

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, and Purple Loosestrife. 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 all year except during July and August when there is no minimum size regulation. Also, only one walleye 20 inches or greater may be kept per person. Please see 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.

Lake Sharpe was sampled by three different methods. Shoreline seining - to index prey near shore, AFS standard gill nets - to index adult fish, and small mesh gill nets - to index small fish off shore. The most abundant species collected by shoreline seining was Gizzard Shad and abundance was more than double the average at 1,312 fish per pull for 2018. Gizzard Shad are the primary forage for Lake Sharpe. Other species collected by seining was similar to the past and included Yellow Perch, Emerald Shiner, Smallmouth Bass, Spottail Shiner, Freshwater Drum and Walleye. Many of these species provide the forage base for Lake Sharpe. Small mesh gill nets collected young Walleye, Yellow Perch, Spottail Shiner, Gizzard Shad, and Channel Catfish. Abundance of these young fish was similar to the past and provides an indication of the future of the fishery.

The adult fish population looks healthy on Lake Sharpe indicated by the gill net abundance index. Channel Catfish (4.2 fish/net), Walleye (3.4 fish/net), Yellow Perch (1.1 fish/net), Smallmouth Bass (1.0 fish/net), Common Carp (0.6 fish/net), and Freshwater Drum (0.4 fish/net) were the most abundant in net catches. Walleye size ranged from 7.5 to 22 inches and the average size was 14 inches. Approximately 40% of the Walleye population was larger than 15 inches of the ones greater than 10 inches. The fatness or condition of Walleye in Lake Sharpe averaged a condition factor 82 which is normal. The Walleye population in Lake Sharpe is maintained solely by natural reproduction and provides a great fishery. Walleye typically reach 15 inches during their fourth or fifth growing season and continues to be at that range. Walleye will continue to thrive within Lake Sharpe and will provide great recreation into the future.

A Walleye tagging project for 2017-2021 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 tags.sd.gov to help biologists improve the Walleye fishery on Lake Sharpe. Please report fish that were kept and released.

Channel Catfish are abundant in Lake Sharpe and are often overlooked. The average size Channel Catfish collected in 2018 was 19 inches and 2.5 pounds. Catfish can be found throughout the lake and are great fun to catch. Smallmouth Bass numbers are stable and provide additional sport for anglers. The average Smallmouth Bass collected in 2018 was 14 inches 1.5 pounds. Smallmouth Bass in Lake Sharpe can be greater than 20 inches.

For more information, please contact South Dakota Game, Fish and Parks Ft. Pierre office – (605) 223-7700.

Prepared 01-23-2019 by KDP

SOUTH DAKOTA STATEWIDE FISHERIES SURVEY

Sharpe, Hughes County

FTR-Lake-6327-001

2018

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 07, 2018	20 net-nights
AFS gill net (1/2 inch)	Aug 08, 2018	20 net-nights
AFS gill net (1/2 inch)	Aug 09, 2018	20 net-nights
AFS gill net (1/2 inch)	Aug 10, 2018	12 net-nights
AFS std gill net	Aug 07, 2018	20 net-nights
AFS std gill net	Aug 08, 2018	20 net-nights
AFS std gill net	Aug 09, 2018	20 net-nights
AFS std gill net	Aug 10, 2018	12 net-nights
large seine	Jul 23, 2018	8 hauls
large seine	Jul 24, 2018	8 hauls

Common Fish Species Present

Channel Catfish

Walleye

Yellow Perch

Smallmouth Bass

Common Carp

Freshwater Drum

Gizzard Shad

Spottail Shiner

Shorthead Redhorse

Flathead Catfish

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.

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

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).

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	6	15	9	23	12	30	15	38	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	Abundance		Stock Density Indices			Condition		
		CPUE	CI-80	PSD	CI-80	PSD-P	CI-80	Wr	CI-80
AFS gill net (1/2 inch)*	Black Crappie	0.0	0.0	0		0			
	Gizzard Shad	0.1	0.1	0					
	Spottail Shiner	0.3	0.2						
	Walleye	0.4	0.2	29		0		97	4
	White Bass	0.0	0.0	0		0			
	Yellow Perch	0.3	0.2	17		0		80	3
AFS std gill net	Bigmouth Buffalo	0.0	0.0	100		100		81	
	Channel Catfish	4.2	0.5	68	4	21	3	90	2
	Common Carp	0.6	0.1	100		34	11	85	2
	Flathead Catfish	0.1	0.0	75		0		86	8
	Freshwater Drum	0.4	0.1	100		100		86	2
	Gizzard Shad	0.3	0.2	96				99	2
	Goldeye	0.0	0.0						
	Lake Herring	0.0	0.0	100		0		69	
	River Carpsucker	0.0	0.0	100		100		92	4
	Sauger	0.1	0.1	100		38		70	4
	Shorthead Redhorse	0.2	0.1	94		81		98	3
	Shortnose Gar	0.0	0.0						
	Shovelnose Sturgeon	0.0	0.0						
	Smallmouth Bass	1.0	0.5	90	6	49	9	100	2
	Smallmouth Buffalo	0.0	0.0	100		100		75	8
	Walleye	3.4	0.5	40	4	1		80	1
	White Bass	0.1	0.1	100		100		100	3
	Yellow Perch	1.1	0.3	55	8	17	6	86	1
large seine*	Walleye	2.7	1.2						

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 gill net (1/2 inch)	Black Crappie										0.0	0.0
	Channel Catfish									0.1		0.1
	Common Carp									0.0		0.0
	Freshwater Drum									0.0		0.0
	Gizzard Shad									0.0	0.1	0.1
	Rainbow Smelt									0.0		0.0
	Smallmouth Bass									0.0		0.0
	Spottail Shiner									0.2	0.3	0.3
	Walleye									0.3	0.4	0.4
	White Bass										0.0	0.0
Yellow Perch									0.2	0.3	0.3	
AFS std gill net	Bigmouth Buffalo									0.0	0.0	0.0
	Black Crappie						0.0					0.0
	Channel Catfish						2.3			4.9	4.2	3.8
	Common Carp						0.4			0.9	0.6	0.6
	Flathead Catfish						0.0			0.0	0.1	0.0
	Freshwater Drum						0.4			0.6	0.4	0.5
	Gizzard Shad						0.2			0.3	0.3	0.3
	Goldeye						0.0			0.0	0.0	0.0
	Lake Herring									0.0	0.0	0.0
	Northern Pike									0.0		0.0
	Rainbow Trout						0.0					0.0
	River Carpsucker						0.8			0.2	0.0	0.3
	Sauger						1.0			0.4	0.1	0.5
	Shorthead Redhorse						0.6			0.1	0.2	0.3
	Shortnose Gar						0.0				0.0	0.0
	Shovelnose Sturgeon						0.0			0.0	0.0	0.0
	Smallmouth Bass						1.9			0.8	1.0	1.2
	Smallmouth Buffalo						0.3			0.1	0.0	0.1
	Spottail Shiner									0.0		0.0
	Walleye						12.9			5.0	3.4	7.1
White Bass						0.6			0.8	0.1	0.5	
White Sucker						0.0			0.0		0.0	
Yellow Perch						1.3			0.6	1.1	1.0	

std exp gill net	Bigmouth Buffalo							0.2	0.2
	Black Bullhead		0.1	0.1				0.0	0.1
	Black Crappie	0.1	0.1	0.0	0.0		0.1	0.1	0.1
	Burbot					0.0			0.0
	Channel Catfish	5.3	5.0	2.8	6.6	4.4	3.0	4.0	4.8
	Chinook Salmon							0.0	0.0
	Common Carp	1.9	1.7	1.9	1.8	2.5	1.1	2.0	1.5
	Freshwater Drum	0.1	0.2	0.2	0.3	0.1	0.1	0.4	0.5
	Gizzard Shad	0.2	0.2	0.0	0.0	0.0	0.3	0.6	3.6
	Goldeye	0.0	0.0		0.0	0.0	0.0	0.0	0.0
	Lake Herring							0.6	0.6
	Largemouth Bass						0.0		0.0
	Northern Pike		0.0	0.1	0.0	0.0		0.0	0.0
	Rainbow Smelt	0.0							0.0
	Rainbow Trout			0.0		0.0			0.0
	River Carpsucker	0.5	1.1	0.6	0.3	0.5	2.0	2.7	0.3
	Sauger	2.5	1.1	1.8	0.9	1.4	1.6	1.9	1.4
	Shorthead Redhorse	0.1	0.0	0.7	0.8	1.3	0.7	1.5	0.3
	Shortnose Gar		0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Shovelnose Sturgeon	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Smallmouth Bass	0.4	1.3	0.3	0.2	1.1	0.6	0.7	1.6
	Smallmouth Buffalo	0.0	0.0			0.0	0.1	0.0	0.0
	Spottail Shiner		0.0	0.0				0.0	0.0
	Walleye	17.2	19.9	18.4	21.9	12.5	8.0	12.9	21.3
	White Bass	0.5	0.5	0.4	0.0	0.8	0.2	0.0	0.2
	White Crappie		0.1	0.1	0.0			0.8	0.3
	White Sucker	0.0	0.0	0.3		0.1		0.0	0.1
	Yellow Perch	1.6	1.9	2.6	1.8	1.4	0.9	3.0	2.7

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 gill net (1/2 inch)	Black Crappie	PSD												0
		PSD-P												0
	Channel Catfish	PSD											20	
		PSD-P											0	
		Wr											93	
	Common Carp	PSD											100	
		PSD-P											0	
		Wr											93	
	Gizzard Shad	PSD											0	0
		Wr											150	
	Smallmouth Bass	PSD											0	
		PSD-P											0	
		Wr											89	
	Walleye	PSD											0	29
		PSD-P											0	0
		Wr											91	97
	White Bass	PSD												0
		PSD-P												0
	Yellow Perch	PSD											17	17
		PSD-P											0	0
Wr												85	80	
AFS std gill net	Bigmouth Buffalo	PSD											100	100
		PSD-P											100	100
		Wr											88	81
	Black Crappie	PSD								0				
		PSD-P								0				
	Channel Catfish	PSD								86			68	68
		PSD-P								39			18	21
		Wr											85	90
	Common Carp	PSD								100			97	100
		PSD-P								60			24	34
		Wr											80	85

Flathead Catfish	PSD	100	100	75
	PSD-P	0	0	0
	Wr		70	86
Gizzard Shad	PSD	100	100	96
	Wr		97	99
Lake Herring	PSD		100	100
	PSD-P		100	0
	Wr		104	69
Northern Pike	PSD		50	
	PSD-P		0	
	Wr		162	
Rainbow Trout	PSD	0		
	PSD-P	0		
River Carpsucker	PSD	96	94	100
	PSD-P	96	50	100
	Wr		98	92
Sauger	PSD	97	93	100
	PSD-P	49	26	38
	Wr		72	70
Shorthead Redhorse	PSD	100	100	94
	PSD-P	81	100	81
	Wr		102	98
Smallmouth Bass	PSD	68	70	90
	PSD-P	26	32	49
	Wr		99	100
Smallmouth Buffalo	PSD	100	100	100
	PSD-P	82	100	100
	Wr		77	75
Walleye	PSD	26	35	40
	PSD-P	2	1	1
	Wr		77	80
White Bass	PSD	96	100	100
	PSD-P	74	100	100
	Wr		93	100
White Sucker	PSD	100	100	
	PSD-P	0	100	
	Wr		88	
Yellow Perch	PSD	56	57	55
	PSD-P	22	19	17
	Wr		87	86

std exp gill net	Bigmouth Buffalo	PSD							100	
		PSD-P							75	
		Wr							79	
	Black Bullhead	PSD		100	100				100	
		PSD-P		0	0				0	
		Wr		99	93				78	
	Black Crappie	PSD	0	100	100	100		0	0	
		PSD-P	0	50	100	100		0	0	
		Wr	95	100	104	84		104	102	
	Channel Catfish	PSD	79	74	82	53	53	77	68	44
		PSD-P	1	1	2	5	4	15	13	9
		Wr	93	88	89	90	86	86	89	85
	Common Carp	PSD	98	97	100	95	97	100	100	89
		PSD-P	2	10	13	27	20	22	31	26
		Wr	82	81	81	84	86	84	82	87
	Gizzard Shad	PSD	100	100	0	100	0	100	14	36
		Wr	92	107		91		102	95	94
	Lake Herring	PSD								100
		PSD-P								14
		Wr								86
	Largemouth Bass	PSD								100
		PSD-P								100
		Wr								91
	Northern Pike	PSD		100	100	0	100		100	100
		PSD-P		0	0	0	0		0	0
		Wr		88	107	78	88		86	86
	Rainbow Trout	PSD				0		0		
		PSD-P				0		0		
		Wr				104		91		
	River Carpsucker	PSD	82	88	100	100	100	98	100	100
		PSD-P	73	84	56	100	100	92	89	100
		Wr	98	92	92	107	96	100	93	98
	Sauger	PSD	100	65	86	95	94	92	98	97
		PSD-P	48	58	43	48	30	66	60	55
		Wr	70	81	77	79	76	72	76	74
	Shorthead Redhorse	PSD	100	100	91	100	97	100	100	100
		PSD-P	100	100	27	58	91	94	100	63
		Wr	88	116	91	99	97	98	100	185
	Smallmouth Bass	PSD	78	59	80	40	52	79	71	71

	PSD-P	67	24	40	20	19	57	35	47
	Wr	94	103	87	101	107	101	100	101
Smallmouth Buffalo	PSD	100	100			100	67	100	
	PSD-P	100	100			100	33	0	
	Wr	64	58			75	118	77	
Walleye	PSD	40	47	39	41	60	52	41	41
	PSD-P	1	1	1	1	0	1	0	1
	Wr	82	87	83	83	84	85	79	82
White Bass	PSD	100	100	71	100	89	100	100	100
	PSD-P	92	100	71	100	5	100	100	60
	Wr	96	109	86	102	108	104	93	94
White Crappie	PSD		0	0	100				0
	PSD-P		0	0	100				0
	Wr		108	94	118				97
White Sucker	PSD	100	100	100		100		0	
	PSD-P	100	100	0		100		0	
	Wr	91	91	82		101		86	
Yellow Perch	PSD	56	36	61	58	74	36	56	62
	PSD-P	0	6	20	9	50	32	15	17
	Wr	89	86	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+
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)				
2010	26	253 (9)	324 (1)		419 (7)	404 (9)					
2009	61			373 (26)	388 (30)	428 (2)	389 (2)			393 (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	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)
2010	522	261 (172)	348 (99)	394 (106)	411 (63)	416 (60)	414 (3)	447 (8)	434 (1)	459 (2)	498 (7)
2009	427	240 (19)	334 (99)	368 (134)	394 (129)	400 (5)	451 (10)	424 (2)	451 (9)	453 (9)	494 (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).

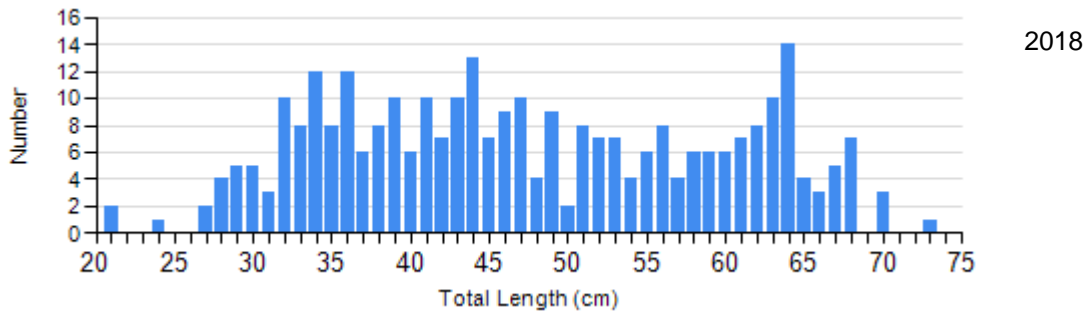
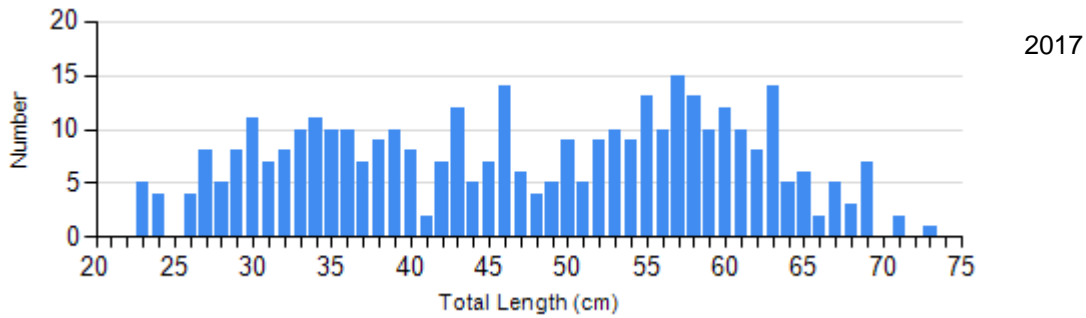
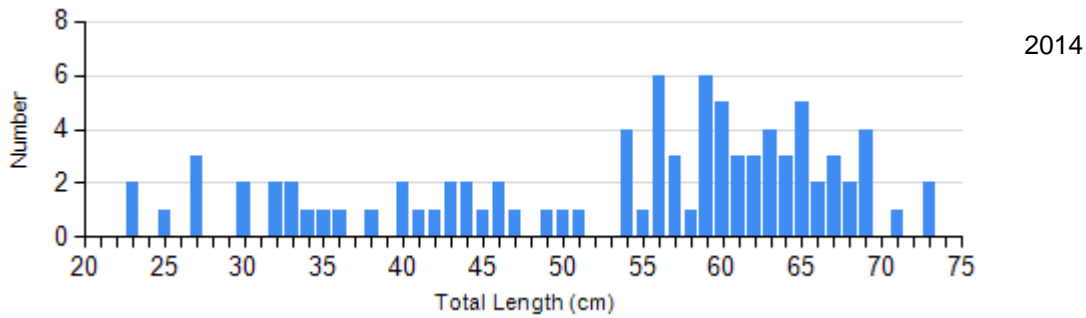
Species	Year	Length Groups							
		S-Q		Q-P		P-M		M	
		N	Wr (SE)	N	Wr (SE)	N	Wr (SE)	N	Wr (SE)
Black Bullhead Gill Net	2016	0		1	78	0		0	
Channel Catfish Gill Net	2014	17	89 (1.9)	45	85 (1.1)	11	85 (2.4)	0	
	2015	31	89 (2.7)	53	89 (1.2)	12	85 (2.0)	0	
	2016	65	88 (1.5)	41	82 (1.6)	9	81 (2.6)	1	75
	2017	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
Common Carp Gill Net	2014	0		21	86 (4.0)	6	76 (6.8)	0	
	2015	0		34	84 (1.7)	14	83 (2.7)	1	18
	2016	4	129 (42.5)	22	81 (3.3)	9	82 (2.3)	0	
	2017	2	99 (1.7)	45	81 (1.1)	15	77 (3.3)	0	
	2018	0		29	85 (2.2)	15	86 (2.0)	0	
Northern Pike Gill Net	2015	0		1	86	0		0	
	2016	0		1	86	0		0	
	2017	1	89	1	235	0		0	
Rainbow Trout Gill Net	2014	1	91	0		0		0	
Sauger Gill Net	2014	3	87 (3.3)	10	79 (2.2)	23	70 (2.0)	2	37 (2.3)
	2015	1	79	17	81 (2.0)	26	73 (1.2)	1	64
	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	
Walleye Gill Net	2014	92	89 (0.8)	97	81 (0.8)	2	85 (15.5)	0	
	2015	182	80 (1.2)	126	79 (0.7)	1	84	0	
	2016	303	84	203	81	5	73	0	

			(0.5)		(0.5)		(1.1)		
	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	
White Bass Gill Net	2018	0		0		6	103 (1.8)	4	94 (3.4)
White Bass Gill Net	2014	0		0		2	102 (7.8)	2	107 (0.8)
	2015	0		0		1	93	0	
	2016	0		2	83 (22.4)	2	103 (6.0)	1	99
	2017	0		0		26	99 (1.1)	30	87 (2.3)
White Sucker Gill Net	2015	1	86	0		0		0	
	2017	0		0		1	90	1	86
Yellow Perch Gill Net	2014	14	96 (2.3)	1	89	6	93 (1.4)	1	35
	2015	31	97 (3.1)	29	96 (1.7)	10	95 (2.4)	1	86
	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	

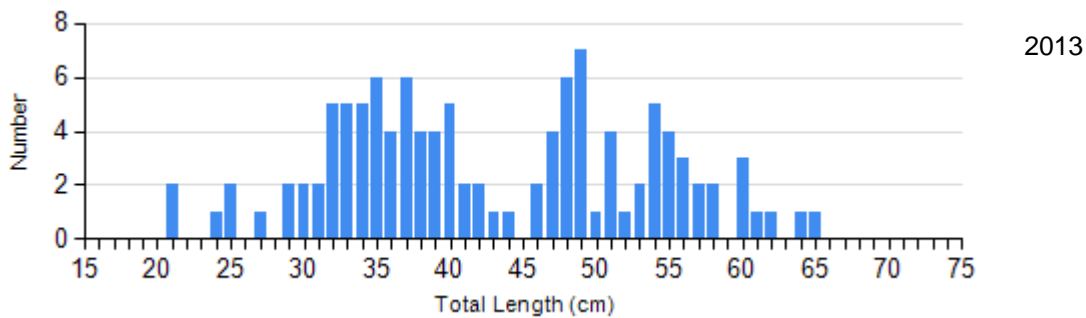
Length Frequency Distribution

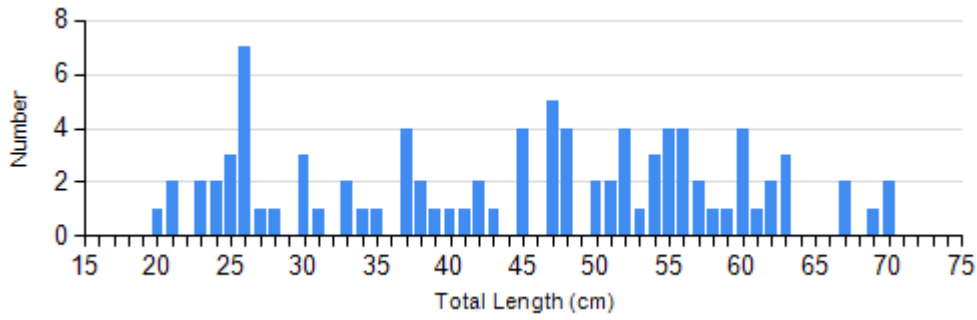
Length frequency histogram of species sampled by year.

Species: Channel Catfish
Gear: AFS std gill net

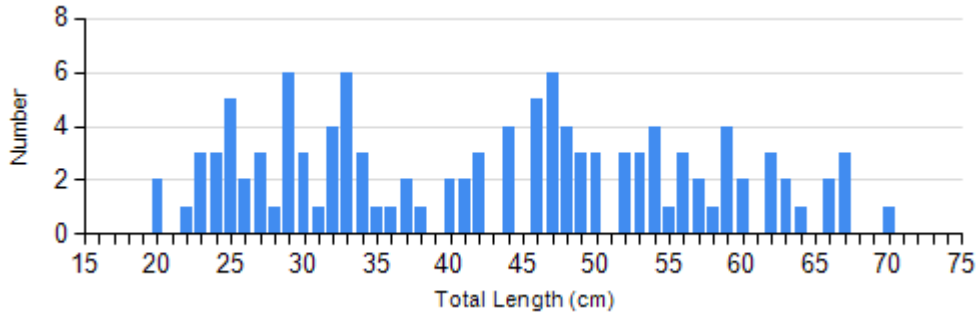


Species: Channel Catfish
Gear: std exp gill net

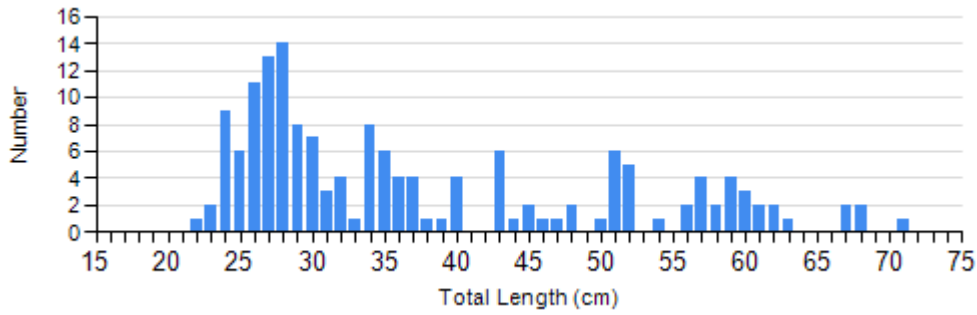




2014

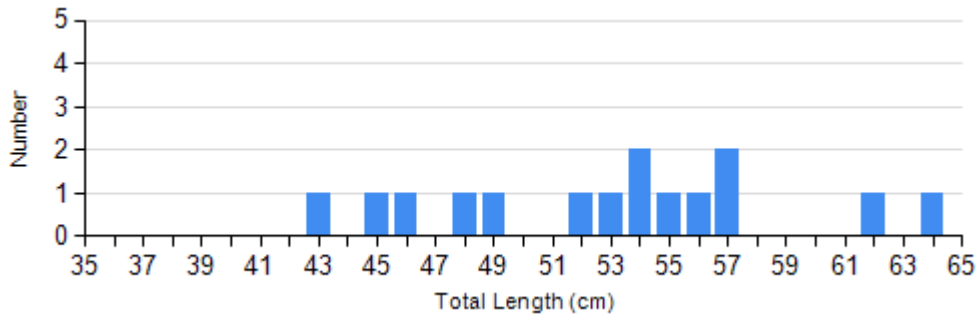


2015

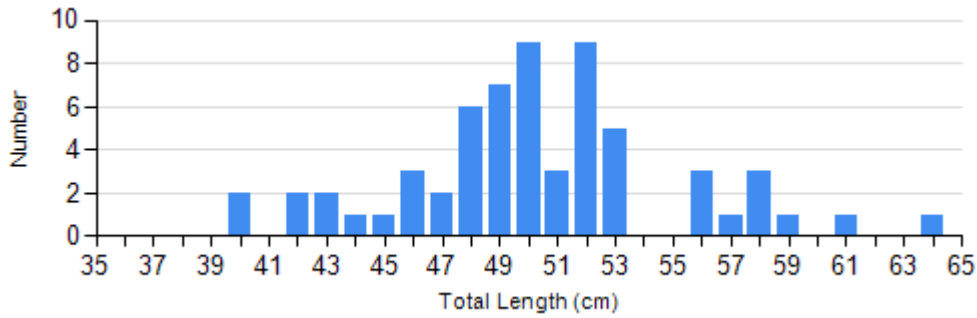


2016

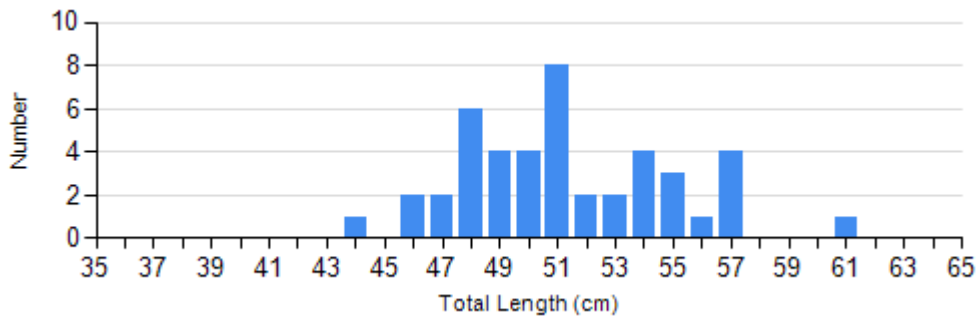
Species: Common Carp
Gear: AFS std gill net



2014

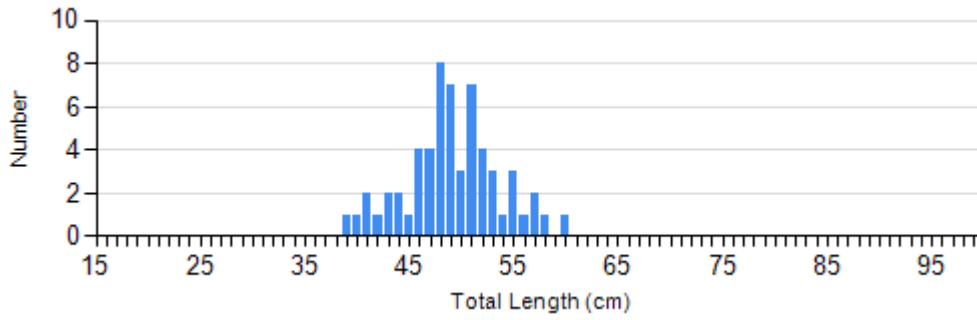


2017

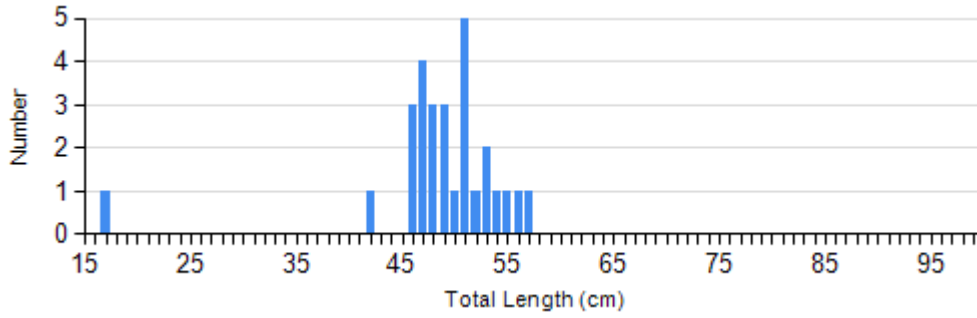


2018

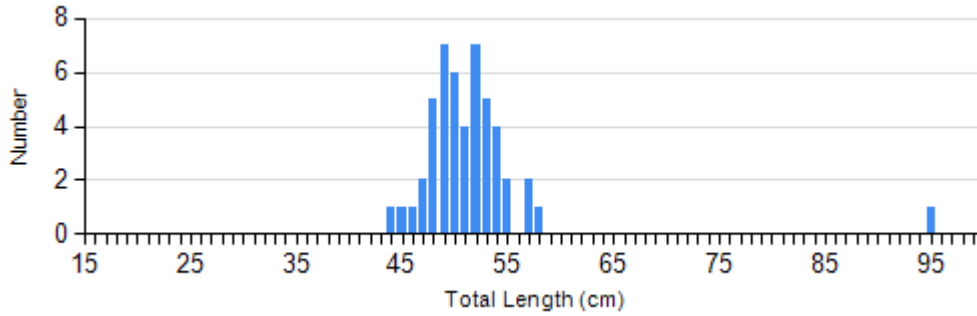
Species: Common Carp
Gear: std exp gill net



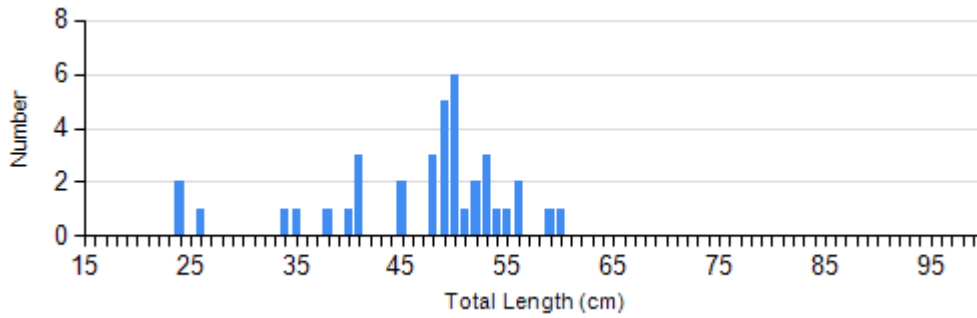
2013



2014

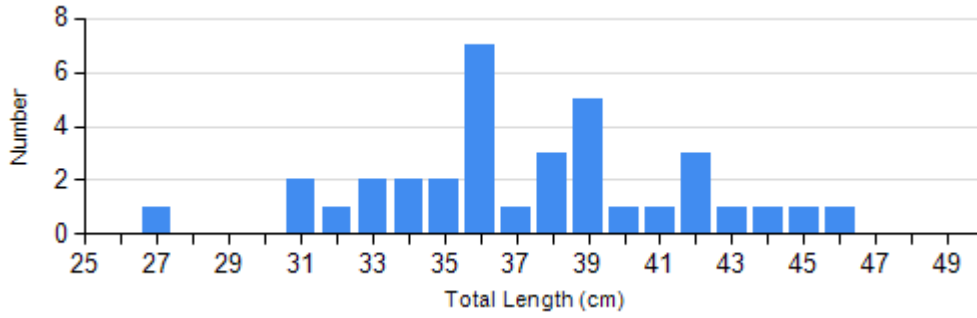


2015

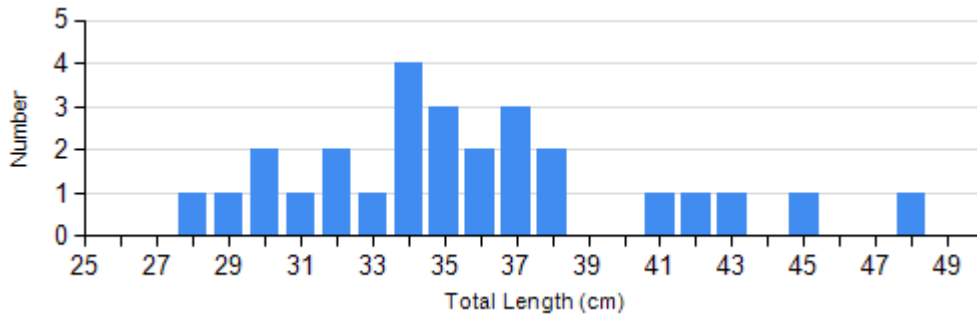


2016

Species: Sauger
 Gear: AFS std gill net

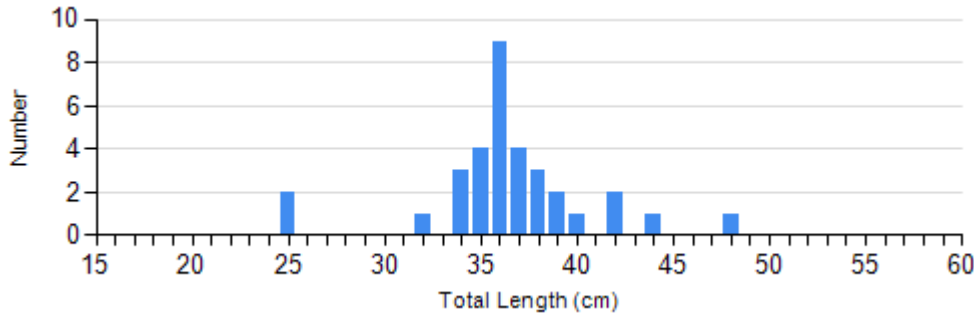


2014

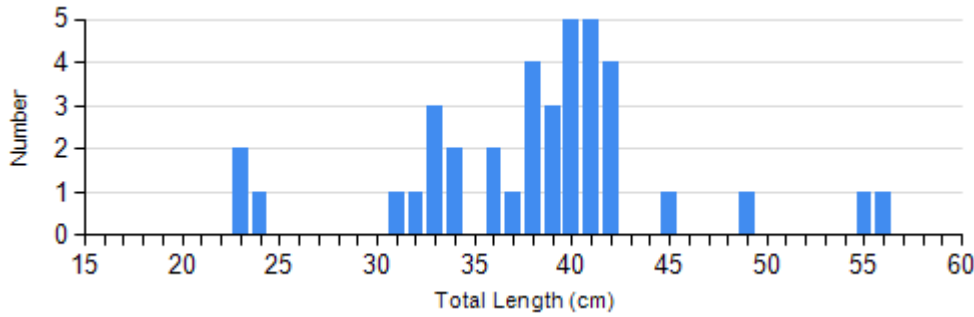


2017

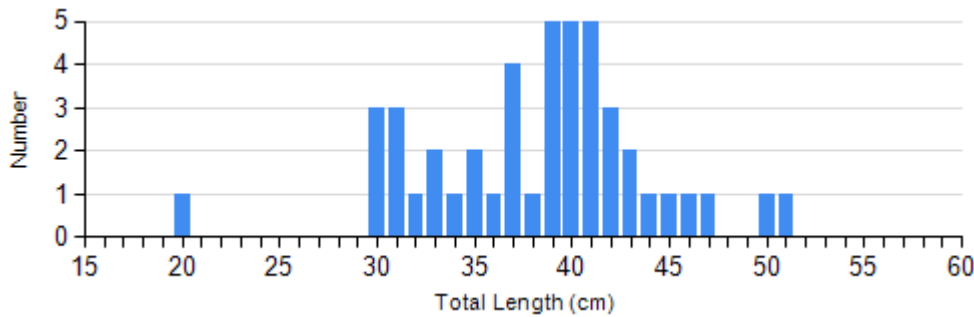
Species: Sauger
 Gear: std exp gill net



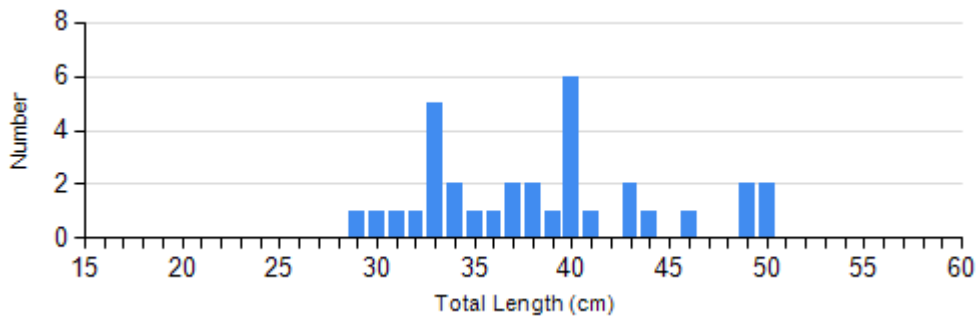
2013



2014

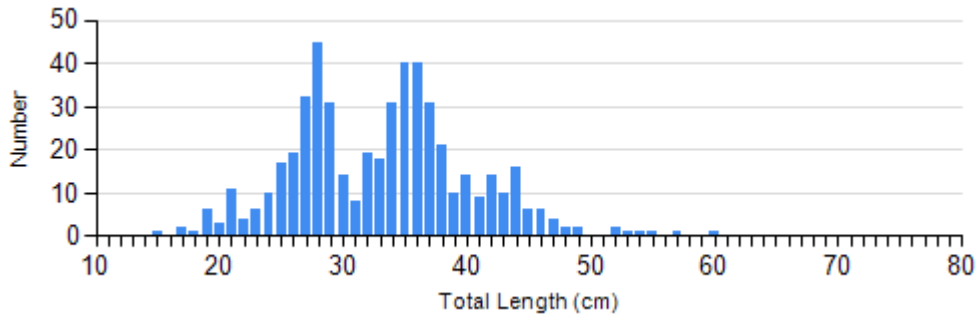


2015

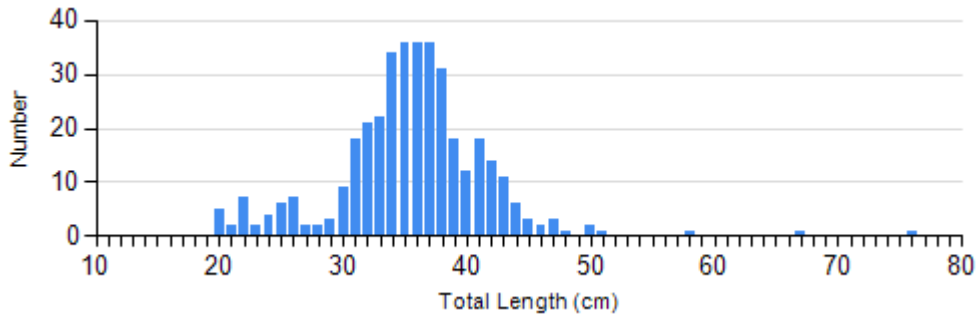


2016

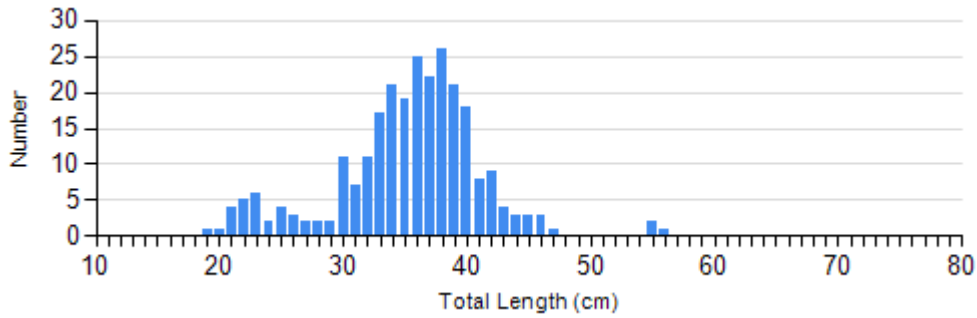
Species: Walleye
Gear: AFS std gill net



2014

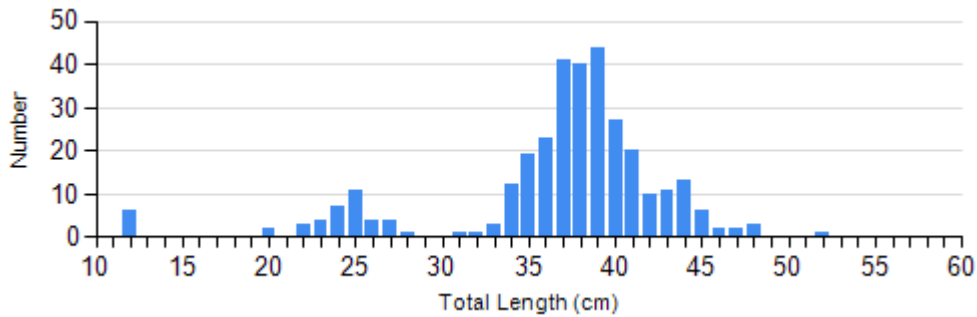


2017

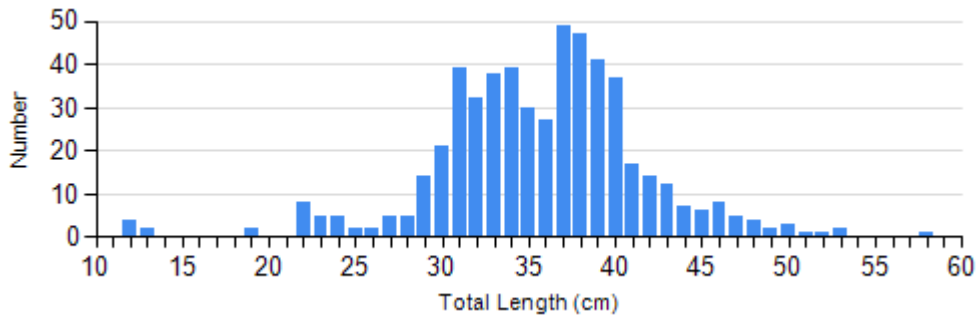
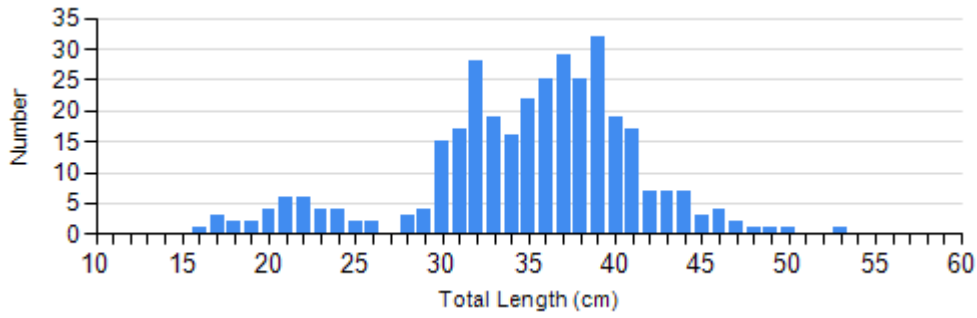
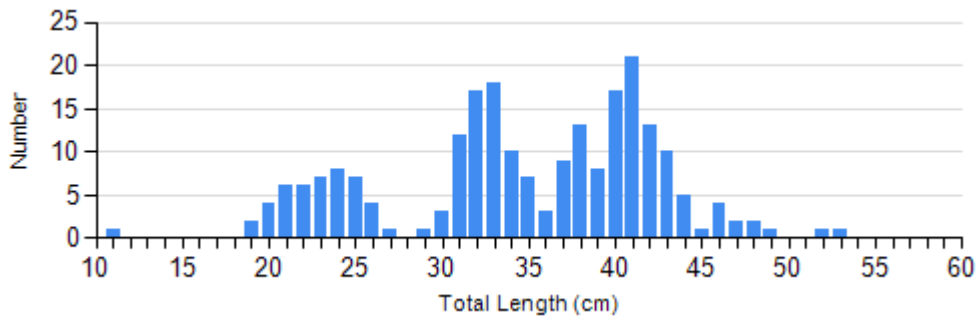


2018

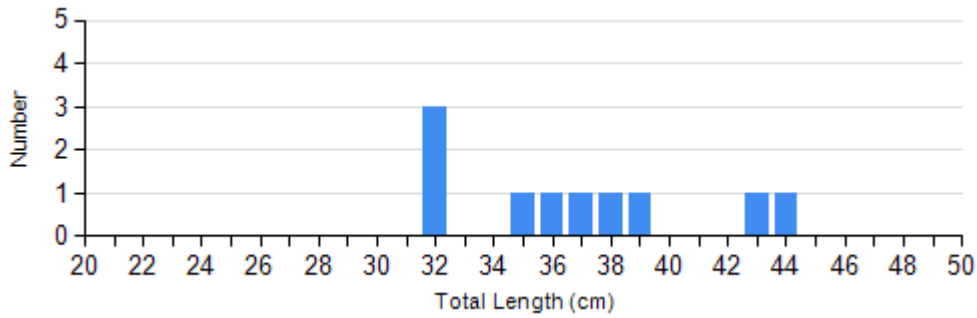
Species: Walleye
Gear: std exp gill net



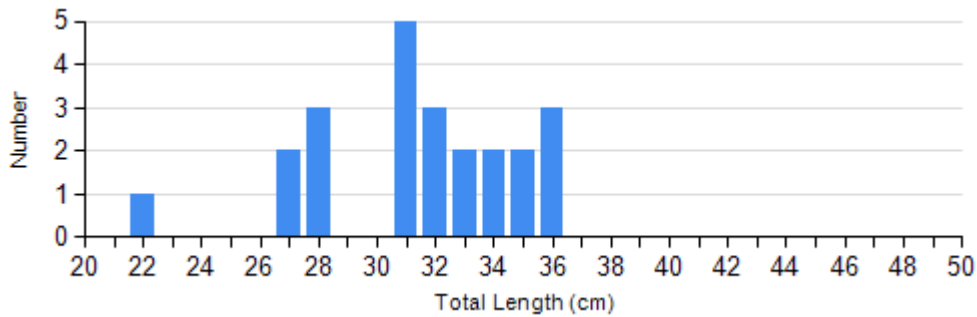
2013

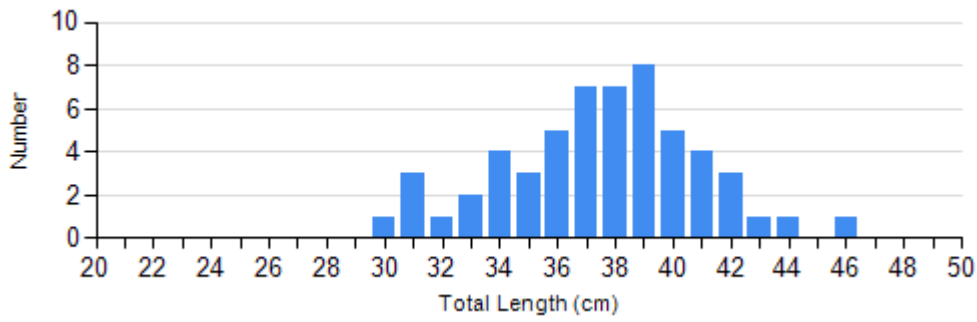


Species: White Bass
Gear: AFS std gill net



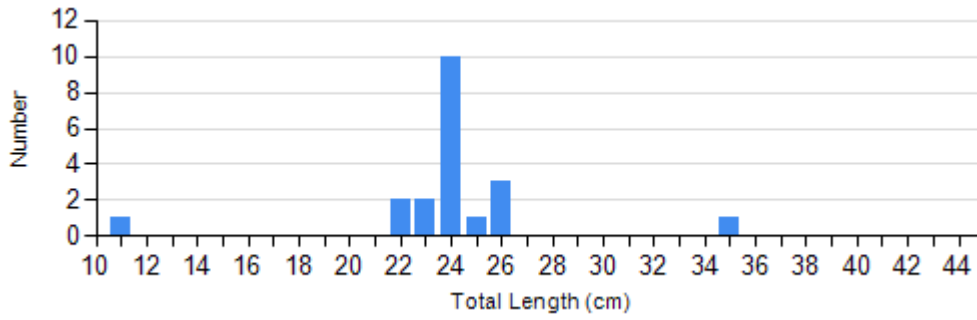
Species: White Bass
Gear: AFS std gill net





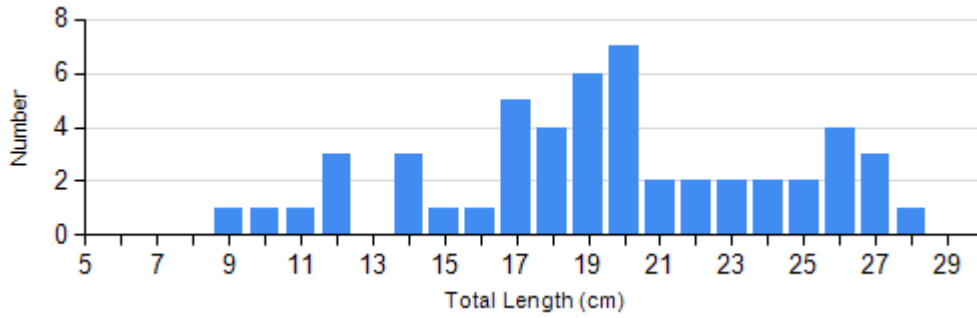
2017

Species: White Bass
Gear: std exp gill net

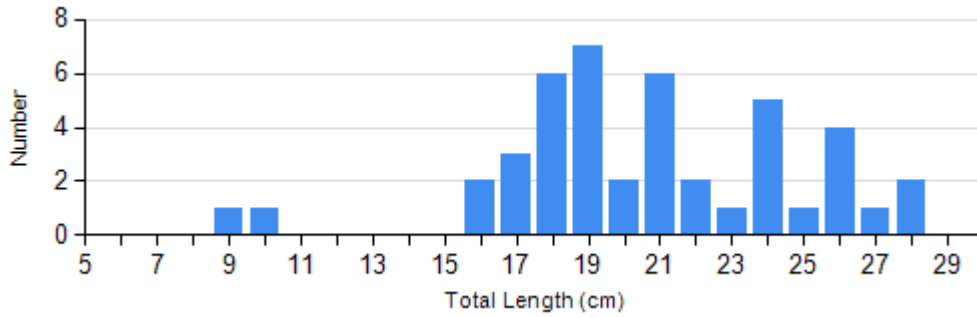


2013

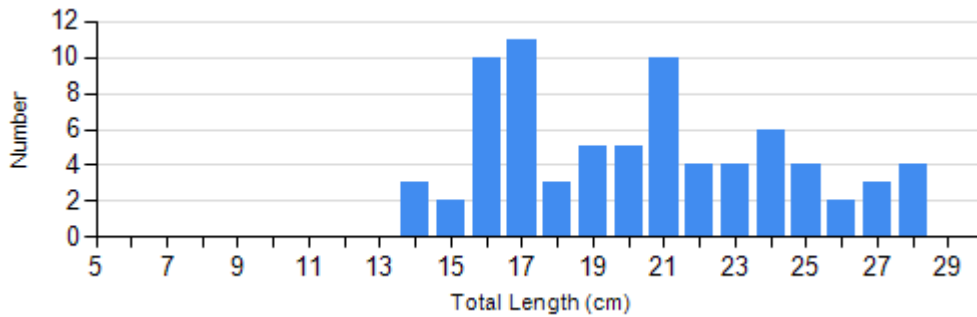
Species: Yellow Perch
Gear: AFS std gill net



2014

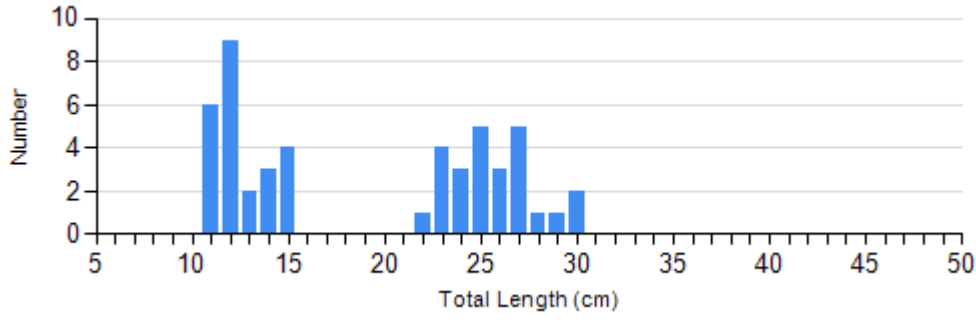


2017

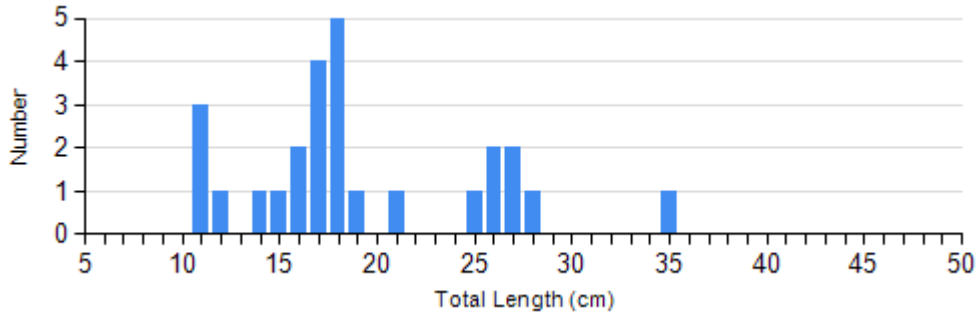


2018

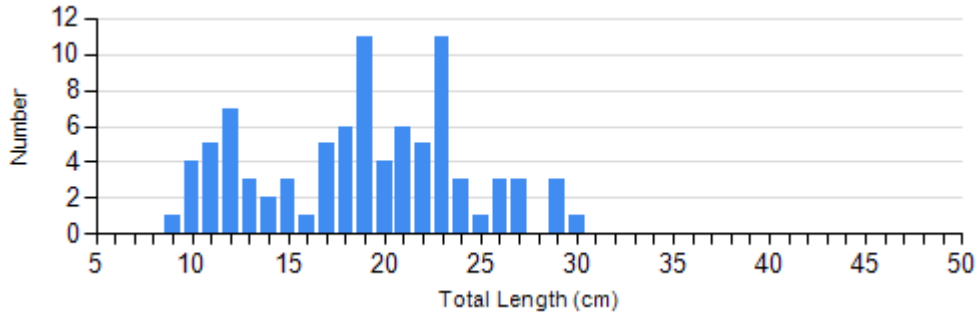
Species: Yellow Perch
Gear: std exp gill net



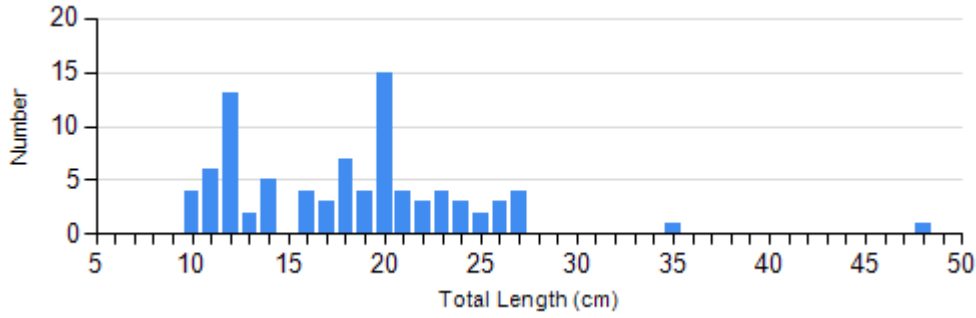
2013



2014



2015

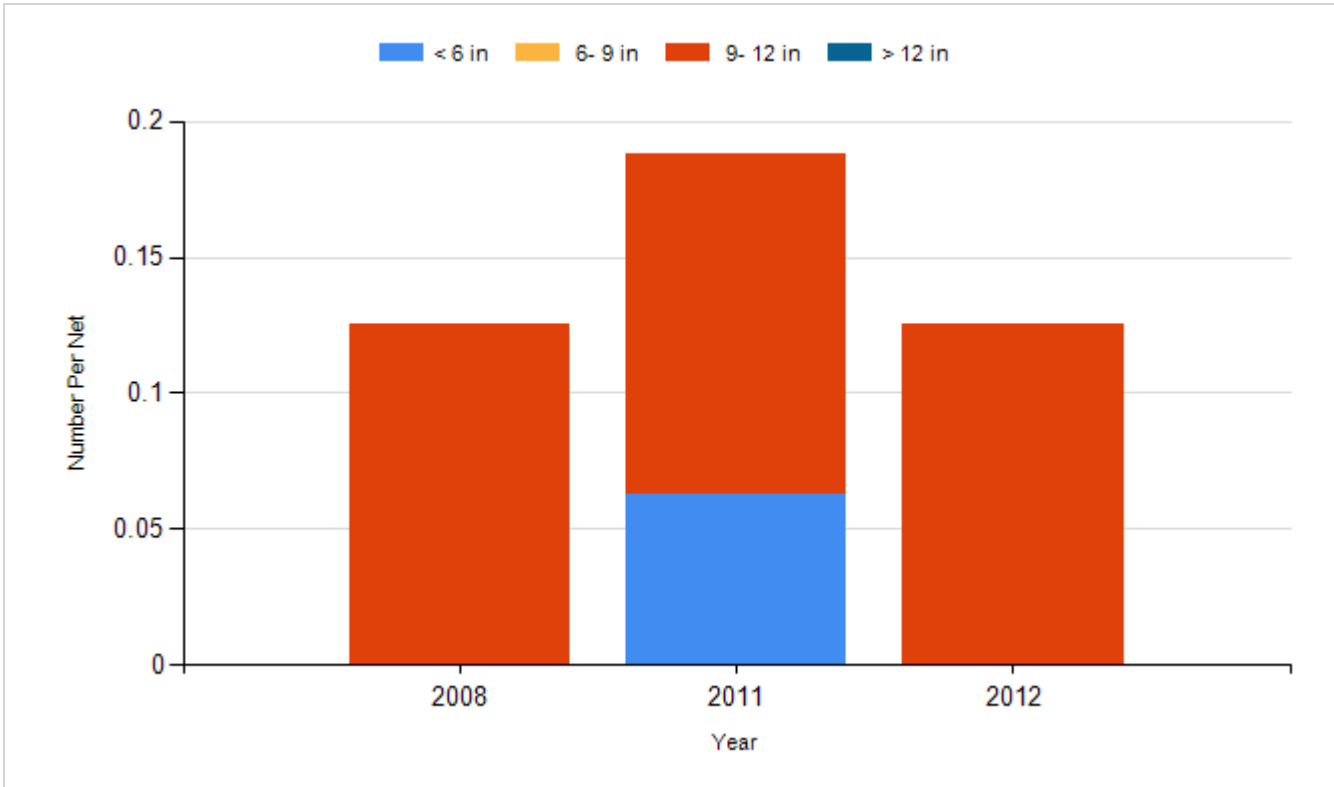


2016

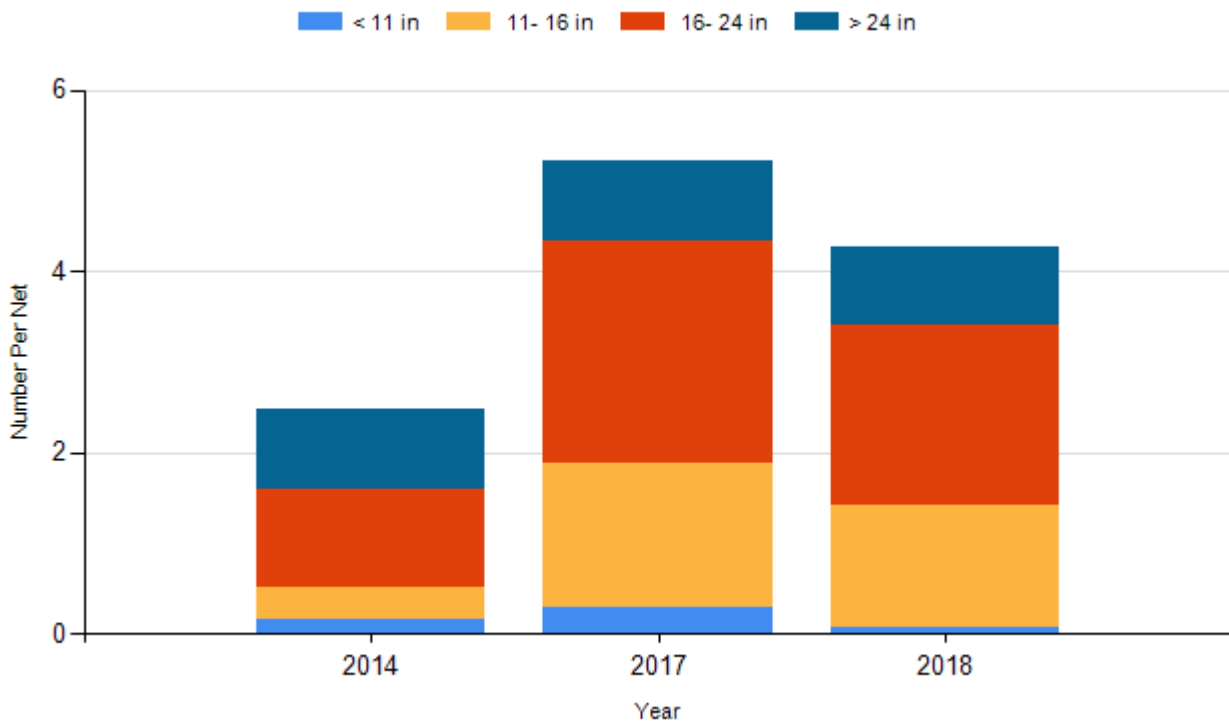
Historic Fish Sizes and Relative Abundance

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

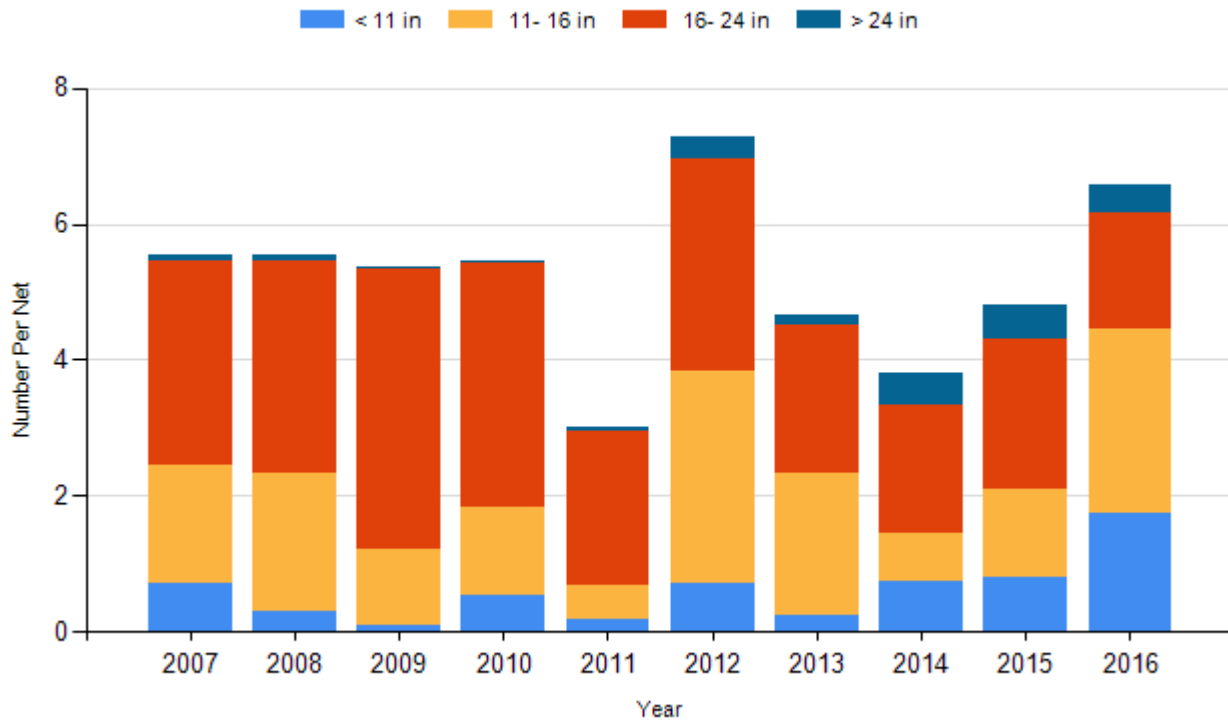
Species: Black Bullhead
Gear: std exp gill net



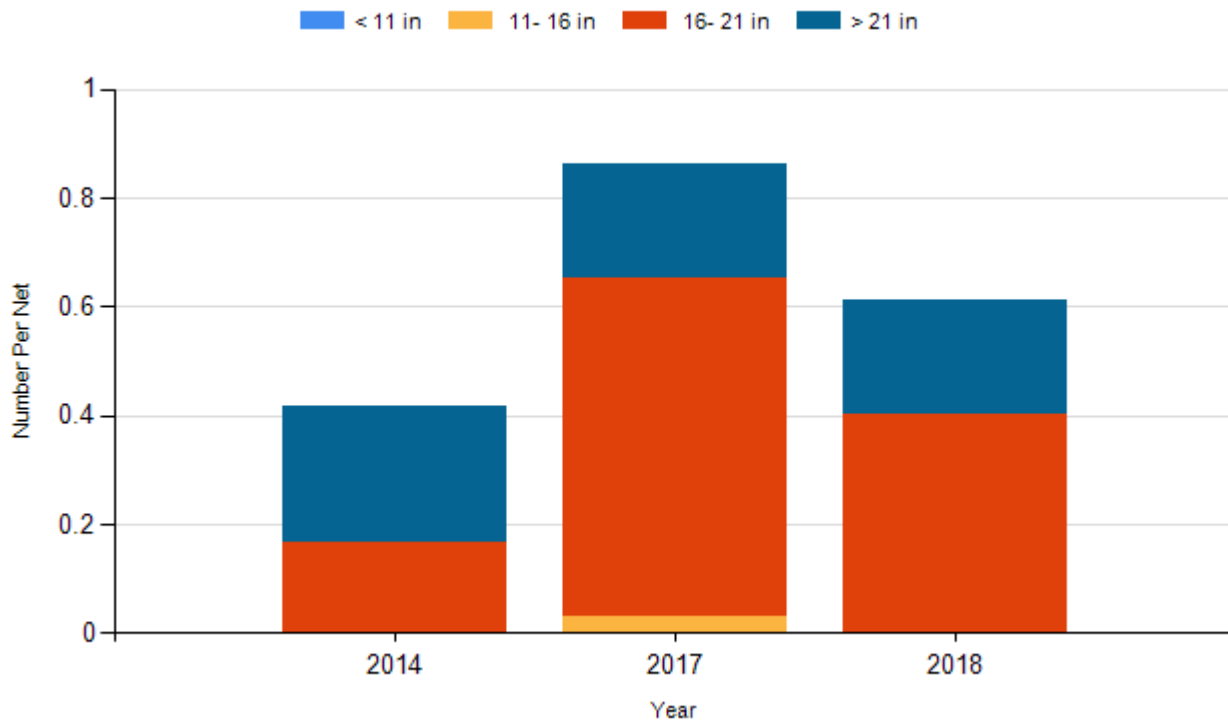
Species: Channel Catfish
Gear: AFS std gill net



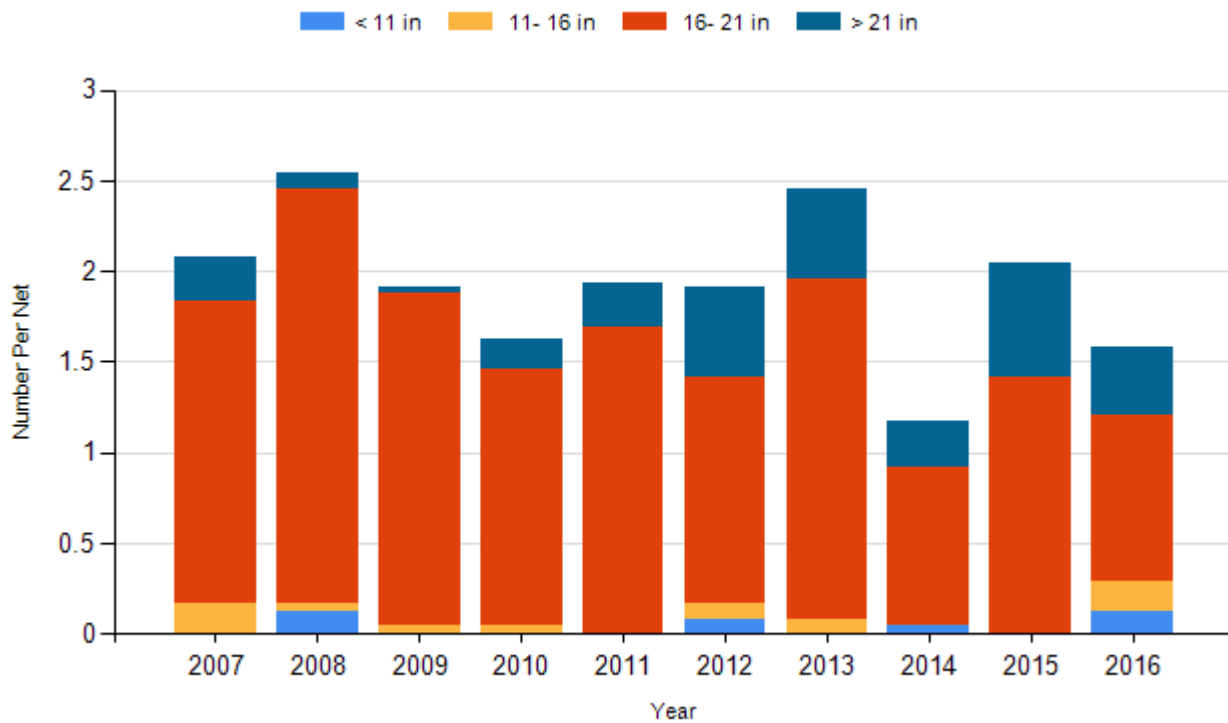
Species: Channel Catfish
Gear: std exp gill net



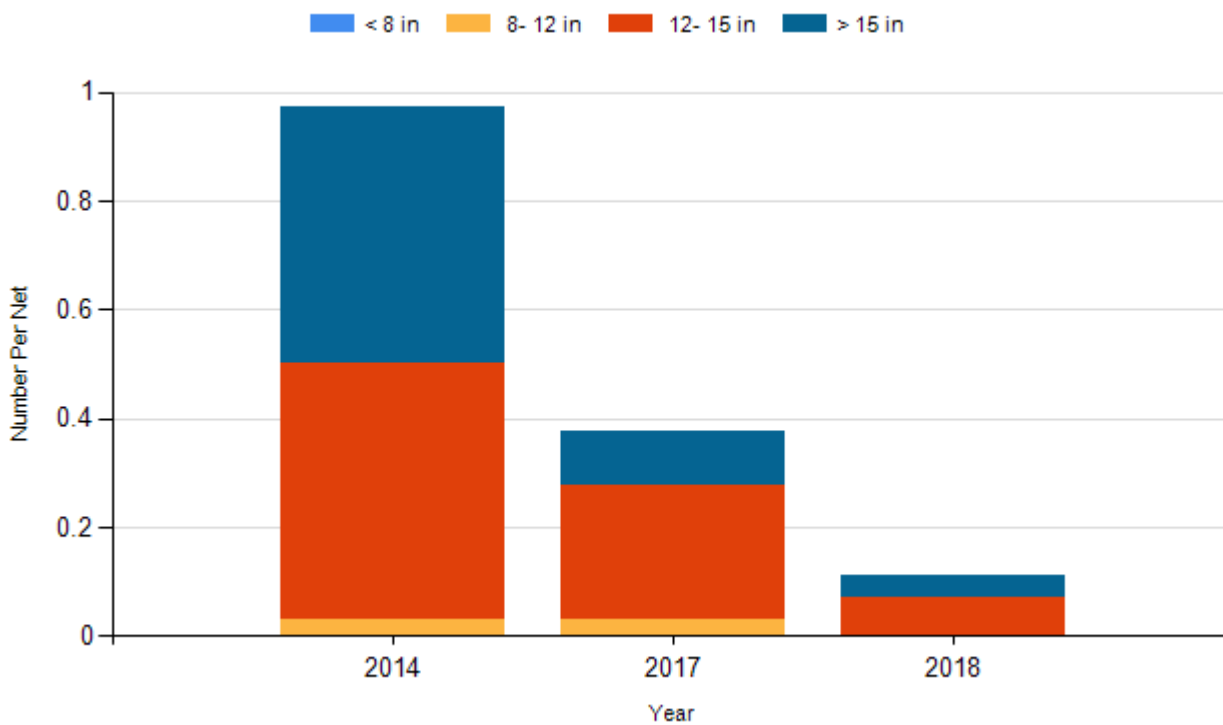
Species: Common Carp
Gear: AFS std gill net



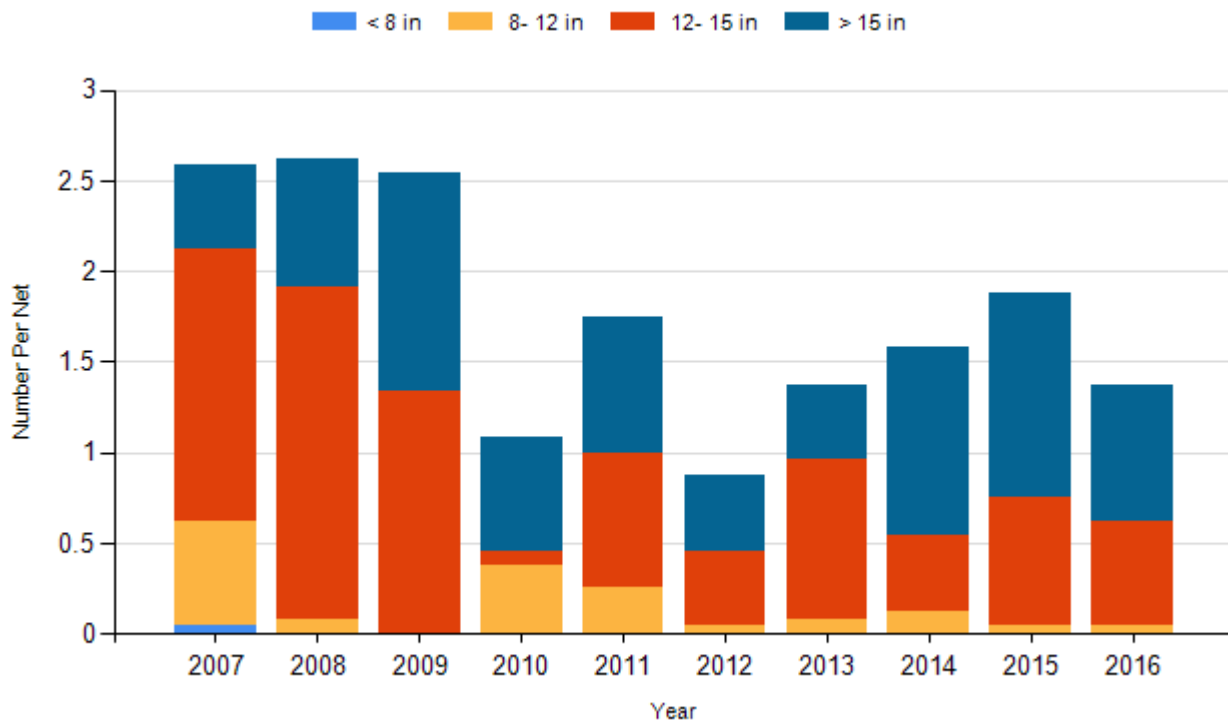
Species: Common Carp
Gear: std exp gill net



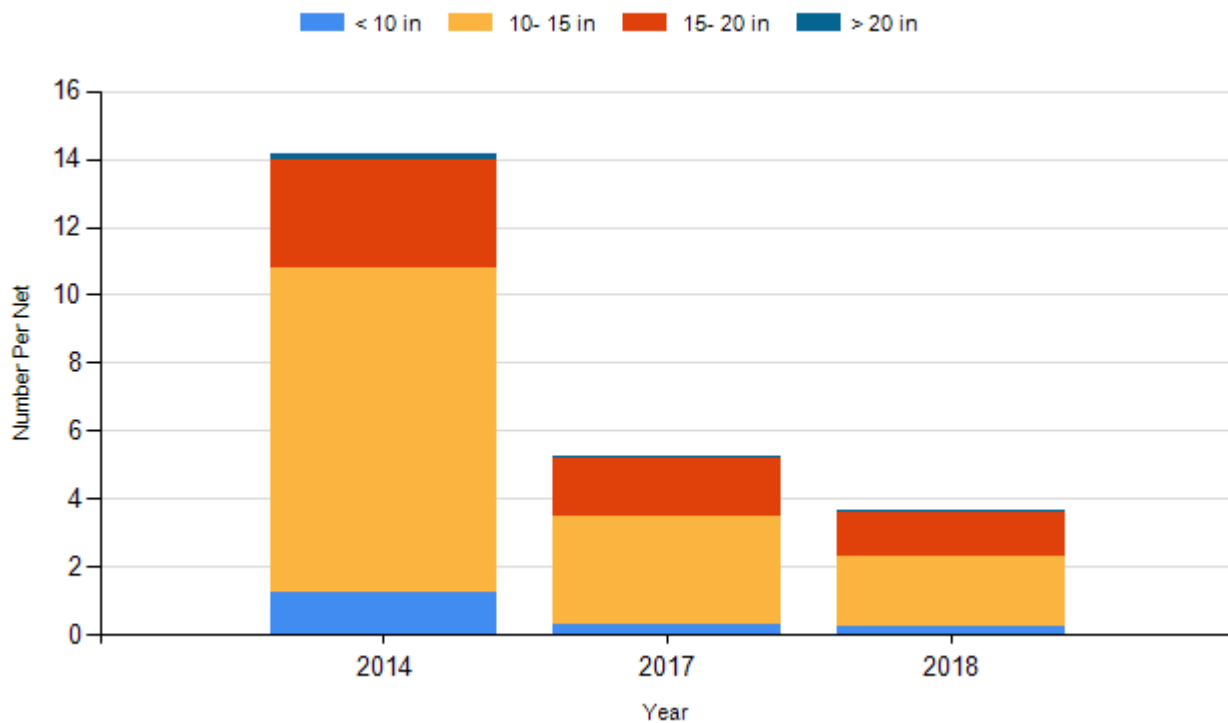
Species: Sauger
Gear: AFS std gill net



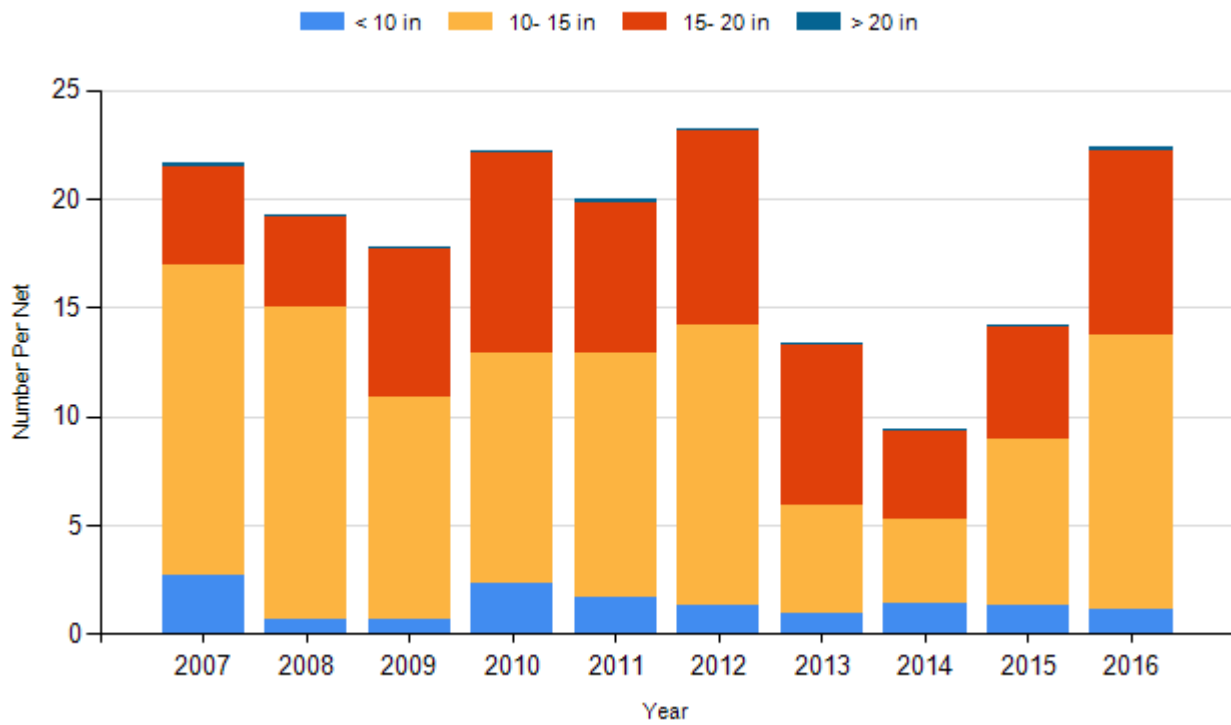
Species: Sauger
Gear: std exp gill net



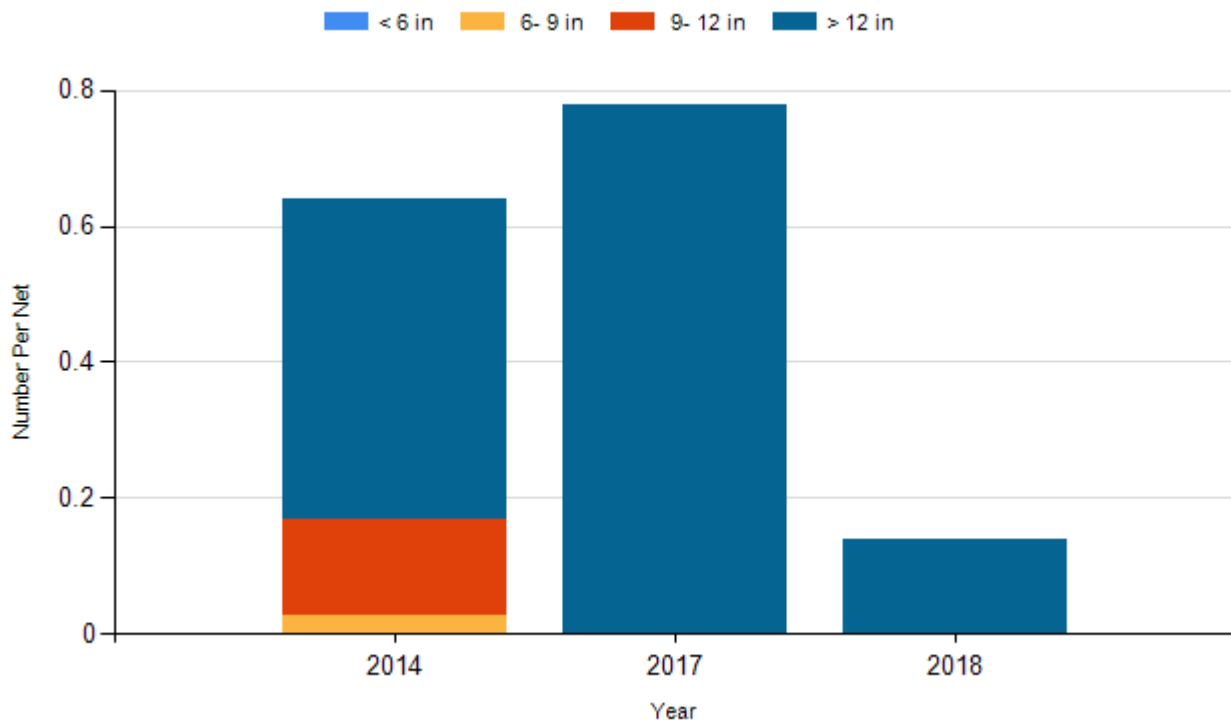
Species: Walleye
Gear: AFS std gill net



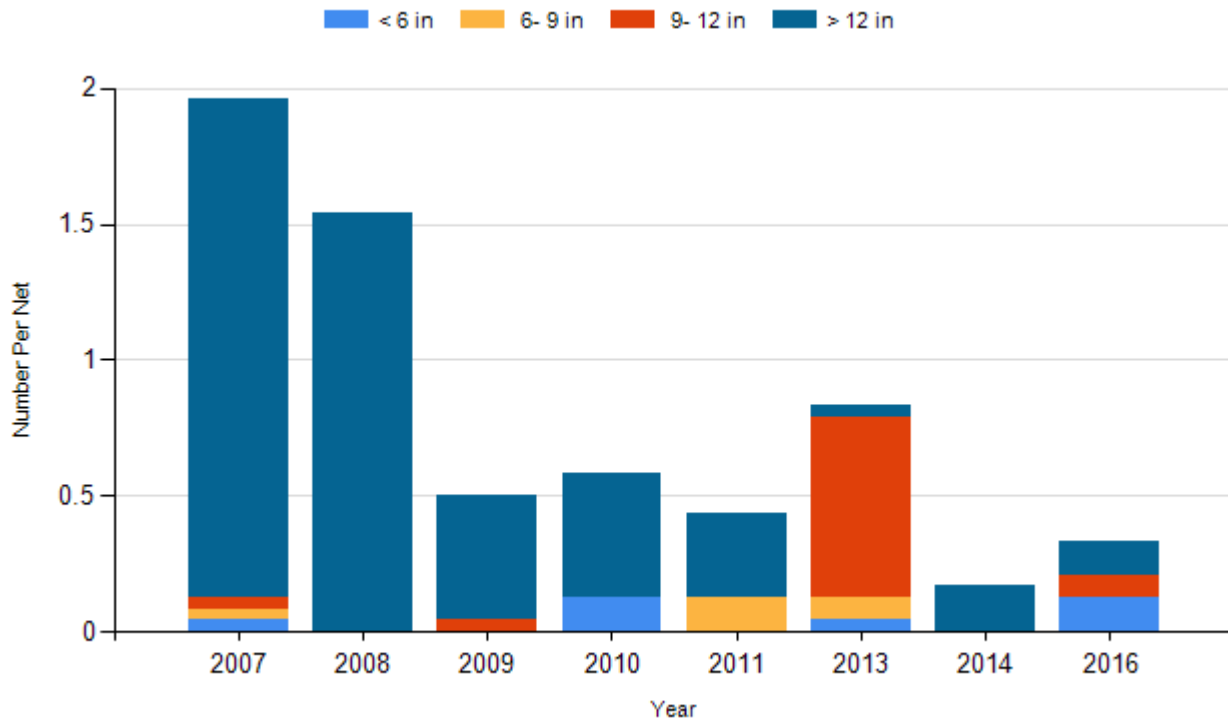
Species: Walleye
Gear: std exp gill net



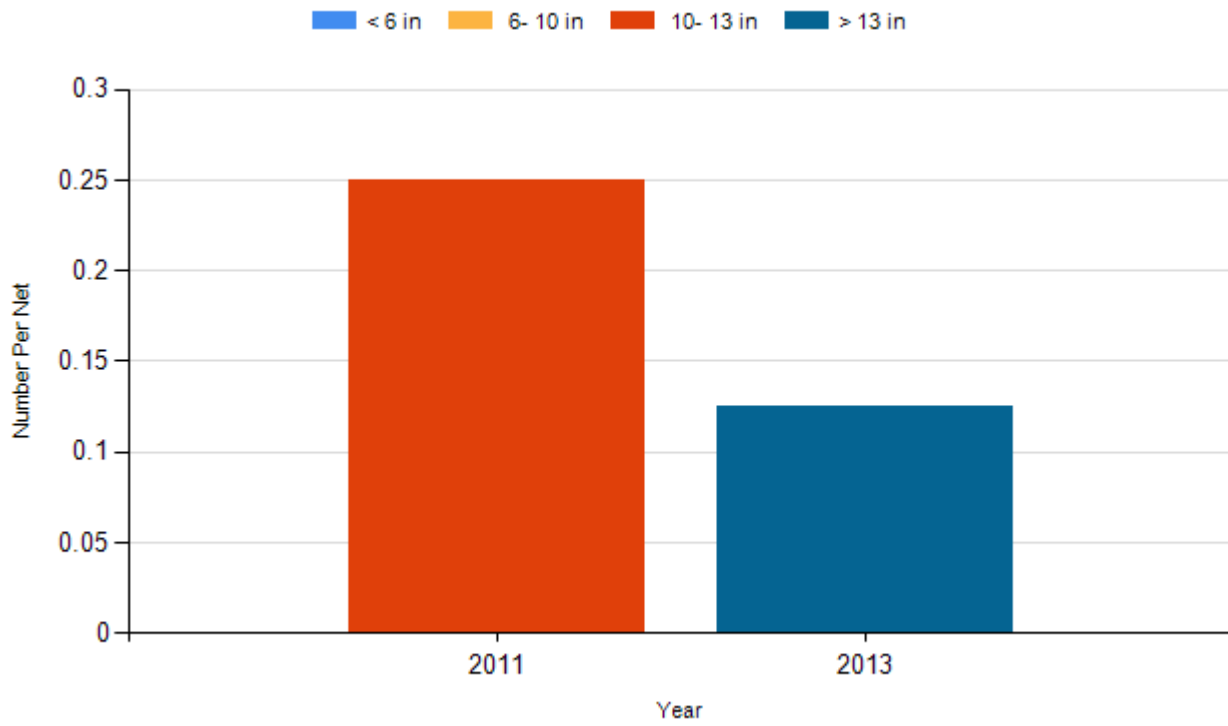
Species: White Bass
Gear: AFS std gill net



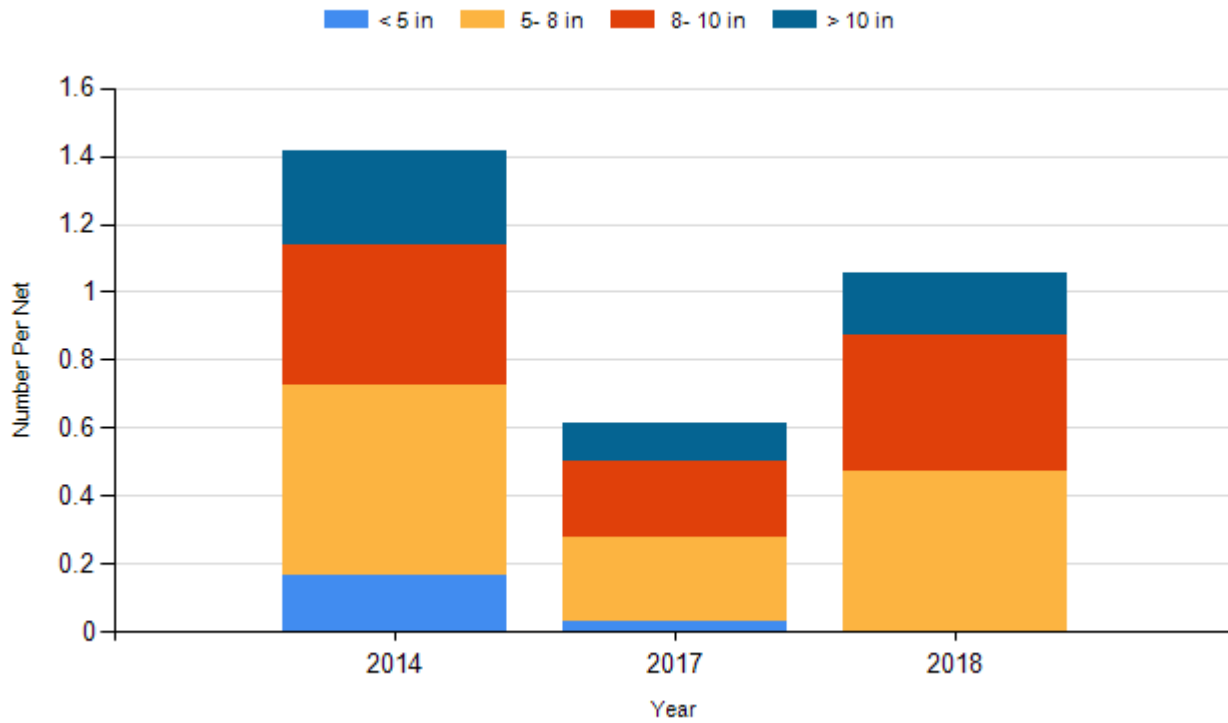
Species: White Bass
Gear: std exp gill net



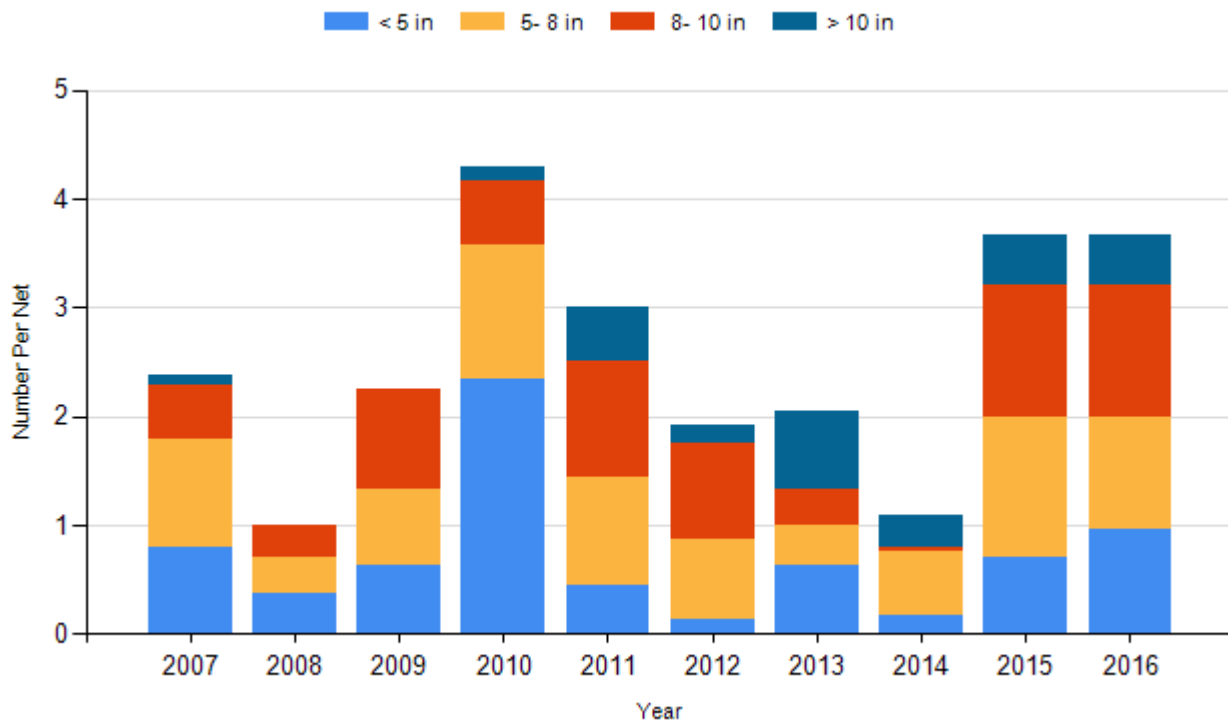
Species: White Sucker
Gear: std exp gill net



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
2018	Paddlefish		5,178