

SOUTH DAKOTA STATEWIDE FISHERIES SURVEY

Francis Case, Charles Mix County

FTR-Lake-6327-000

2017

Lake Information

Name: Francis Case

County: Charles Mix

Surface Area: 88,007 Acres

Surveys and Investigations

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

Gear	Date	Effort
AFS gill net (1/2 inch)	Sep 06, 2017	17 net-nights
AFS gill net (1/2 inch)	Sep 07, 2017	16 net-nights
AFS gill net (1/2 inch)	Sep 08, 2017	14 net-nights
AFS gill net (1/2 inch)	Sep 12, 2017	18 net-nights
AFS gill net (1/2 inch)	Sep 14, 2017	16 net-nights
AFS std gill net	Sep 06, 2017	16 net-nights
AFS std gill net	Sep 07, 2017	16 net-nights
AFS std gill net	Sep 08, 2017	15 net-nights
AFS std gill net	Sep 12, 2017	17 net-nights
AFS std gill net	Sep 14, 2017	16 net-nights
AFS std gill net	Sep 17, 2017	1 net-nights
boat shocker (night)	Jun 02, 2017	2700 seconds
boat shocker (night)	Jun 05, 2017	2700 seconds
boat shocker (night)	Jun 06, 2017	2700 seconds
boat shocker (night)	May 30, 2017	2700 seconds
boat shocker (night)	May 31, 2017	2700 seconds

Common Fish Species Present

Smallmouth Bass

Walleye

Channel Catfish

Sauger

Freshwater Drum

White Bass

Gizzard Shad

Common Carp

Yellow Perch

Smallmouth Buffalo

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	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 gill net (1/2 inch)*	Channel Catfish	7	0.1	0.0	0		0		87	4
	Common Carp	13	0.2	0.1	62		8		87	2
	Emerald Shiner	3	0.0	0.0						
	Freshwater Drum	20	0.2	0.1	0		0		111	12
	Gizzard Shad	98	1.2	0.4	0				100	3
	Goldeye	19	0.2	0.1						
	Sauger	19	0.2	0.1	75		50		83	3
	Silverband Shiner	4	0.0	0.0						
	Spottail Shiner	7	0.1	0.0						
	Walleye	62	0.8	0.1	14		0		91	2
AFS std gill net	White Bass	5	0.1	0.1	0		0		102	7
	Yellow Perch	12	0.1	0.1	9		0		90	7
	Bigmouth Buffalo	3	0.0	0.0	100		100		72	11
	Channel Catfish	322	3.7	0.4	59	4	5	2	80	1
	Common Carp	86	1.1	0.2	60	8	3		83	1
	Freshwater Drum	135	1.4	0.2	96		26	6	89	1
	Gizzard Shad	72	0.8	0.2	99				96	1
	Goldeye	145	0.0	0.0						
	Lake Herring	2	0.0	0.0	100		100		89	
	River Carpsucker	9	0.1	0.1	89		89		96	6
boat shocker (night)	Sauger	142	1.7	0.3	86	4	49	6	77	1
	Shorthead Redhorse	3	0.0	0.0	100		100		105	17
	Shortnose Gar	9	0.0	0.0						
	Smallmouth Bass	98	1.2	0.6	70	7	18	6	104	1
	Smallmouth Buffalo	25	0.3	0.1	96		67	15	79	2
	Walleye	353	4.3	0.6	63	4	5	2	81	0
	White Bass	123	1.4	0.5	99		80	5	97	1
	Yellow Perch	35	0.4	0.2	51	13	3		83	2
boat shocker (night)	Smallmouth Bass	513	109.9	22.7	45	2	14	2	91	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.

Gear	Species	CPUE									
		2008	2009	2010	2011	2012	2013	2014	2015	2016	Avg
AFS gill net (1/2 inch)	Channel Catfish									0.1	0.1
	Common Carp									0.2	0.2
	Emerald Shiner									0.0	0.0
	Freshwater Drum									0.2	0.2
	Gizzard Shad									1.2	1.2
	Goldeye									0.2	0.2
	Sauger									0.2	0.2
	Silverband Shiner									0.0	0.0
	Spottail Shiner									0.1	0.1
	Walleye									0.8	0.8
AFS std gill net	White Bass									0.1	0.1
	Yellow Perch									0.1	0.1
	Bigmouth Buffalo									0.0	0.0
	Channel Catfish									3.7	3.7
	Common Carp									1.1	1.1
	Freshwater Drum									1.4	1.4
	Gizzard Shad									0.8	0.8
	Goldeye									0.0	0.0
	Lake Herring									0.0	0.0
	River Carpsucker									0.1	0.1
boat shocker (night)	Sauger									1.7	1.7
	Shorthead Redhorse									0.0	0.0
	Shortnose Gar									0.0	0.0
	Smallmouth Bass									1.2	1.2
	Smallmouth Buffalo									0.3	0.3
	Walleye									4.3	4.3
	White Bass									1.4	1.4
	Yellow Perch									0.4	0.4
	Smallmouth Bass	49.1	68.0	181.6	73.6	80.7	66.7	86.0	68.9	118.4	109.9
											90.3
std exp gill net	Bigmouth Buffalo								0.1		0.1
	Black Bullhead			0.4	0.1						0.3
	Black Crappie	0.0			0.1	0.1	0.0	0.0	0.0		0.0
	Bluegill								0.0		0.0
	Brown Trout				0.0						0.0

Gear	Species	CPUE										
		2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	Avg
std exp gill net	Channel Catfish	5.7	4.4	3.9	2.5	2.8	3.1	3.2	4.7	5.3		4.0
	Chinook Salmon				0.0							0.0
	Common Carp	1.4	1.0	0.7	1.0	1.8	1.3	1.0	1.8	2.0		1.3
	Flathead Catfish				0.1							0.1
	Freshwater Drum	0.3	0.3	0.2	0.2	0.5	0.7	0.4	0.2	0.3		0.3
	Gizzard Shad	0.0	0.1	0.2	0.4	0.1	0.6	0.0	0.3	4.4		0.7
	Goldeye	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0
	Lake Herring			0.0					0.0	0.0		0.0
	Northern Pike		0.1	0.4	0.4	0.4	0.1		0.1	0.0		0.2
	Orangespotted Sunfish			0.0								0.0
	River Carpsucker	0.1	0.2	0.1	0.1	0.1	0.0	0.1	0.1	0.1		0.1
	Sauger	1.2	1.9	4.0	7.2	7.4	5.9	5.4	3.7	4.1		4.5
	Shorthead Redhorse	0.0	0.1	0.3	0.3	0.2	0.3	0.2	0.3	0.2		0.2
	Shortnose Gar	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0
	Shovelnose Sturgeon						0.0					0.0
	Smallmouth Bass	0.3	0.6	0.6	0.8	0.6	0.2	0.2	1.0	0.1		0.5
	Smallmouth Buffalo	0.0	0.1	0.0		0.0	0.0	0.1	0.1	0.1		0.1
	Spottail Shiner	0.0		0.0	0.0				0.0			0.0
	Walleye	6.7	10.0	14.9	11.9	9.4	5.8	6.2	3.9	5.0		8.2
	Western Silvery Minnow						0.0					0.0
	White Bass	0.6	0.5	0.0	0.5	0.1	0.3	0.1	0.2	0.8		0.3
	White Crappie	0.0	0.1	0.0	0.1	0.0	0.0	0.0	0.0	0.1		0.0
	Yellow Perch	0.4	0.3	4.7	3.6	1.4	0.4	0.8	0.9	1.2		1.5

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								
			2008	2009	2010	2011	2012	2013	2014	2015	2017
AFS gill net (1/2 inch)	Channel Catfish	PSD									0
		PSD-P									0
		Wr									87
	Sauger	PSD									75
		PSD-P									50
		Wr									83
	Walleye	PSD									14
		PSD-P									0
		Wr									91
	White Bass	PSD									0
		PSD-P									0
		Wr									102
AFS std gill net	Yellow Perch	PSD									9
		PSD-P									0
		Wr									90
	Channel Catfish	PSD									59
		PSD-P									5
		Wr									80
	Sauger	PSD									86
		PSD-P									49
		Wr									77
	Smallmouth Bass	PSD									70
		PSD-P									18
		Wr									104
	Walleye	PSD									63
		PSD-P									5
		Wr									81
	White Bass	PSD									99
		PSD-P									80
		Wr									97
	Yellow Perch	PSD									51
		PSD-P									3

Gear	Species	Index	Year									
			2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
AFS std gill net	Yellow Perch	Wr										83
boat shocker (night)	Smallmouth Bass	PSD	61	48	56	30	42	44	41	37	46	45
		PSD-P	25	7	11	17	7	12	12	12	16	14
		Wr	94	94			84		91	92	97	91
std exp gill net	Channel Catfish	PSD	46	35	60	63	43	51	43	46	52	
		PSD-P	1	0	0	1	1	0	3	2	3	
		Wr	83	81	81	85	84	84	81	79	83	
	Sauger	PSD	86	82	38	70	73	65	73	74	78	
		PSD-P	29	25	15	26	35	16	19	32	29	
		Wr	75	77	82	77	74	73	76	76	80	
	Smallmouth Bass	PSD	90	65	12	76	47	40	29	62	67	
		PSD-P	30	6	0	19	33	0	0	12	0	
		Wr	101	117	104	108	107	97	109	100	110	
	Walleye	PSD	33	46	47	44	40	20	33	60	46	
		PSD-P	1	1	1	2	9	4	2	9	4	
		Wr	83	81	88	83	82	82	84	84	86	
	White Bass	PSD	100	100	0	92	100	100	100	100	50	
		PSD-P	94	86	0	69	50	89	100	100	27	
		Wr	98	100		97	105	102	103	97	107	
	Yellow Perch	PSD	27	33	26	22	28	8	22	8	21	
		PSD-P	0	0	3	0	5	8	0	0	3	
		Wr	86	81	83	85	84	82	84	79	80	

Back-Calculated Lengths

Mean species back-calculated total length (mm) at age, standard error (SE), and sample size (N).

Species: Smallmouth Bass

Year Class	Age	N	Mean back-calculated length (SE) at age									
			1	2	3	4	5	6	7	8	9	10
2016	1	6	133 (11.1)									
2015	2	163	96 (1.5)	219 (3.6)								
2014	3	113	90 (1.1)	194 (3.1)	304 (3.1)							
2013	4	35	94 (2.6)	186 (6.5)	284 (7.2)	359 (5.2)						
2012	5	16	90 (4.1)	173 (10.5)	268 (10)	336 (8.7)	392 (8.9)					
2011	6	6	84 (3.2)	194 (15.1)	291 (18.7)	350 (15.7)	401 (12.8)	444 (17.8)				
2010	7	1	84	211	306	360	384	414	422			
Weighted Mean			340	94	204	296	352	394	440	422		
Year Class	Age	N	11	12	13	14	15	16	17	18	19	20
			2016	1	6							
2015	2	163										
2014	3	113										
2013	4	35										
2012	5	16										
2011	6	6										
2010	7	1										
Weighted Mean			340									

Length at Capture

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

Species: Channel Catfish

Year	N	Mean Length (expanded sample number) at capture by age									
		1	2	3	4	5	6	7	8	9	10+
2016	152	100 (1)	226 (5)	302 (12)	324 (7)	351 (14)	395 (21)	416 (26)	425 (11)	487 (12)	535 (41)
2011	70		270 (5)	311 (8)	337 (10)	377 (6)	416 (5)	463 (6)	492 (6)	506 (9)	525 (16)
2010	108	187 (2)	292 (4)	333 (15)	383 (11)	406 (18)	449 (16)	448 (14)	460 (7)	475 (5)	513 (14)
2009	134		237 (6)	285 (19)	336 (30)	362 (10)	381 (21)	416 (15)	425 (6)	444 (4)	484 (23)

Species: Sauger

Year	N	Mean Length (expanded sample number) at capture by age									
		1	2	3	4	5	6	7	8	9	10+
2017	140	305 (41)	368 (40)	403 (42)	451 (8)	450 (6)	450 (2)	404 (2)			
2016	110	295 (37)	355 (38)	405 (13)	388 (9)	406 (10)	435 (2)	479 (1)			
2015	98	258 (25)	360 (33)	363 (5)	396 (26)	430 (4)	443 (4)				365 (1)
2014	177	261 (21)	293 (36)	350 (89)	390 (10)	400 (21)					
2013	159	237 (16)	300 (86)	371 (36)	402 (20)	433 (1)					
2012	199	267 (61)	360 (69)	405 (58)	459 (4)	455 (2)	440 (4)				462 (1)
2011	194	277 (73)	361 (99)	449 (8)	468 (9)	460 (2)	473 (3)				
2010	111	267 (88)	391 (10)	446 (7)	420 (5)	430 (1)					
2009	51	288 (12)	348 (28)	376 (8)	400 (3)						
2008	34	256 (4)	338 (14)	379 (11)	380 (3)		418 (2)				

Species: Smallmouth Bass

Year	N	Mean Length (expanded sample number) at capture by age									
		1	2	3	4	5	6	7	8	9	10+
2017	490	129 (14)	213 (273)	301 (137)	360 (42)	392 (17)	443 (6)	425 (1)			
2016	590	121 (66)	199 (253)	289 (176)	348 (58)	390 (17)	414 (15)	424 (3)	413 (1)	484 (1)	
2015	432	108 (84)	187 (210)	277 (63)	314 (44)	353 (22)	406 (8)	447 (1)			
2014	333	110 (43)	194 (98)	269 (104)	303 (71)	360 (14)	369 (2)				
2013	307	128 (10)	182 (56)	234 (145)	316 (74)	344 (15)	404 (3)	417 (2)	440 (1)		

Mean Length (expanded sample number) at capture by age

Year	N	1	2	3	4	5	6	7	8	9	10+
2012	475	123 (50)	197 (200)	279 (162)	318 (44)	389 (17)	415 (2)				
2011	308	118 (26)	217 (161)	281 (71)	362 (28)	396 (11)	422 (7)	437 (3)	473 (1)		
2010	298	111 (32)	177 (69)	284 (156)	344 (33)	399 (5)	414 (2)	434 (1)			
2009	299	104 (13)	202 (139)	297 (112)	339 (34)	383 (2)					
2008	216	109 (20)	212 (73)	321 (98)	366 (19)	429 (6)					

Species: Walleye

Mean Length (expanded sample number) at capture by age

Year	N	1	2	3	4	5	6	7	8	9	10+
2017	346	295 (76)	378 (83)	405 (91)	448 (6)	445 (13)	472 (37)	464 (16)	470 (15)	443 (1)	538 (4)
2016	142	273 (38)	353 (47)	411 (7)	450 (13)	463 (26)	488 (7)	467 (3)			446 (1)
2015	135	237 (46)	334 (9)	394 (13)	398 (37)	466 (7)	474 (6)	484 (3)	496 (3)		509 (11)
2014	208	255 (11)	316 (36)	353 (89)	392 (27)	405 (31)	441 (3)	482 (1)	519 (2)	509 (5)	505 (3)
2013	175	232 (21)	312 (107)	376 (31)	430 (8)	469 (2)	533 (3)	526 (1)	526 (1)		504 (1)
2012	298	256 (114)	350 (76)	398 (48)	477 (10)	475 (5)	475 (7)	513 (26)	513 (8)	465 (1)	526 (3)
2011	345	269 (99)	369 (156)	417 (41)	446 (11)	456 (10)	462 (25)	446 (1)		483 (1)	615 (1)
2010	427	267 (178)	359 (77)	416 (35)	437 (68)	441 (58)	456 (6)	493 (2)		478 (2)	526 (1)
2009	296	240 (41)	318 (45)	368 (71)	392 (118)	415 (10)	425 (5)	562 (1)		454 (2)	576 (3)
2008	213	240 (25)	309 (44)	357 (100)	409 (19)	458 (10)	472 (6)	429 (2)	486 (5)	467 (3)	504 (1)

Species: White Bass

Mean Length (expanded sample number) at capture by age

Year	N	1	2	3	4	5	6	7	8	9	10+
2009	16	189 (4)	312 (2)	358 (4)	361 (4)	372 (1)	335 (1)				
2008	13			350 (11)		396 (1)	396 (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+
2010	1				482 (1)						

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)	N	Wr (SE)
Channel Catfish Gill Net	2013	41	84 (0.9)	42	85 (1.3)	0		0	
	2014	61	81 (0.9)	43	81 (1.3)	3	88 (8.1)	0	
	2015	68	81 (0.8)	56	77 (1.1)	2	79 (3.4)	0	
	2016	69	85 (2.0)	71	80 (1.0)	4	88 (3.1)	0	
	2017	123	81 (1.2)	162	80 (0.7)	14	79 (2.5)	2	87 (8.3)
Sauger Gill Net	2013	56	74 (0.8)	76	74 (0.9)	26	71 (1.3)	0	
	2014	47	81 (3.5)	96	74 (0.6)	34	75 (0.9)	0	
	2015	26	76 (1.7)	41	77 (1.2)	31	74 (1.8)	1	74
	2016	25	83 (1.5)	54	80 (0.7)	32	76 (1.1)	1	83
	2017	19	79 (1.2)	53	78 (1.1)	68	76 (1.3)	0	
Smallmouth Bass Electro Fishing	2014	153	90 (1.0)	73	90 (1.1)	31	100 (1.5)	1	92
	2015	159	91 (0.9)	64	93 (1.6)	29	95 (1.8)	2	99 (18.2)
	2016	241	99 (3.2)	130	95 (0.6)	66	96 (0.9)	7	97 (4.7)
	2017	227	91 (1.0)	129	92 (0.9)	49	90 (1.3)	7	90 (2.3)
Walleye Gill Net	2013	125	82 (0.6)	26	80 (1.3)	6	74 (3.3)	0	
	2014	136	85 (0.5)	64	81 (0.6)	4	71 (2.7)	0	
	2015	42	84 (0.9)	54	84 (1.0)	9	80 (1.9)	0	
	2016	73	86 (0.8)	57	87 (1.0)	6	80 (1.2)	0	
	2017	127	83 (0.4)	203	81 (0.4)	17	73 (1.7)	0	
White Bass Gill Net	2013	0		1	98	6	102 (3.0)	2	103 (8.2)
	2014	0		0		4	103 (2.5)	0	
	2015	0		0		3	102 (2.2)	3	93 (2.8)

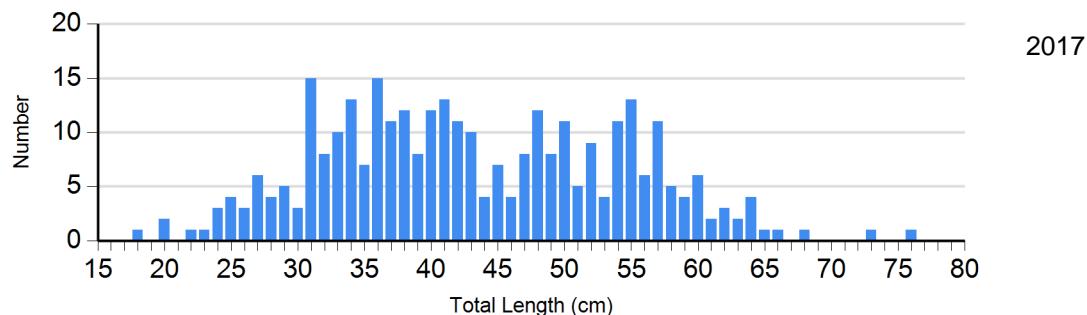
Species	Year	Length Groups							
		S-Q		Q-P		P-M		M	
		N	Wr (SE)	N	Wr (SE)	N	Wr (SE)	N	Wr (SE)
White Bass Gill Net	2016	11	110 (1.9)	5	108 (1.3)	1	111	5	98 (2.8)
	2017	1	77	21	100 (1.4)	38	104 (1.4)	50	92 (1.3)
Yellow Perch Gill Net	2013	11	88 (4.0)	0		1	22	0	
	2014	21	85 (1.8)	6	81 (2.2)	0		0	
	2015	23	79 (1.2)	2	79 (7.3)	0		0	
	2016	26	81 (2.7)	6	79 (2.2)	1	52	0	
	2017	17	86 (1.9)	17	79 (1.4)	1	91	0	

Length Frequency Distribution

Length frequency histogram of species sampled by year.

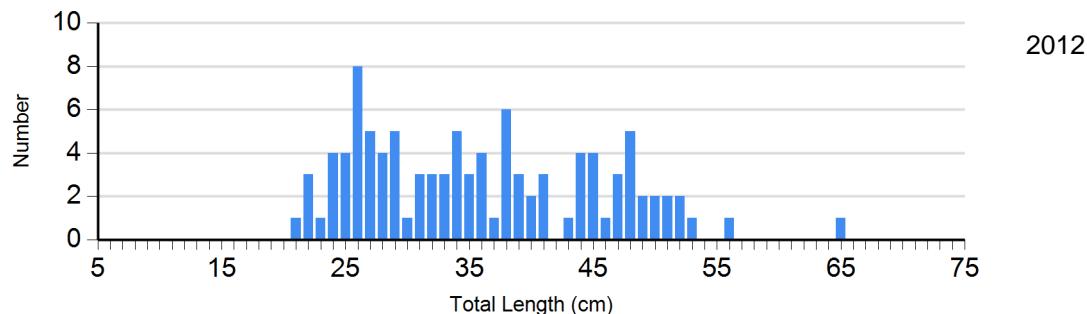
Species: Channel Catfish

Gear: AFS std gill net

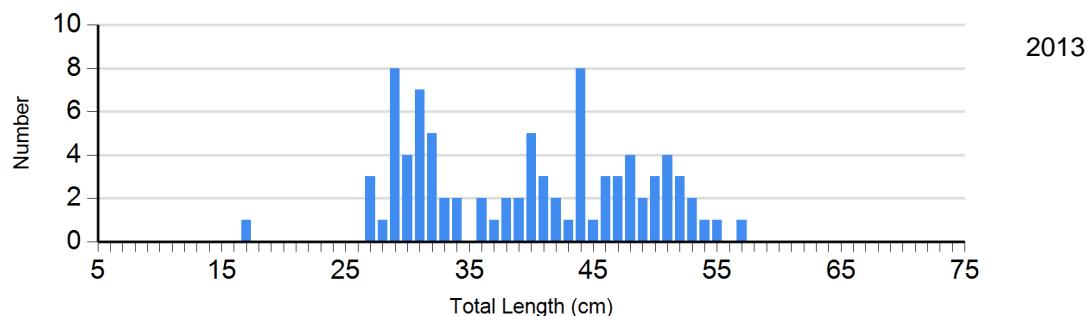


Species: Channel Catfish

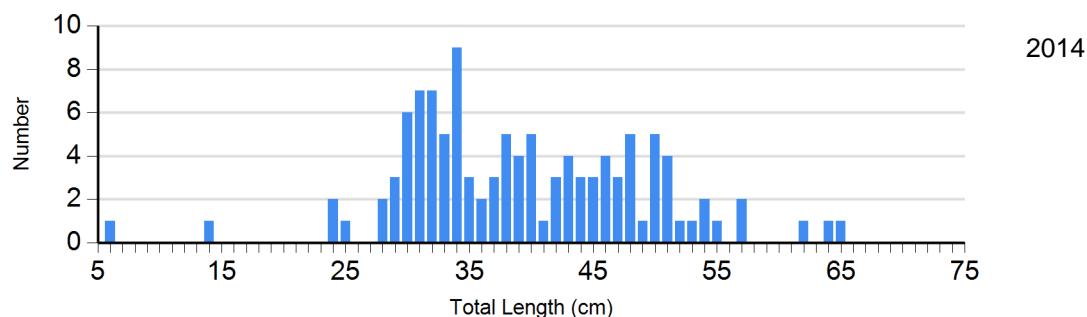
Gear: std exp gill net



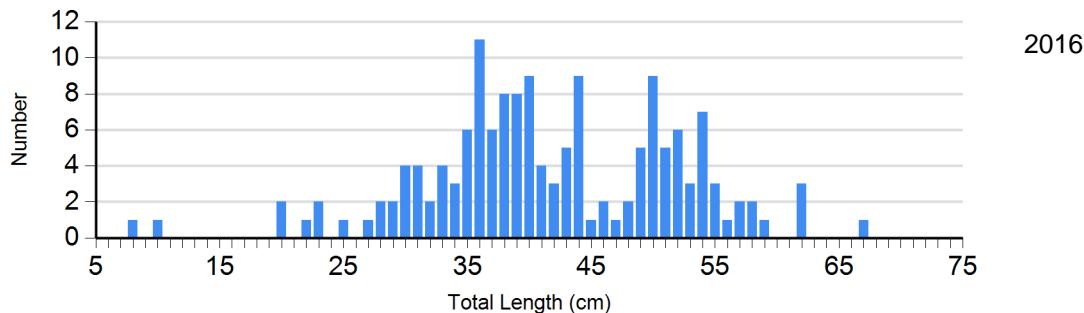
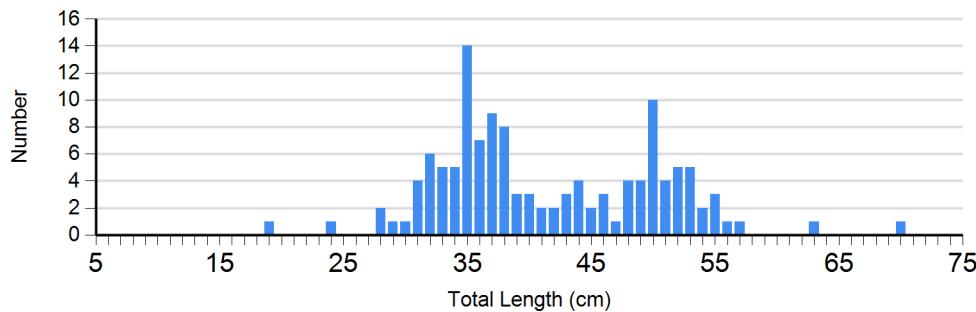
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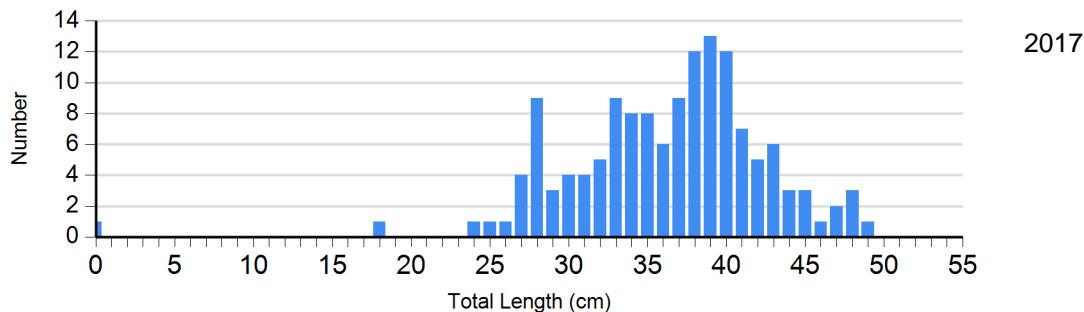
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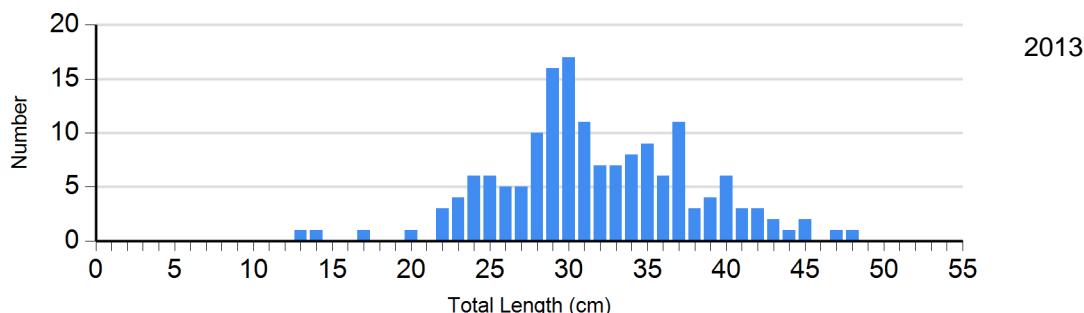
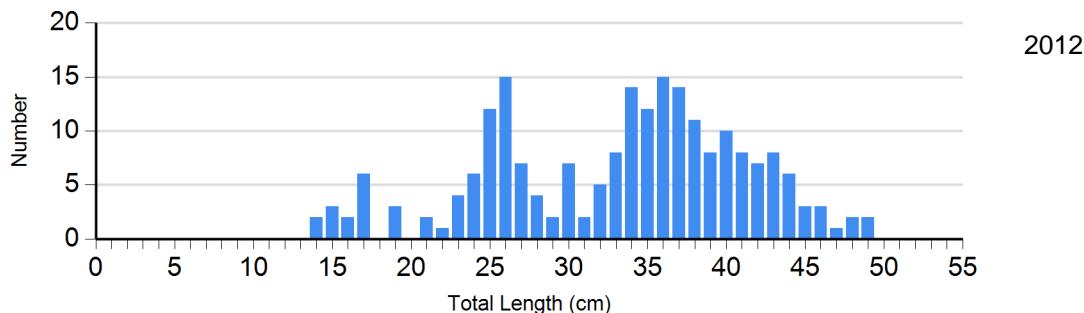
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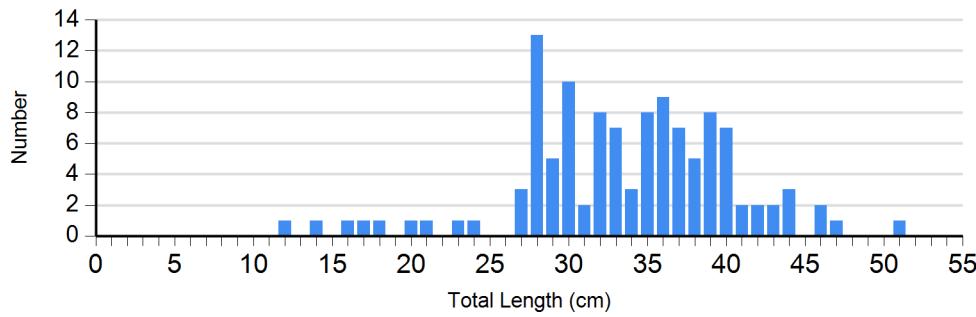
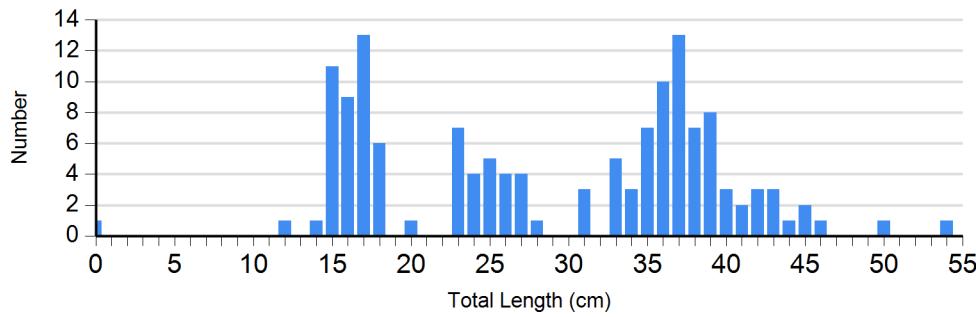
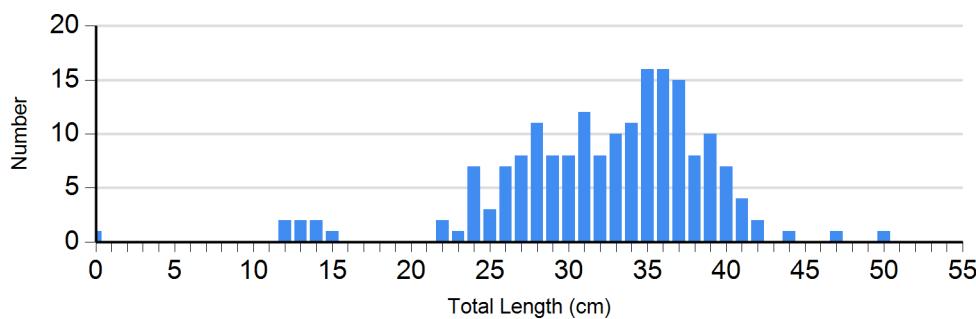


Species: Sauger
Gear: AFS std gill net

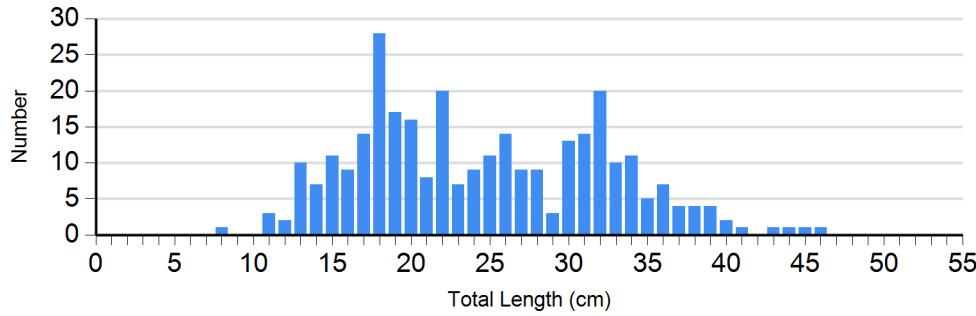
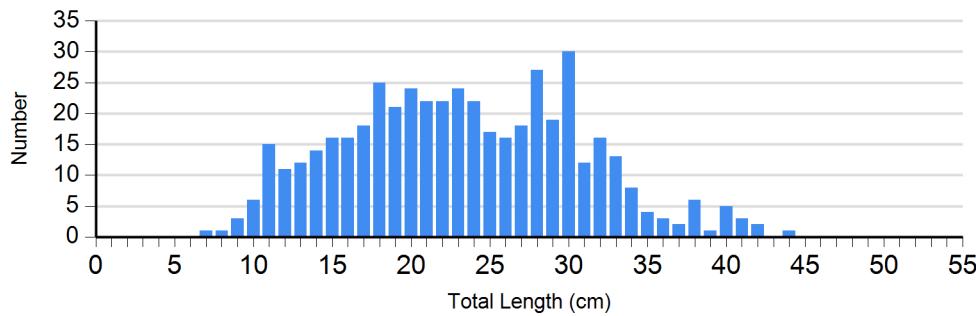


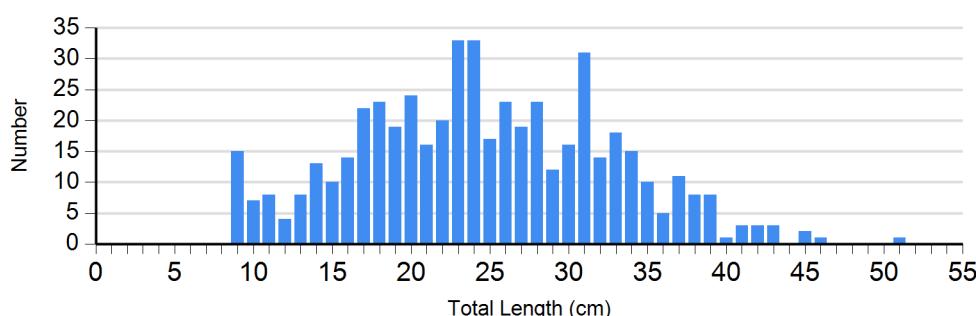
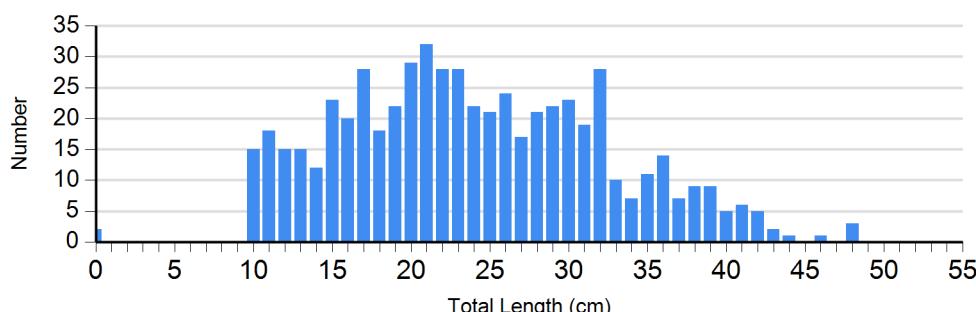
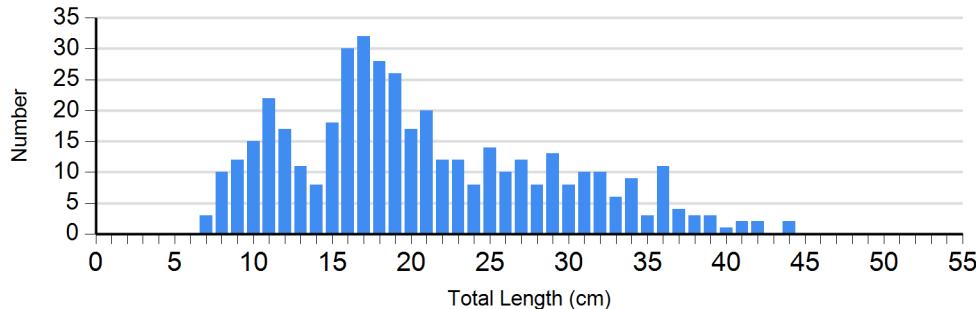
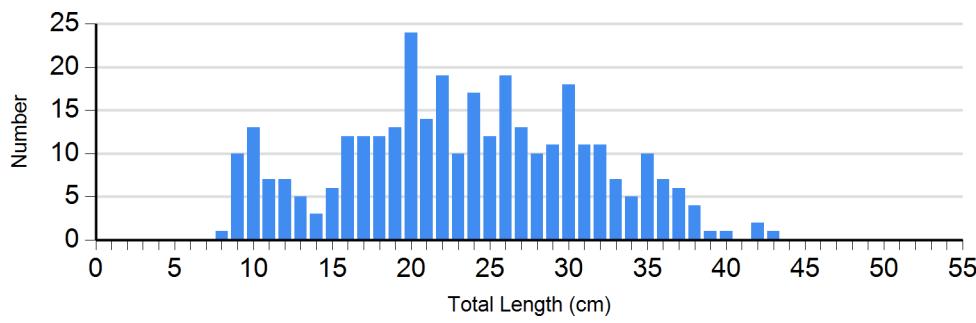
Species: Sauger
Gear: std exp gill net



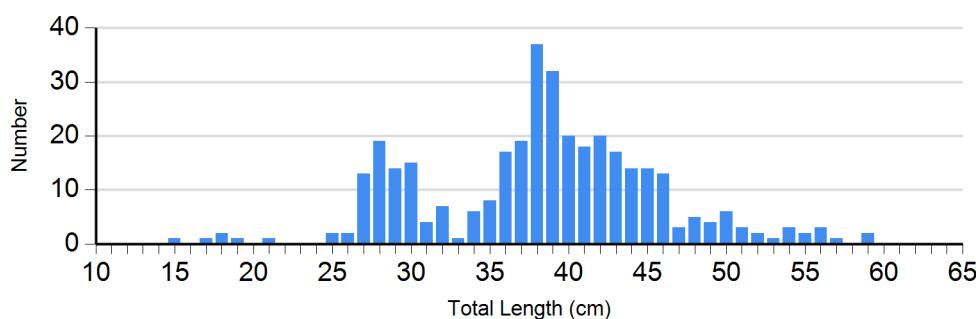


Species: Smallmouth Bass
Gear: boat shocker (night)

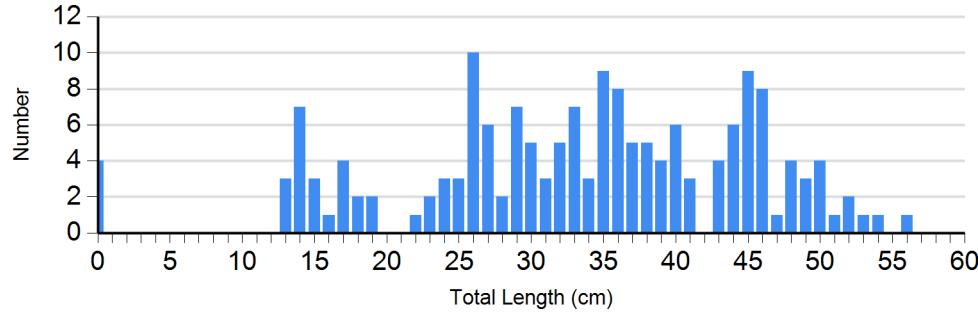
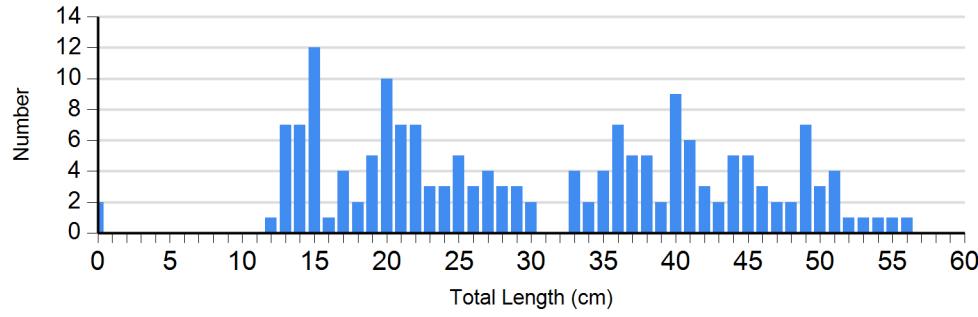
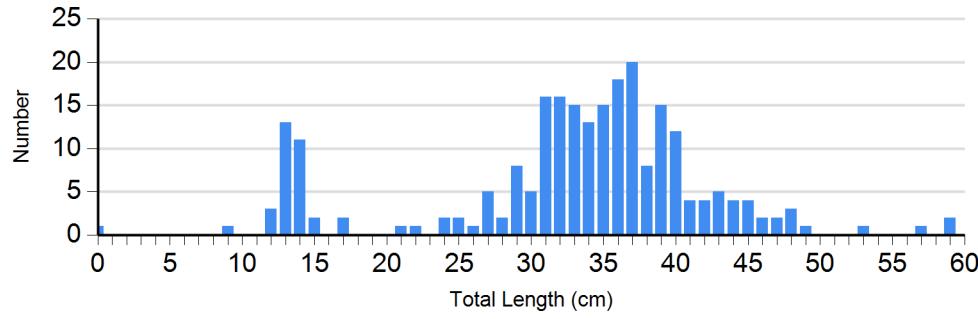
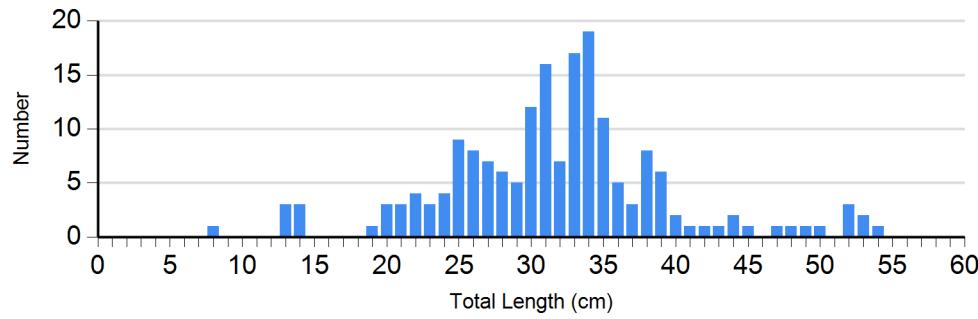
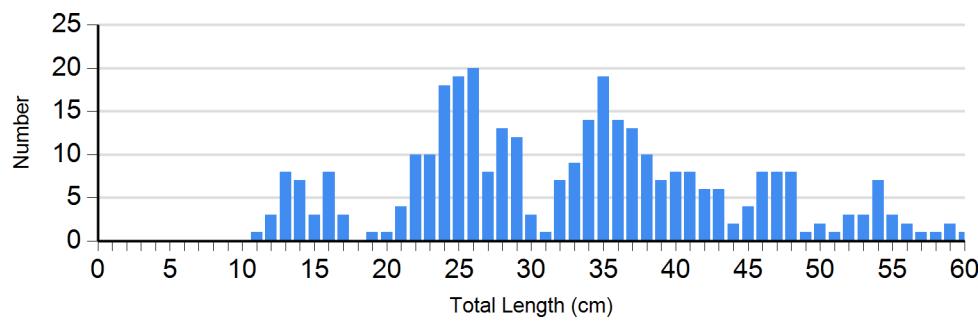




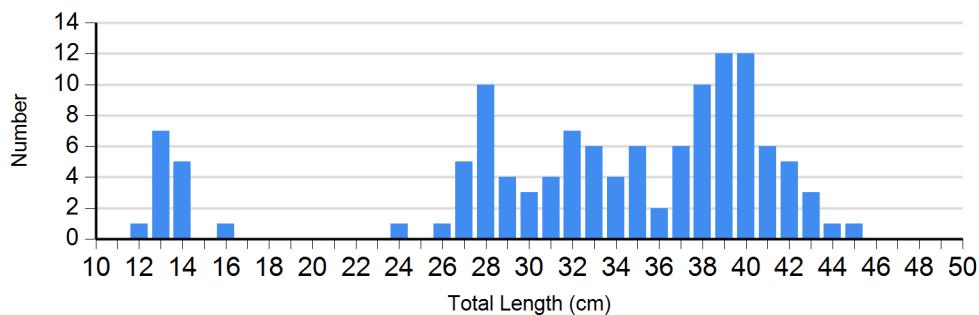
Species: Walleye
Gear: AFS std gill net



Species: Walleye
Gear: std exp gill net

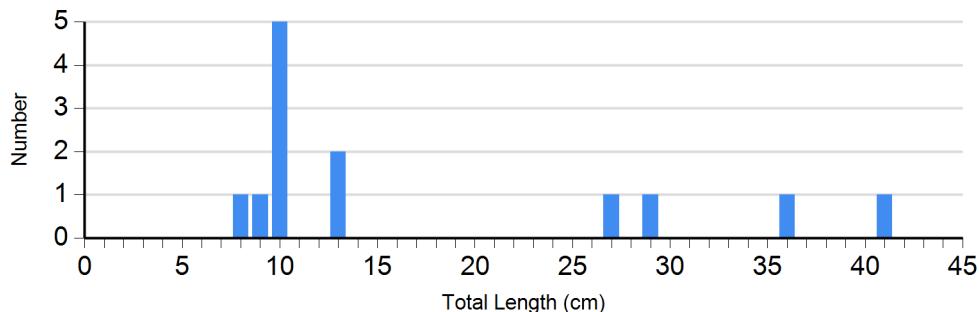


Species: White Bass
Gear: AFS std gill net

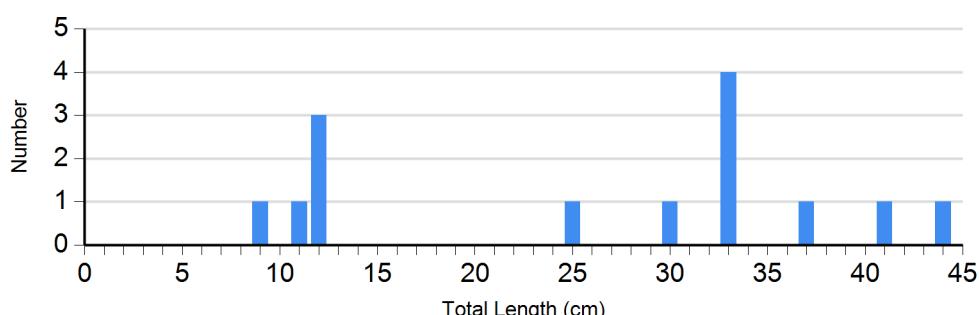


2017

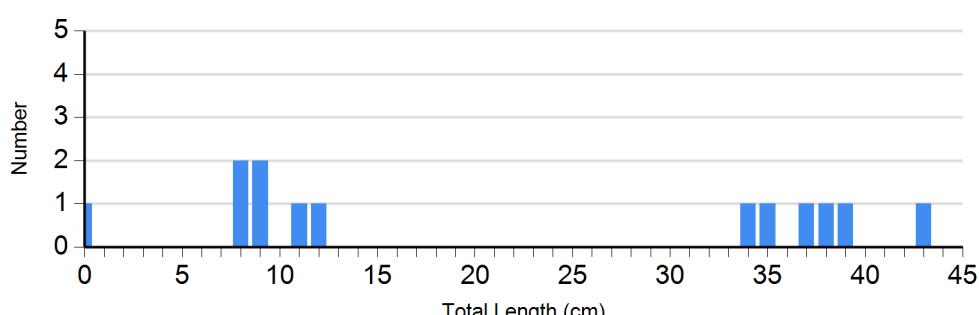
Species: White Bass
Gear: std exp gill net



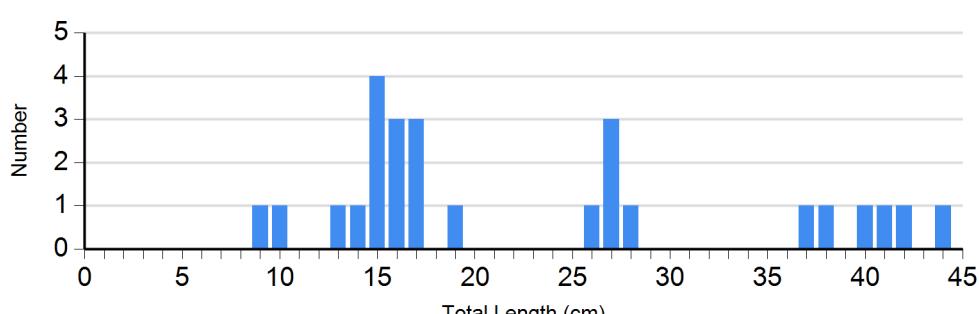
2012



2013

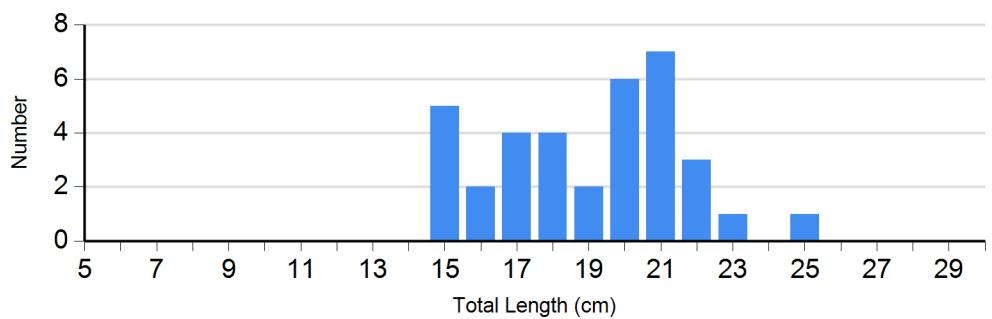


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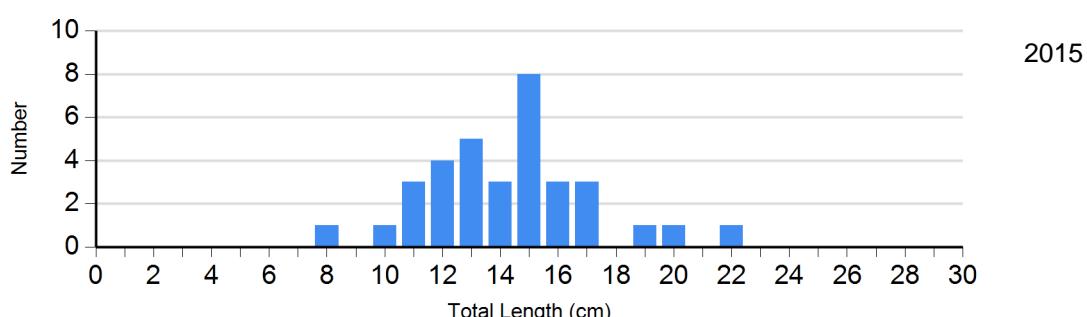
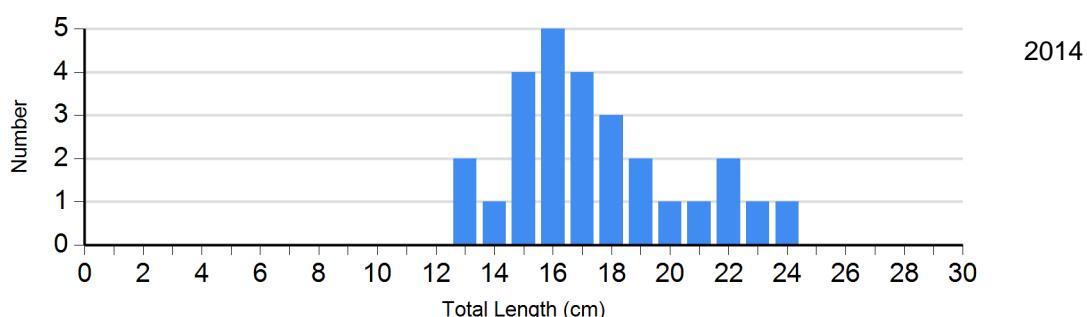
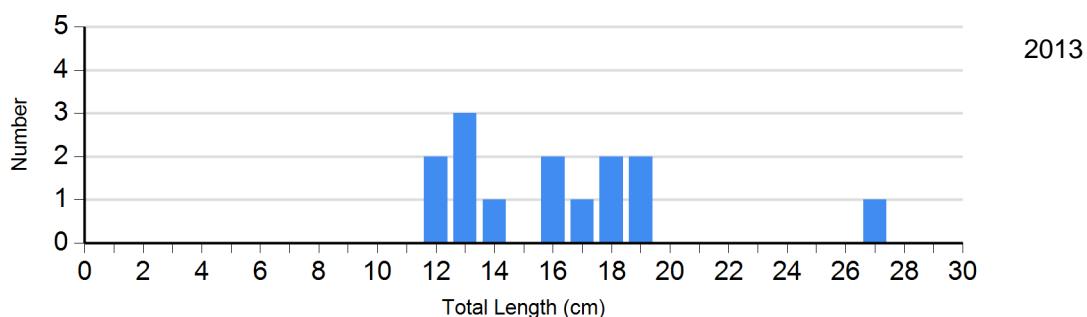
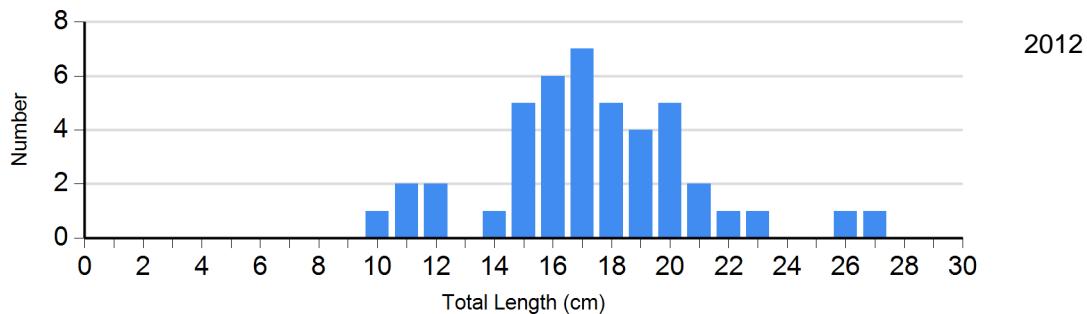


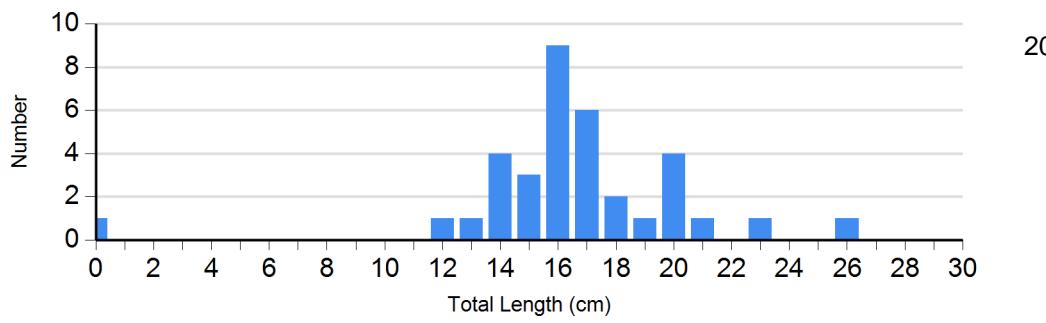
2016

Species: Yellow Perch
Gear: AFS std gill net



Species: Yellow Perch
Gear: std exp gill net



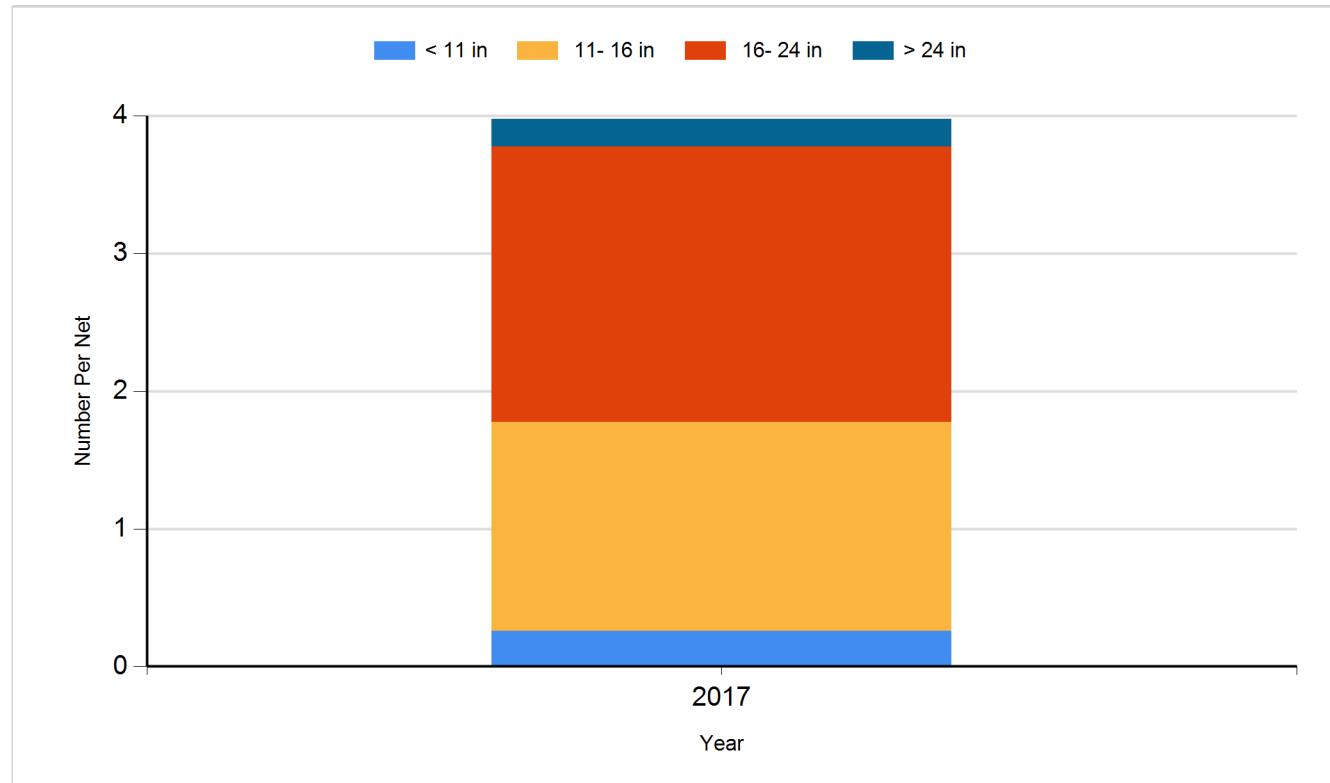


Historic Fish Sizes and Relative Abundance

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

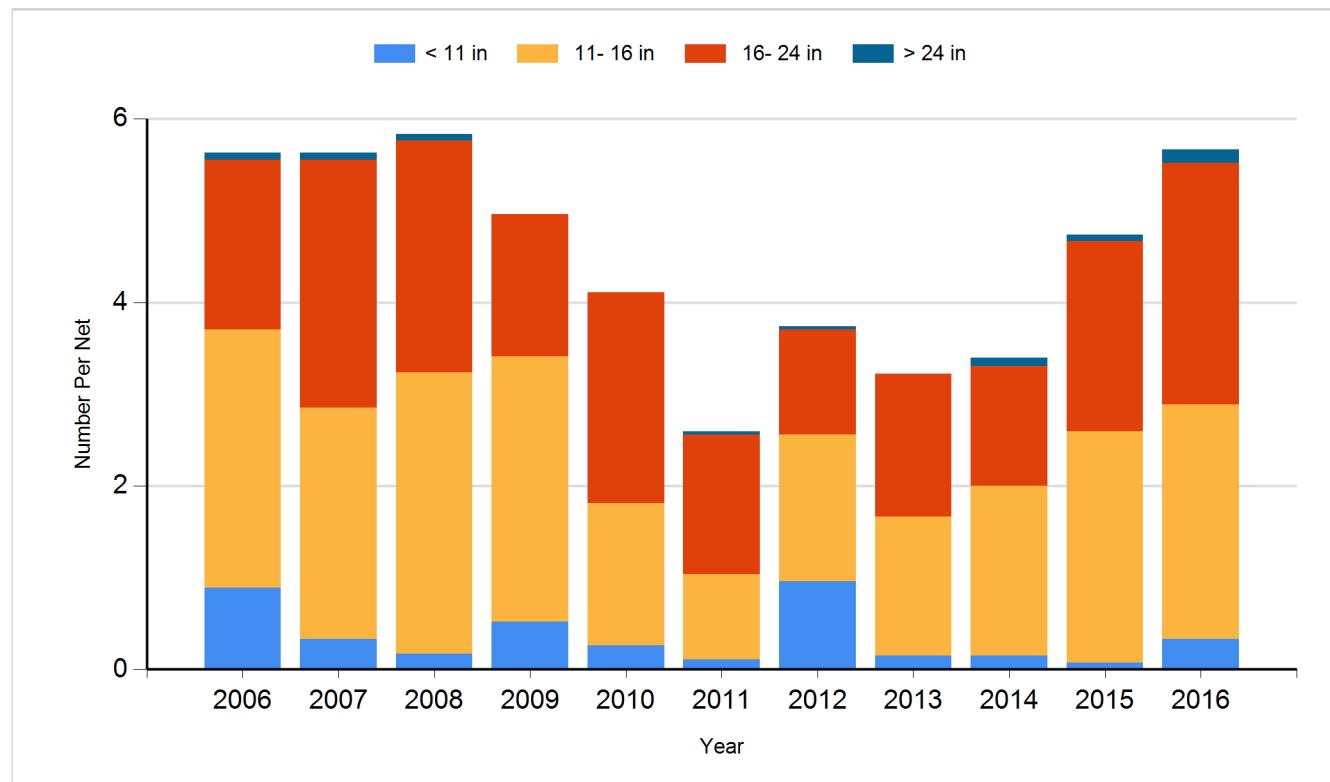
Species: Channel Catfish

Gear: AFS std gill net

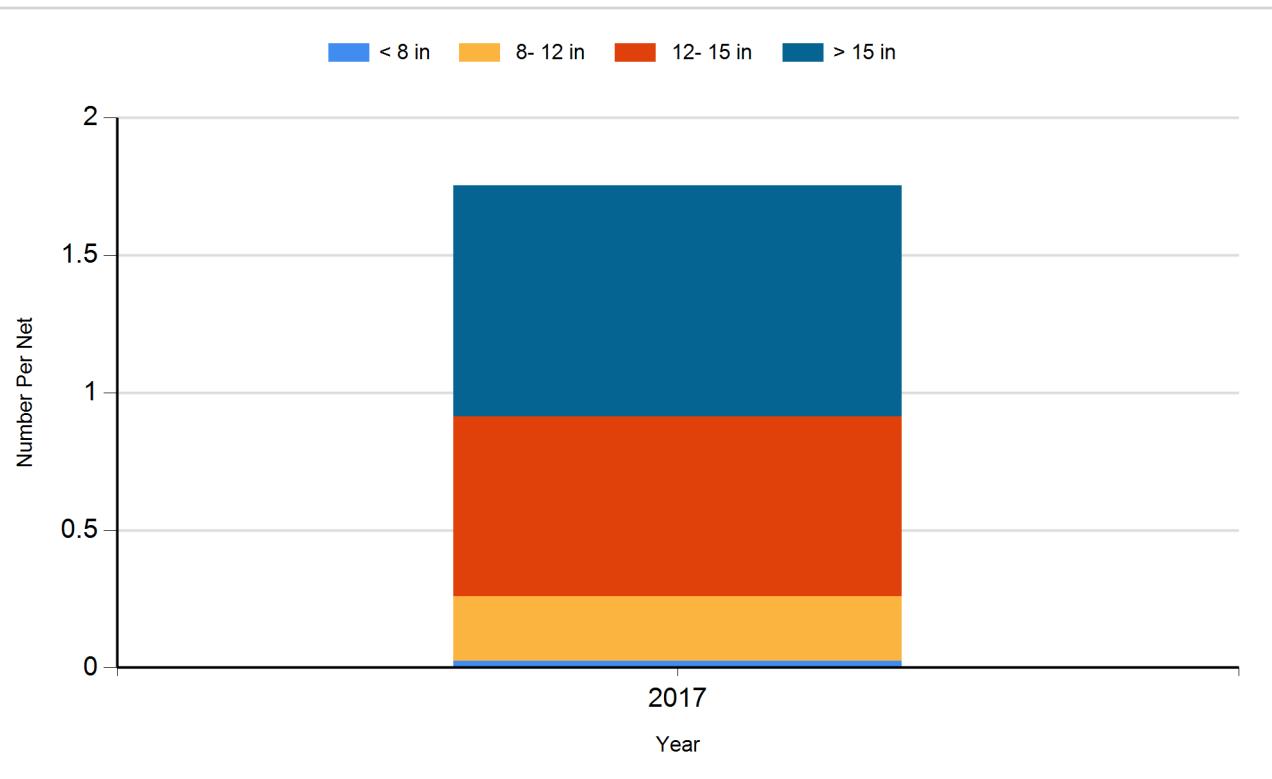


Species: Channel Catfish

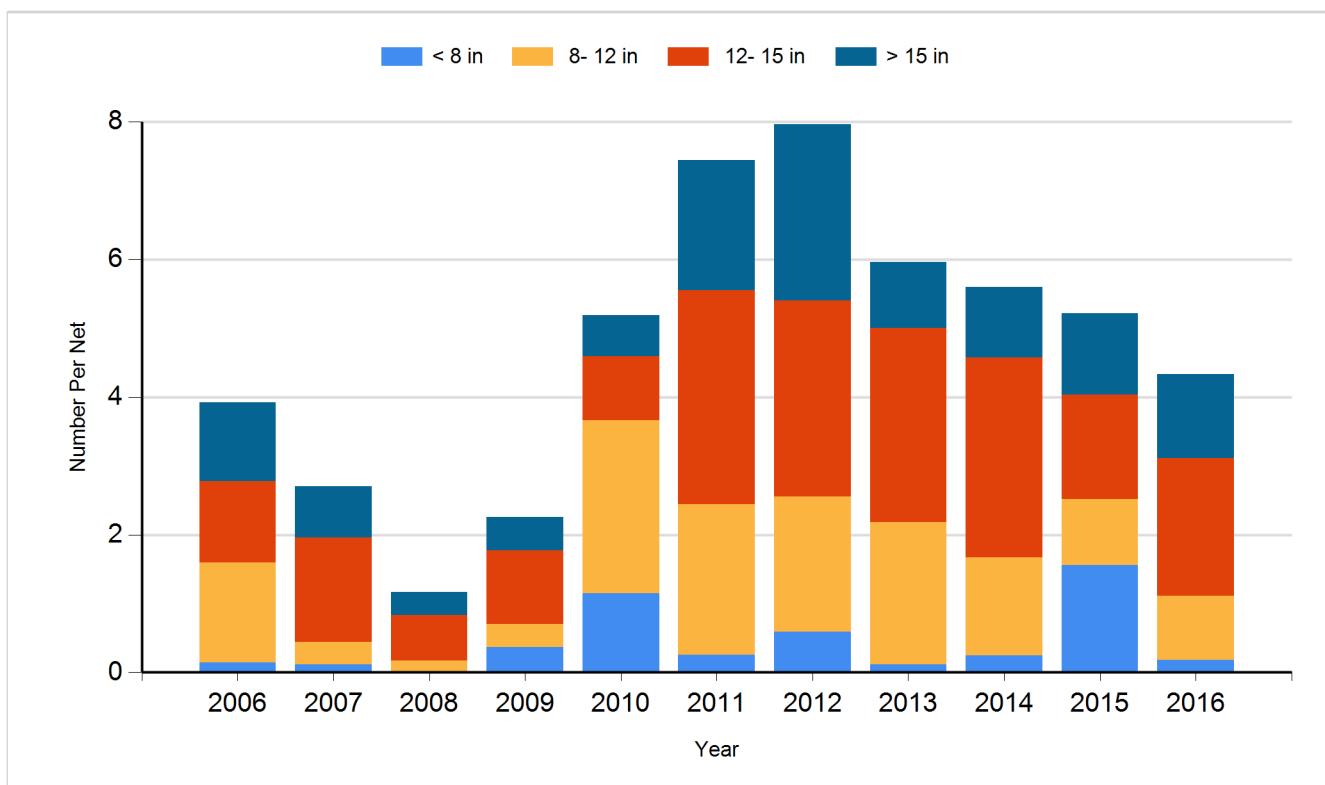
Gear: std exp gill net



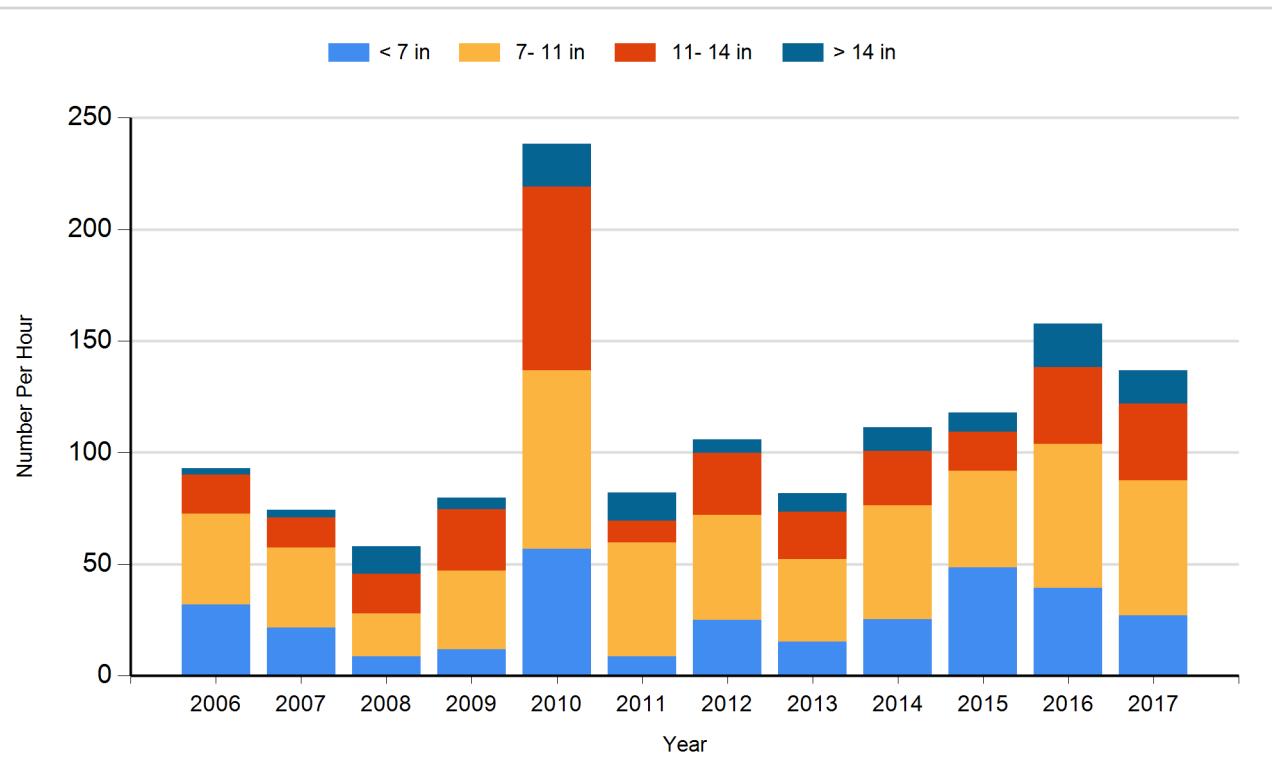
Species: Sauger
Gear: AFS std gill net



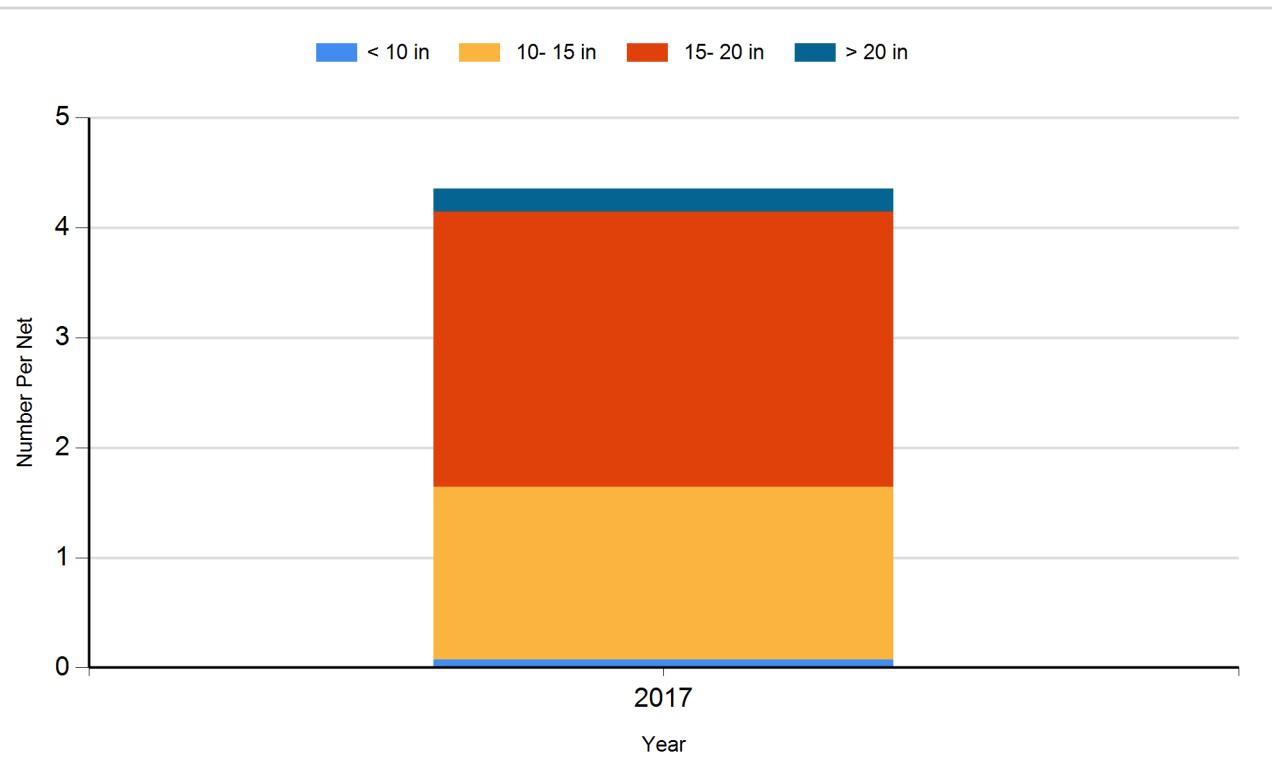
Species: Sauger
Gear: std exp gill net



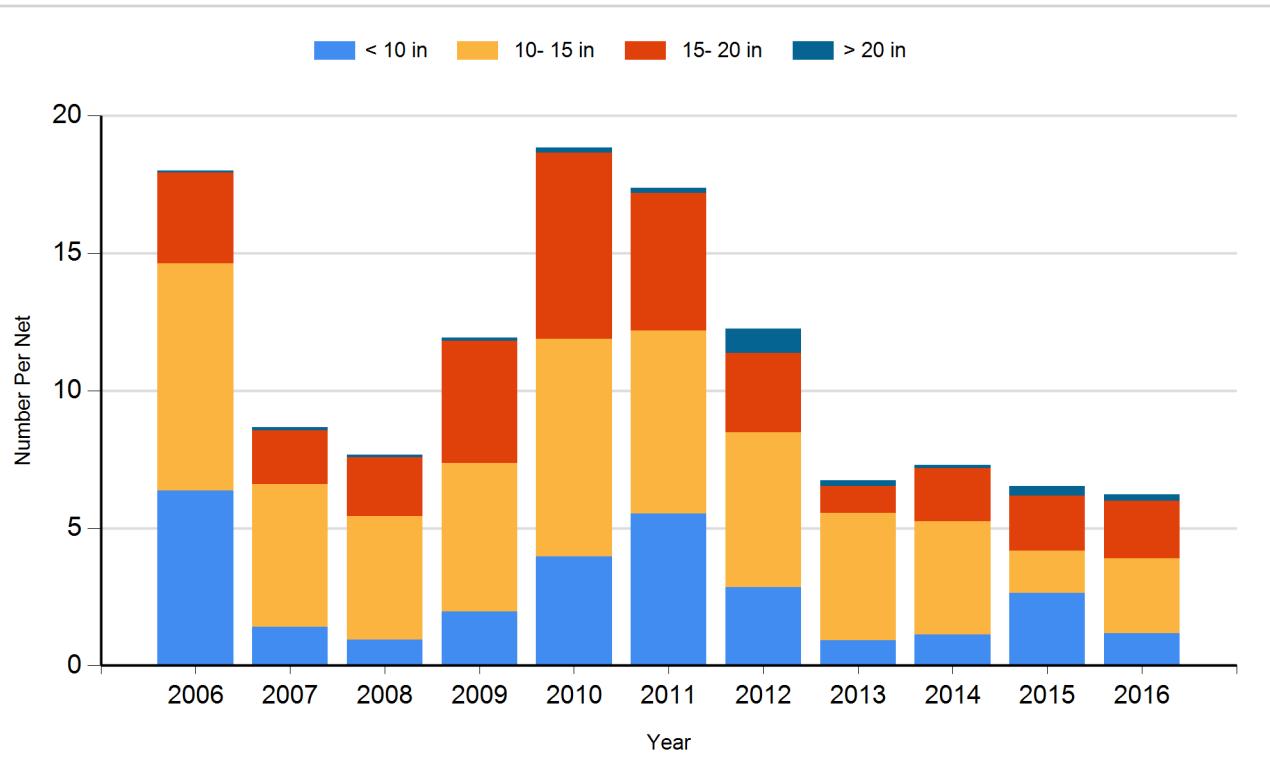
Species: Smallmouth Bass
Gear: boat shocker (night)



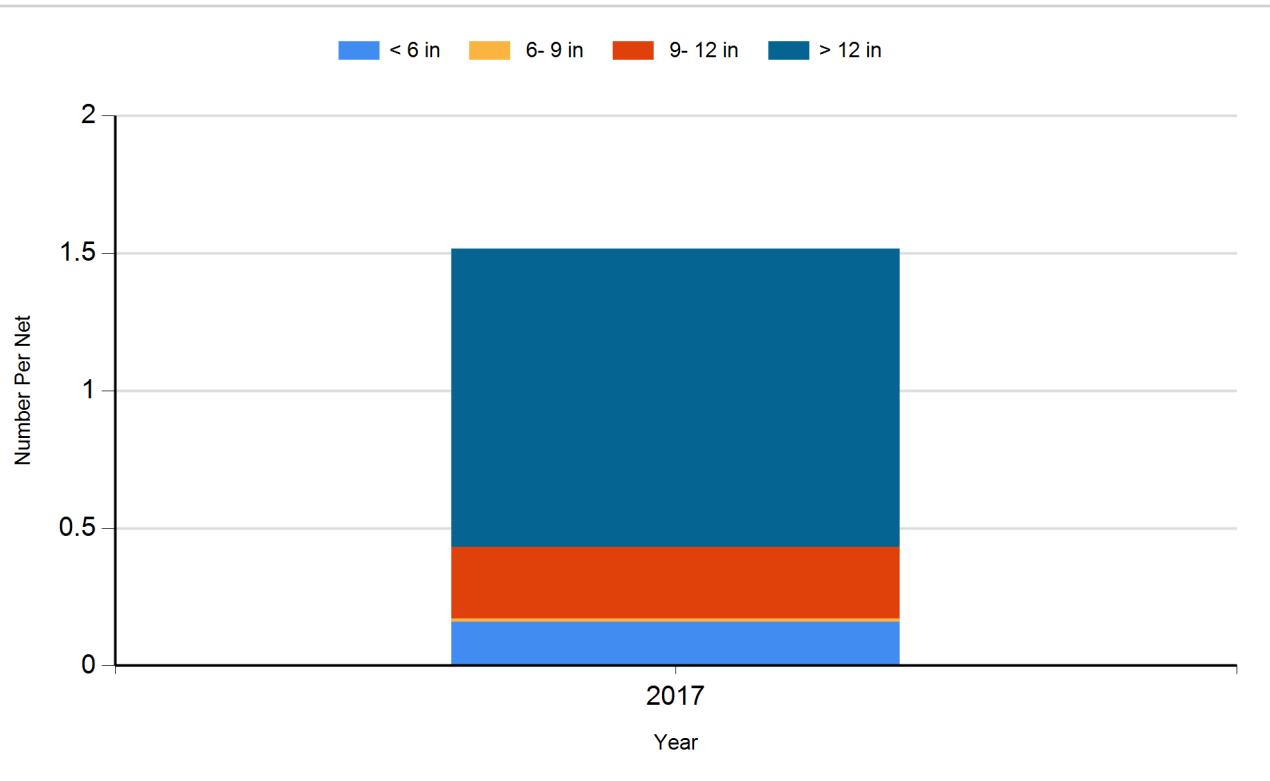
Species: Walleye
Gear: AFS std gill net



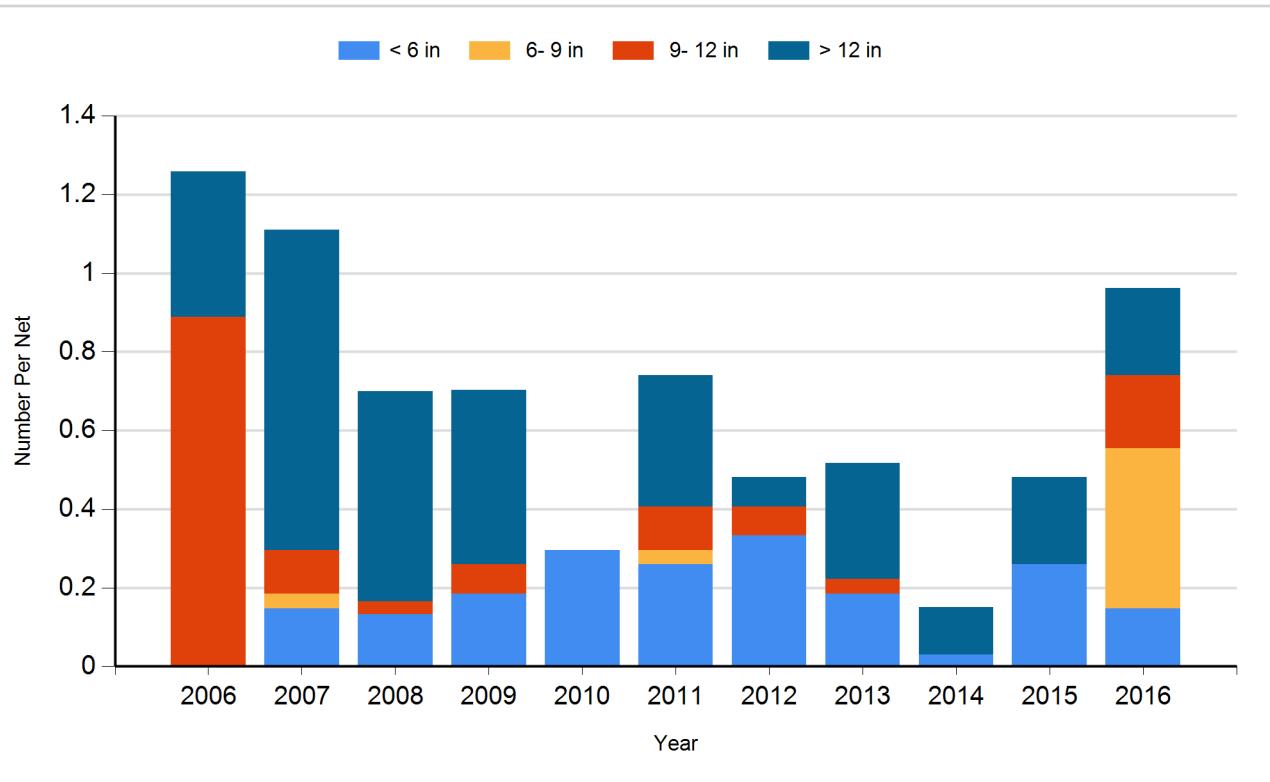
Species: Walleye
Gear: std exp gill net



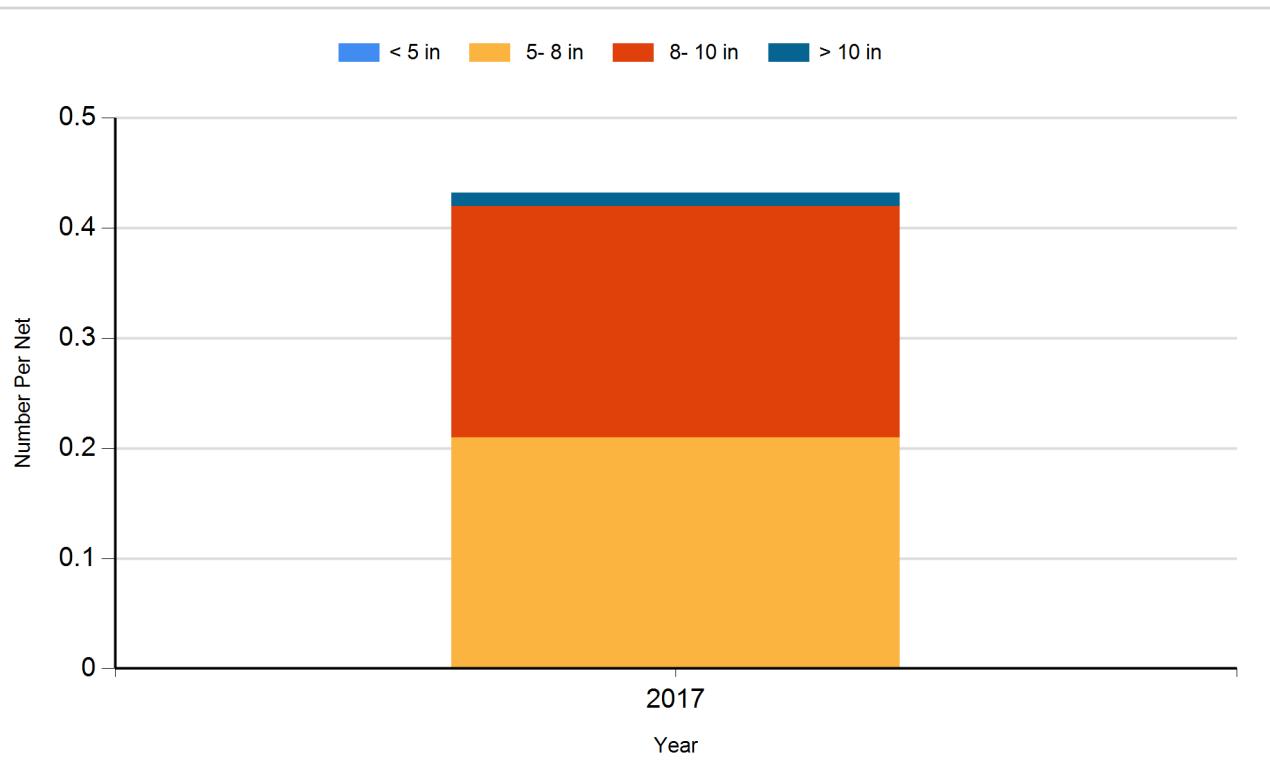
Species: White Bass
Gear: AFS std gill net



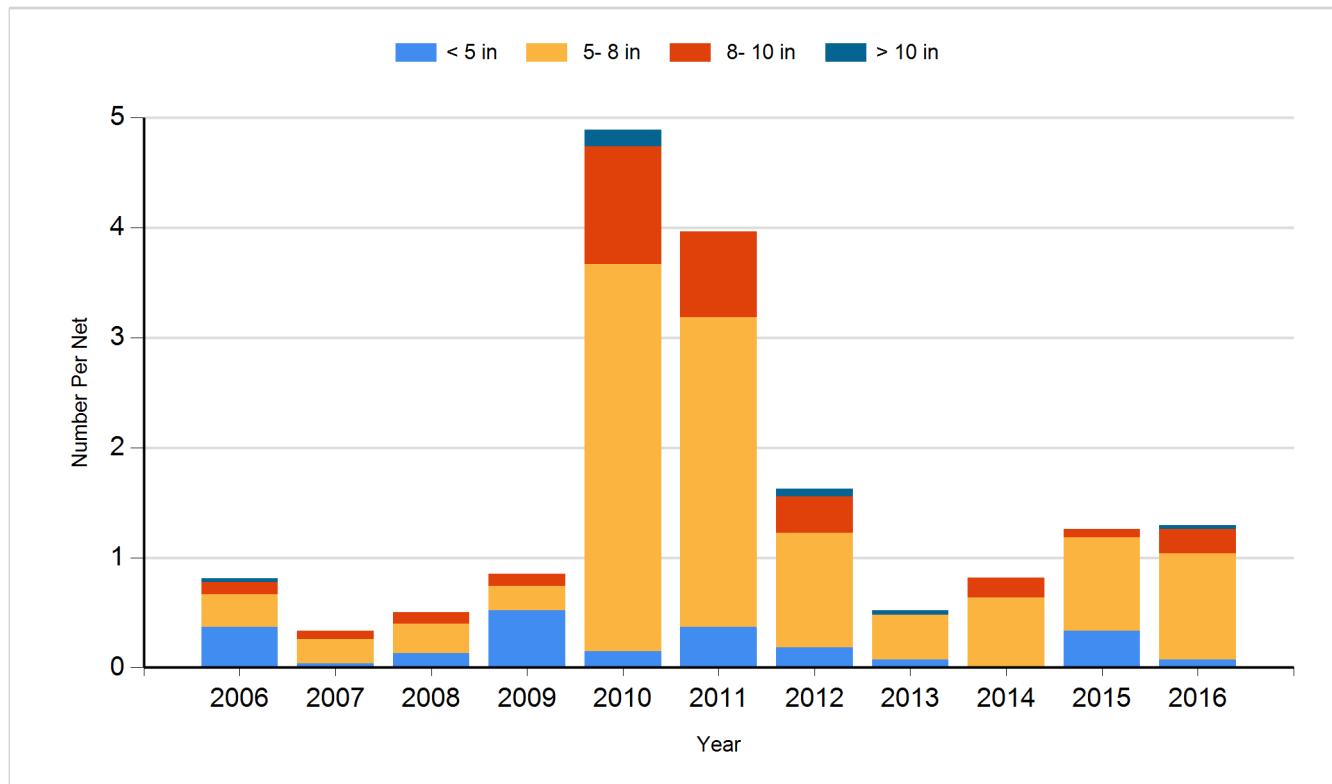
Species: White Bass
Gear: std exp gill net



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
2006	Paddlefish	Fingerling	15,567
2007	Paddlefish	Fingerling	27,462
2008	Paddlefish	Large Fingerling	7,140
2012	Paddlefish	Large Fingerling	1,896
2013	Paddlefish	Large Fingerling	3,750
2014	Paddlefish	Juvenile	3,980
2015	Paddlefish	Large Fingerling	31,862