Lake Sharpe Survey Summary

Lake Sharpe is a large (approximately 61,000 acres) Missouri River Reservoir extending from Fort Thompson to Pierre, South Dakota. Lake Sharpe is a destination for many anglers. Many species of fish are found within Lake Sharpe. A few species of Aquatic Invasive Species (AIS) inhabit Lake Sharpe and include Eurasian watermilfoil, curly-leafed pondweed, European rudd, purple loosestrife, and zebra mussels (discovered in 2019 in Lake Sharpe). Please remember to clean, drain, and dry all equipment used on Lake Sharpe before future use.

Walleye regulations are in place for Lake Sharpe. All walleye less than 15 inches must be released year-round except during July and August where there is no minimum size regulation. Also, only one walleye 20 inches or greater may be kept per person, yearlong. Please see the South Dakota Fishing Handbook for more details. Fishing access is plentiful throughout Lake Sharpe. Numerous boat ramps, miles of shore fishing access, and three State Recreation Areas all provide easy access for anglers to fish Lake Sharpe.

Below are a few of the common angler targeted species of fish summaries for Lake Sharpe fisheries survey completed in 2020.

- **Channel Catfish:** Channel catfish can be found throughout the lake and are great fun to catch. Channel catfish are abundant in Lake Sharpe and are often overlooked. During the 2020 survey, the average size was 19 inches and 2.5 pounds. Gill net catch rates in 2020 were 4.3 fish/net which is near the average 3.7. Approximately 18 percent of fish collected also were larger than 24 inches. The plumpness or fatness of channel catfish was good (88 Wr).

- **Smallmouth Bass:** Smallmouth bass population abundance is stable and provides additional sport for anglers. Net catch rates in 2020 was 0.7 fish/net which was just below the average of 1.1 fish/net. The average smallmouth bass collected in 2020 was 13.5 inches and 1.5 pounds. Approximately 31 percent of the fish collected were larger than 14 inches. Smallmouth bass in Lake Sharpe can reach lengths greater than 20 inches. The plumpness of smallmouth bass was good (103 Wr).

- **Sauger:** Lake Sharpe sauger remains a secondary species. Sauger are more commonly found in the upper, more river-like, reaches of Lake Sharpe. Abundance seen in 2020 was 0.1 fish/net slightly lower than the average of 0.4 fish/net. Ages were determined from the fish collected and they ranged from 3 to 6 years old. Sauger typically reach 15 inches during the fourth and fifth growing season.

- **Walleye:** Walleye are the primary targeted species by anglers fishing Lake Sharpe. Walleye abundance increased to 7.6 fish/net in 2020 above the average of 6.3 fish/net. Walleye collected ranged from 7.5 to 29 inches and averaged 15 inches. Approximately 57 percent of the population exceeded 15 inches at the time of survey. Walleye production was good throughout the lake as young walleye were collected by small mesh gill nets. Walleye typically surpass 15 inches during their fourth growing season. Walleye aged 0 to 19 years old were collected in 2020. Lake Sharpe will continue to be a productive fishery for walleye into the future.

- **Yellow Perch:** Yellow perch are found in Lake Sharpe and can be targeted by anglers. They also provide a prey for larger fish within the lake. Abundance was near average (1.1 fish/net) from the average of 0.9 fish/net. Yellow perch collected ranged from 5.5 to 11.5 inches and averaged 8.5 inches in length. Approximately 22 percent collected were larger than 10 inches. Most yellow perch caught by anglers are accidently caught while targeting walleye.

A walleye tagging project for 2017-2022 is currently underway. Many walleye each year will be collected and tagged in the outer jaw with a numbered band. If you are lucky to catch one of these tagged walleye please report information at tag.sd.gov to help biologists improve the walleye fishery on Lake Sharpe. Please report fish that were kept or released.

For more detailed results see the computer-generated South Dakota Statewide Fisheries Survey for Lake Sharpe below. Please contact South Dakota Game, Fish and Parks Ft Pierre office – (605) 223-7705 for additional information.

Prepared 03-03-2021 by KDP

SOUTH DAKOTA STATEWIDE FISHERIES SURVEY
Sharpe, Hughes County
FTR-Lake-6327-001
2020

Lake Information

Name: Sharpe

County: Hughes

Surface Area: 58,660 Acres

Surveys and Investigations

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

Gear	Date	Effort
AFS gill net (1/2 inch)	Aug 03, 2020	12 net-nights
AFS gill net (1/2 inch)	Aug 04, 2020	27 net-nights
AFS gill net (1/2 inch)	Aug 05, 2020	20 net-nights
AFS gill net (1/2 inch)	Aug 06, 2020	12 net-nights
AFS std gill net	Aug 03, 2020	12 net-nights
AFS std gill net	Aug 04, 2020	27 net-nights
AFS std gill net	Aug 05, 2020	20 net-nights
AFS std gill net	Aug 06, 2020	12 net-nights

Common Fish Species Present

Walleye

Channel Catfish

Gizzard Shad

Yellow Perch

Common Carp

Smallmouth Bass

Freshwater Drum

River Carpsucker

Shorthead Redhorse

Spottail Shiner

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.
- s**td 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.

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

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.

$$PSD = \left(\frac{number\ of\ fish \geq quality\ length}{number\ of\ fish \geq stock\ length}\right) \text{x } 100$$

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

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.

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

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		Quality		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**

			Abundance		Stock Density Indices				Condition	
Gear	Species	Sample Size (n)	CPUE	CI-80	PSD	CI-80	PSD-P	CI-80	Wr	CI-80
AFS gill net (1/2 inch)*	Channel Catfish	9	0.1	0.1	63		0		88	5
	Common Carp	8	0.1	0.0	88		50		94	7
	Freshwater Drum	6	0.1	0.1	100		100		100	
	Gizzard Shad	158	2.2	1.4	0				100	
	Lake Herring	2	0.0	0.0	100		50		84	15
	Spottail Shiner	24	0.3	0.2						
	Walleye	21	0.3	0.1	50		0		94	2
	White Bass	3	0.0	0.0	0		0			
	Yellow Perch	20	0.3	0.1	19		6		91	3
AFS std gill net	Bigmouth Buffalo	4	0.1	0.0	100		100		88	5
	Channel Catfish	318	4.3	0.4	78	3	18	3	88	1
	Chinook Salmon	1	0.0	0.0						
	Common Carp	60	0.8	0.2	98		27	8	85	1
	Flathead Catfish	2	0.0	0.0	50		0		87	7
	Freshwater Drum	45	0.6	0.1	100		100		88	2
	Gizzard Shad	18	0.3	0.1	100				103	3
	Goldeye	24	0.0	0.0						
	Lake Herring	10	0.1	0.1	100		80		85	4
	Northern Pike	3	0.0	0.0	67		33		90	12
	River Carpsucker	27	0.4	0.1	100		96		104	7
	Sauger	5	0.1	0.0	100		20		80	5
	Shorthead Redhorse	27	0.4	0.2	100		56	15	100	2
	Shovelnose Sturgeon	3	0.0	0.0						
	Smallmouth Bass	48	0.7	0.4	88	7	31	10	103	2
	Smallmouth Buffalo	2	0.0	0.0	100		50		79	8
	Walleye	549	7.6	0.9	57	3	2	1	89	0
	White Bass	7	0.1	0.1	100		100		98	3
	White Crappie	1	0.0	0.0	0		0		106	
	White Sucker	2	0.0	0.0	50		50		85	9
	Yellow Perch	77	1.1	0.3	68	8	22	7	93	1

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	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	Avg
AFS gill net (1/2 inch)	Channel Catfish							0.1	0.0	0.0	0.1	0.05
	Common Carp							0.0	0.0	0.1	0.1	0.05
	Freshwater Drum							0.0	0.0	0.0	0.1	0.03
	Gizzard Shad							0.0	0.1	0.0	2.2	0.58
	Sauger							0.0	0.0	0.1	0.0	0.03
	Spottail Shiner							0.2	0.5	0.6	0.3	0.40
	Walleye							0.3	0.4	0.2	0.3	0.30
	Yellow Perch							0.2	0.3	0.3	0.3	0.28
AFS std gill net	Bigmouth Buffalo				0.0			0.0	0.0	0.0	0.1	0.02
	Channel Catfish				2.3			4.9	4.2	2.7	4.3	3.68
	Common Carp				0.4			0.9	0.6	0.8	0.8	0.70
	Flathead Catfish				0.0			0.0	0.1	0.0	0.0	0.02
	Freshwater Drum				0.4			0.6	0.4	0.5	0.6	0.50
	Gizzard Shad				0.2			0.3	0.3	0.5	0.3	0.32
	Lake Herring				0.0			0.0	0.0	0.0	0.1	0.02
	River Carpsucker				0.8			0.2	0.0	0.1	0.4	0.30
	Sauger				1.0			0.4	0.1	0.2	0.1	0.36
	Shorthead Redhorse				0.6			0.1	0.2	0.3	0.4	0.32
	Smallmouth Bass				1.9			0.8	1.0	0.9	0.7	1.06
	Smallmouth Buffalo				0.3			0.1	0.0	0.1	0.0	0.10
	Walleye				12.9			5.0	3.4	2.6	7.6	6.30
	White Bass				0.6			0.8	0.1	0.1	0.1	0.34
	Yellow Perch				1.3			0.6	1.1	0.5	1.1	0.92
large seine	Bigmouth Buffalo		0.0	0.3	0.0	0.4	0.0	0.0	0.0	0.0		0.08
	Black Crappie		0.0	0.0	0.7	3.9	4.6	0.1	0.1	0.4		1.23
	Bluegill		1.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0		0.13
	Bluntnose Minnow		3.0	1.1	2.3	1.2	0.5	2.4	0.8	0.9		1.52
	Channel Catfish		0.0	0.5	0.1	0.2	0.1	0.0	0.1	0.1		0.13
	Common Carp		0.1	0.1	0.0	0.1	0.8	0.1	0.1	0.1		0.17
	Common Shiner		0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0		0.01
	Emerald Shiner		13.2	7.3	14.5	105.6	55.2	65.8	13.1	16.5		36.39
	Fathead Minnow		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1		0.02
	Freshwater Drum		5.1	32.3	14.8	5.4	48.3	10.9	2.9	1.6		15.16
	Gizzard Shad		1,350.9	400.9	755.8	1,000.8	224.6	694.6	1,312.3	752.0		811.47

	Goldeye		0.0	0.1	0.0	0.7	0.0	0.0	0.0	0.1	0.11
	Johnny Darter		0.5	4.2	3.5	1.1	3.4	1.7	0.9	3.8	2.38
	Lake Herring		0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.02
	Largemouth Bass		0.1	0.2	0.6	0.2	0.6	0.1	0.3	0.2	0.27
	Orangespotted Sunfish		0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.02
	Rainbow Smelt		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.05
	Red Shiner		0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.1	0.39
	River Carpsucker		3.8	0.0	0.8	0.1	1.3	0.3	0.4	2.1	1.09
	Sauger		0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.02
	Shorthead Redhorse		0.0	0.0	0.1	0.0	0.0	0.0	0.1	0.0	0.02
	Smallmouth Bass		4.3	7.4	11.1	3.3	8.1	4.3	4.8	3.3	5.82
	Smallmouth Buffalo		0.0	2.9	0.3	0.0	0.0	0.1	0.0	0.3	0.45
	Spottail Shiner		5.5	0.7	1.9	3.0	6.5	3.9	3.3	2.2	3.37
	Walleye		5.2	12.1	13.0	5.1	5.8	3.1	2.7	1.0	6.00
	White Bass		2.1	11.5	3.7	23.3	6.2	12.4	2.4	9.4	8.86
	White Crappie		3.3	3.1	0.0	0.0	0.0	12.3	0.1	4.1	2.86
	White Sucker		0.1	0.0	0.4	0.1	0.1	0.0	0.3	0.1	0.13
	Yellow Perch		23.4	54.6	41.3	27.6	146.9	26.9	27.2	16.5	45.56
std exp gill net	Bigmouth Buffalo	0.0	0.0	0.0	0.0	0.0	0.2				0.03
	Black Bullhead	0.1	0.1	0.0	0.0	0.0	0.0				0.03
	Black Crappie	0.1	0.0	0.0	0.0	0.1	0.1				0.05
	Channel Catfish	2.8	6.6	4.4	3.0	4.0	4.8				4.27
	Common Carp	1.9	1.8	2.5	1.1	2.0	1.5				1.80
	Freshwater Drum	0.2	0.3	0.1	0.1	0.4	0.5				0.27
	Gizzard Shad	0.0	0.0	0.0	0.3	0.6	3.6				0.75
	Lake Herring	0.0	0.0	0.0	0.0	0.6	0.0				0.10
	Northern Pike	0.1	0.0	0.0	0.0	0.0	0.0				0.02
	River Carpsucker	0.6	0.3	0.5	2.0	2.7	0.3				1.07
	Sauger	1.8	0.9	1.4	1.6	1.9	1.4				1.50
	Shorthead Redhorse	0.7	0.8	1.3	0.7	1.5	0.3				0.88
	Smallmouth Bass	0.3	0.2	1.1	0.6	0.7	1.6				0.75
	Smallmouth Buffalo	0.0	0.0	0.0	0.1	0.0	0.0				0.02
	Walleye	18.4	21.9	12.5	8.0	12.9	21.3				15.83
	White Bass	0.4	0.0	0.8	0.2	0.0	0.2				0.27
	White Crappie	0.1	0.0	0.0	0.0	0.0	0.8				0.15
	White Sucker	0.3	0.0	0.1	0.0	0.0	0.0				0.07
	Yellow Perch	2.6	1.8	1.4	0.9	3.0	2.7				2.07

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.

			Year									
Gear	Species	Index	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
AFS gill net (1/2 inch)	Channel Catfish	PSD							20		0	63
		PSD-P							0		0	0
		Wr							93		87	88
	Sauger	PSD									50	
		PSD-P									50	
		Wr									74	
	Smallmouth Bass	PSD							0			
		PSD-P							0			
		Wr							89			
	Walleye	PSD							0	29	0	50
		PSD-P							0	0	0	0
		Wr							91	97	84	94
	White Bass	PSD								0		0
		PSD-P								0		0
	Yellow Perch	PSD							17	17	14	19
		PSD-P							0	0	0	6
		Wr							85	80	96	91
AFS std gill net	Channel Catfish	PSD				86			68	68	67	78
		PSD-P				39			18	21	16	18
		Wr							85	90	91	88
	Sauger	PSD				97			93	100	92	100
		PSD-P				49			26	38	33	20
		Wr							72	70	65	80
	Smallmouth Bass	PSD				68			70	90	87	88
		PSD-P				26			32	49	61	31
		Wr							99	100	93	103
	Walleye	PSD				26			35	40	47	57
		PSD-P				2			1	1	1	2
		Wr							77	80	78	89
	White Bass	PSD				96			100	100	100	100
		PSD-P				74			100	100	100	100
		Wr							93	100	92	98
	Yellow Perch	PSD				56			57	55	68	68

		PSD-P				22			19	17	14	22
		Wr							87	86	98	93
std exp gill net	Channel Catfish	PSD	82	53	53	77	68	44				
		PSD-P	2	5	4	15	13	9				
		Wr	89	90	86	86	89	85				
	Sauger	PSD	86	95	94	92	98	97				
		PSD-P	43	48	30	66	60	55				
		Wr	77	79	76	72	76	74				
	Smallmouth Bass	PSD	80	40	52	79	71	71				
		PSD-P	40	20	19	57	35	47				
		Wr	87	101	107	101	100	101				
	Walleye	PSD	39	41	60	52	41	41				
		PSD-P	1	1	0	1	0	1				
		Wr	83	83	84	85	79	82				
	White Bass	PSD	71	100	89	100	100	100				
		PSD-P	71	100	5	100	100	60				
		Wr	86	102	108	104	93	94				
	Yellow Perch	PSD	61	58	74	36	56	62				
		PSD-P	20	9	50	32	15	17				
		Wr	83	91	97	92	96	84				

Length at Capture

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

Species: Sauger

		Mean Length (expanded sample number) at capture by age									
Year	N	1	2	3	4	5	6	7	8	9	10+
2020	5			331 (1)	388 (2)	366 (1)	371 (1)				
2019	11		284 (1)	341 (3)	346 (1)	377 (5)		415 (1)			
2018	7			356 (4)	359 (2)	384 (1)					
2017	27		321 (8)	361 (15)	432 (2)			468 (2)			
2016	32		330 (12)	382 (5)	396 (5)	404 (1)	404 (1)	474 (7)			
2015	44		317 (9)	391 (19)	408 (2)	417 (7)	459 (3)		413 (1)	445 (2)	451 (1)
2014	67	289 (6)	349 (21)	387 (15)	409 (17)	419 (8)		564 (1)		526 (2)	
2013	33	253 (2)	348 (7)	370 (13)	381 (8)	424 (1)			463 (2)		
2012	26		305 (9)	380 (11)			429 (3)	442 (3)			
2011	28	204 (4)	341 (12)	414 (4)	504 (1)	456 (5)	463 (2)				

Species: Walleye

		Mean Length (expanded sample number) at capture by age									
Year	N	1	2	3	4	5	6	7	8	9	10+
2020	548	238 (12)	328 (118)	371 (97)	393 (127)	408 (61)	406 (80)	420 (39)	473 (6)		586 (7)
2019	199	222 (16)	319 (15)	359 (48)	384 (26)	380 (53)	404 (29)	451 (7)		500 (2)	462 (1)
2018	264	236 (24)	318 (62)	360 (49)	379 (55)	400 (55)	437 (12)		393 (1)	553 (2)	485 (3)
2017	377	239 (28)	313 (65)	357 (144)	390 (86)	418 (30)	407 (3)	442 (4)	464 (6)	456 (3)	518 (8)
2016	531	232 (22)	322 (184)	374 (206)	409 (67)		455 (10)	447 (19)	455 (7)	455 (4)	494 (9)
2015	341	214 (34)	327 (121)	382 (130)	450 (5)	426 (15)	423 (18)	416 (11)	432 (6)	465 (1)	
2014	681	245 (150)	337 (292)	389 (25)	397 (63)	427 (80)	423 (38)	426 (17)	456 (6)	461 (10)	
2013	315	249 (35)	349 (23)	380 (102)	397 (95)	395 (28)	426 (16)	465 (7)	444 (4)	424 (1)	454 (6)
2012	945	248 (13)	307 (417)	358 (307)	357 (107)	415 (39)	437 (28)	453 (19)		470 (9)	437 (5)
2011	320	231 (35)	340 (162)	387 (45)	436 (29)	436 (25)	463 (12)	404 (1)	503 (3)		490 (8)

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).

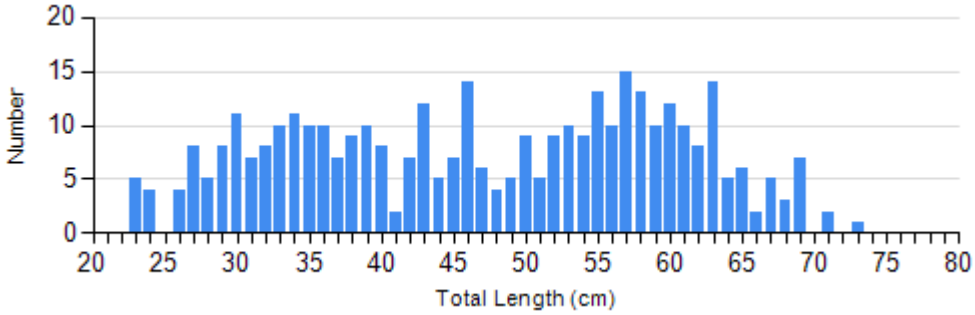
		Length Groups							
		S-Q		Q-P		P-M		M	
Species	Year	N	Wr (SE)	N	Wr (SE)	N	Wr (SE)	N	Wr (SE)
Channel Catfish Gill Net	2016	65	88 (1.5)	41	82 (1.6)	9	81 (2.6)	1	75
	2017	114	89 (1.2)	177	84 (0.9)	60	81 (1.5)	3	93 (5.3)
	2018	97	96 (3.9)	143	87 (0.8)	61	85 (1.7)	1	105
	2019	65	90 (0.7)	100	92 (1.1)	29	94 (1.9)	2	85 (6.4)
	2020	68	90 (0.8)	181	87 (0.7)	49	91 (1.8)	5	86 (6.6)
Sauger Gill Net	2016	1	68	14	77 (1.0)	18	71 (1.0)	0	
	2017	2	110 (47.6)	18	71 (1.5)	7	65 (4.4)	0	
	2018	0		5	68 (4.3)	3	72 (1.1)	0	
	2019	1	74	7	67 (4.0)	4	59 (2.7)	0	
	2020	0		4	81 (4.4)	1	73	0	
Walleye Gill Net	2016	303	84 (0.5)	203	81 (0.5)	5	73 (1.1)	0	
	2017	232	80 (0.8)	121	72 (0.7)	2	69 (0.6)	2	73 (3.4)
	2018	146	82 (0.6)	96	77 (0.5)	3	74 (3.1)	0	
	2019	97	81 (0.7)	85	76 (0.8)	2	75 (2.3)	0	
	2020	230	90 (0.5)	299	88 (0.4)	7	87 (4.8)	2	101 (0.5)
White Bass Gill Net	2016	0		2	83 (22.4)	2	103 (6.0)	1	99
	2017	0		0		26	99 (1.1)	30	87 (2.3)
	2018	0		0		6	103 (1.8)	4	94 (3.4)
	2019	0		0		2	102 (2.1)	6	89 (4.2)
	2020	0		0		1	104	6	97 (2.5)
Yellow Perch Gill Net	2016	25	87 (1.5)	29	84 (1.5)	9	80 (4.9)	2	69 (20.2)
	2017	18	88 (1.9)	16	90 (2.9)	8	79 (2.1)	0	

2018	34	86 (1.3)	29	86 (1.7)	13	85 (2.4)	0
2019	12	110 (4.6)	20	95 (2.2)	5	87 (4.3)	0
2020	25	97 (2.2)	35	91 (1.1)	17	92 (1.7)	0

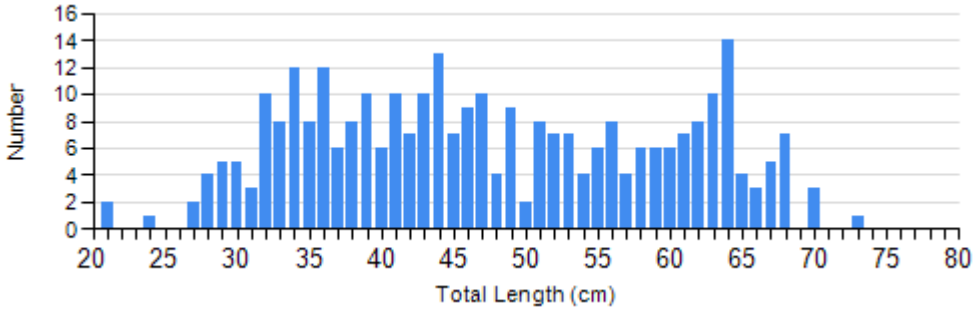
Length Frequency Distribution

Length frequency histogram of species sampled by year.

Species: Channel Catfish
Gear: AFS std gill net



2017



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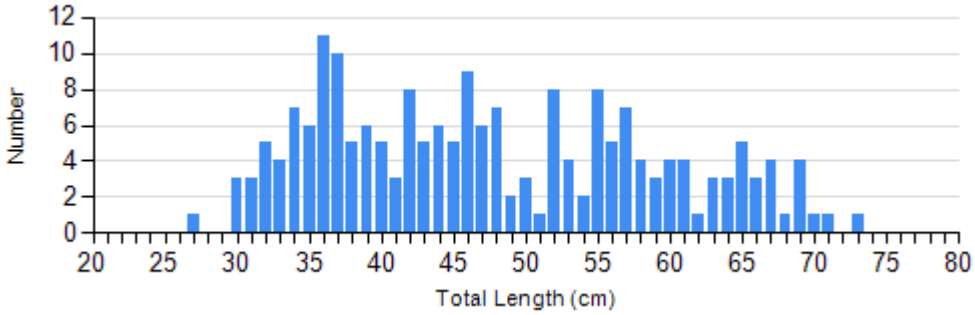
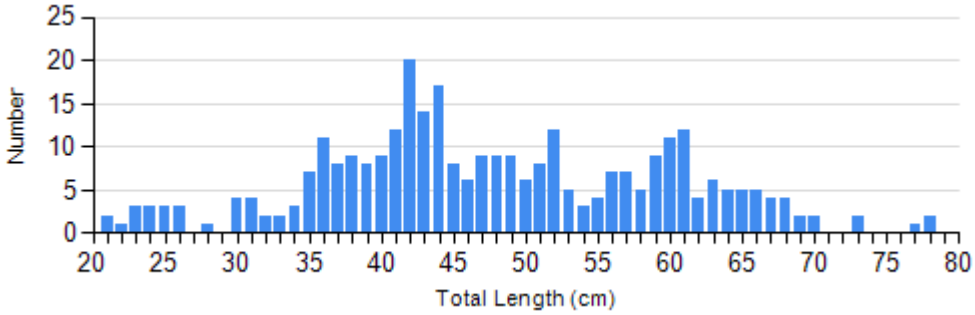


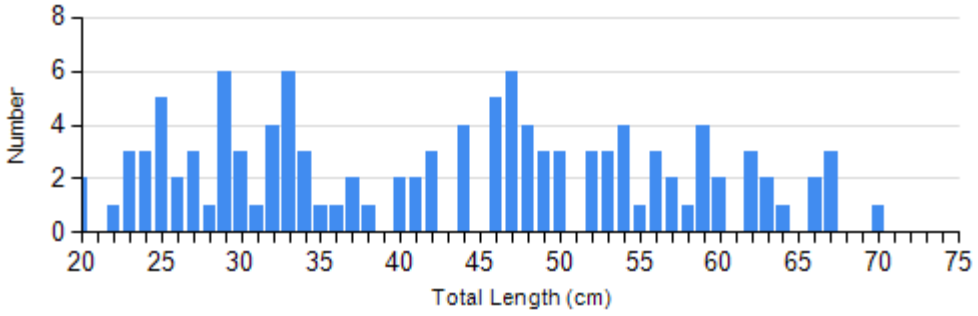
2019



2020

Species: Channel Catfish
Gear: std exp gill net

2015



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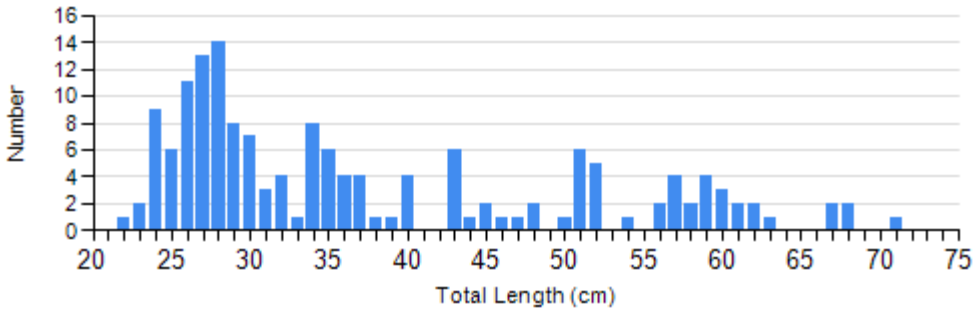
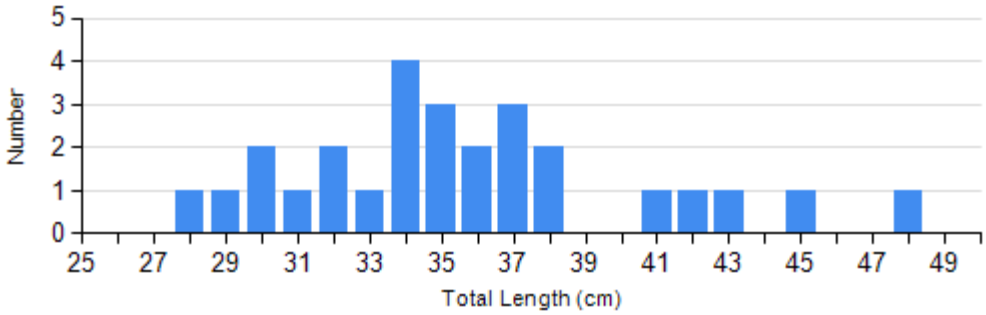


Species: Sauger
Gear: AFS std gill net

2017



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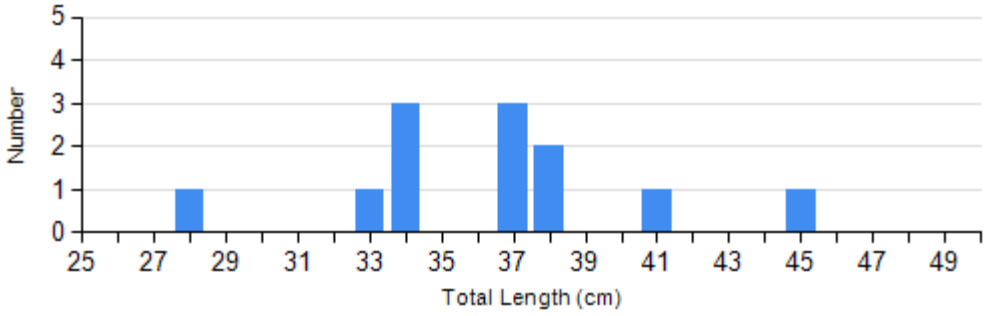
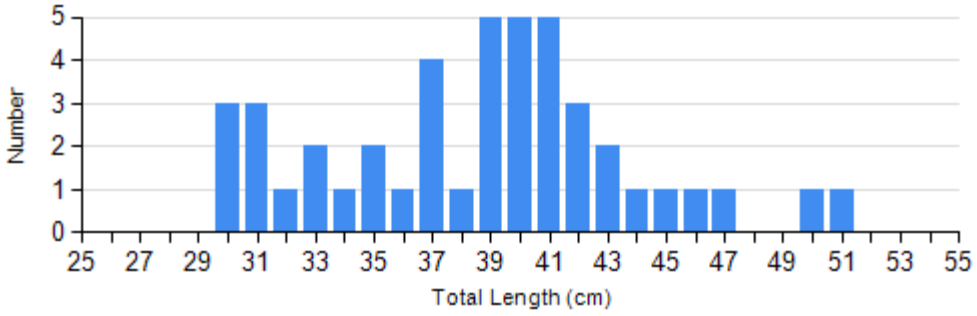


Species: Sauger
Gear: std exp gill net

2015



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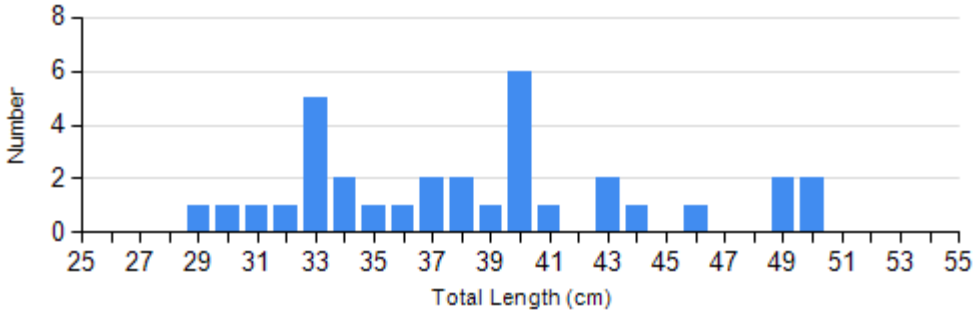
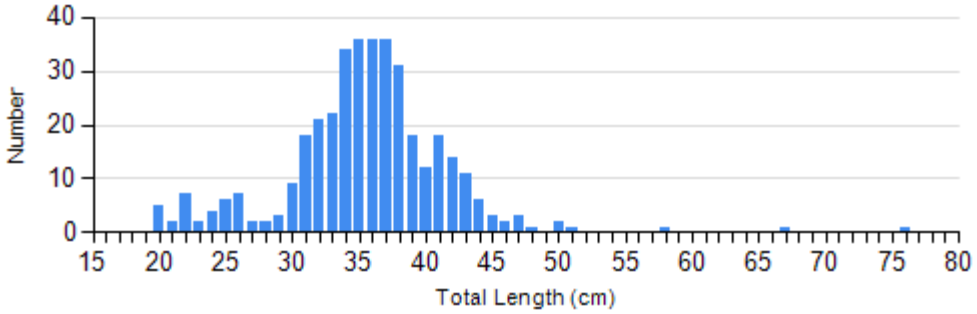


Species: Walleye
Gear: AFS std gill net

2017



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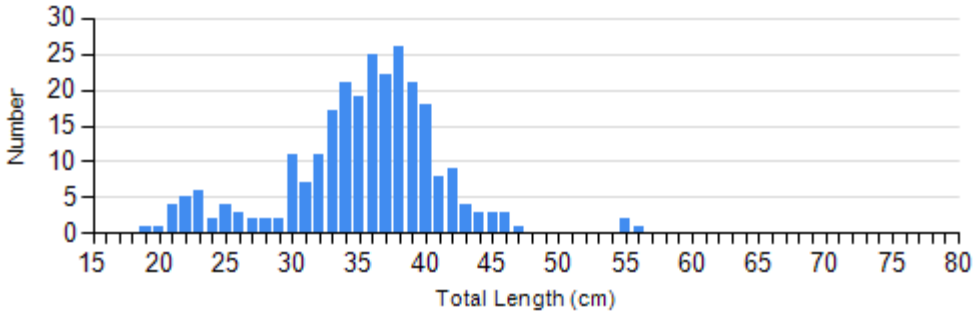
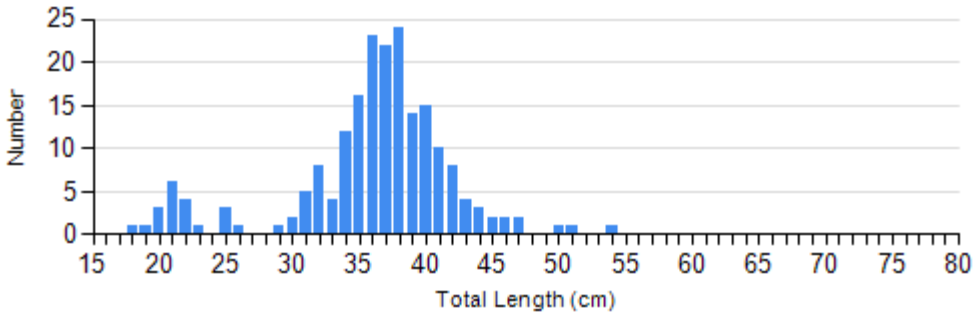
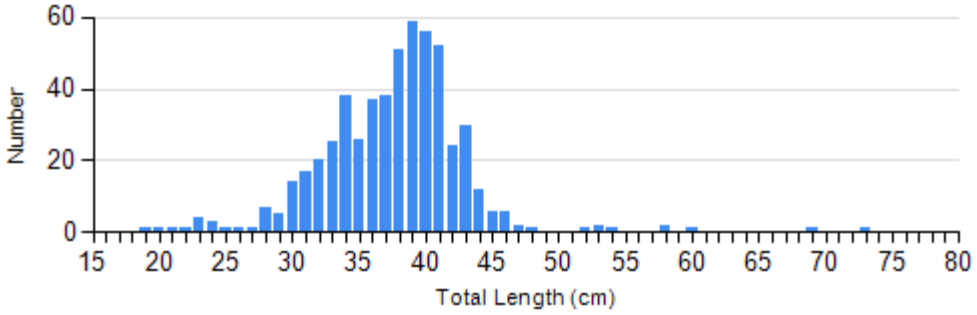


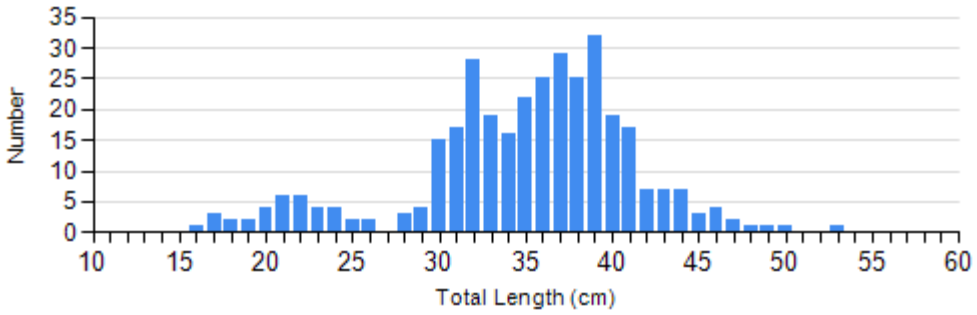
2019



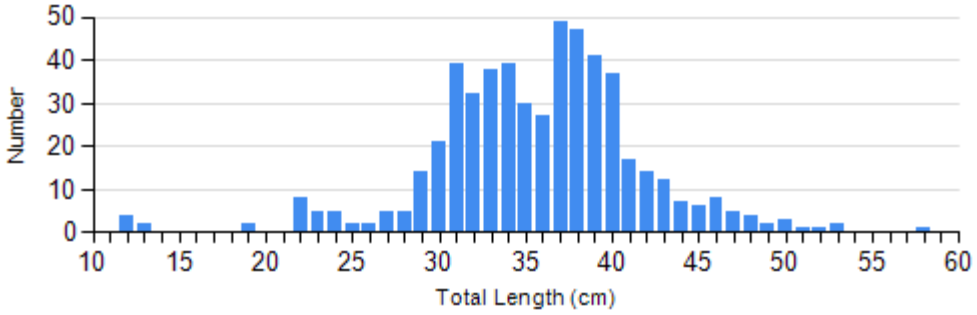


2020

Species: Walleye
Gear: std exp gill net

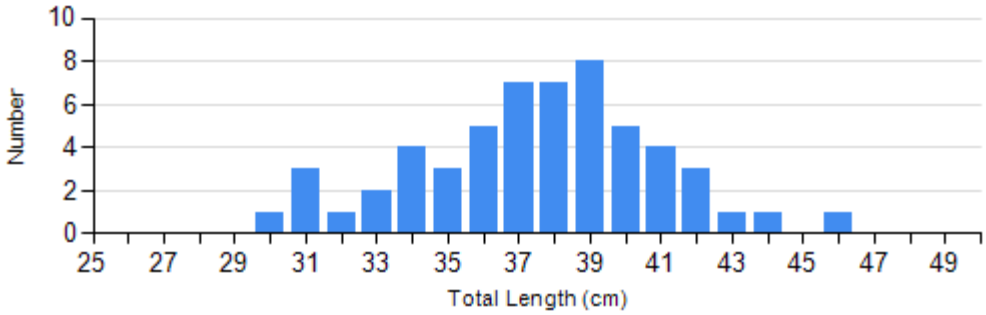


2015

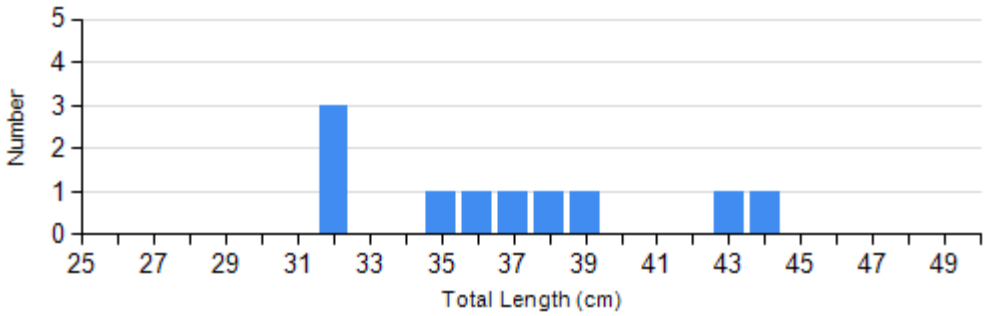


2016

Species: White Bass
Gear: AFS std gill net

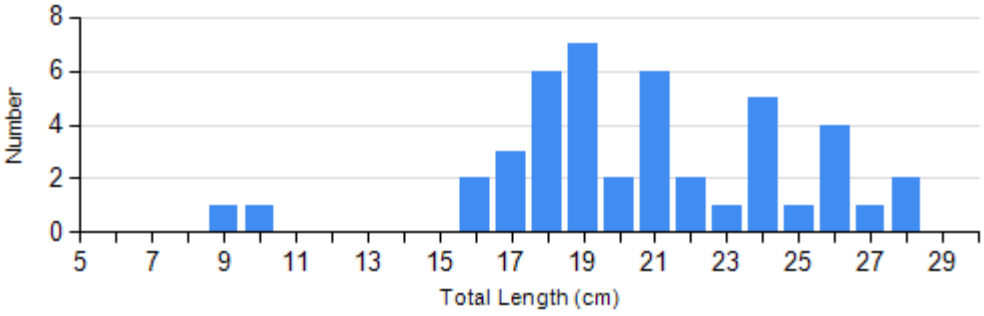


2017

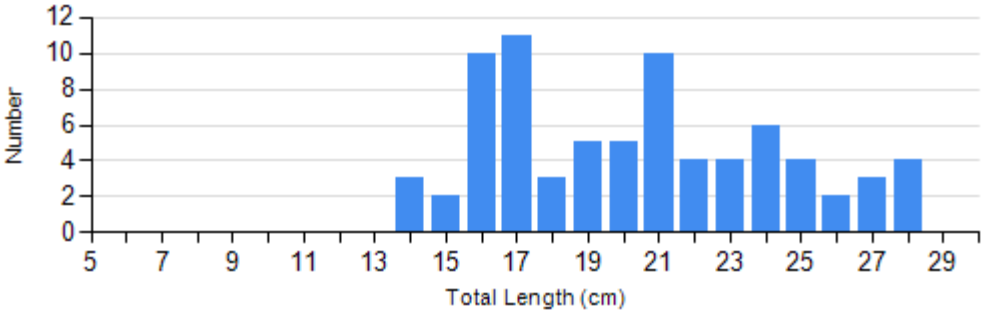


2018

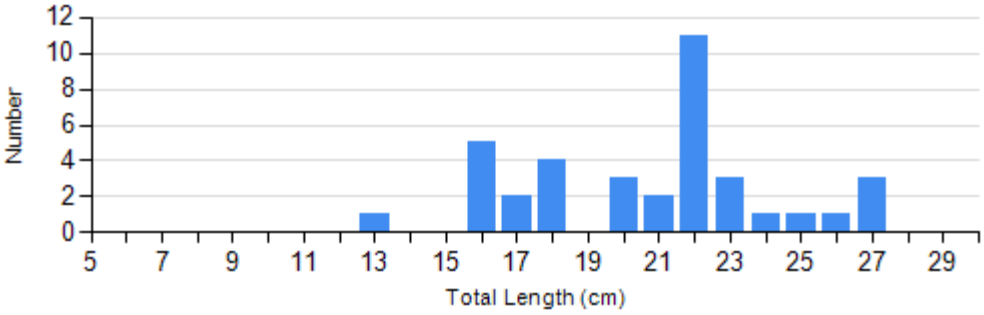
Species: Yellow Perch
Gear: AFS std gill net



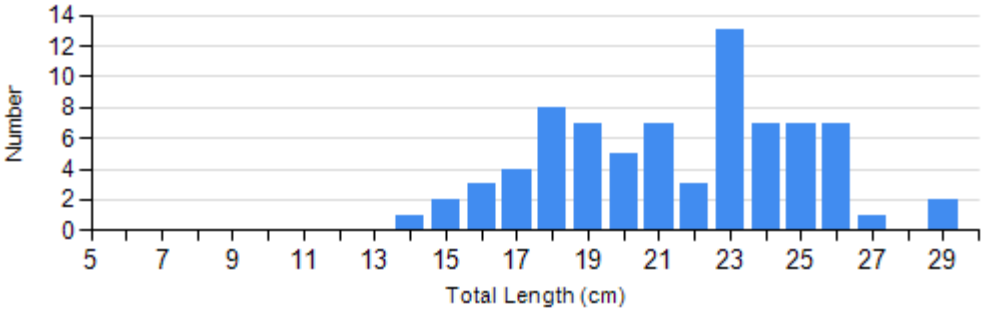
2017



2018

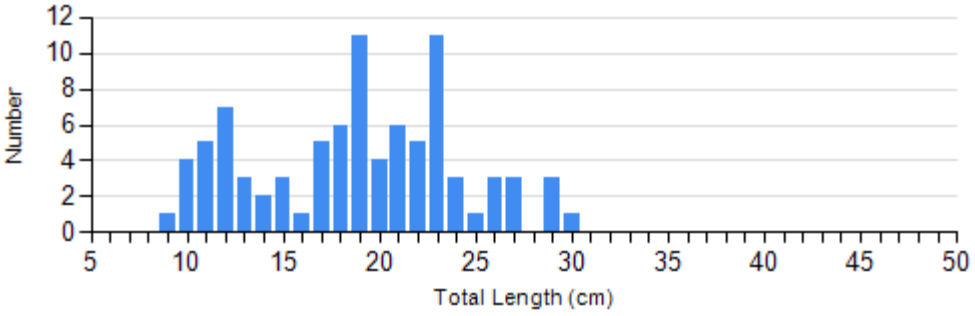


2019

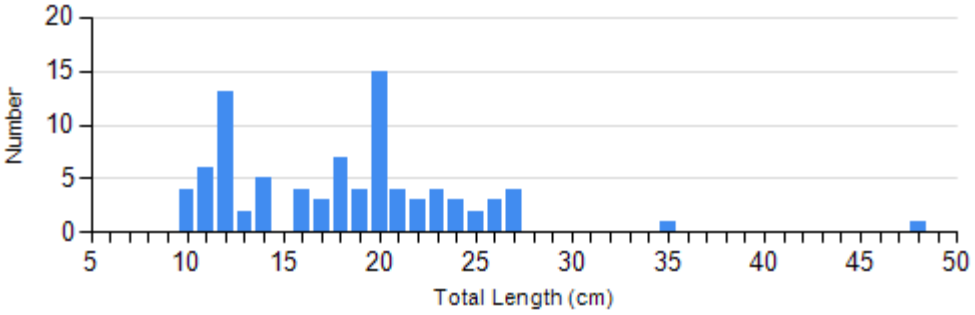


2020

Species: Yellow Perch
Gear: std exp gill net



2015

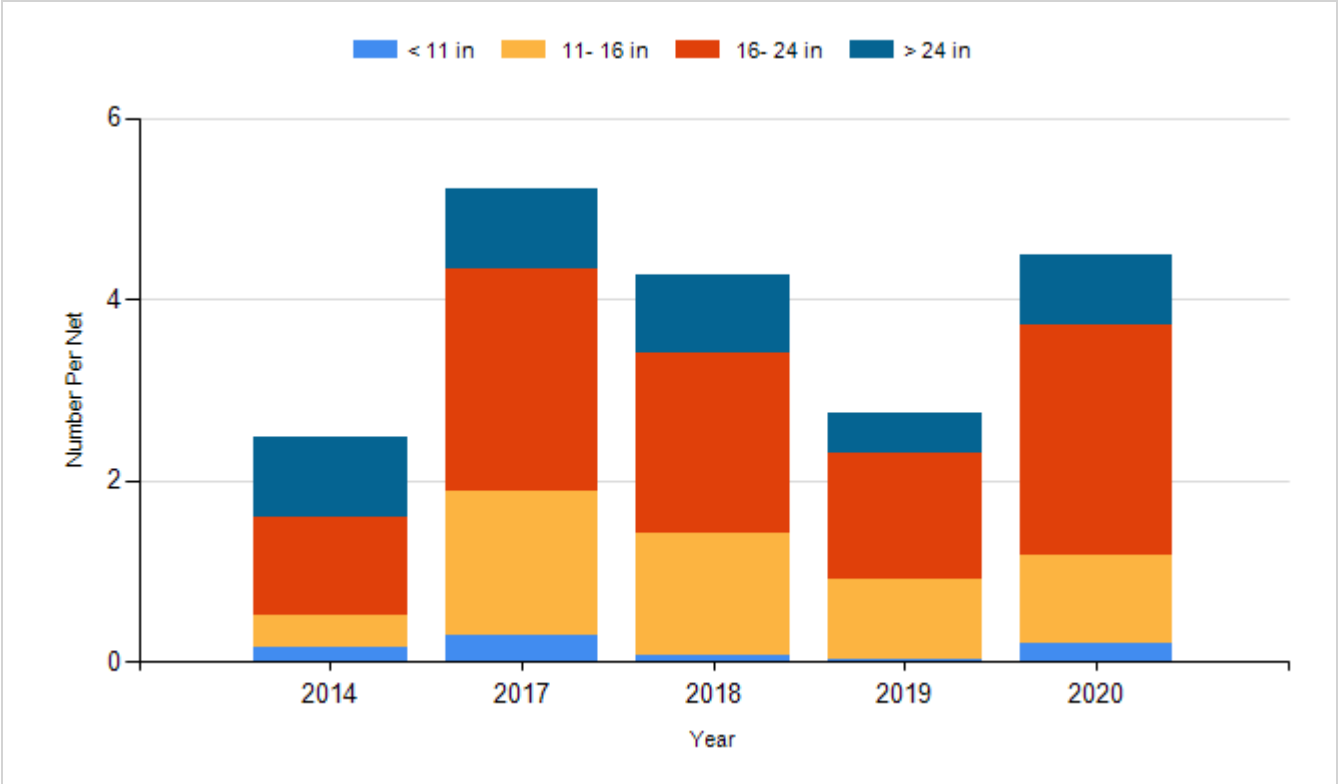


2016

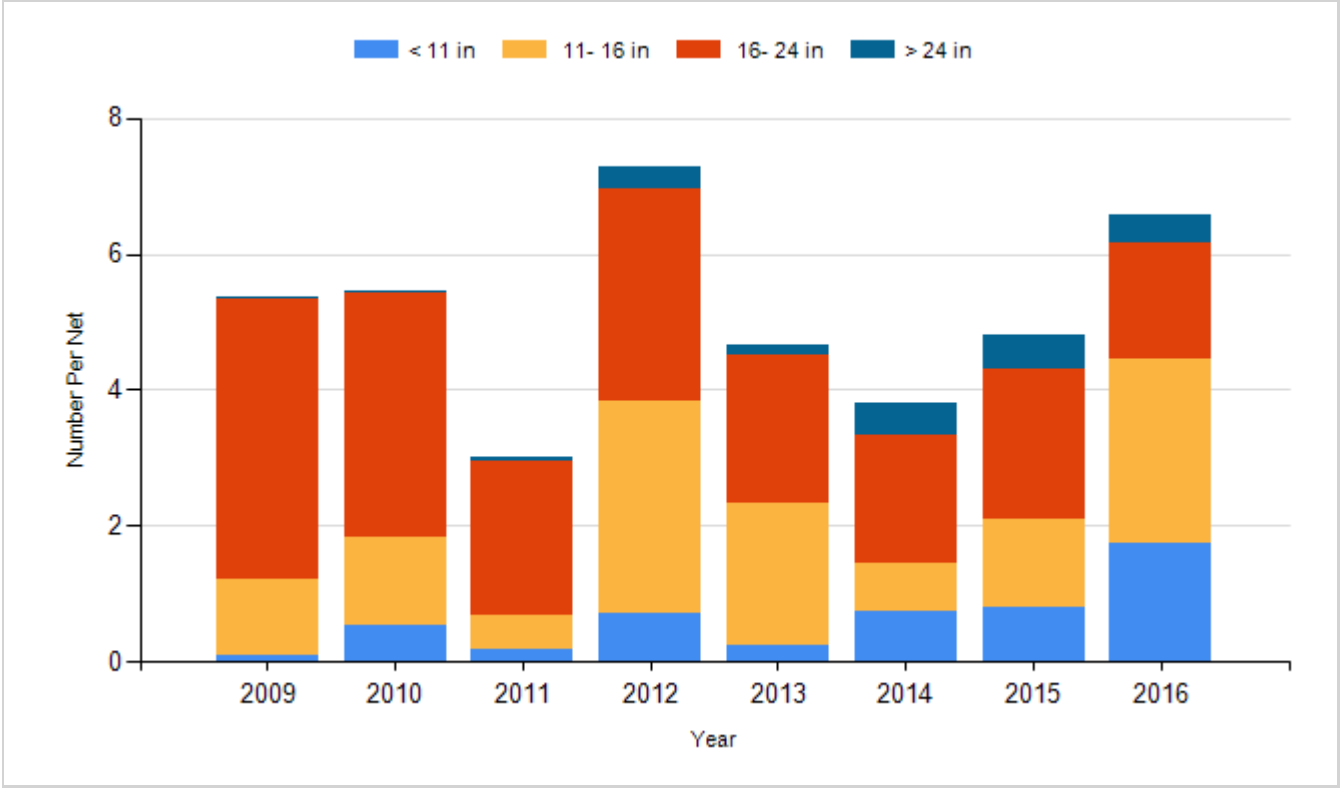
Historic Fish Sizes and Relative Abundance

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

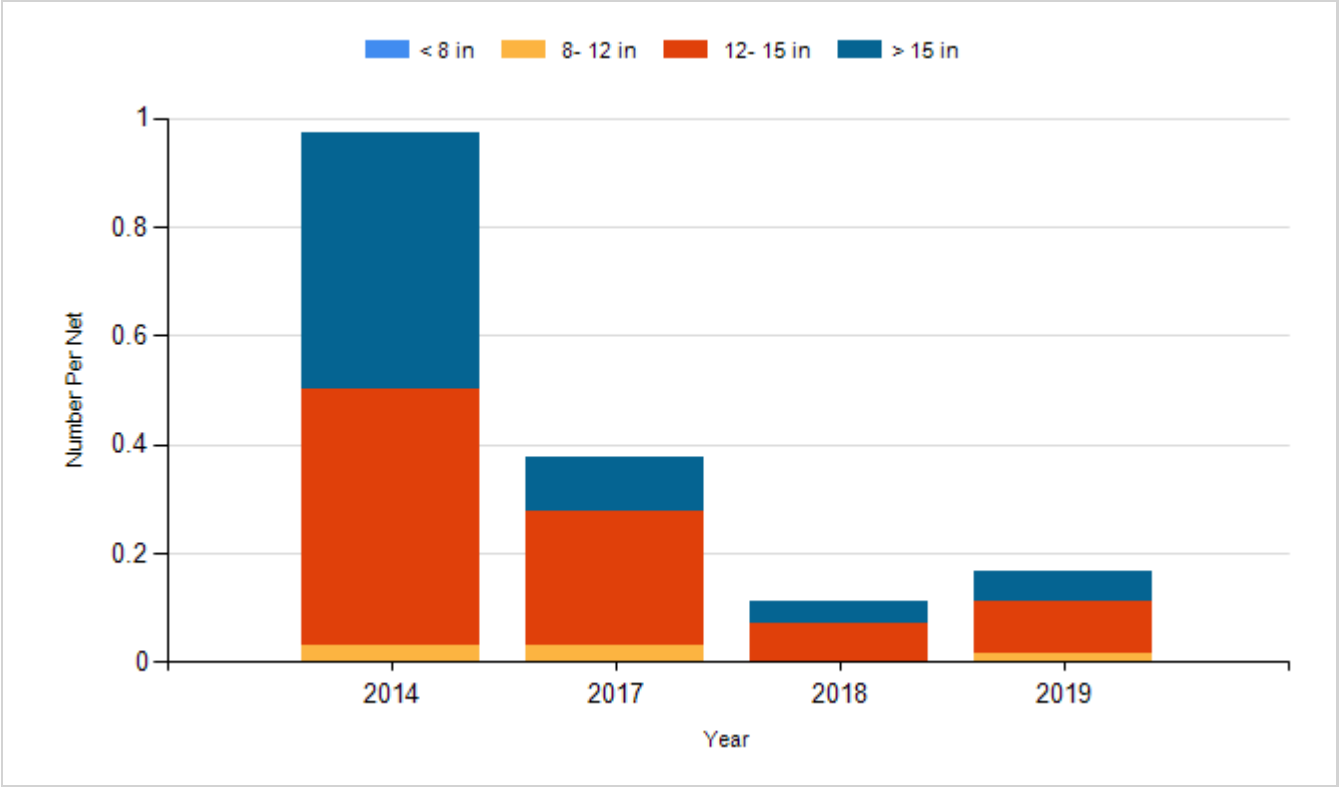
Species: Channel Catfish
Gear: AFS std gill net



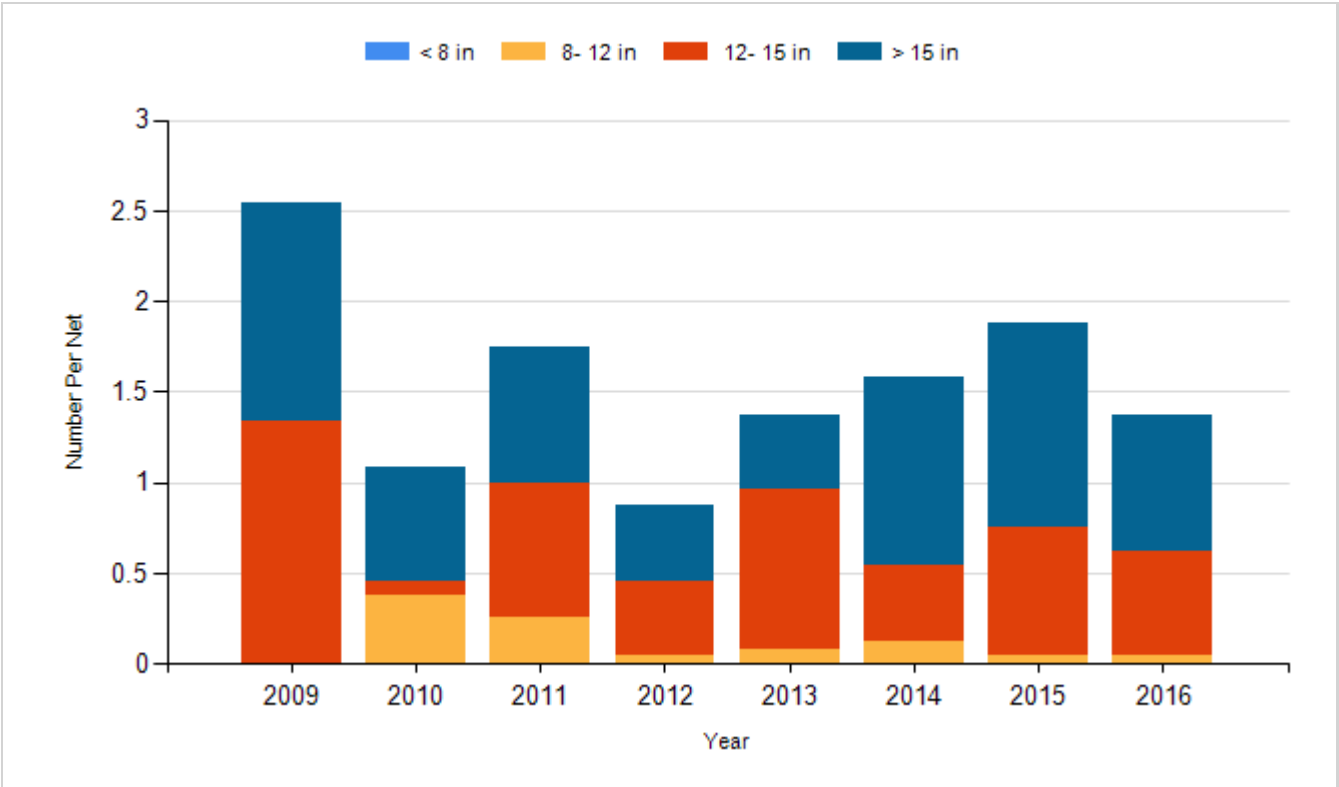
Species: Channel Catfish
Gear: std exp gill net



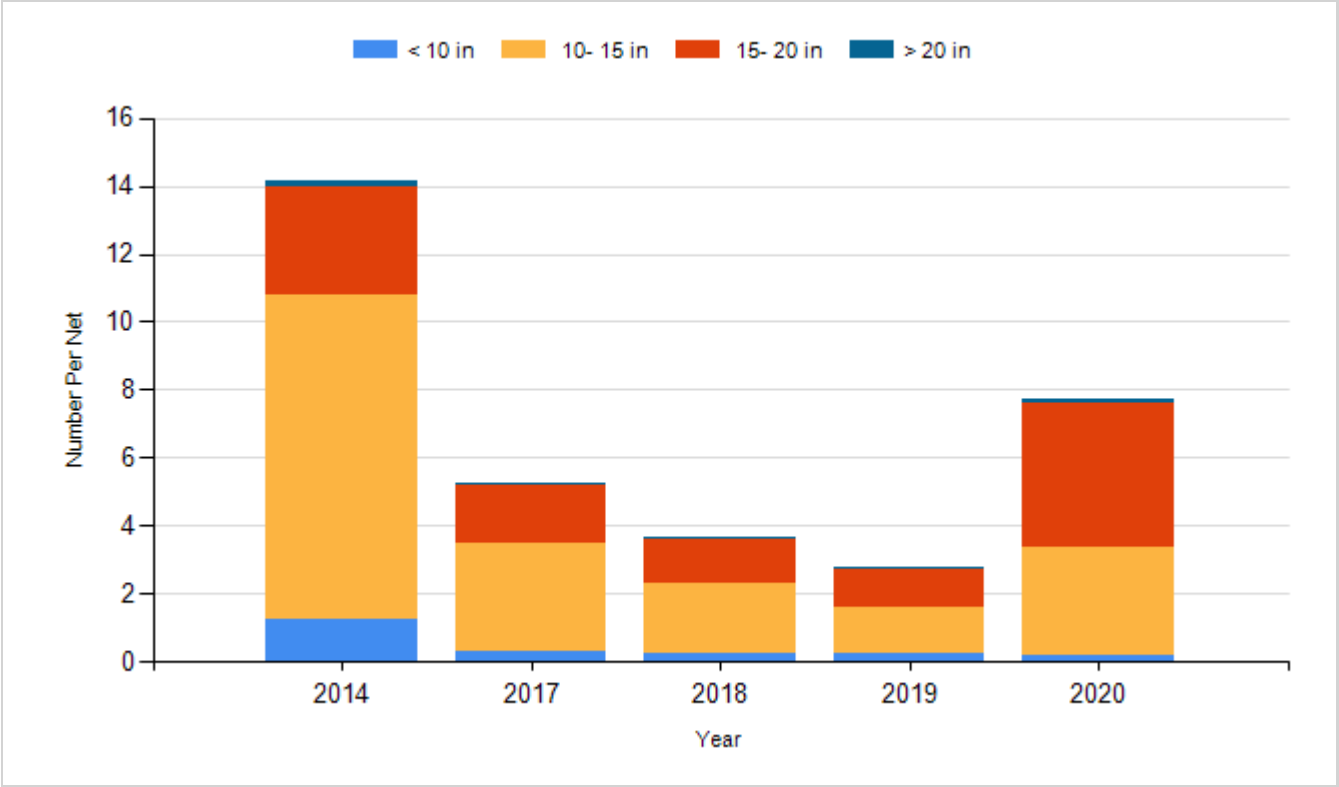
Species: Sauger
Gear: AFS std gill net



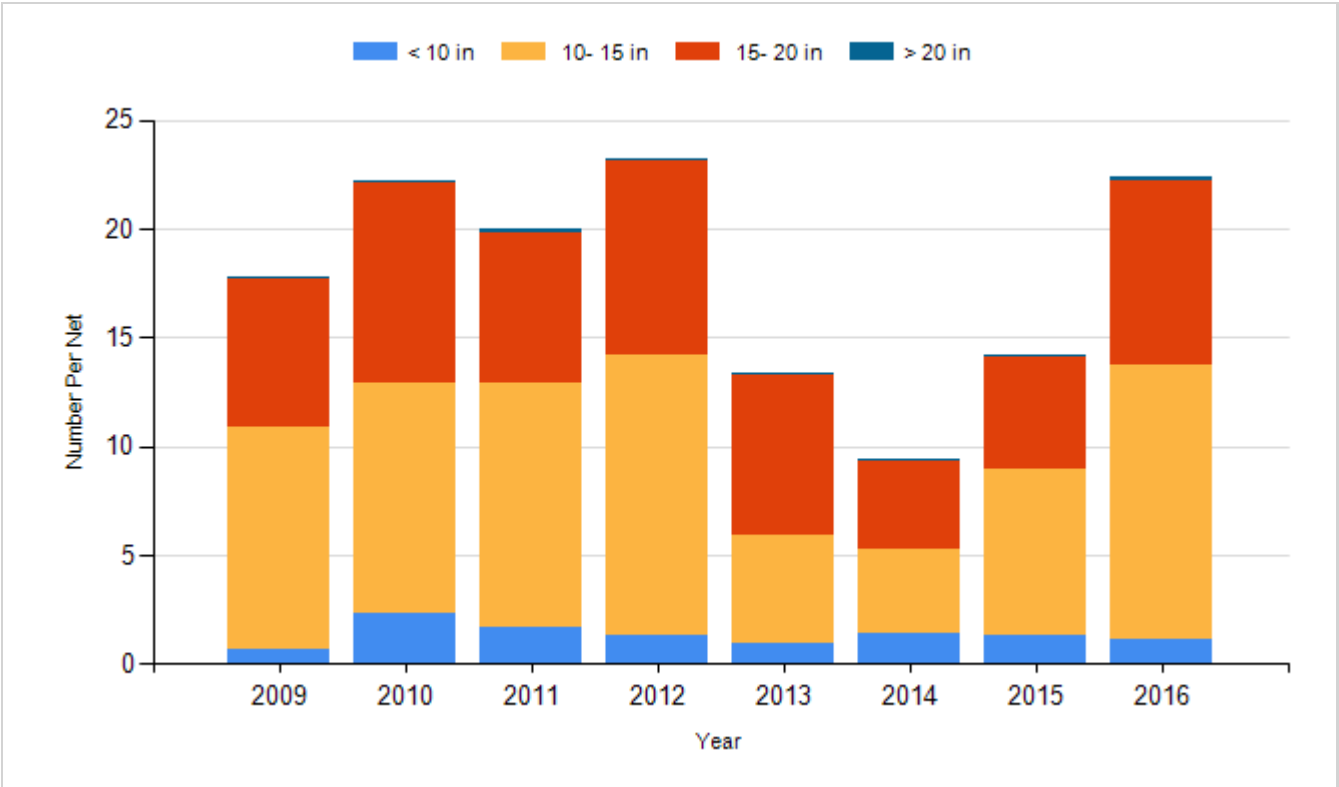
Species: Sauger
Gear: std exp gill net



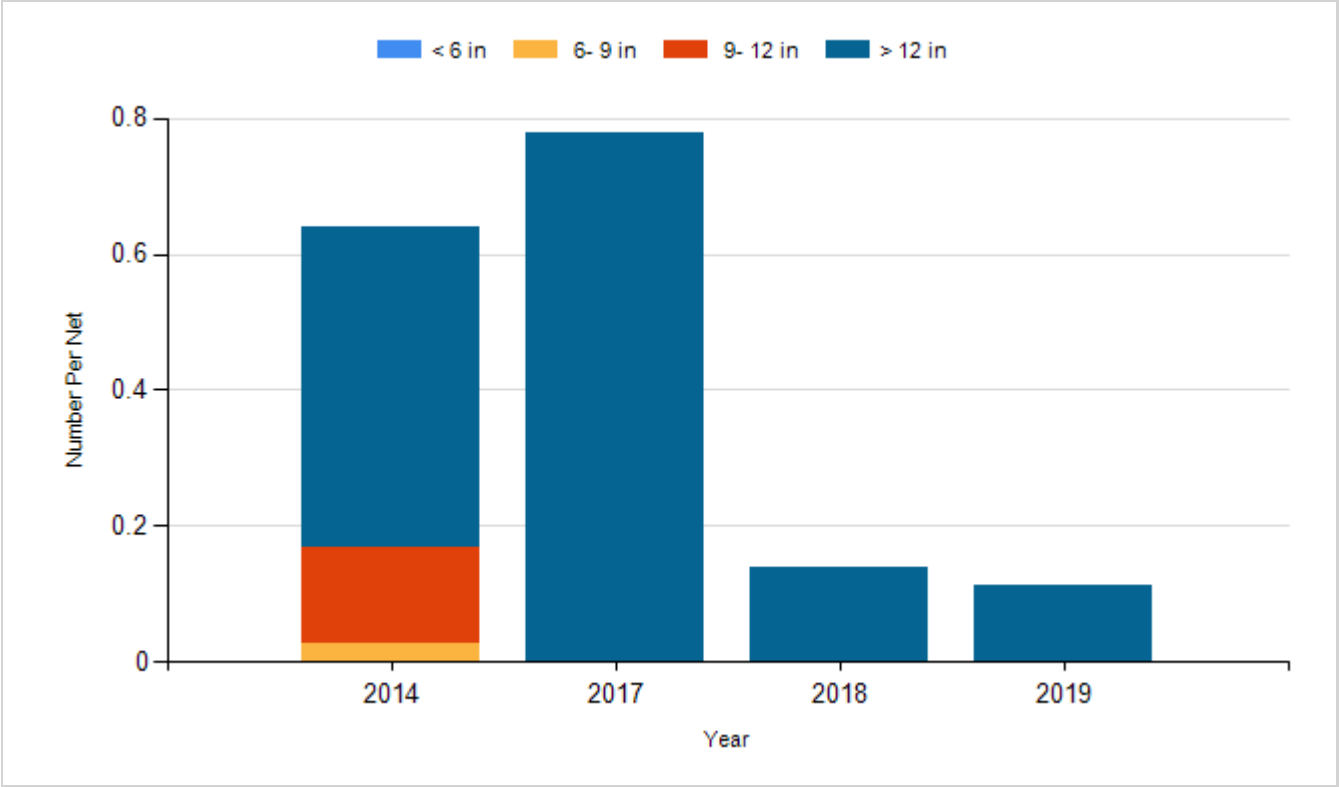
Species: Walleye
Gear: AFS std gill net



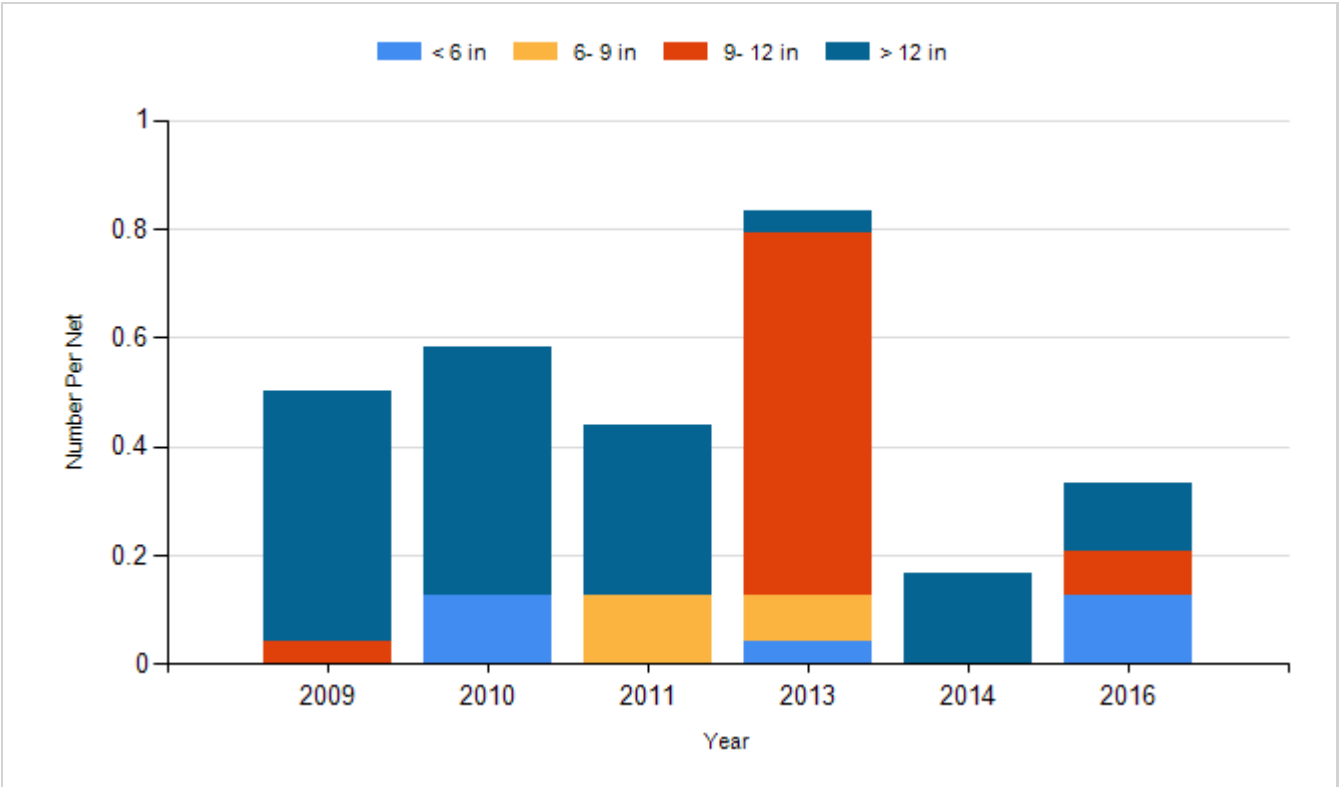
Species: Walleye
Gear: std exp gill net



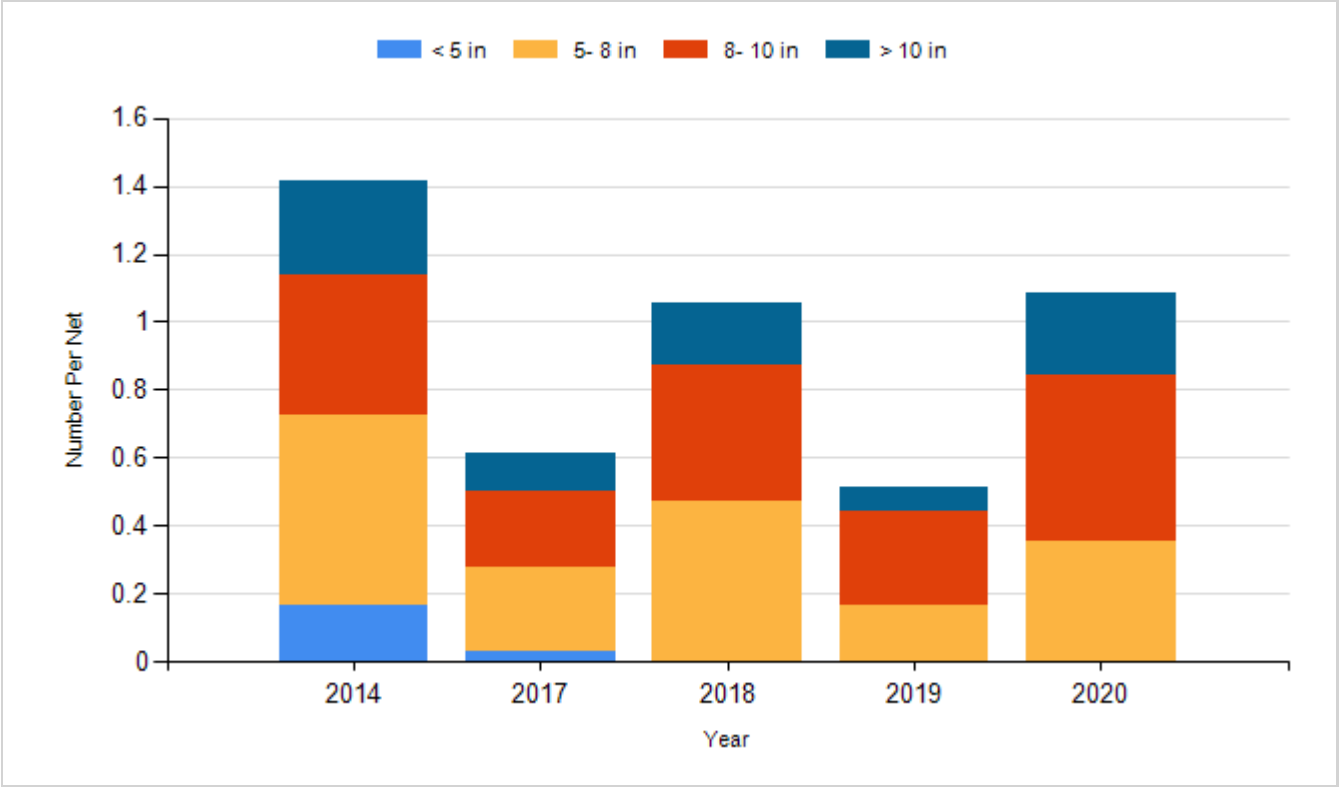
Species: White Bass
Gear: AFS std gill net



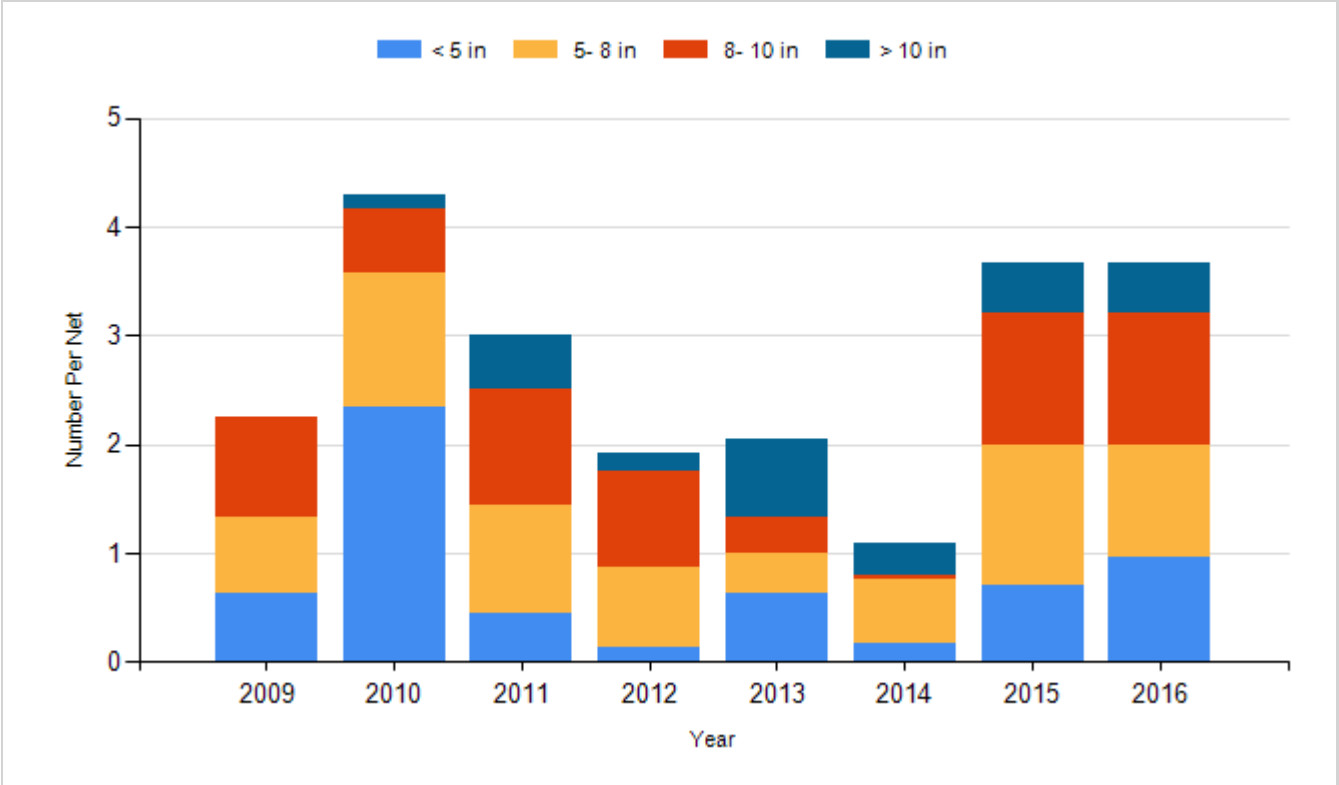
Species: White Bass
Gear: std exp gill net



Species: 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	Rainbow Trout (McConaugRainbow Trout	Catchable	20,000
2010	Rainbow Trout (Erwin)	Catchable 15"	20
2010	Rainbow Trout (McConaugRainbow Trout	Catchable	20,000
2010	Rainbow Trout (Shasta)	Catchable	300
2011	Rainbow Trout (Erwin x Arlee)	Catchable	3,750
2011	Rainbow Trout (McConaugRainbow Trout	Catchable	16,250
2012	Rainbow Trout (McConaugRainbow Trout	Catchable 11"	10,000
2012	Rainbow Trout (Shasta)	Catchable 11"	10,000
2013	Rainbow Trout (Erwin x Arlee)	Catchable 11"	2,980
2013	Rainbow Trout (Shasta)	Catchable 11"	20,000
2014	Rainbow Trout (Shasta)	Catchable 11"	9,600
2015	Paddlefish	Adult	13
2015	Paddlefish	Large Fingerling	5,619
2015	Paddlefish	Small Fingerling	7,500
2015	Rainbow Trout (Ennis)	Catchable 11"	451
2015	Rainbow Trout (Shasta)	Catchable 11"	9,855
2016	Paddlefish	Adult	10
2016	Paddlefish	Fry	50,372
2016	Rainbow Trout (Shasta)	Catchable 11"	7,496
2017	Paddlefish	Large Fingerling	10,000
2017	Rainbow Trout (Shasta)	Catchable	5,438
2017	Rainbow Trout (Shasta)	Catchable 15"	2,720
2018	Paddlefish	Large Fingerling	5,178
2018	Rainbow Trout (Shasta)	Catchable	1,200
2019	Paddlefish	Large Fingerling	10,066
2020	Paddlefish	Large Fingerling	18,210