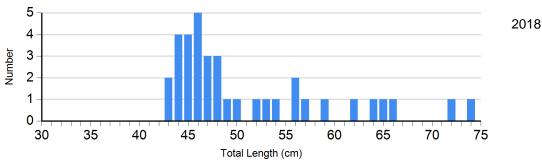




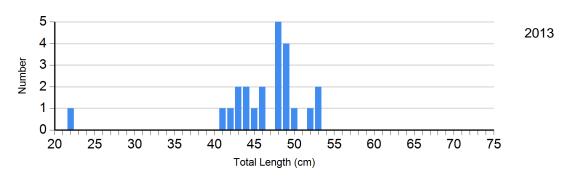


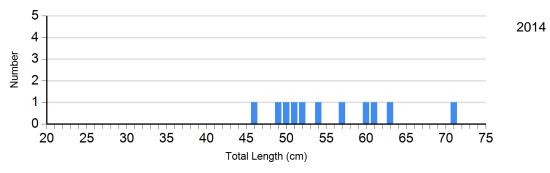
Species: Channel Catfish Gear: AFS std gill net

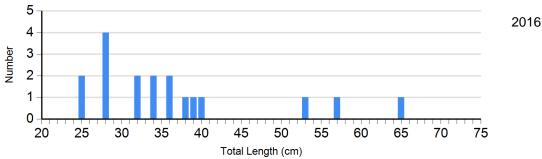




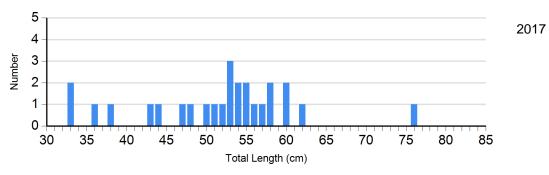
Species: Channel Catfish Gear: std exp gill net



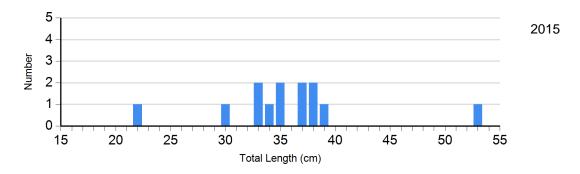




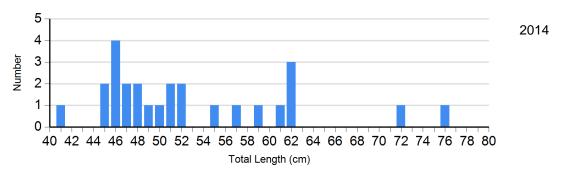
Species: Common Carp Gear: AFS std gill net



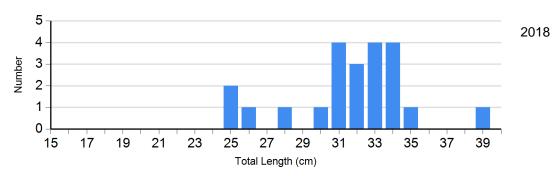
Species: Common Carp Gear: std exp gill net



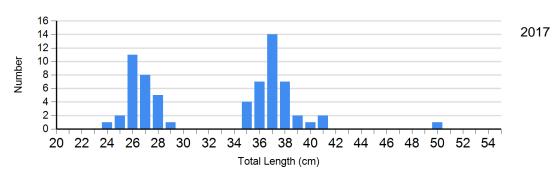
Species: Northern Pike Gear: std exp gill net

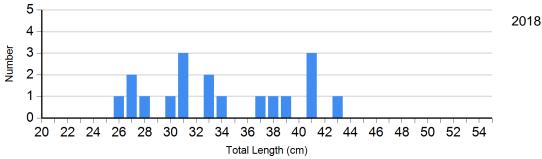


Species: Saugeye Gear: AFS std gill net

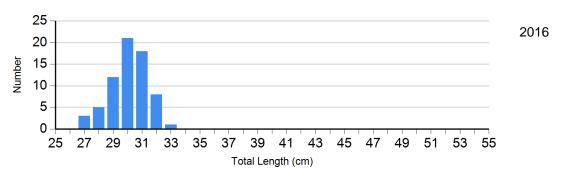


Species: Walleye Gear: AFS std gill net

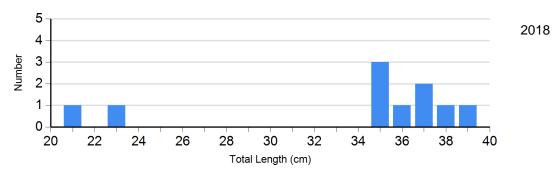




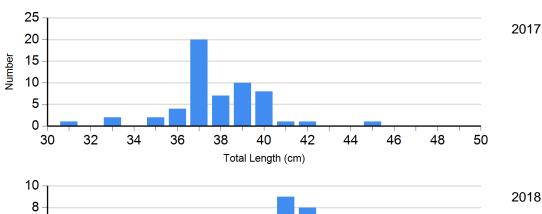
Species: Walleye Gear: std exp gill net

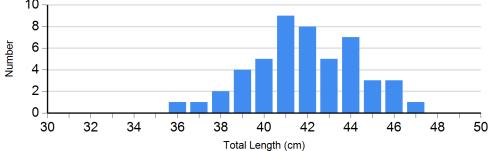


Species: White Bass Gear: AFS std gill net

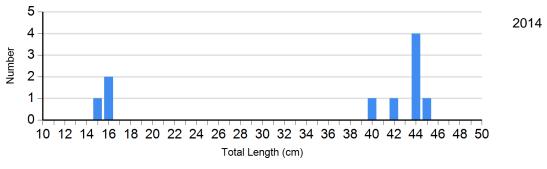


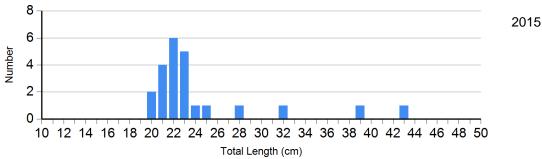
Species: White Sucker Gear: AFS std gill net

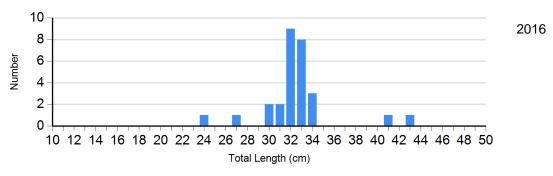




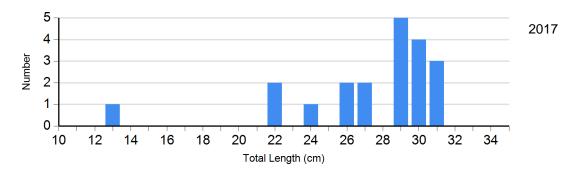
Species: White Sucker Gear: std exp gill net



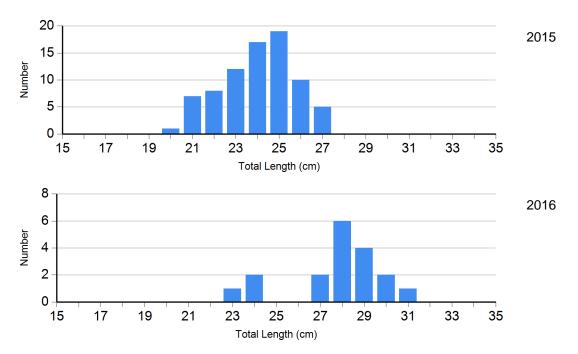




Species: Yellow Perch Gear: AFS std gill net



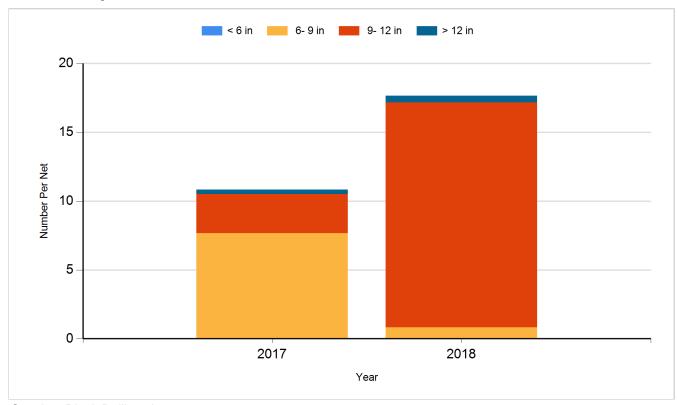
Species: Yellow Perch Gear: std exp gill net



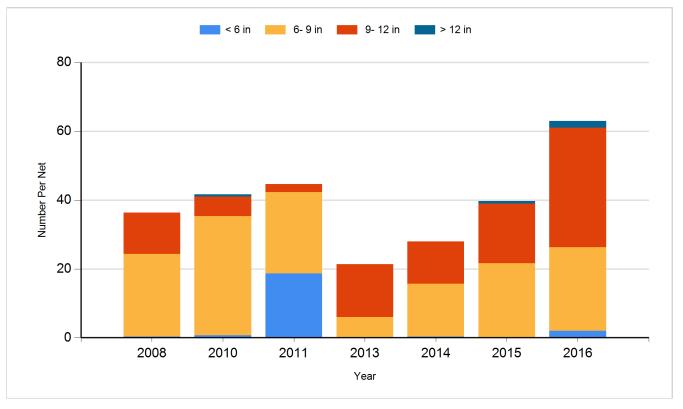
Historic Fish Sizes and Relative Abundance

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

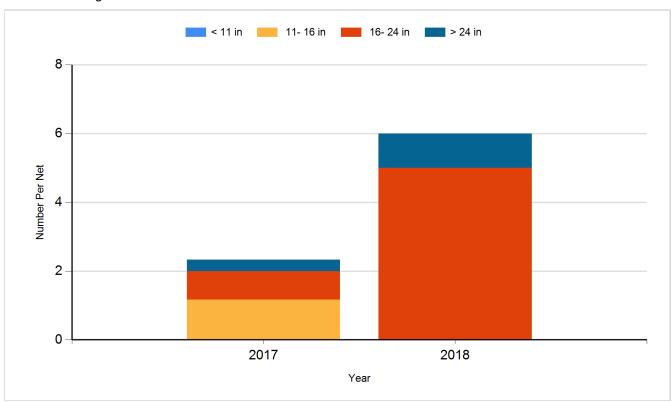
Species: Black Bullhead Gear: AFS std gill net



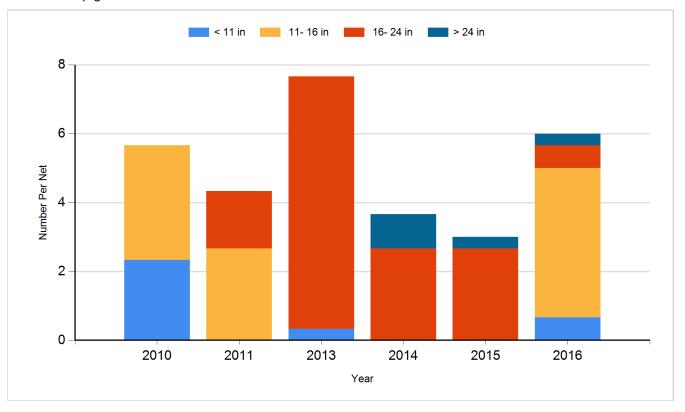
Species: Black Bullhead Gear: std exp gill net



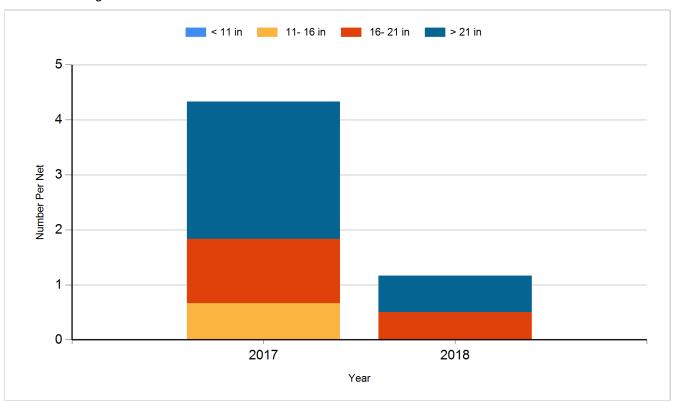
Species: Channel Catfish Gear: AFS std gill net



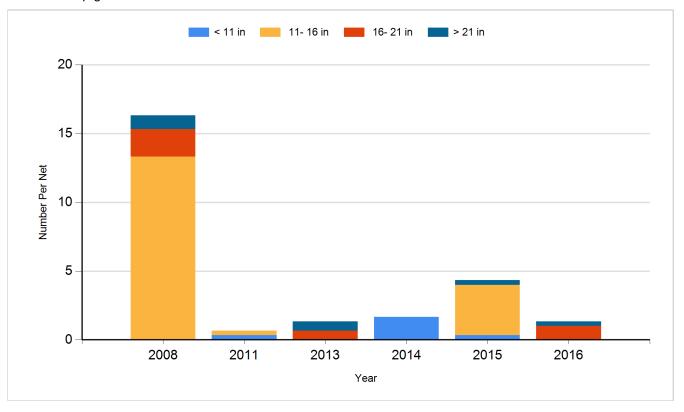
Species: Channel Catfish Gear: std exp gill net



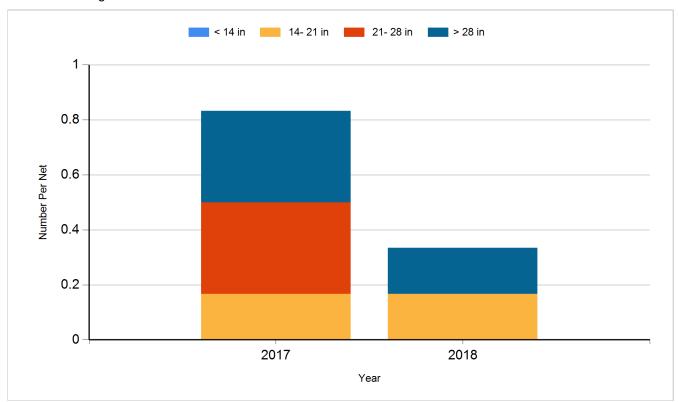
Species: Common Carp Gear: AFS std gill net



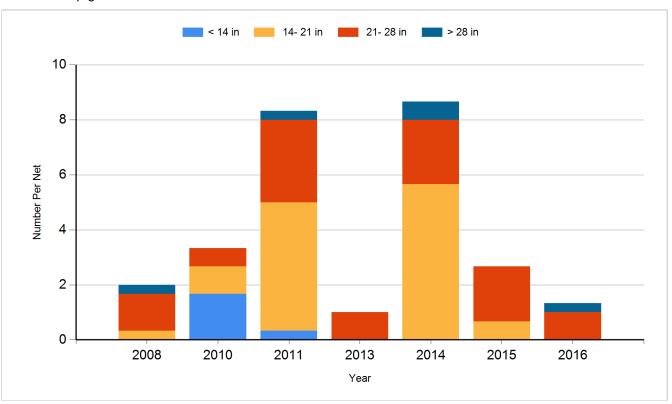
Species: Common Carp Gear: std exp gill net



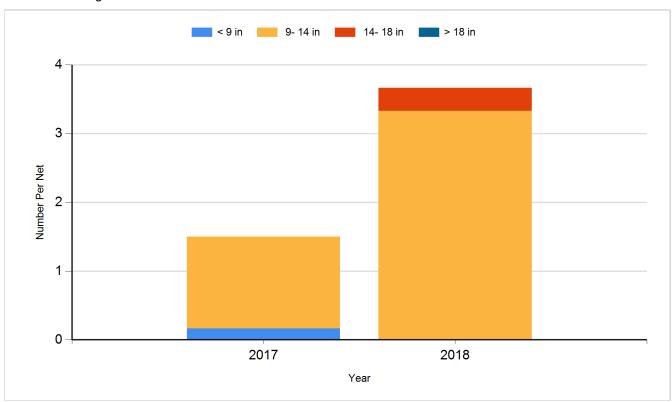
Species: Northern Pike Gear: AFS std gill net



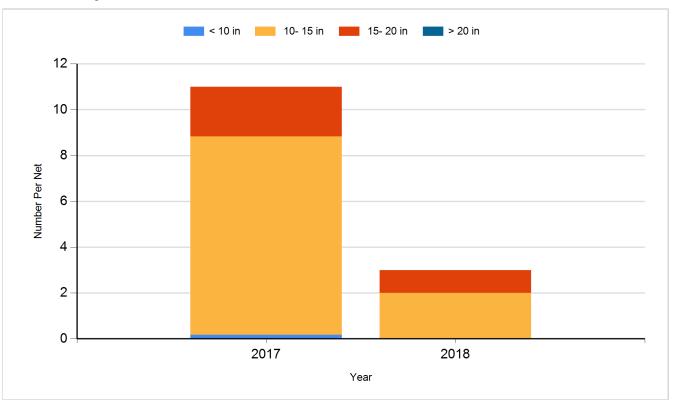
Species: Northern Pike Gear: std exp gill net



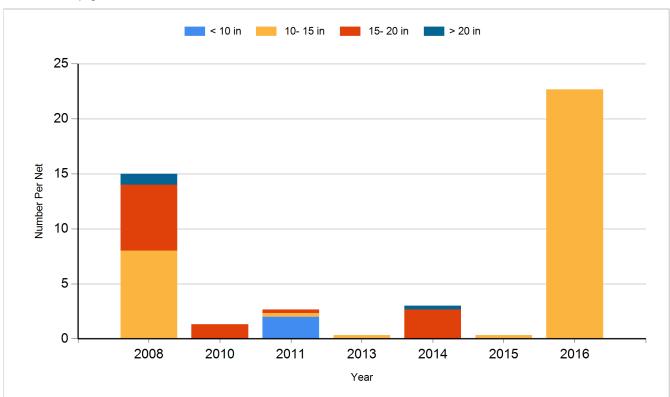
Species: Saugeye Gear: AFS std gill net



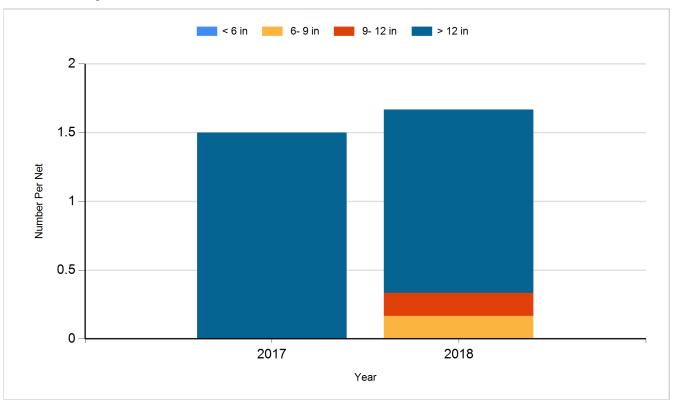
Species: Walleye Gear: AFS std gill net



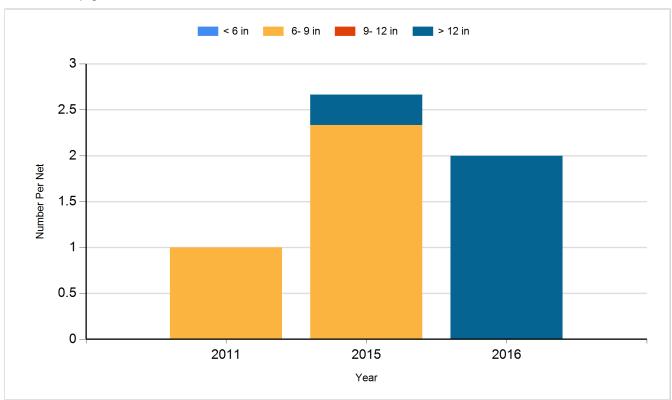
Species: Walleye Gear: std exp gill net



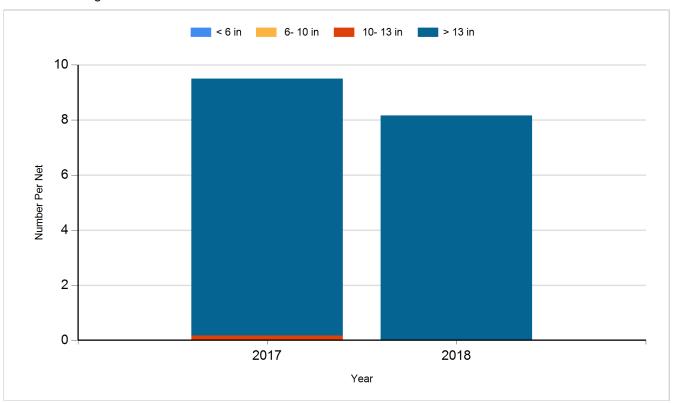
Species: White Bass Gear: AFS std gill net



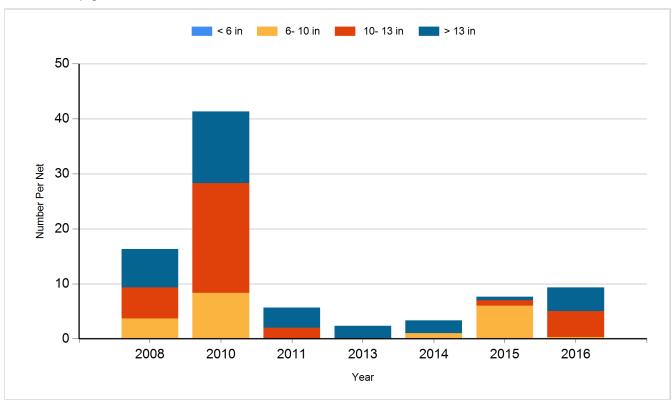
Species: White Bass Gear: std exp gill net



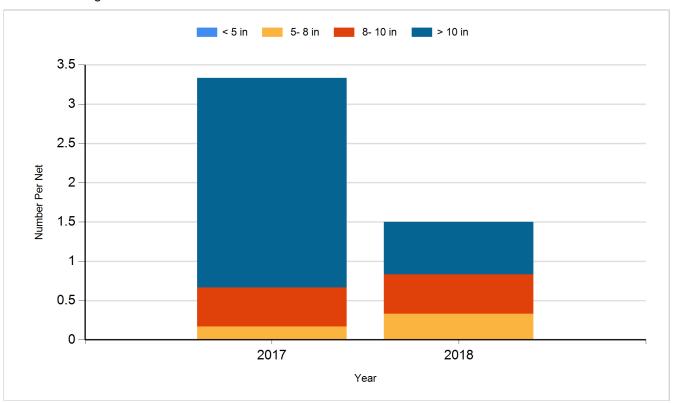
Species: White Sucker Gear: AFS std gill net



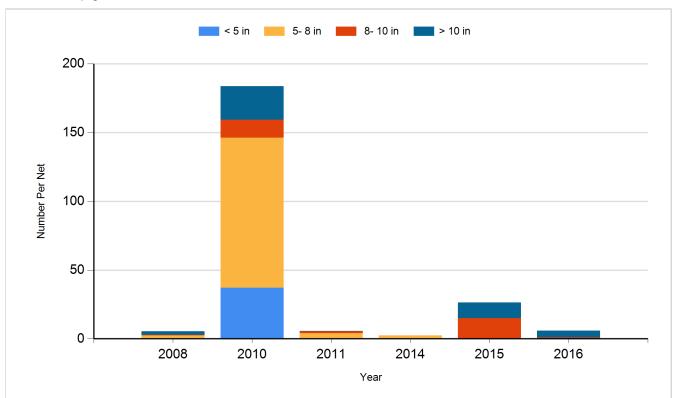
Species: White Sucker Gear: std exp gill net



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
2009	Yellow Perch	Fry	4,584,000
2010	Walleye	Small Fingerling	91,320
2014	Walleye	Fry	553,320
2015	Walleye	Fry	450,000
2016	Saugeye	Small Fingerling	46,310
2017	Saugeye	Small Fingerling	62,500
2017	Yellow Perch	Small Fingerling	510,590
2018	Walleye	Small Fingerling	64,390
2018	Yellow Perch	Small Fingerling	455,780