

**SOUTH DAKOTA STATEWIDE FISHERIES SURVEY**  
**Oahe Upper, Campbell County**  
**ULO-Lake-933-000**  
**2023**

**Lake Information**

**Name:** Oahe Upper  
**County:** Campbell  
**Surface Area:** 124,724 Acres

**Surveys and Investigations**

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

Gear	Date	Effort
AFS std gill net	Sep 06, 2023	24 net-nights
AFS std gill net	Sep 07, 2023	25 net-nights
AFS std gill net	Sep 08, 2023	24 net-nights
AFS std gill net	Sep 15, 2023	24 net-nights
AFS std gill net	Sep 26, 2023	24 net-nights

## **Common Fish Species Present**

Channel Catfish

Walleye

Smallmouth Bass

Freshwater Drum

Yellow Perch

Shorthead Redhorse

White Bass

Common Carp

River Carpsucker

Northern Pike

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## Terminology

Catch per unit effort (**CPUE**) refers to the relative abundance of a species. It is defined as the number of fish captured per unit of effort (i.e., number of fish captured per net-night or number of fish captured per hour electrofishing). In this report CPUE is typically given for only stock-length fish (see length categories table for stock lengths).

A statewide effort to help make netting efforts comparable to all waters sampled across the state, occurred in 2017, with a switch to American Fisheries Society gill nets. Past gill netting efforts were completed with different style/types of nets and are not comparable side by side.

- **AFS std gill net** – 80 ft experimental gill net containing eight panels (10 ft each) of varying monofilament meshes of 0.75, 1.00, 1.25, 1.50, 1.75, 2.00, 2.25 and 2.50 inches.
- **std experimental gill net for non-Missouri River waters** - 150 ft experimental gill net containing six panels (25 ft each) of varying monofilament meshes of 0.5, 0.75, 1.00, 1.25, 1.50 and 2.00 inches.
- **std experimental gill net for Missouri River reservoirs** – 300 ft experimental gill net containing six panels (50 ft each) of varying multifilament meshes of 0.5, 0.75, 1.00, 1.25, 1.50 and 2.00 inches.

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

Population size structure is quantified using the indices proportional size distribution of quality-length fish (**PSD**) and proportional size distribution of preferred-length fish (**PSD-P**). These indices indicate the proportion of stock-length fish that are equal to or greater than a given length. Minimum lengths for stock, quality and preferred length fish are given in the length categories table.

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

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

Relative weight (**Wr**) is used to quantify fish plumpness. Relative weight is the ratio of what a fish weighs (**W**) compared to a length-specific standard weight (**Ws**) multiplied by 100. Relative weight values of 95-105 are commonly cited as optimum values, but values in the 80s are common during summer sampling in South Dakota.

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

Confidence intervals (CI) are provided for many of the estimates calculated in this report. The confidence interval provides a range in which the true mean is expected to fall. For example, with an 80% CI we are 80% confident that the interval contains the true value.

Length categories include stock (S), quality (Q), preferred (P), memorable (M) and trophy (T). Length categories for most species have been defined based on a percentage of the world record length for that species. Some species mentioned in this report do not have defined length categories. Length categories for species used in this report are provided in the following table. Measurements are the minimum total length for each category and are reported in inches (in) and centimeters (cm).

Species Name	Stock		Quality		Preferred		Memorable		Trophy	
	(in)	(cm)	(in)	(cm)	(in)	(cm)	(in)	(cm)	(in)	(cm)
Black Bullhead	6	15	9	23	12	30	15	38	18	46
Black Crappie	5	13	8	20	10	25	12	30	15	38
Bluegill	3	8	6	15	8	20	10	25	12	30
Brown Trout	8	20	12	30	16	40	20	50	18	46
Channel Catfish	11	28	16	41	24	61	28	71	36	91
Freshwater Drum	8	20	12	30	15	38	20	51	25	63
Lake Trout	12	30	20	50	26	65	31	80	39	100
Largemouth Bass	8	20	12	30	15	38	20	51	25	63
Muskellunge	20	51	30	76	38	97	42	107	50	127
Northern Pike	14	35	21	53	28	71	34	86	44	112
Pumpkinseed	3	8	6	15	8	20	10	25	12	30
Rainbow Trout	10	25	16	40	20	50	26	65	31	80
Rudd	6	15	10	25	12	30	15	38	19	48
Sauger	8	20	12	30	15	38	20	51	25	63
Smallmouth Bass	7	18	11	28	14	35	17	43	20	51
Walleye	10	25	15	38	20	51	25	63	30	76
White Bass	6	15	9	23	12	30	15	38	18	46
White Crappie	5	13	8	20	10	25	12	30	15	38
Yellow Bullhead	4	10	7	18	9	23	11	28	14	36
Yellow Perch	5	13	8	20	10	25	12	30	15	38

## Catch Summary of Stock Length Fish

Catch per unit effort (CPUE), proportional size distribution (PSD), proportional size distribution of preferred length fish (PSD-P), and relative weight (Wr) for species sampled in survey with 80% confidence interval (CI-80).

\* **Methods/Species that ignore stock length**

Gear	Species	Sample Size (n)	Abundance		Stock Density Indices			Condition		
			CPUE	CI-80	PSD	CI-80	PSD-P	CI-80	Wr	CI-80
AFS std gill net	Bigmouth Buffalo	2	0.0	0.0	50		50		106	
	Black Crappie	4	0.0	0.0	67		67		96	13
	Channel Catfish	629	5.0	0.6	80	2	2	1	83	1
	Common Carp	38	0.3	0.1	100		63	12	91	3
	Flathead Catfish	1	0.0	0.0	0		0		96	
	Freshwater Drum	71	0.6	0.1	100		65	8	95	2
	Gizzard Shad	3	0.0	0.0	0				114	
	Goldeye	58	0.0	0.0						
	Northern Pike	14	0.1	0.0	100		93		87	4
	Redhorse	5	0.0	0.0						
	River Carpsucker	23	0.2	0.1	100		91		107	3
	Sauger	3	0.0	0.0	67		0		73	8
	Shorthead Redhorse	54	0.4	0.1	98		63	10	94	1
	Shortnose Gar	5	0.0	0.0						
	Smallmouth Bass	106	0.9	0.2	88	5	64	7	105	1
	Smallmouth Buffalo	5	0.0	0.0	75		25		72	7
	Walleye	529	4.0	0.4	40	3	4	1	87	3
	White Bass	63	0.4	0.1	90		88	7	106	2
	White Crappie	1	0.0	0.0	0		0			
	Yellow Perch	61	0.5	0.1	44	9	11	6	93	5

## 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.

\* Methods/Species that ignore stock length

Gear	Species	CPUE										Avg	
		2014	2015	2016	2017	2018	2019	2020	2021	2022	2023		
AFS gill net (1/2 inch)*	Bigmouth Buffalo				0.0	0.0	0.0	0.0	0.0				0.00
	Black Crappie				0.0	0.0	0.0	0.0	0.0				0.00
	Channel Catfish				0.1	0.0	0.0	0.0	0.1				0.04
	Common Carp				0.0	0.0	0.1	0.1	0.1				0.06
	Emerald Shiner				0.0	0.0	0.0	0.0	0.0				0.00
	Freshwater Drum				0.0	0.0	0.0	0.1	0.1				0.04
	Gizzard Shad				1.3	0.0	0.0	0.0	0.0				0.26
	Goldeye				0.0	0.0	0.0	0.0	0.0				0.00
	Northern Pike				0.0	0.0	0.0	0.0	0.0				0.00
	Sauger				0.0	0.0	0.0	0.0	0.0				0.00
	Shorthead Redhorse				0.0	0.0	0.0	0.0	0.0				0.00
	Shortnose Gar				0.0	0.0	0.0	0.0	0.0				0.00
	Smallmouth Bass				0.0	0.0	0.0	0.1	0.0				0.02
	Spottail Shiner				0.1	0.0	0.7	0.2	0.3				0.26
	Walleye				0.5	0.2	0.6	1.0	0.5				0.56
	White Bass				0.3	0.0	0.1	0.1	0.3				0.16
White Crappie				0.1	0.0	0.0	0.0	0.0				0.02	
Yellow Perch				0.4	0.2	0.9	0.2	0.1				0.36	
AFS std gill net	Bigmouth Buffalo				0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.01
	Black Bullhead				0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00
	Black Crappie				0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00
	Carp sucker				0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00
	Channel Catfish				9.9	5.4	5.8	6.8	6.7	6.9	5.0	6.64	
	Common Carp				0.2	0.3	0.6	0.4	0.3	0.3	0.3	0.3	0.34
	Flathead Catfish				0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00
	Freshwater Drum				1.1	0.5	0.8	0.9	1.1	0.2	0.6	0.74	
	Gizzard Shad				0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.01
	Goldeye				0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00
	Lake Herring				0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00
	Northern Pike				0.2	0.1	0.2	0.1	0.1	0.2	0.1	0.14	
	Redhorse				0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00
	River Carpsucker				0.3	0.3	0.2	0.2	0.3	0.3	0.2	0.26	
	Sauger				0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.04
	Shorthead Redhorse				0.2	0.3	0.3	0.5	0.2	0.6	0.4	0.36	

Gear	Species	CPUE										
		2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	Avg
AFS std gill net	Shortnose Gar				0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00
	Smallmouth Bass				0.2	0.7	1.0	1.0	0.7	1.0	0.9	0.79
	Smallmouth Buffalo				0.1	0.1	0.1	0.0	0.0	0.1	0.0	0.06
	Walleye				2.7	2.2	2.2	1.8	1.8	2.1	4.0	2.40
	White Bass				0.2	0.0	0.0	0.1	0.4	0.4	0.4	0.21
	White Crappie				0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.01
	White Sucker				0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.01
	Yellow Perch				0.7	0.6	1.0	1.2	0.7	0.5	0.5	0.74
boat shocker (night)	Walleye*				81.5			139.7				110.6 0
fall night EF- WAE*	Walleye						64.9					64.90
large seine*	Brassy Minnow	0.2	0.1	0.0	0.0	0.0	0.7					0.17
	Lake Herring	0.0	0.1	0.0	0.0	0.0	1.1					0.20
	Walleye	5.6	0.5	0.2	0.1	0.6	0.8					1.30
std exp gill net	Bigmouth Buffalo	0.2	0.0	0.0								0.07
	Black Crappie	0.1	0.0	0.2								0.10
	Channel Catfish	12.7	13.5	20.0								15.40
	Common Carp	1.3	0.9	2.0								1.40
	Freshwater Drum	1.3	0.8	1.3								1.13
	Goldeye	0.0	0.0	0.0								0.00
	Lake Herring	0.0	0.0	0.1								0.03
	Northern Pike	0.3	0.5	0.9								0.57
	River Carpsucker	0.4	0.6	0.3								0.43
	Sauger	0.6	0.1	0.1								0.27
	Shorthead Redhorse	2.2	0.7	0.3								1.07
	Shortnose Gar	0.0	0.0	0.0								0.00
	Smallmouth Bass	0.3	0.6	1.1								0.67
	Smallmouth Buffalo	0.1	0.2	0.3								0.20
	Walleye	13.6	9.3	7.4								10.10
	White Bass	0.3	0.8	0.3								0.47
	White Crappie	0.4	0.1	0.2								0.23
	White Sucker	0.1	0.1	0.2								0.13
	Yellow Perch	2.9	2.9	1.8								2.53
	suspended gill net*	Channel Catfish					1.0					
Lake Herring						175.0						175.0 0
Rainbow Smelt						9.5						9.50

## 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									
			2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
AFS std gill net	Channel Catfish	PSD				53	65	71	71	86	88	80
		PSD-P				4	3	4	1	1	1	2
		Wr				81	84	85	86	83	80	83
	Common Carp	PSD				100	100	100	100	97	100	100
		PSD-P				54	82	80	85	53	73	63
		Wr				91	81	79	86	88	89	91
	Northern Pike	PSD				100	100	100	100	85	100	100
		PSD-P				38	80	61	78	38	84	93
		Wr				88	88	91	92	96	94	87
	River Carpsucker	PSD				100	100	100	100	100	100	100
		PSD-P				93	100	90	100	95	100	91
		Wr				103	103	95	98	113	108	107
	Shorthead Redhorse	PSD				91	93	100	100	88	94	98
		PSD-P				36	48	82	84	71	58	63
		Wr				94	93	95	93	96	87	94
	Smallmouth Bass	PSD				69	94	85	60	59	86	88
		PSD-P				23	33	46	28	24	38	64
		Wr				94	97	96	103	94	97	105
	Walleye	PSD				20	32	30	26	19	19	40
		PSD-P				0	8	7	4	8	7	4
		Wr				81	82	82	80	78	82	87
	White Bass	PSD				77	100	75	46	93	100	90
		PSD-P				46	100	50	31	24	100	88
		Wr				94	84	99	96	93	102	106
	Yellow Perch	PSD				64	74	49	40	64	89	44
		PSD-P				17	26	8	4	4	18	11
		Wr				85	92	102	94	88	87	93
boat shocker (night)	Walleye	PSD				0			22			
		PSD-P				0			0			
std exp gill net	Channel Catfish	PSD	39	60	66							
		PSD-P	3	10	3							
		Wr	85	83	81							



Gear	Species	Index	Year									
			2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
std exp gill net	Common Carp	PSD	100	100	100							
		PSD-P	67	75	81							
		Wr	88	87	87							
	Northern Pike	PSD	80	11	76							
		PSD-P	60	0	6							
		Wr	86	80	88							
	River Carpsucker	PSD	100	90	100							
		PSD-P	100	90	100							
		Wr	103	98	98							
	Shorthead Redhorse	PSD	100	92	83							
		PSD-P	95	83	83							
		Wr	104	94	92							
	Smallmouth Bass	PSD	100	30	70							
		PSD-P	67	30	35							
		Wr	104	100	89							
	Walleye	PSD	28	24	16							
		PSD-P	2	0	2							
		Wr	85	83	80							
	White Bass	PSD	100	100	100							
		PSD-P	100	100	80							
		Wr	92	98	92							
Yellow Perch	PSD	37	29	61								
	PSD-P	8	2	15								
	Wr	99	93	90								
suspended gill net	Channel Catfish	PSD						100				
		PSD-P						50				

## Length at Capture

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

Species: Walleye

Mean Length (expanded sample number) at capture by age											
Year	N	1	2	3	4	5	6	7	8	9	10+
2022	286	232 (15)	261 (37)	301 (132)	335 (57)	381 (11)	468 (11)	515 (2)	464 (11)	571 (3)	682 (6)
2021	315	214 (19)	241 (126)	301 (109)	356 (27)	424 (13)	464 (6)	480 (5)	571 (2)	656 (2)	649 (9)
2020	254	207 (87)	281 (82)	318 (33)	386 (25)	413 (11)	441 (12)	604 (1)	651 (1)		746 (2)
2019	268	216 (68)	271 (58)	329 (57)	371 (35)	390 (29)	472 (3)	476 (2)	432 (1)		602 (17)
2018	231	207 (24)	279 (61)	337 (42)	381 (76)	422 (7)	512 (3)	552 (5)	643 (1)	569 (8)	566 (3)
2017	186	201 (31)	263 (28)	335 (101)	403 (18)	483 (1)	446 (4)	445 (1)	455 (4)		
2016	171	182 (14)	273 (126)	356 (11)	410 (5)	408 (6)	466 (6)	474 (3)			
2015	271	214 (112)	322 (47)	362 (62)	385 (20)	392 (7)	398 (24)				
2014	290	237 (56)	313 (50)	350 (35)	370 (21)	376 (125)	395 (1)	562 (3)	553 (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).

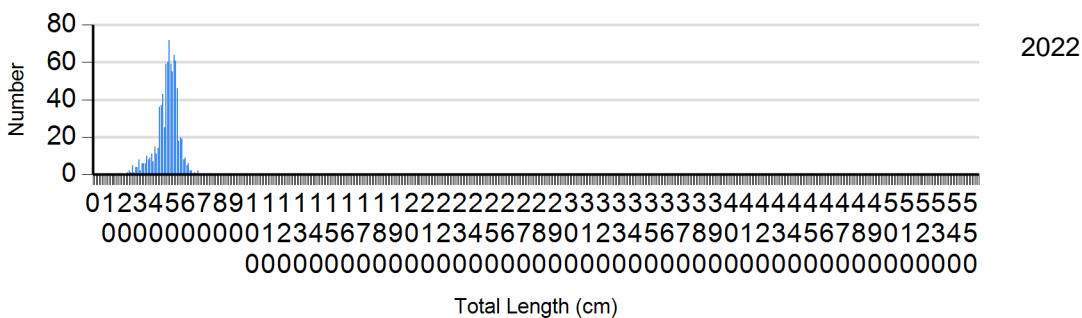
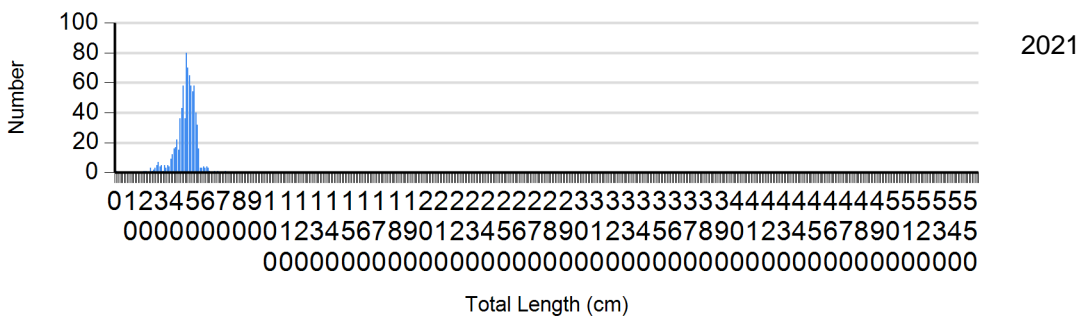
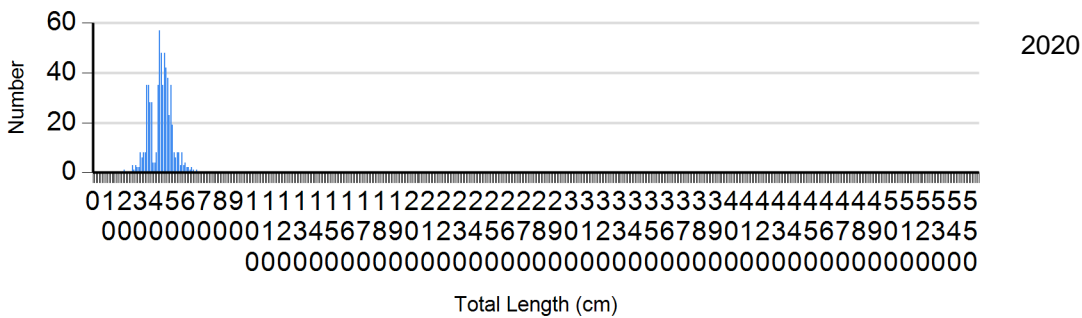
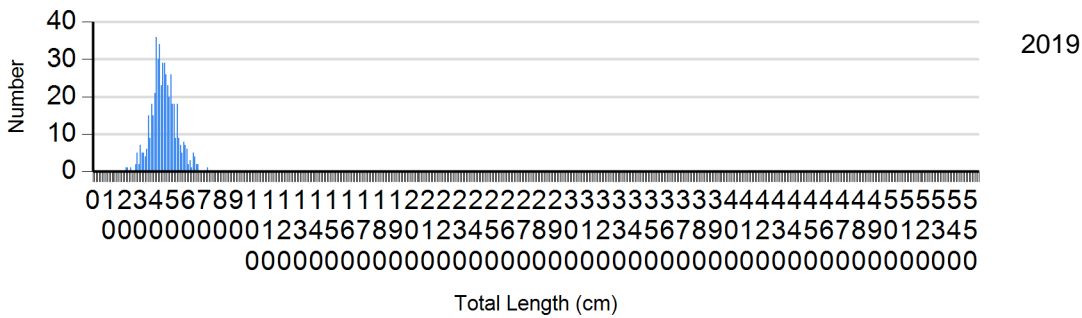
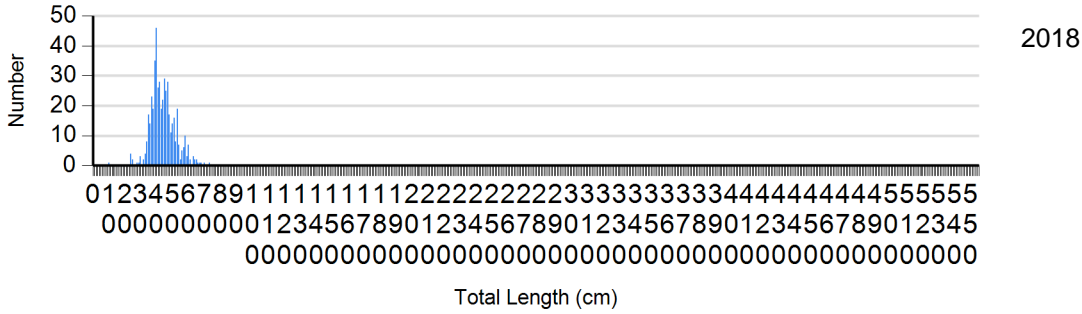
Species	Year	Length Groups							
		S-Q		Q-P		P-M		M	
		N	Wr (SE)	N	Wr (SE)	N	Wr (SE)	N	Wr (SE)
Channel Catfish Gill Net	2019	148	87 (0.6)	347	84 (0.4)	17	83 (3.4)	1	94
	2020	176	87 (0.5)	432	85 (0.5)	5	85 (6.3)	0	
	2021	110	87 (1.2)	681	82 (0.3)	3	87 (10.7)	1	111
	2022	103	83 (1.1)	716	80 (0.3)	7	86 (5.5)	0	
	2023	120	84 (1.4)	480	83 (0.4)	11	81 (3.3)	0	
Common Carp Gill Net	2019	0		10	76 (7.4)	38	79 (1.6)	2	91 (2.6)
	2020	0		6	88 (1.9)	32	85 (2.7)	1	100
	2021	1	86	17	91 (3.1)	19	88 (4.6)	1	50
	2022	0		11	91 (2.3)	29	88 (1.4)	0	
	2023	0		14	95 (6.1)	23	89 (1.5)	1	84
Northern Pike Gill Net	2019	0		7	87 (2.2)	10	95 (5.8)	1	74
	2020	0		2	86 (1.2)	6	93 (4.8)	1	97
	2021	2	81 (5.4)	6	98 (2.2)	3	101 (7.8)	2	100 (4.6)
	2022	0		3	82 (1.6)	14	96 (3.0)	2	103 (3.6)
	2023	0		1	96	8	90 (1.7)	5	79 (7.2)
Walleye Gill Net	2019	136	82 (0.4)	45	82 (0.9)	3	79 (6.1)	10	81 (3.2)
	2020	122	81 (0.6)	36	77 (0.8)	2	86 (4.4)	4	92 (4.4)
	2021	177	78 (0.5)	23	75 (0.9)	10	81 (2.0)	8	87 (3.0)
	2022	206	82 (0.4)	30	82 (1.4)	10	81 (2.7)	7	88 (3.2)
	2023	296	88 (4.0)	172	85 (0.5)	12	86 (1.6)	10	84 (4.7)
White Bass Gill Net	2019	1	99	1	116	0		2	91 (5.2)
	2020	7	97 (1.7)	2	92 (3.4)	2	102 (8.1)	2	87 (0.7)

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	2021	3	101 (4.1)	29	94 (1.0)	8	91 (1.5)	2	77 (6.8)
	2022	0		0		44	102 (0.8)	1	96
	2023	5	100 (4.3)	1	96	26	107 (2.4)	16	108 (1.7)
Yellow Perch Gill Net	2019	43	109 (10.5)	34	96 (1.4)	7	87 (1.4)	0	
	2020	62	97 (1.9)	38	90 (1.1)	4	84 (2.4)	0	
	2021	30	97 (7.7)	50	84 (1.8)	3	78 (4.3)	0	
	2022	7	86 (1.4)	44	87 (0.8)	11	86 (1.5)	0	
	2023	34	95 (6.5)	20	93 (1.7)	7	87 (4.2)	0	

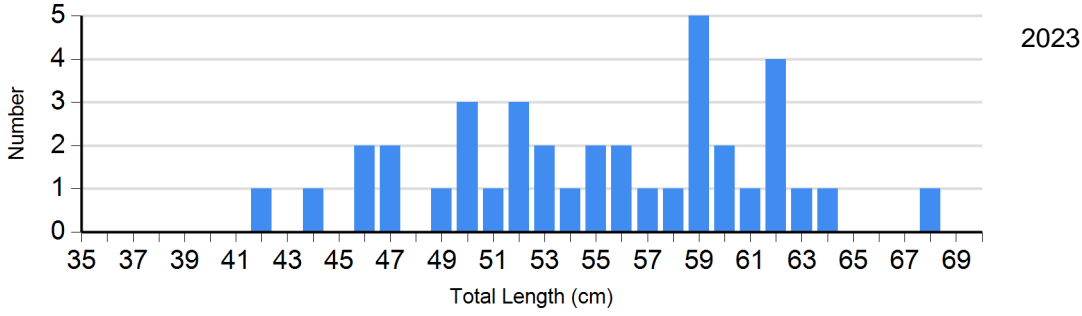
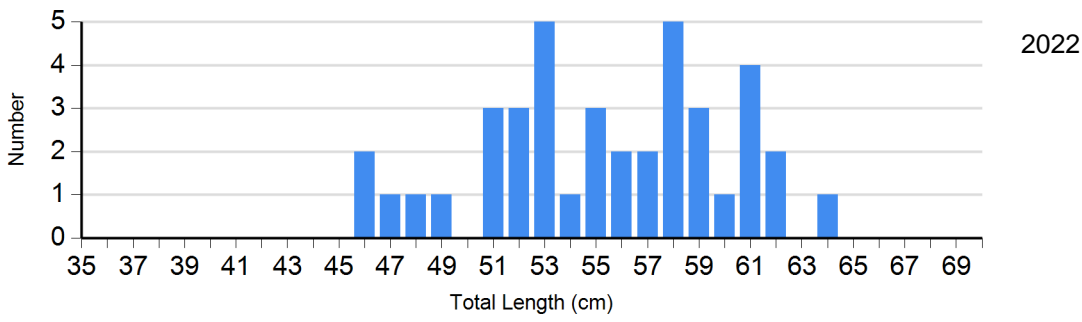
# Length Frequency Distribution

Length frequency histogram of species sampled by year.

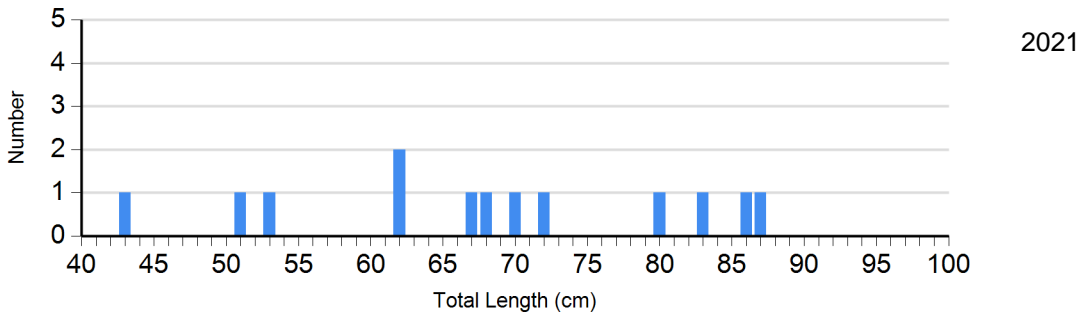
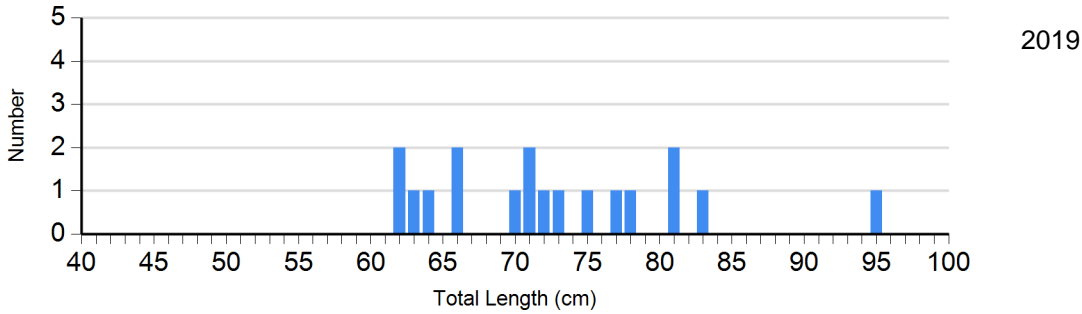
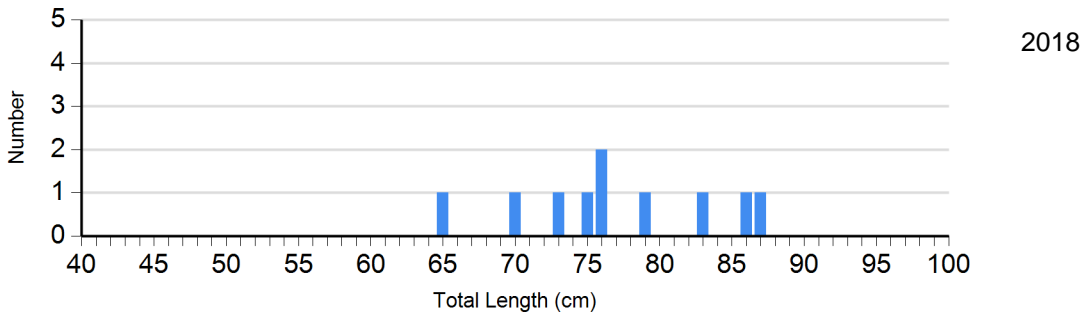
Species: Channel Catfish  
Gear: AFS std gill net

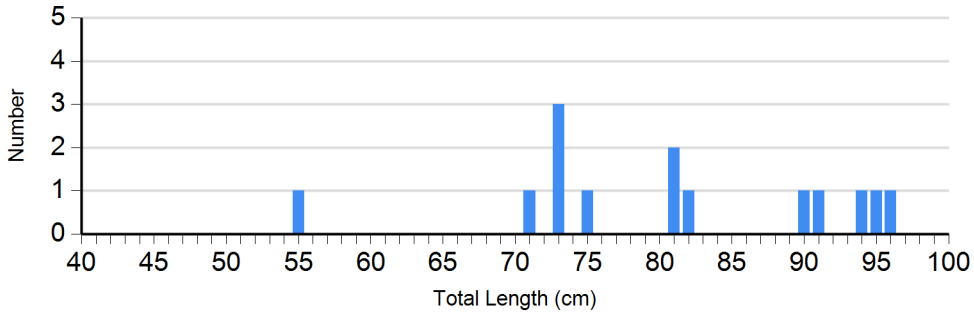
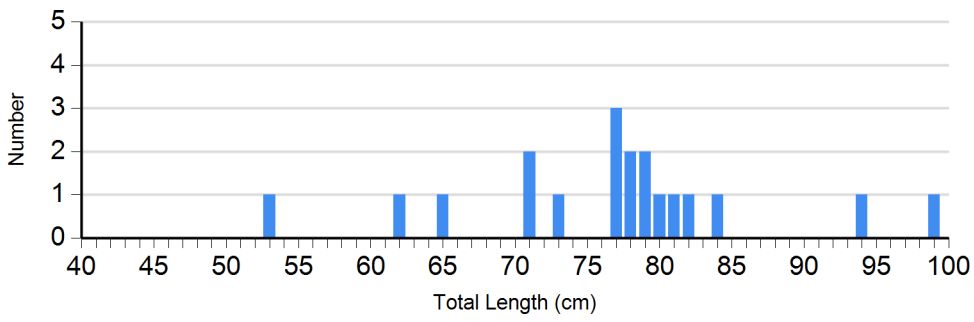




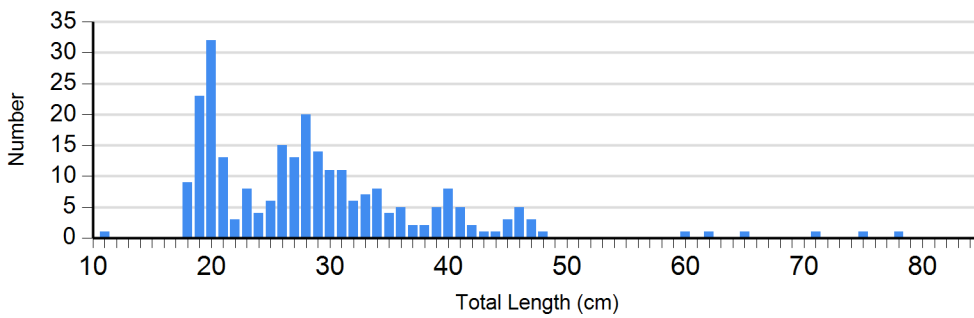
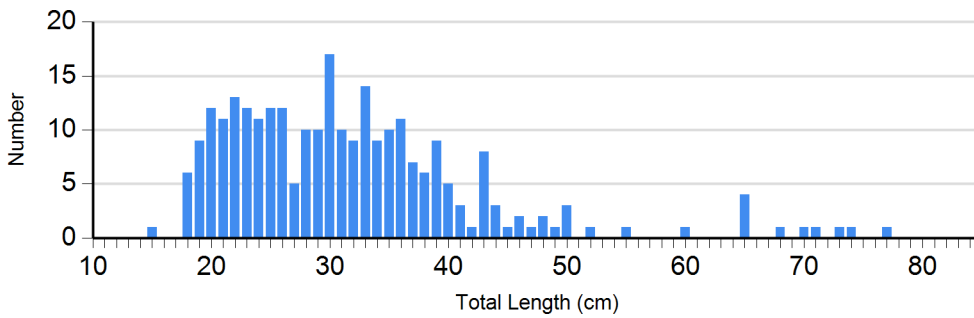
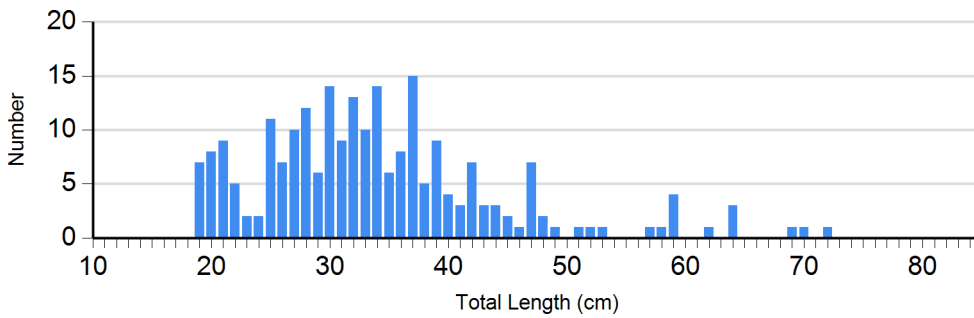


Species: Northern Pike  
 Gear: AFS std gill net

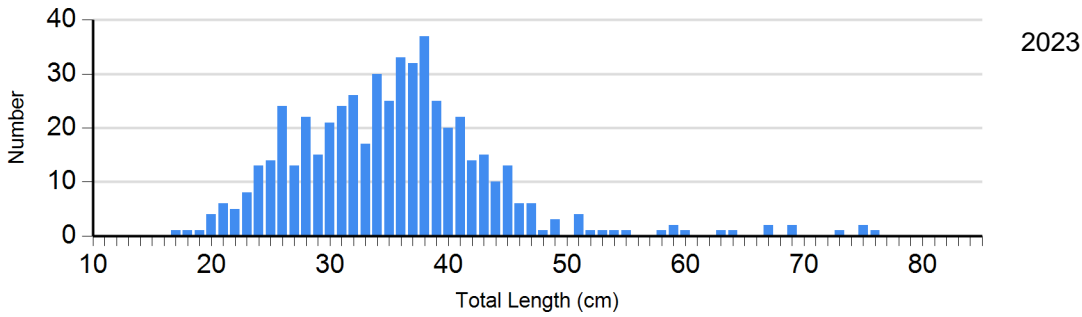
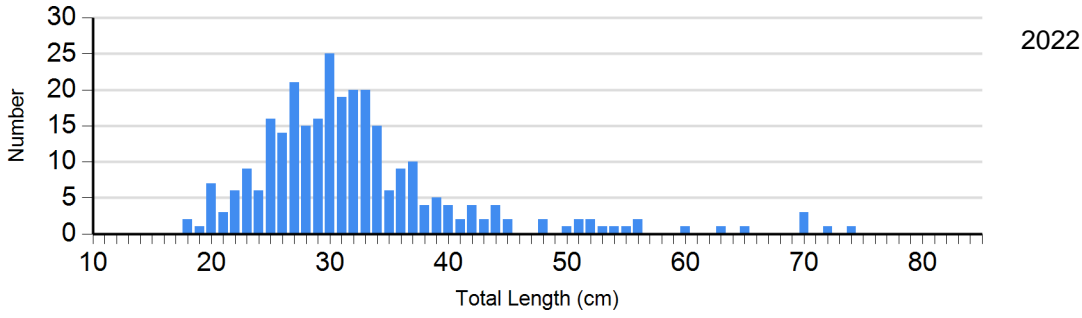
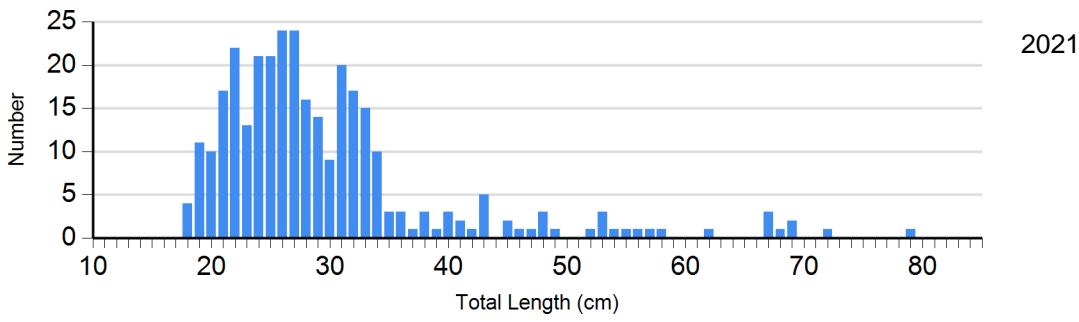




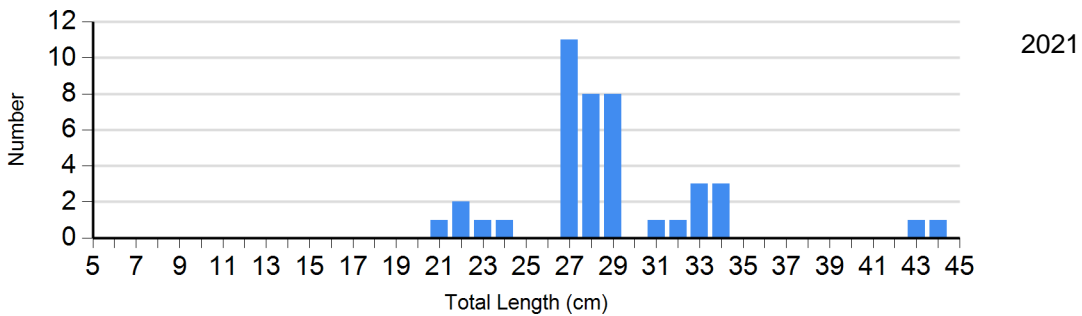
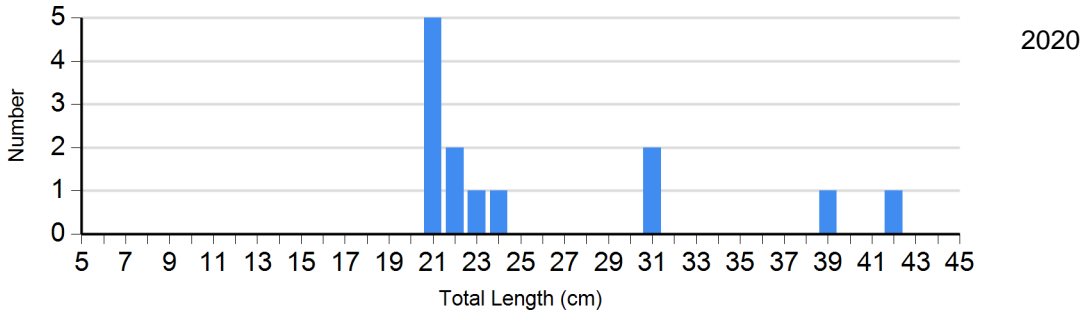
Species: Walleye  
Gear: AFS std gill net

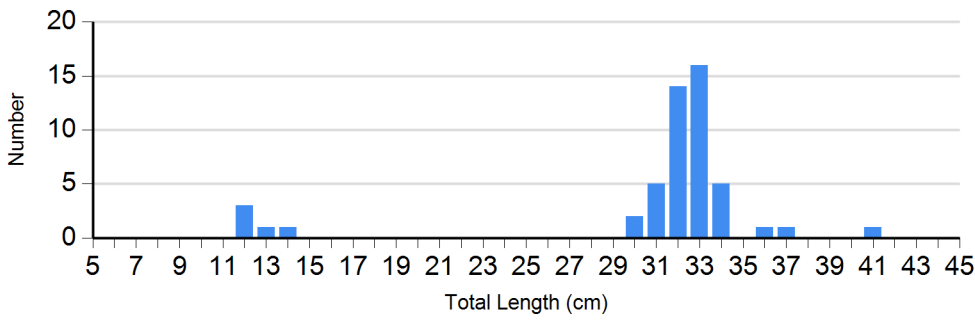




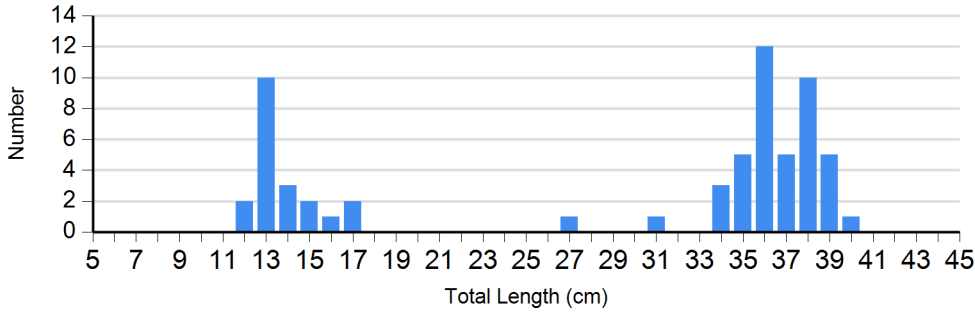


Species: White Bass  
Gear: AFS std gill net



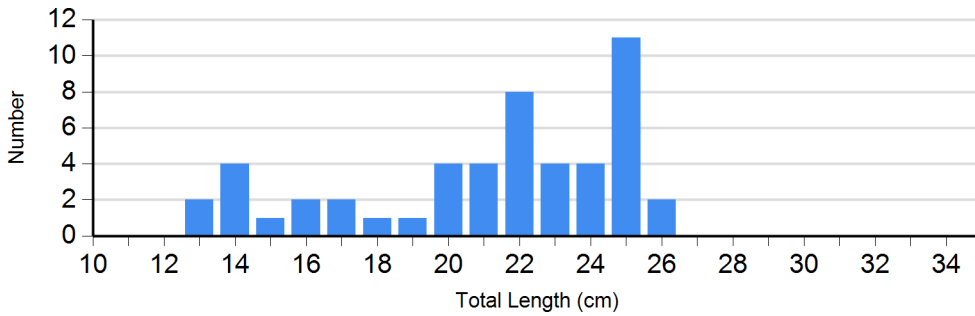


2022

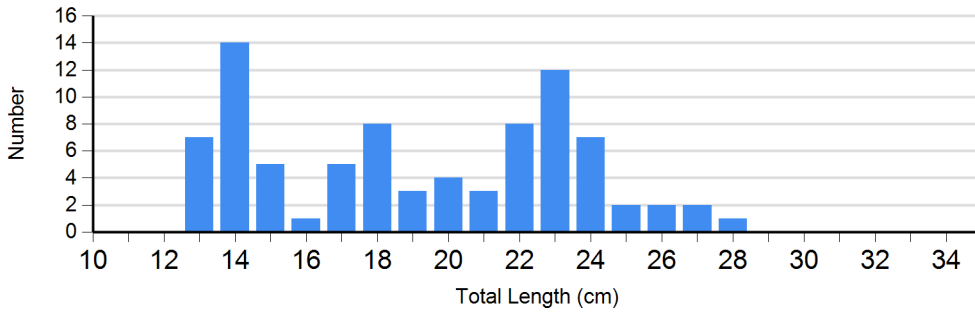


2023

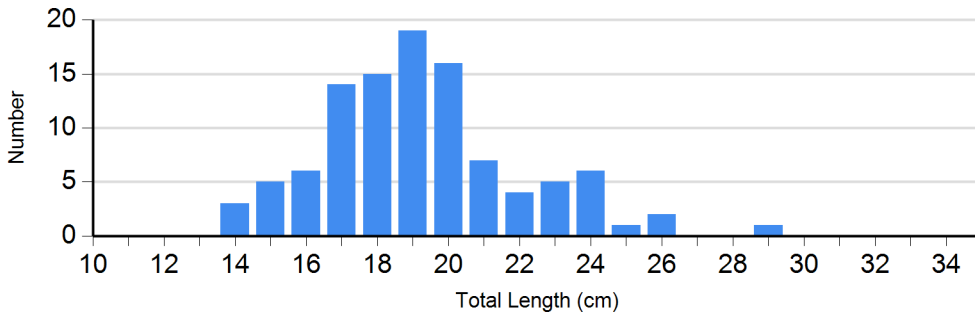
Species: Yellow Perch  
Gear: AFS std gill net



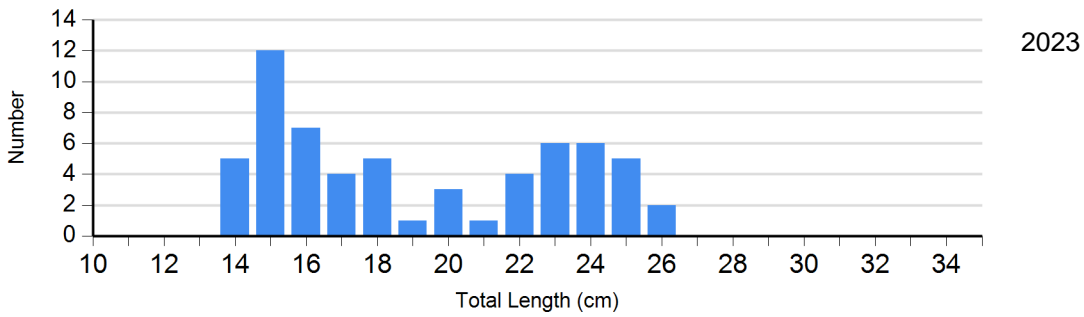
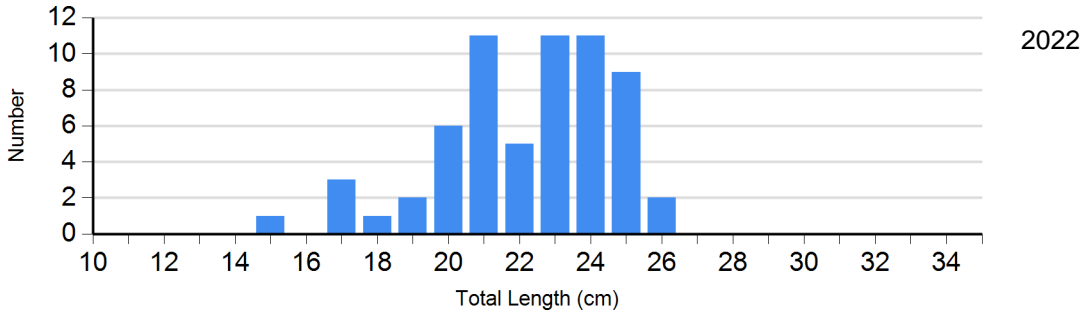
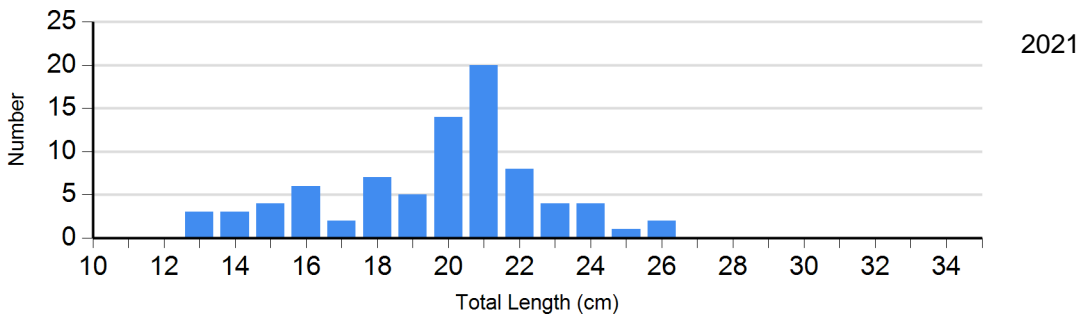
2018



2019



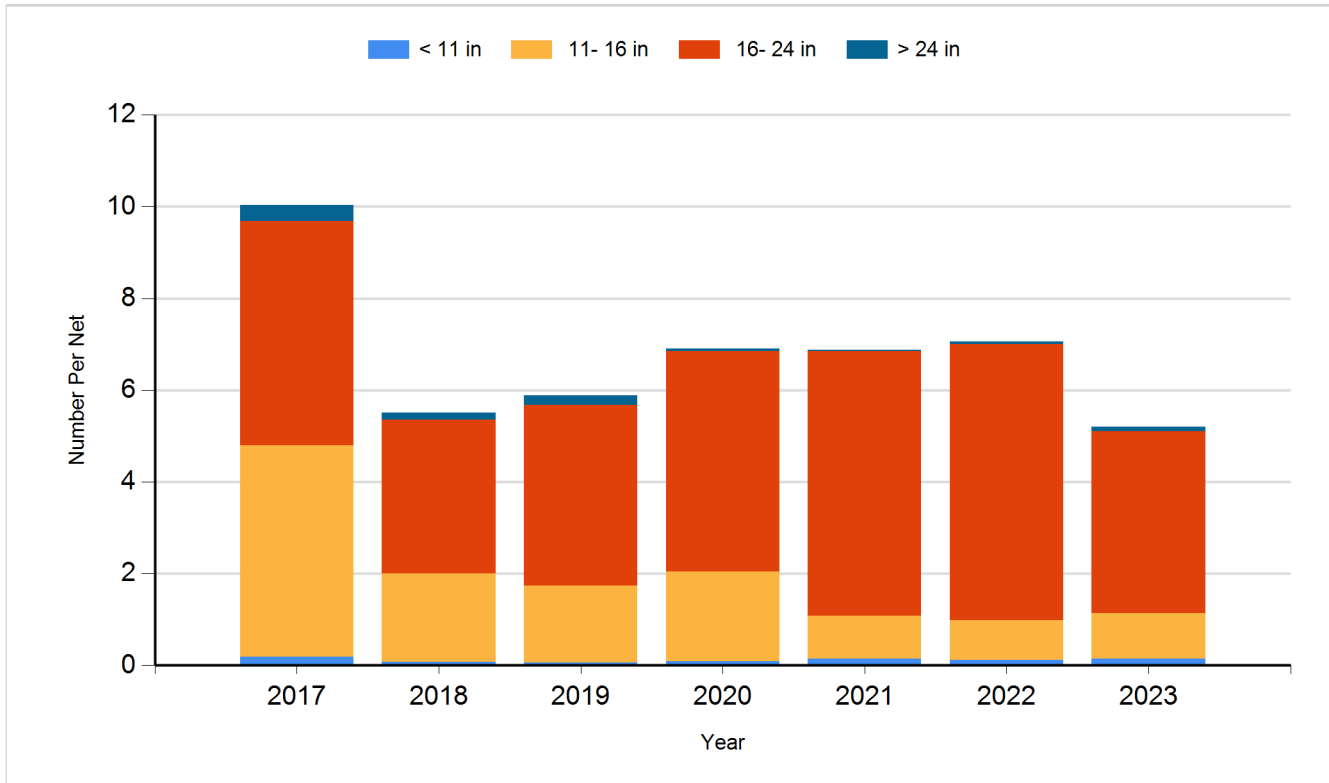
2020



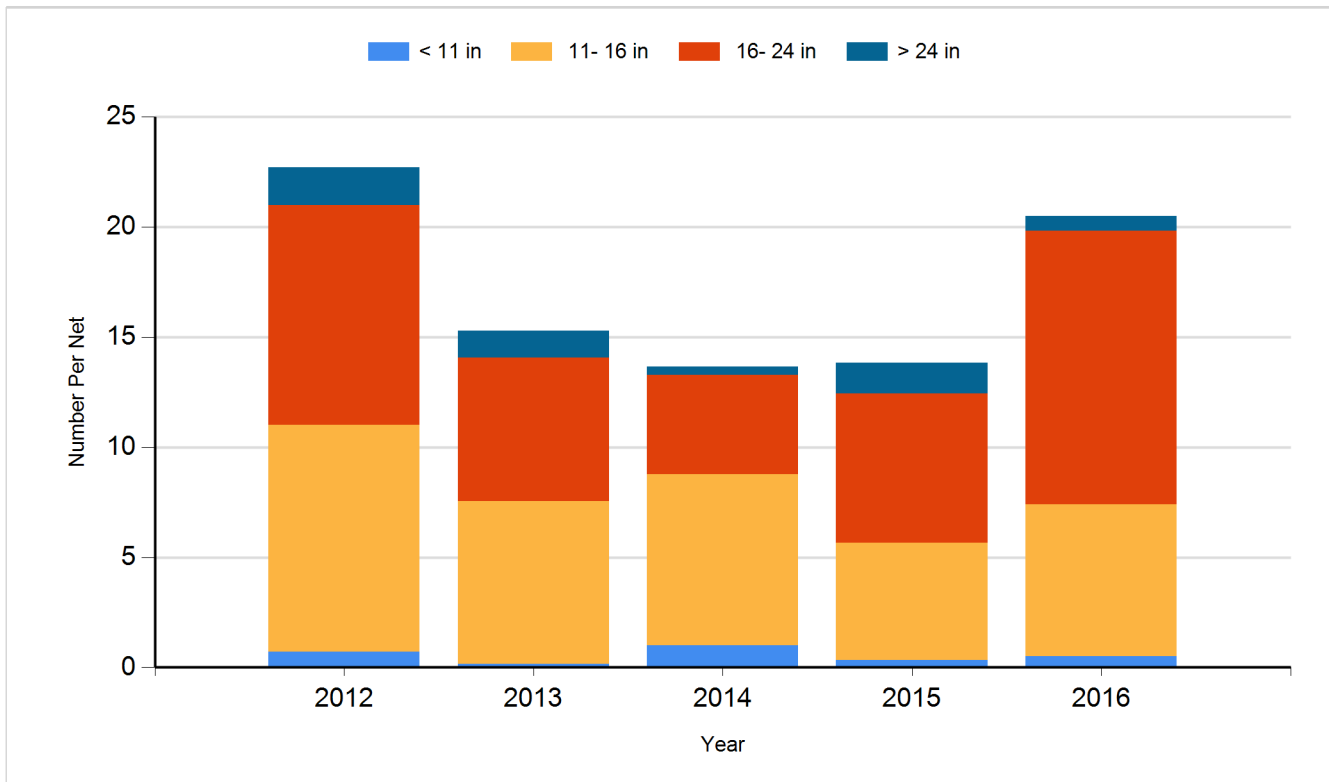
## Historic Fish Sizes and Relative Abundance

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

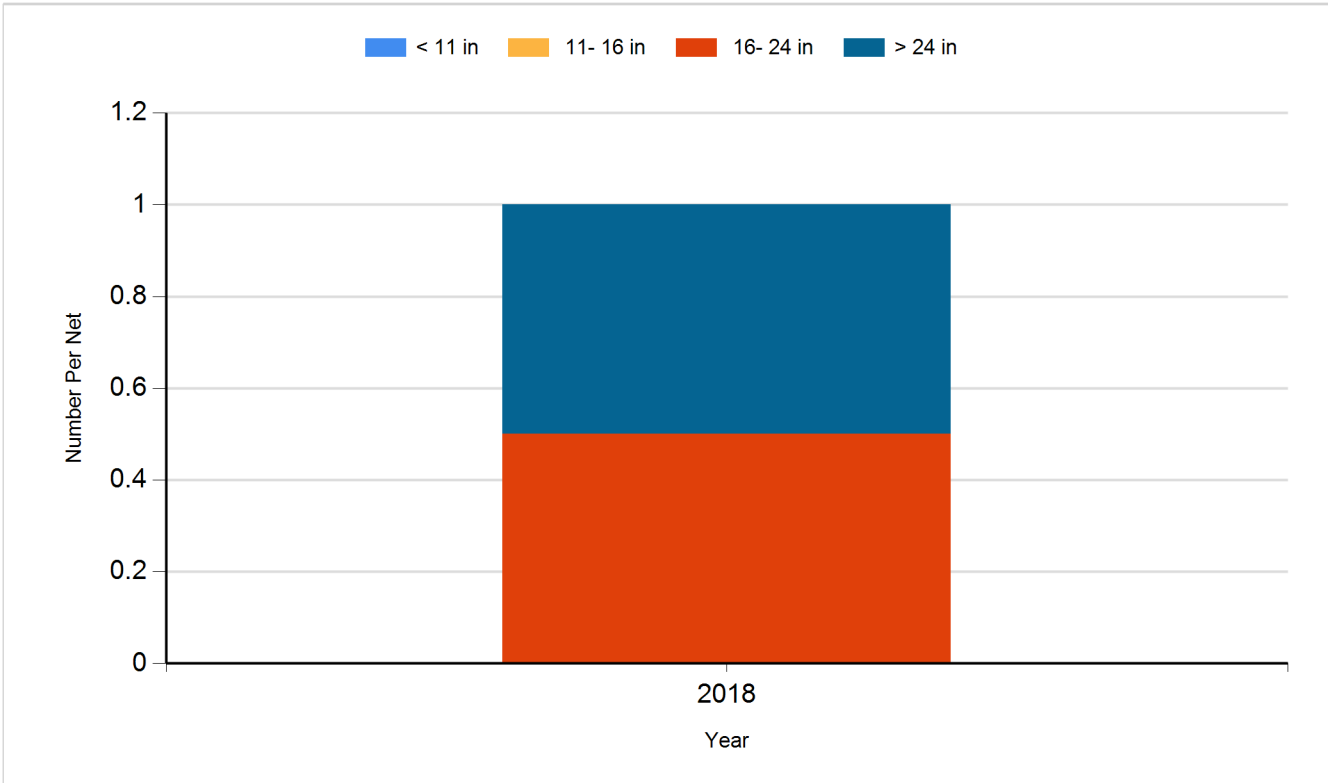
Species: Channel Catfish  
Gear: AFS std gill net



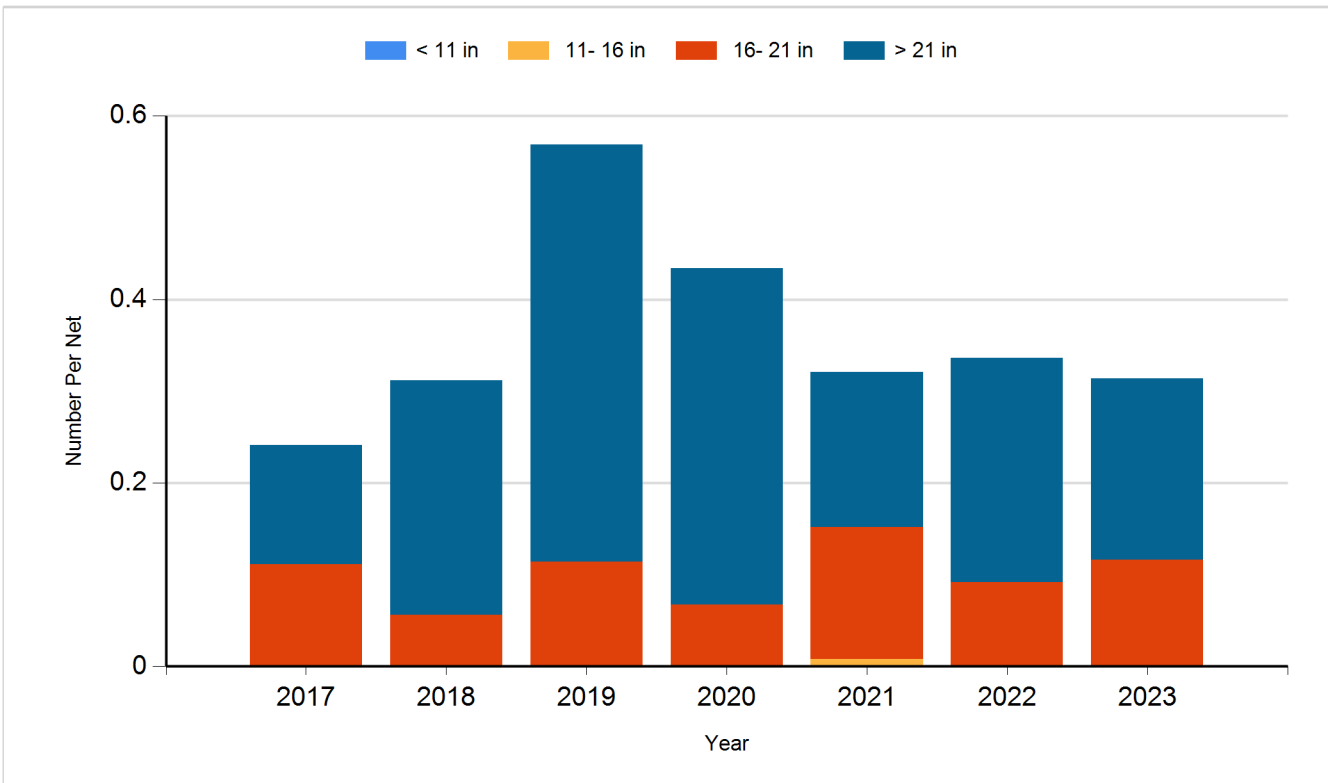
Species: Channel Catfish  
Gear: std exp gill net



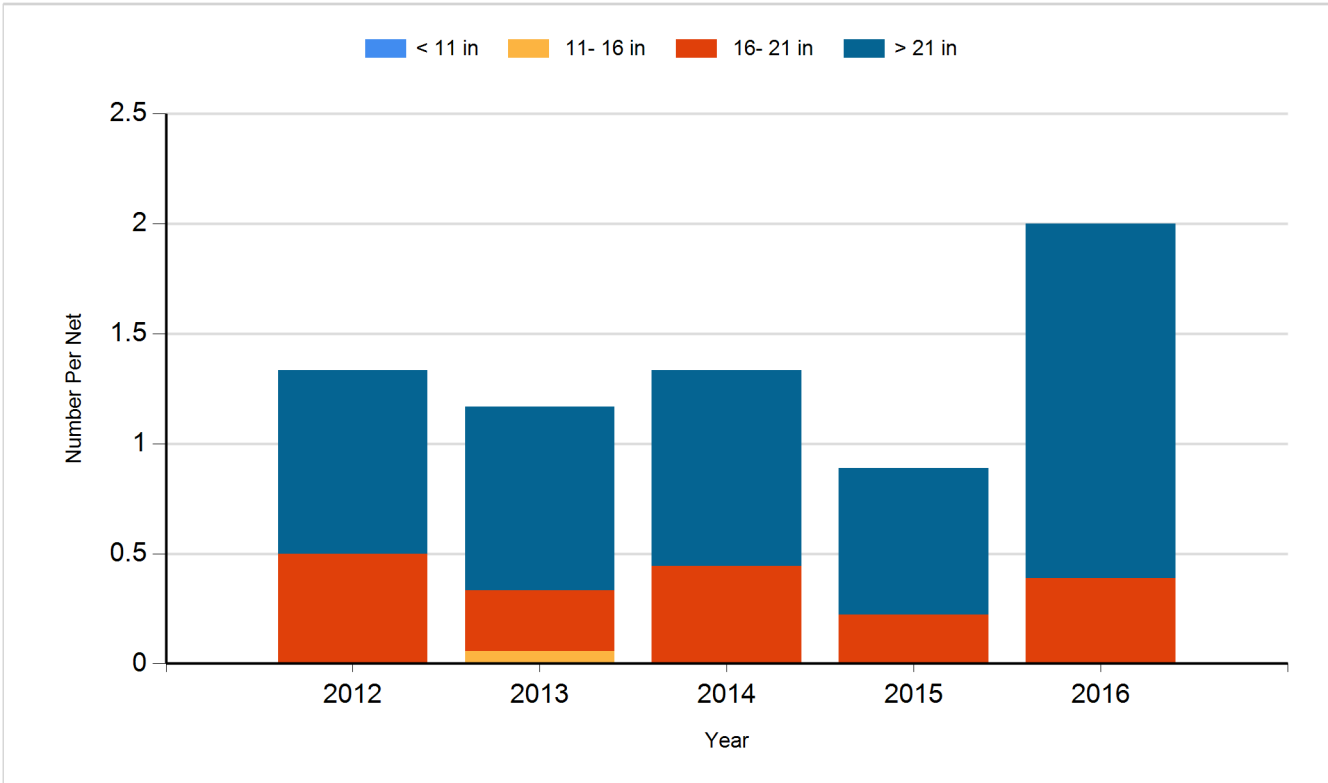
Species: Channel Catfish  
Gear: suspended gill net



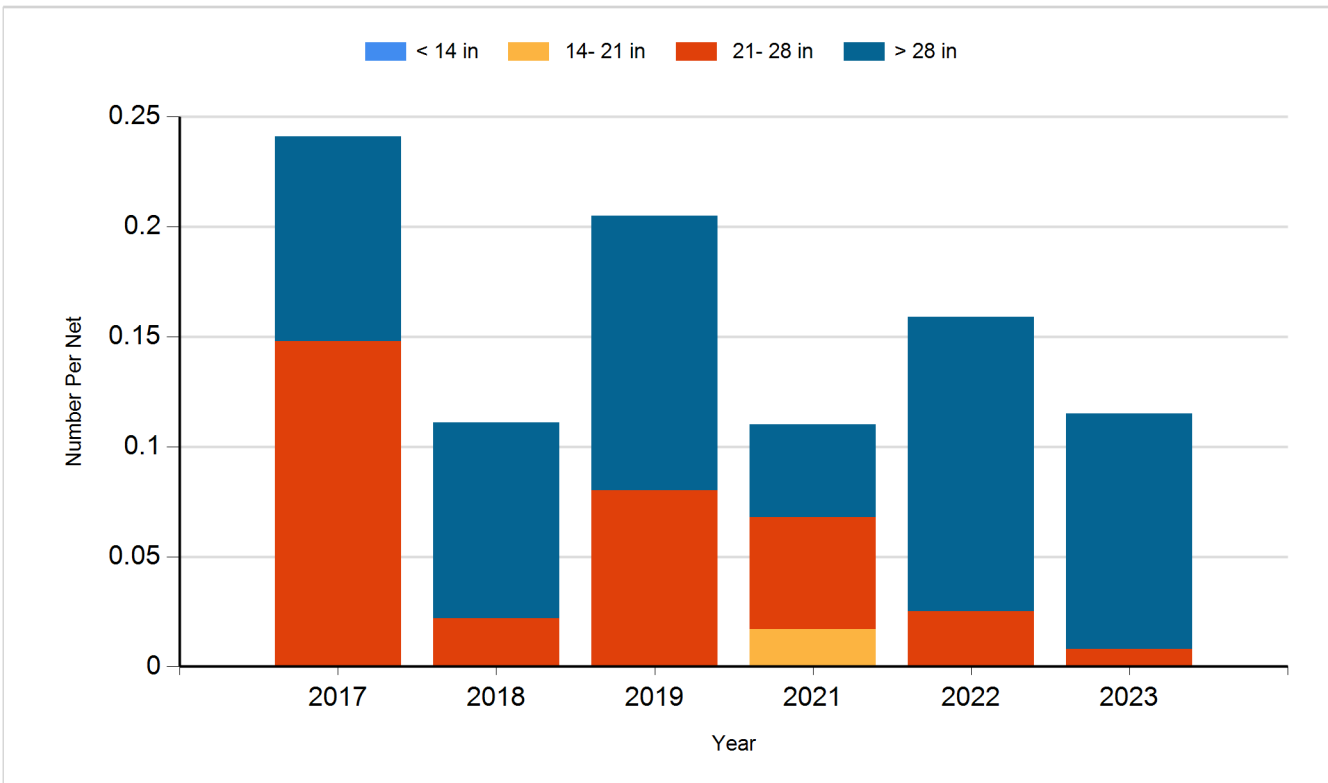
Species: Common Carp  
Gear: AFS std gill net



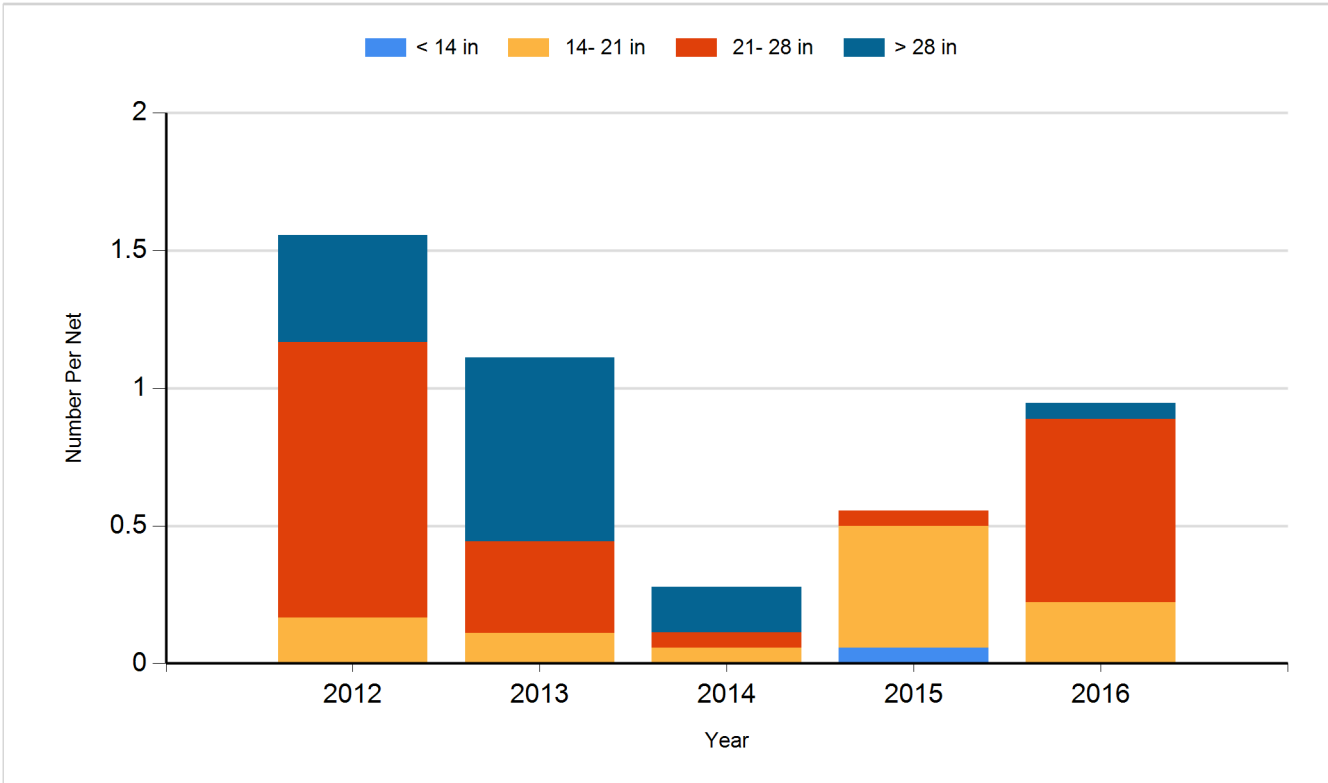
Species: Common Carp  
Gear: std exp gill net



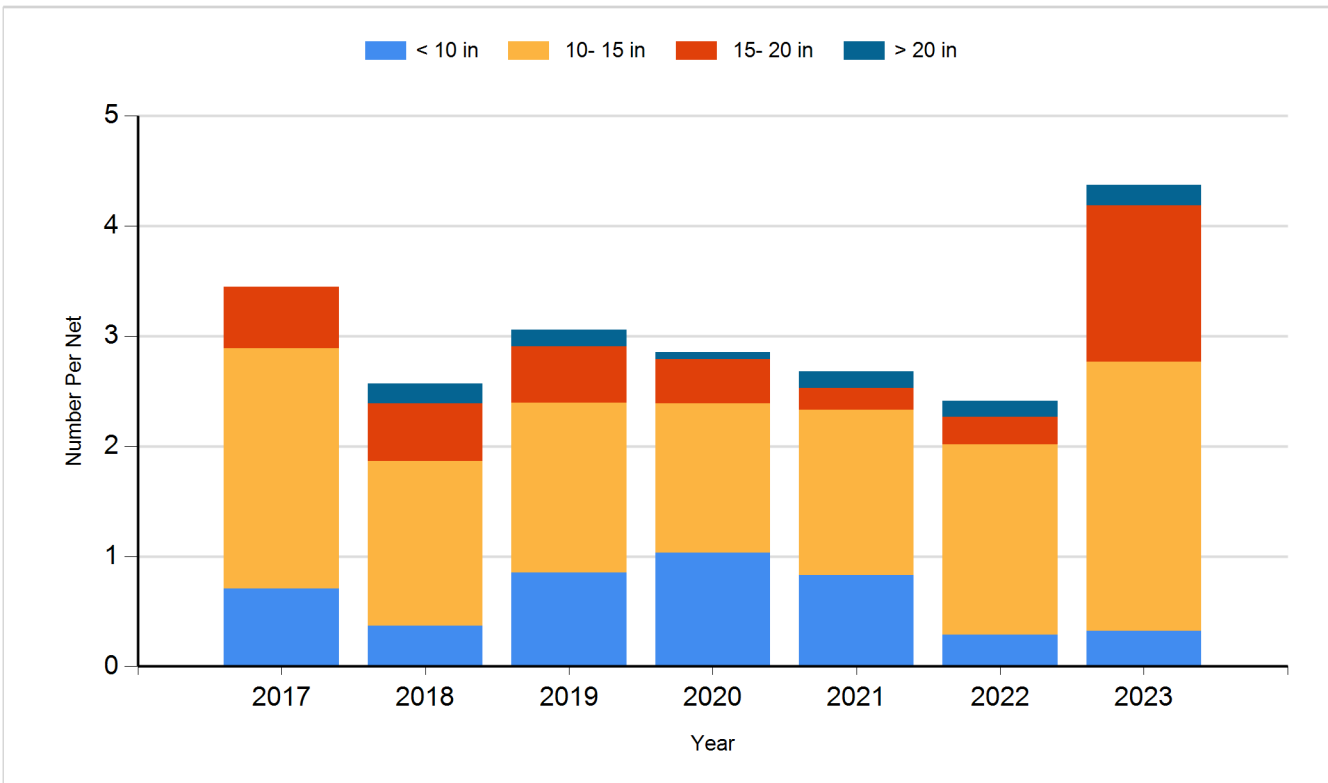
Species: Northern Pike  
Gear: AFS std gill net



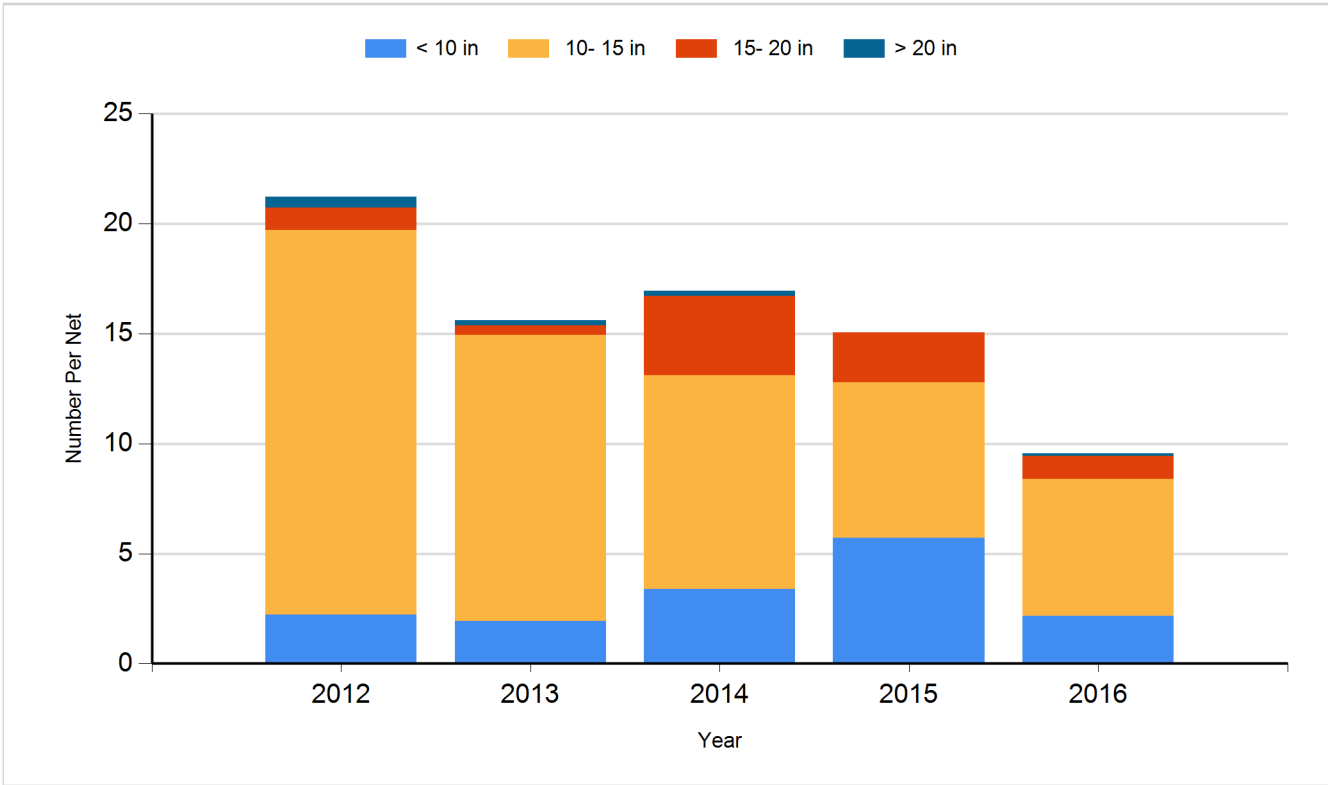
Species: Northern Pike  
Gear: std exp gill net



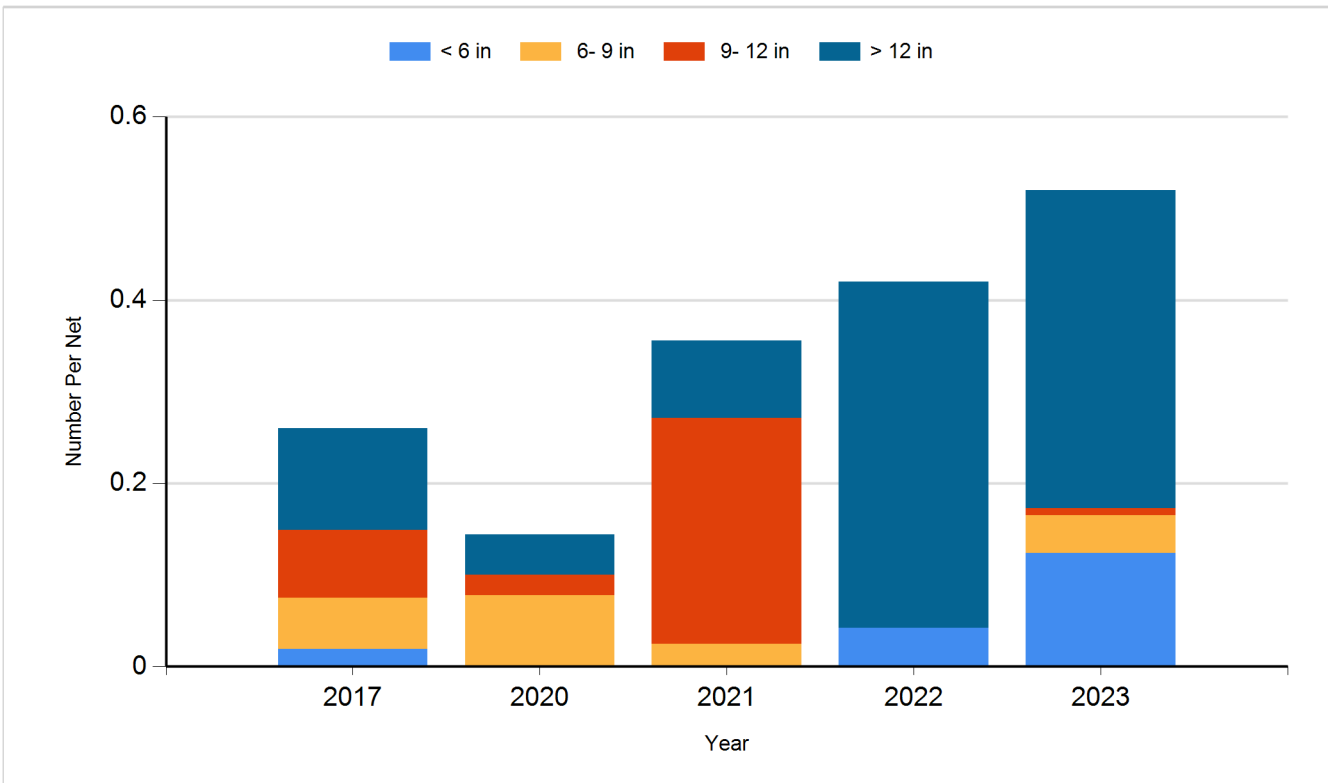
Species: Walleye  
Gear: AFS std gill net



Species: Walleye  
Gear: std exp gill net

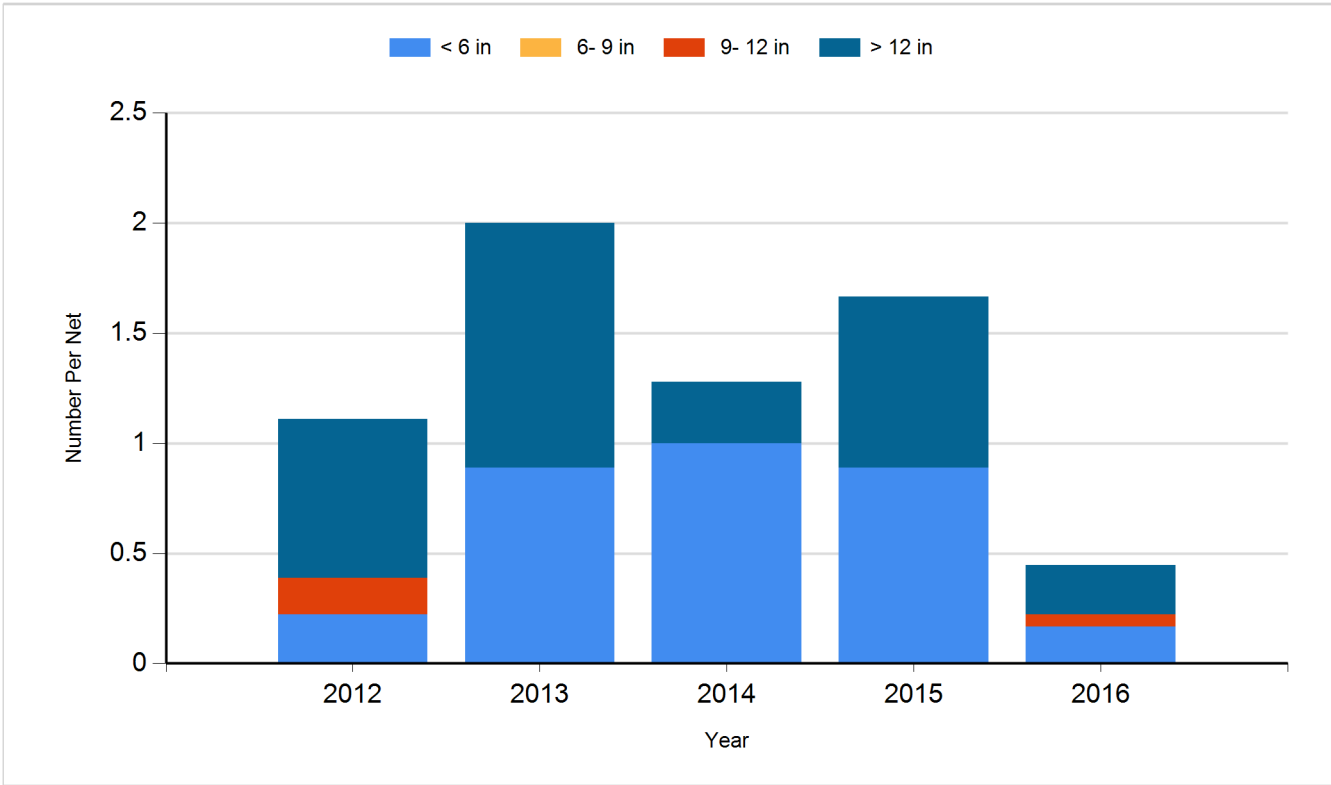


Species: White Bass  
Gear: AFS std gill net

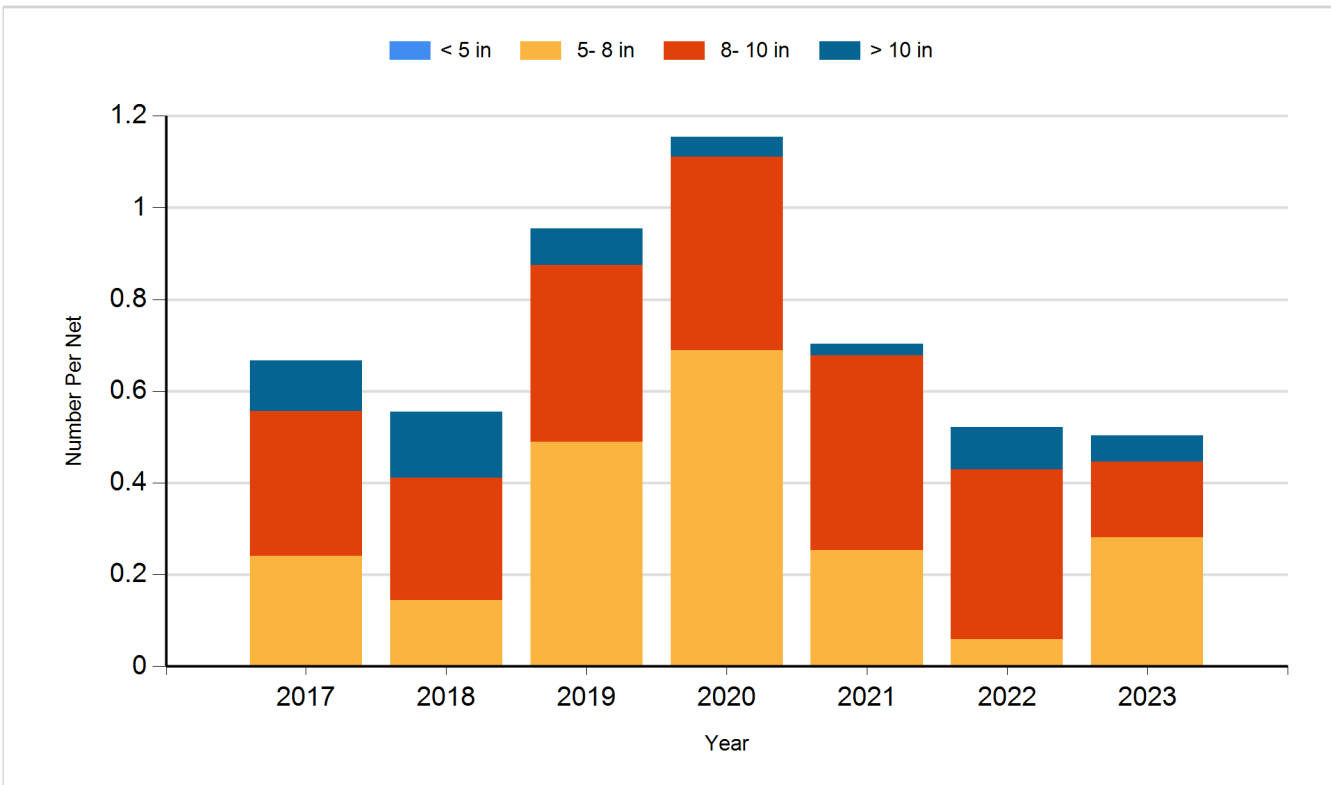




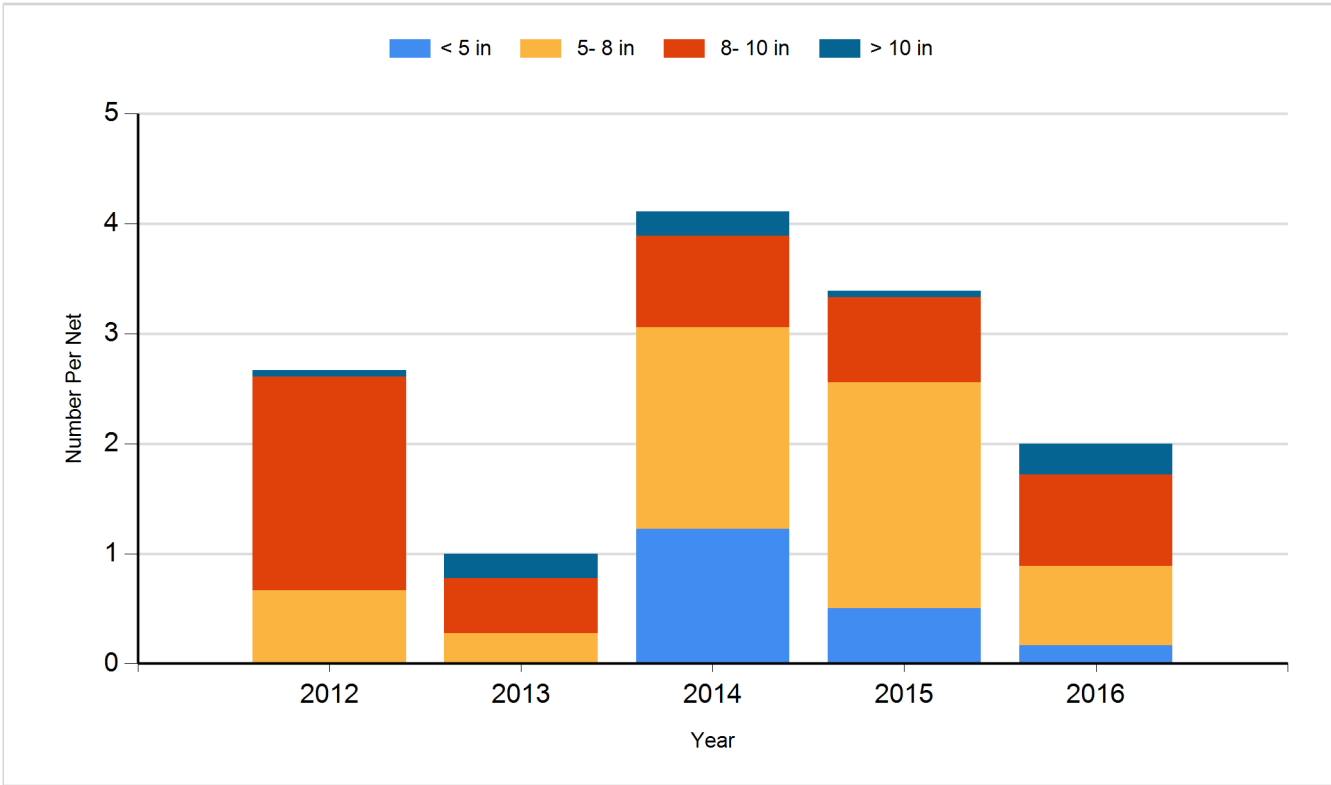
Species: White Bass  
Gear: std exp gill net



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
2012	Gizzard Shad	Adult	344
2013	Gizzard Shad	Adult	530
2018	Atlantic Salmon	Adult	1,863
2018	Atlantic Salmon	Catchable	989
2018	Chinook Salmon (Oahe)	Fingerling	132,736
2018	Walleye	Small Fingerling	104,534
2019	Atlantic Salmon	Adult	3,059
2019	Atlantic Salmon	Catchable 15"	1,368
2019	Atlantic Salmon	Large	2,148
2019	Chinook Salmon (Oahe)	Fingerling	251,187
2019	Chinook Salmon (Oahe)	Juvenile	31,557
2020	Chinook Salmon (Oahe)	Juvenile	135,407
2020	Chinook Salmon (Oahe)	Large Fingerling	33,975
2021	Atlantic Salmon	Juvenile	67,486
2021	Chinook Salmon (Oahe)	Adult	4,343
2021	Chinook Salmon (Oahe)	Juvenile	201,360
2021	Walleye	Juvenile	1,535,670
2022	Chinook Salmon (Oahe)	Juvenile	99,896
2022	Walleye	Fry	2,000,000
2023	Chinook Salmon (Oahe)	Juvenile	664,942
2023	Gizzard Shad	Adult	1,651
2023	Walleye	Juvenile	3,297,113