Lake Farley Survey Summary

Lake Farley, located within the Milbank city limits, is managed as a community-based fishery. A variety of fish species are present in the lake, but black and yellow bullheads tend to be the most abundant. Occasional stockings of adult and juvenile fish (e.g., channel catfish, northern pike, white bass) have been used to create additional angling opportunities.

- **Black crappie and bluegill.** Fewer black crappies and bluegills were sampled in 2023 than in 2018. Relative abundance was considered low with mean frame net CPUE's of 2.2 and 1.9 for black crappie and bluegill, respectively. Sampled black crappies ranged in length from 5.1 to 11.0 inches, more than half (54%) were ≥ 8.0 inches and 27% were ≥ 10.0 inches. Meanwhile, bluegills in the 2023 frame net catch ranged from 3.9 to 8.7 inches, most (74%) were ≥ 6.0 inches and 17% were ≥ 8.0 inches.

- **Northern pike.** Northern pike numbers were similar to those observed in 2018. At 1.2 per gill net, relative abundance was considered moderate. Sampled northern pike ranged in length from 17.7 to 35.4 inches.

- **White bass.** White bass were captured in the gill nets (0.5 per net) and the frame nets (1.1 per net). In total, 16 white bass from 9.1 to 16.1 inches were netted, all were ≥ 9.0 inches and most (69%) were 12.0 inches or longer.

- **Yellow perch.** Yellow perch were not abundant (1.8 per gill net). Eleven individuals from 5.1 to 7.5 inches representing four consecutive cohorts (2019 – 2022) were sampled.

For more detailed results see the computer generated South Dakota Statewide Fisheries Survey for Lake Farley (below).

SOUTH DAKOTA STATEWIDE FISHERIES SURVEY
Farley, Grant County
UMN-Lake-517-000
2023

Lake Information

Name: Farley

County: Grant

Surface Area: 77 Acres

Maximum Depth: 7 Feet

Mean Depth: 4 Feet

Surveys and Investigations

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

Gear	Date	Effort
AFS std gill net	Jul 06, 2023	3 net-nights
AFS std gill net	Jul 07, 2023	3 net-nights
frame net (std 3/4 in)	Jul 06, 2023	6 net-nights
frame net (std 3/4 in)	Jul 07, 2023	6 net-nights

Common Fish Species Present

Northern Pike

Black Crappie

Black Bullhead

Yellow Bullhead

White Sucker

Common Carp

Bluegill

Yellow Perch

White Bass

Largemouth Bass

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 std gill net	Black Bullhead	115	17.2	4.7	7	4	0		88	1
	Black Crappie	10	1.7	0.8	80		70		116	5
	Common Carp	14	2.3	0.8	100		93		85	2
	Common Shiner*	10	1.7	0.6						
	Northern Pike	7	1.2	0.7	57		29		93	3
	Walleye	1	0.2	0.2	100		100		96	
	White Bass	3	0.5	0.3	100		100		111	5
	White Sucker	41	6.8	1.7	68	11	37	11	91	1
	Yellow Bullhead	4	0.7	0.5	100		75		108	7
	Yellow Perch	11	1.8	1.4	45		0		104	3
frame net (std 3/4 in)	Black Bullhead	978	43.8	25.8	4	1	0		77	1
	Black Crappie	26	2.2	1.3	54	15	27	14	112	2
	Bluegill	23	1.9	1.2	74	15	17		106	2
	Common Carp	6	0.5	0.3	100		83		81	0
	Green Sunfish	2	0.2	0.2	100		0			
	Largemouth Bass	4	0.3	0.3	100		0		97	
	Northern Pike	12	1.0	0.7	75		42	24	88	2
	White Bass	13	1.1	0.8	100		62		104	1
	White Sucker	31	2.6	1.0	81	11	61	13	81	1
	Yellow Bullhead	295	24.6	12.5	51	4	15	3	96	1
	Yellow Perch	7	0.6	0.4	43		0		96	

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**

		CPUE										
Gear	Species	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	Avg
AFS std gill net	Black Bullhead					18.5					17.2	17.85
	Black Crappie					2.0					1.7	1.85
	Common Carp					16.3					2.3	9.30
	Common Shiner*					0.0					1.7	0.85
	Northern Pike					1.5					1.2	1.35
	Walleye					0.0					0.2	0.10
	White Bass					0.5					0.5	0.50
	White Sucker					2.3					6.8	4.55
	Yellow Bullhead					0.3					0.7	0.50
	Yellow Perch					1.3					1.8	1.55
frame net (std 3/4 in)	Black Bullhead					103.4					43.8	73.60
	Black Crappie					7.0					2.2	4.60
	Bluegill					8.4					1.9	5.15
	Common Carp					1.3					0.5	0.90
	Green Sunfish					0.0					0.2	0.10
	Largemouth Bass					0.2					0.3	0.25
	Northern Pike					0.5					1.0	0.75
	Orangespotted Sunfish*					0.1					0.0	0.05
	White Bass					2.5					1.1	1.80
	White Sucker					1.3					2.6	1.95
	Yellow Bullhead					1.5					24.6	13.05
	Yellow Perch					0.8					0.6	0.70

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	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
AFS std gill net	Northern Pike	PSD					83					57
		PSD-P					0					29
		Wr					89					93
	White Bass	PSD					100					100
		PSD-P					100					100
		Wr					97					111
	Yellow Perch	PSD					0					45
		PSD-P					0					0
		Wr					90					104
frame net (std 3/4 in)	Black Crappie	PSD					14					54
		PSD-P					4					27
		Wr					92					112
	Bluegill	PSD					61					74
		PSD-P					0					17
		Wr					99					106

Length at Capture

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

Species: Yellow Perch

		Mean Length (expanded sample number) at capture by age									
Year	N	1	2	3	4	5	6	7	8	9	10+
2023	11	147 (1)	189 (7)	222 (2)	222 (1)						
2018	5		137 (1)	152 (4)							

Fish Condition

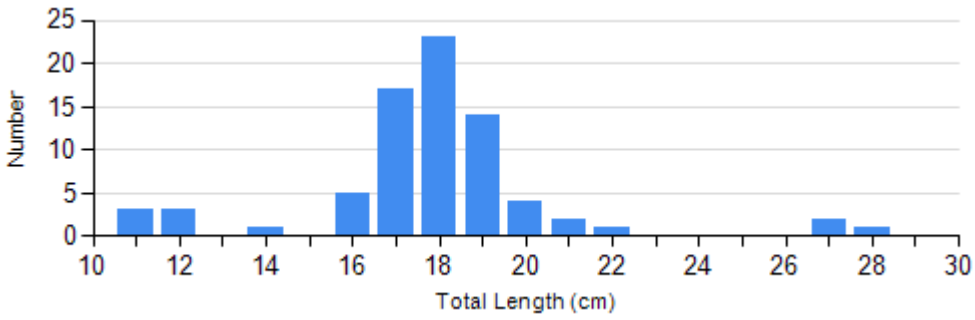
Mean relative weight (Wr) by sample size (N), length category stock to quality (S-Q), quality to preferred (Q-P), preferred to memorable (P-M), and memorable (M) for species collected across survey years with standard error (SE).

		Length Groups							
		S-Q		Q-P		P-M		M	
Species	Year	N	Wr (SE)	N	Wr (SE)	N	Wr (SE)	N	Wr (SE)
Black Crappie Frame Net	2023	12	116 (1.0)	7	114 (1.3)	7	105 (1.4)	0	
Bluegill Frame Net	2023	6	112 (0.7)	13	106 (0.7)	4	97 (4.9)	0	
Northern Pike Gill Net	2023	3	95 (1.9)	2	89 (6.4)	1		1	97
White Bass Gill Net	2023	0		0		2	113 (4.6)	1	105
Yellow Perch Gill Net	2023	6	101 (1.9)	5	107 (5.0)	0		0	

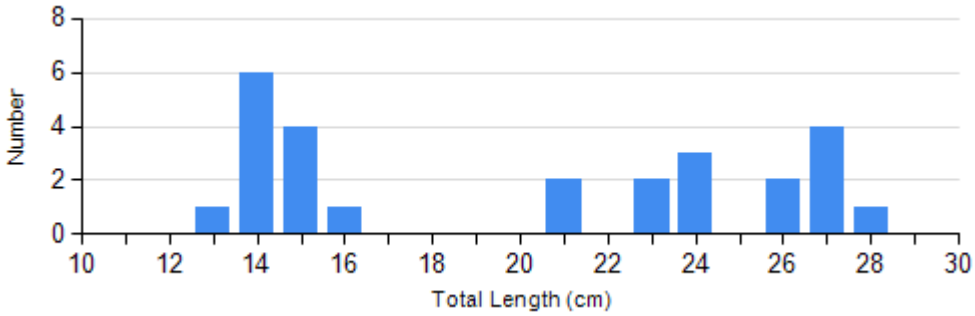
Length Frequency Distribution

Length frequency histogram of species sampled by year.

Species: Black Crappie
Gear: frame net (std 3/4 in)

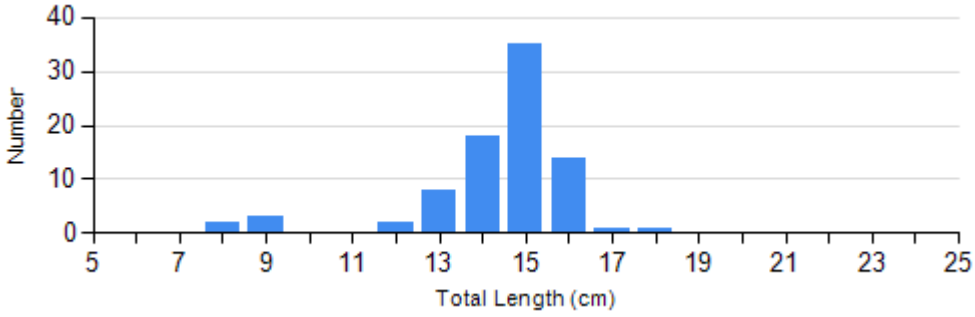


2018

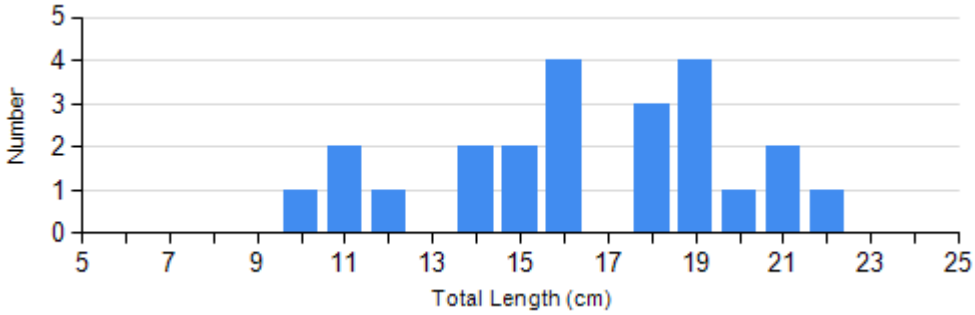


2023

Species: Bluegill
Gear: frame net (std 3/4 in)



2018

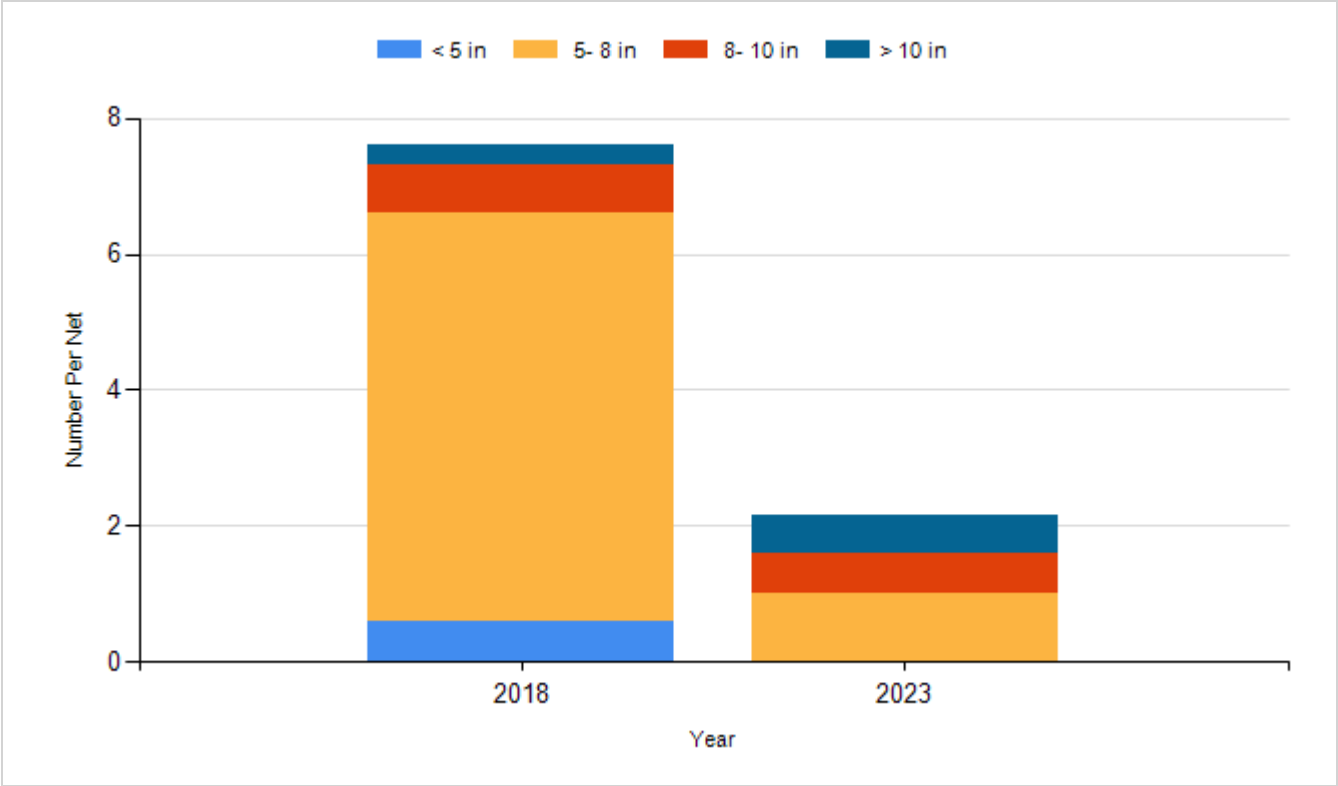


2023

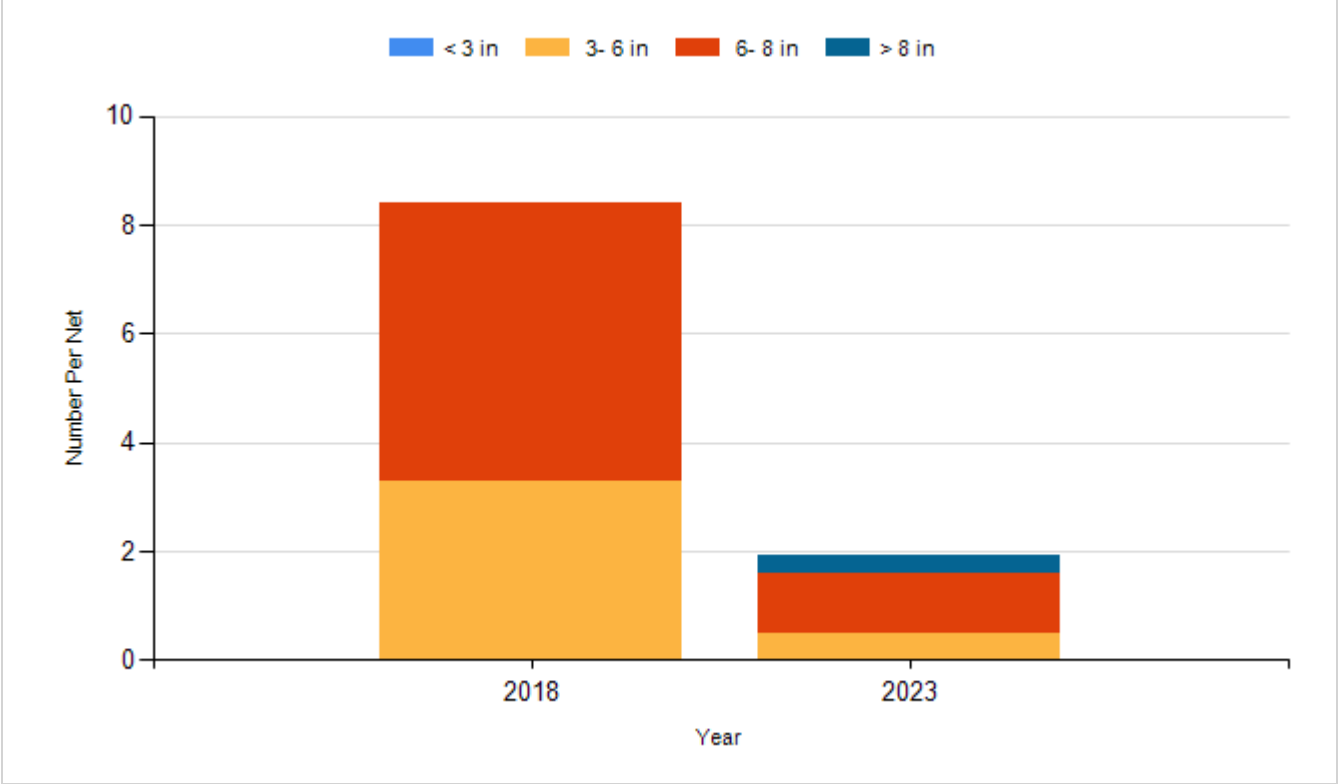
Historic Fish Sizes and Relative Abundance

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

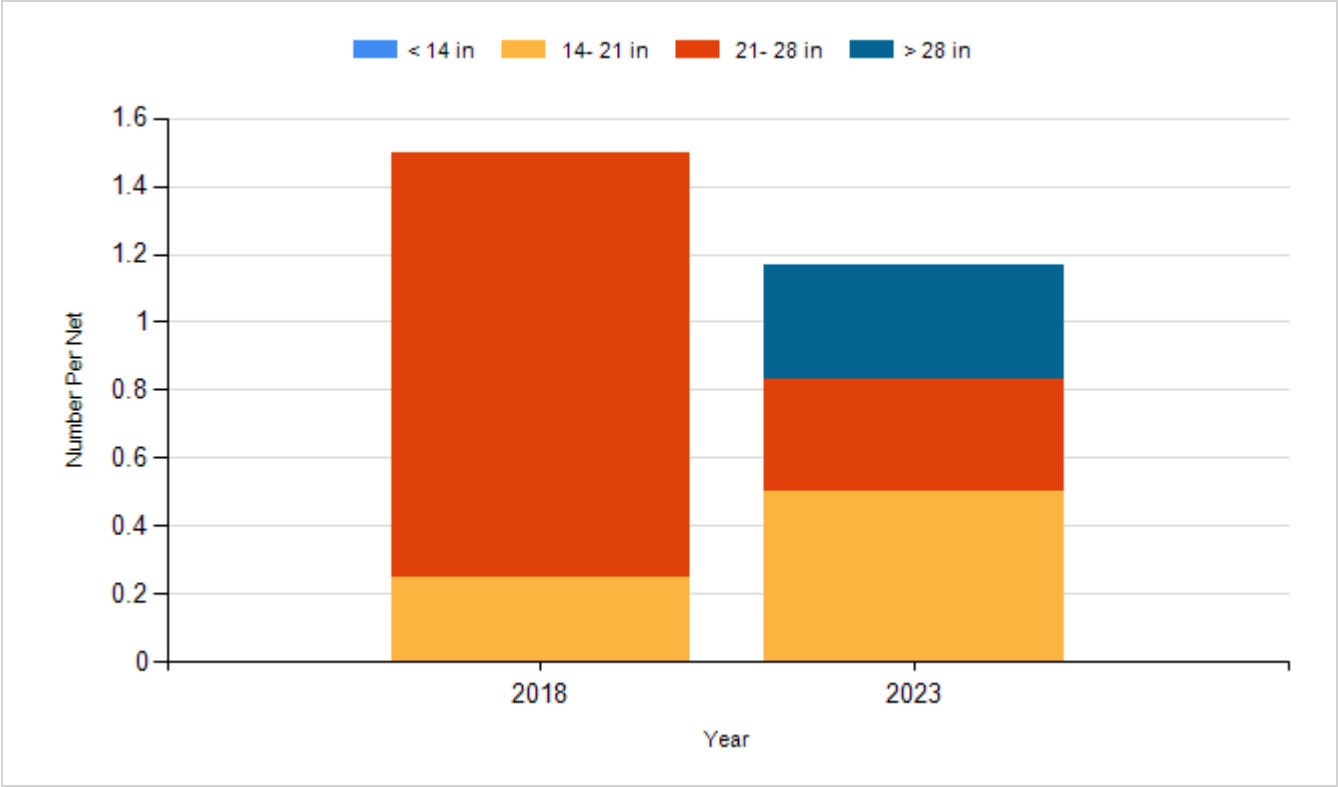
Species: Black Crappie
Gear: frame net (std 3/4 in)



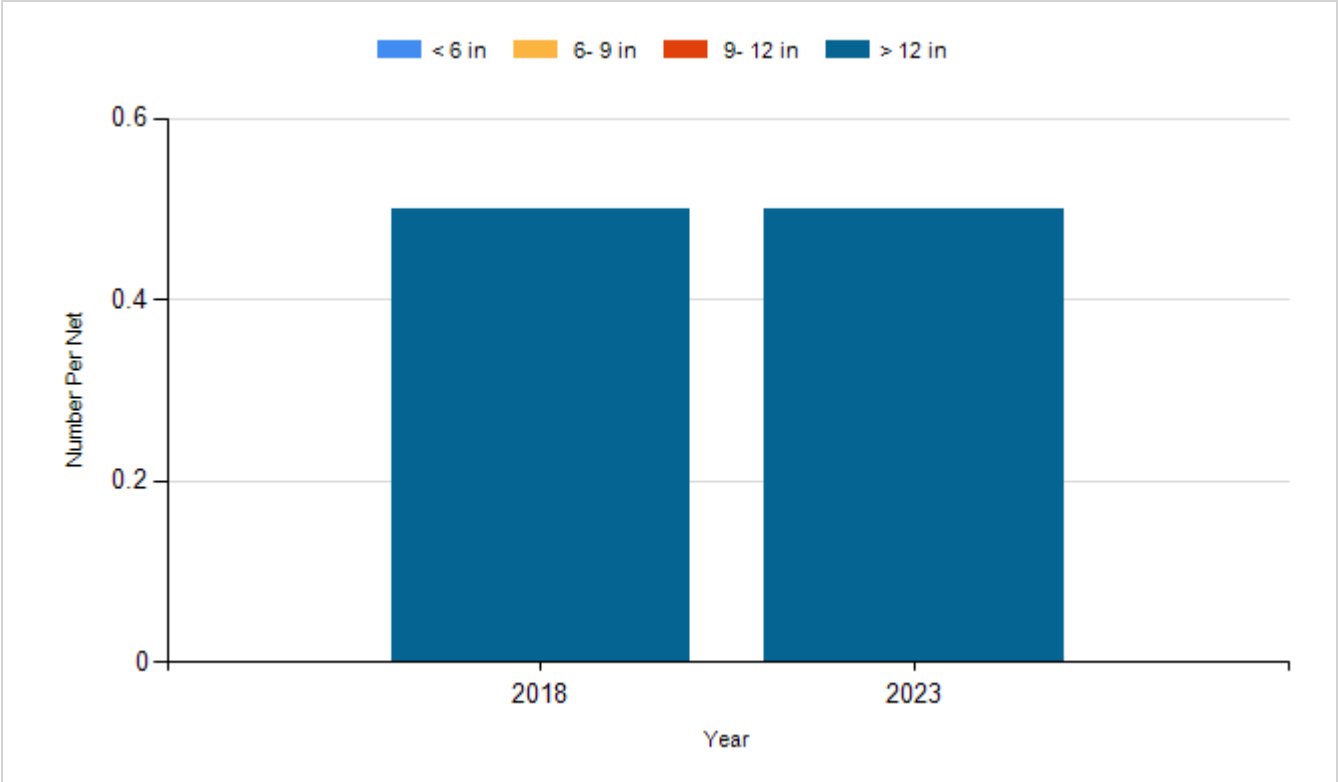
Species: Bluegill
Gear: frame net (std 3/4 in)



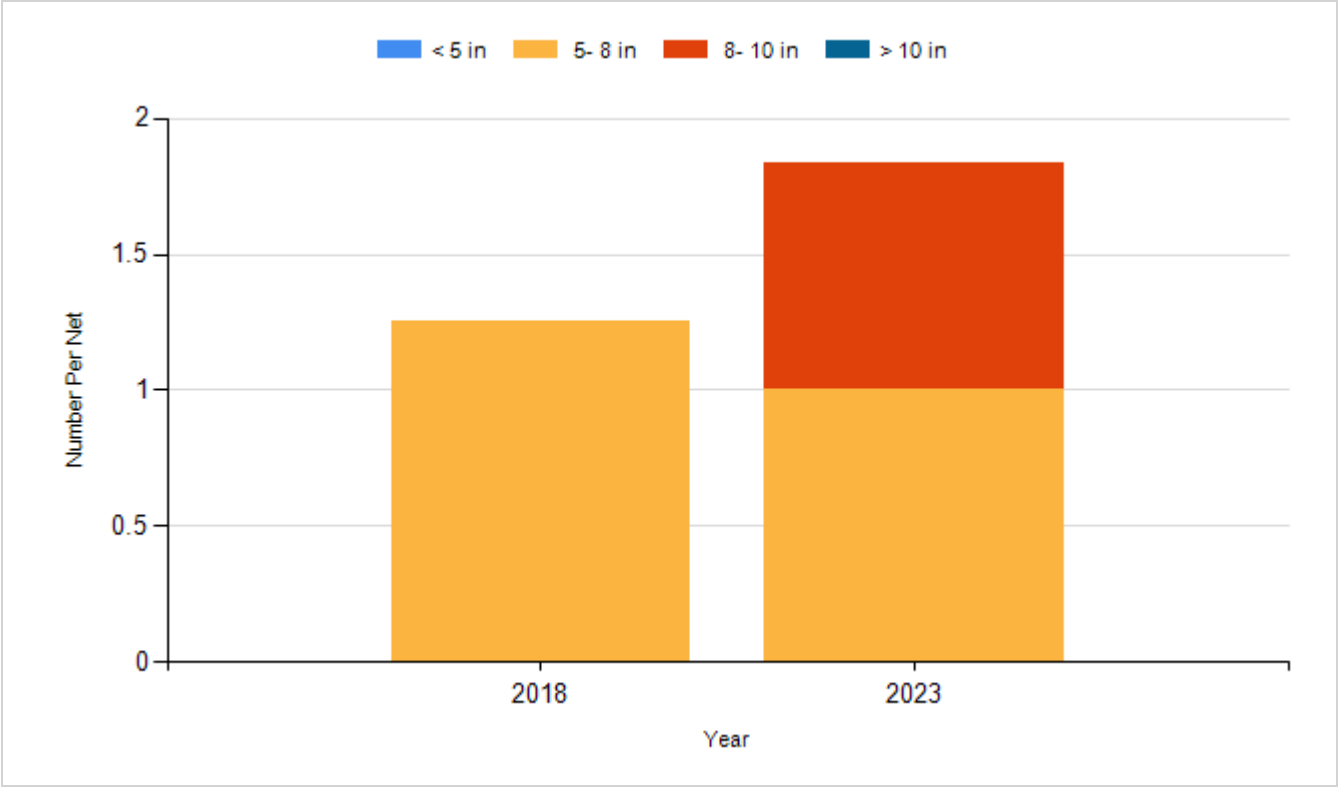
Species: Northern Pike
Gear: AFS std gill net



Species: White Bass
Gear: AFS std gill net



Species: Yellow Perch
Gear: AFS std gill net



Fish Stocking

Number of fish stocked by year, species, and size.

Year	Species	Size	Number
2014	Northern Pike	Adult	500
2015	Northern Pike	Adult	325
2015	White Bass	Adult	320
2016	Northern Pike	Adult	500
2016	Yellow Perch	Juvenile	6,000
2017	Northern Pike	Adult	115
2018	White Bass	Adult	150
2019	Bluegill	Adult	50
2019	White Bass	Adult	200
2023	Channel Catfish	Juvenile	3,000

SOUTH DAKOTA STATEWIDE FISHERIES SURVEY
Farley, Grant County
UMN-Lake-517-000
2023

Lake Information

Name: Farley

County: Grant

Surface Area: 77 Acres

Maximum Depth: 7 Feet

Mean Depth: 4 Feet

Surveys and Investigations

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

Gear	Date	Effort
AFS std gill net	Jul 06, 2023	3 net-nights
AFS std gill net	Jul 07, 2023	3 net-nights
frame net (std 3/4 in)	Jul 06, 2023	6 net-nights
frame net (std 3/4 in)	Jul 07, 2023	6 net-nights

Common Fish Species Present

Northern Pike

Black Crappie

Black Bullhead

Yellow Bullhead

White Sucker

Common Carp

Bluegill

Yellow Perch

White Bass

Largemouth Bass

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 std gill net	Black Bullhead	115	17.2	4.7	7	4	0		88	1
	Black Crappie	10	1.7	0.8	80		70		116	5
	Common Carp	14	2.3	0.8	100		93		85	2
	Common Shiner	10	0.0	0.0						
	Northern Pike	7	1.2	0.7	57		29		93	3
	Walleye	1	0.2	0.2	100		100		96	
	White Bass	3	0.5	0.3	100		100		111	5
	White Sucker	41	6.8	1.7	68	11	37	11	91	1
	Yellow Bullhead	4	0.7	0.5	100		75		108	7
	Yellow Perch	11	1.8	1.4	45		0		104	3
frame net (std 3/4 in)	Black Bullhead	978	43.8	25.8	4	1	0		77	1
	Black Crappie	26	2.2	1.3	54	15	27	14	112	2
	Bluegill	23	1.9	1.2	74	15	17		106	2
	Common Carp	6	0.5	0.3	100		83		81	0
	Green Sunfish	2	0.2	0.2	100		0			
	Largemouth Bass	4	0.3	0.3	100		0		97	
	Northern Pike	12	1.0	0.7	75		42	24	88	2
	White Bass	13	1.1	0.8	100		62		104	1
	White Sucker	31	2.6	1.0	81	11	61	13	81	1
	Yellow Bullhead	295	24.6	12.5	51	4	15	3	96	1
	Yellow Perch	7	0.6	0.4	43		0		96	

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**

		CPUE										
Gear	Species	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	Avg
AFS std gill net	Black Bullhead					18.5					17.2	17.85
	Black Crappie					2.0					1.7	1.85
	Common Carp					16.3					2.3	9.30
	Common Shiner					0.0					0.0	0.00
	Northern Pike					1.5					1.2	1.35
	Walleye					0.0					0.2	0.10
	White Bass					0.5					0.5	0.50
	White Sucker					2.3					6.8	4.55
	Yellow Bullhead					0.3					0.7	0.50
	Yellow Perch					1.3					1.8	1.55
frame net (std 3/4 in)	Black Bullhead					103.4					43.8	73.60
	Black Crappie					7.0					2.2	4.60
	Bluegill					8.4					1.9	5.15
	Common Carp					1.3					0.5	0.90
	Green Sunfish					0.0					0.2	0.10
	Largemouth Bass					0.2					0.3	0.25
	Northern Pike					0.5					1.0	0.75
	Orangespotted Sunfish					0.0					0.0	0.00
	White Bass					2.5					1.1	1.80
	White Sucker					1.3					2.6	1.95
	Yellow Bullhead					1.5					24.6	13.05
	Yellow Perch					0.8					0.6	0.70

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	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
AFS std gill net	Black Bullhead	PSD					0					7
		PSD-P					0					0
		Wr					80					88
	Black Crappie	PSD					0					80
		PSD-P					0					70
		Wr					104					116
	Common Carp	PSD					52					100
		PSD-P					0					93
		Wr					86					85
	Northern Pike	PSD					83					57
		PSD-P					0					29
		Wr					89					93
	White Bass	PSD					100					100
		PSD-P					100					100
		Wr					97					111
	White Sucker	PSD					100					68
		PSD-P					33					37
		Wr					83					91
	Yellow Bullhead	PSD					100					100
		PSD-P					100					75
		Wr					95					108
	Yellow Perch	PSD					0					45
		PSD-P					0					0
		Wr					90					104
frame net (std 3/4 in)	Black Bullhead	PSD					0					4
		PSD-P					0					0
		Wr					75					77
	Black Crappie	PSD					14					54
		PSD-P					4					27
		Wr					92					112
	Bluegill	PSD					61					74
		PSD-P					0					17
		Wr					99					106

			Year									
Gear	Species	Index	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
frame net (std 3/4 in)	Common Carp	PSD					54					100
		PSD-P					8					83
		Wr					82					81
	Largemouth Bass	PSD					50					100
		PSD-P					0					0
		Wr					109					97
	Northern Pike	PSD					80					75
		PSD-P					40					42
		Wr					82					88
	White Bass	PSD					100					100
		PSD-P					52					62
		Wr					82					104
	White Sucker	PSD					100					81
		PSD-P					54					61
		Wr					81					81
	Yellow Bullhead	PSD					33					51
		PSD-P					7					15
		Wr					83					96
	Yellow Perch	PSD					13					43
		PSD-P					0					0
		Wr					74					96

Length at Capture

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

Species: Yellow Perch

		Mean Length (expanded sample number) at capture by age									
Year	N	1	2	3	4	5	6	7	8	9	10+
2023	11	147 (1)	189 (7)	222 (2)	222 (1)						
2018	5		137 (1)	152 (4)							

Fish Condition

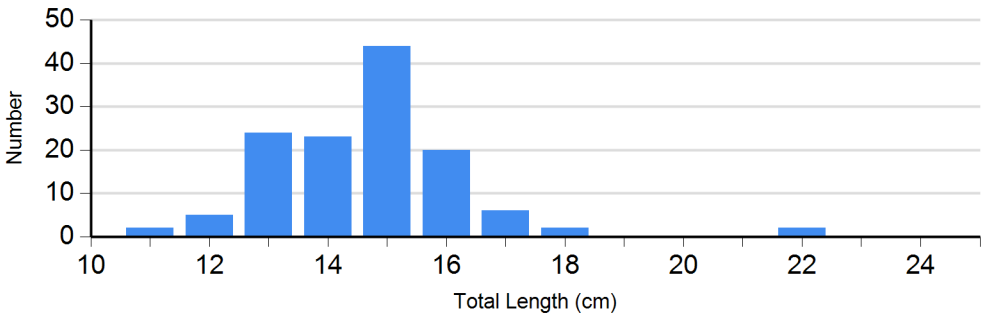
Mean relative weight (Wr) by sample size (N), length category stock to quality (S-Q), quality to preferred (Q-P), preferred to memorable (P-M), and memorable (M) for species collected across survey years with standard error (SE).

		Length Groups							
		S-Q		Q-P		P-M		M	
Species	Year	N	Wr (SE)	N	Wr (SE)	N	Wr (SE)	N	Wr (SE)
Black Bullhead Gill Net	2023	96	88 (0.8)	7	85 (2.9)	0		0	
Black Crappie Frame Net	2023	12	116 (1.0)	7	114 (1.3)	7	105 (1.4)	0	
Bluegill Frame Net	2023	6	112 (0.7)	13	106 (0.7)	4	97 (4.9)	0	
Common Carp Gill Net	2023	0		1	86	13	85 (1.4)	0	
Northern Pike Gill Net	2023	3	95 (1.9)	2	89 (6.4)	1		1	97
White Bass Gill Net	2023	0		0		2	113 (4.6)	1	105
White Sucker Gill Net	2023	13	94 (1.3)	13	89 (1.7)	13	90 (1.6)	2	89 (3.5)
Yellow Perch Gill Net	2023	6	101 (1.9)	5	107 (5.0)	0		0	

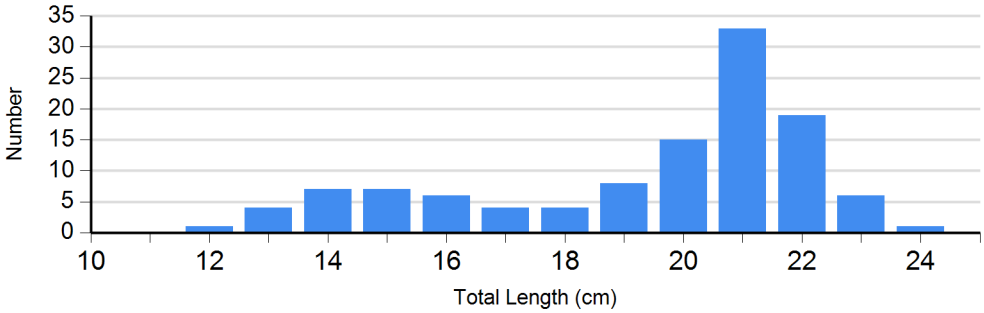
Length Frequency Distribution

Length frequency histogram of species sampled by year.

Species: Black Bullhead
Gear: AFS std gill net

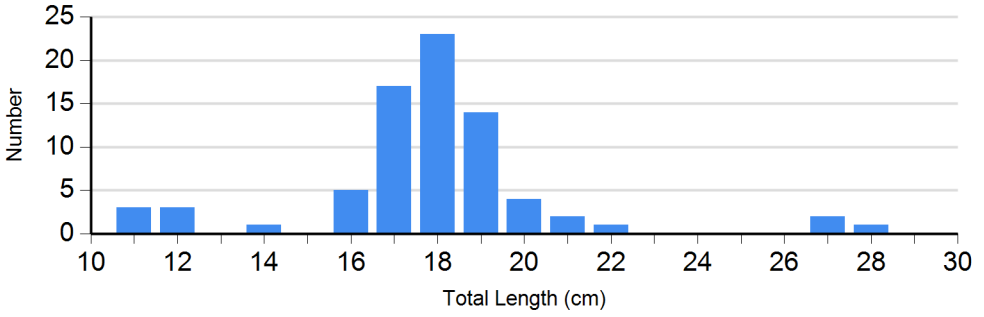


2018

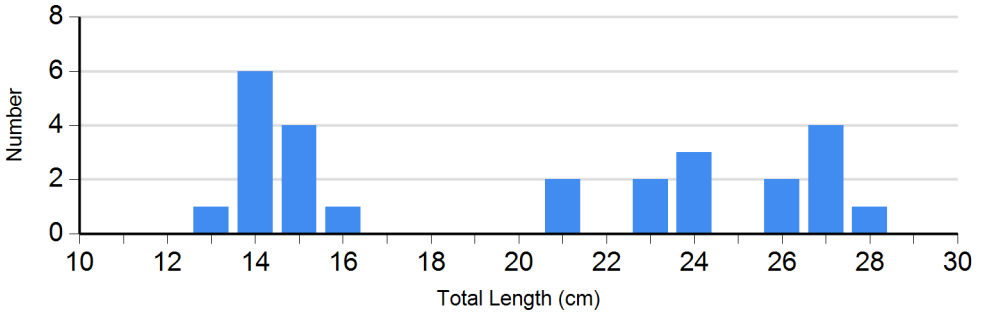


2023

Species: Black Crappie
Gear: frame net (std 3/4 in)

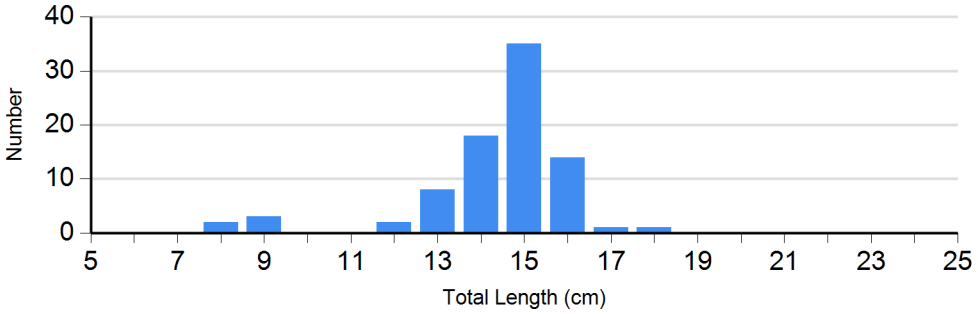


2018

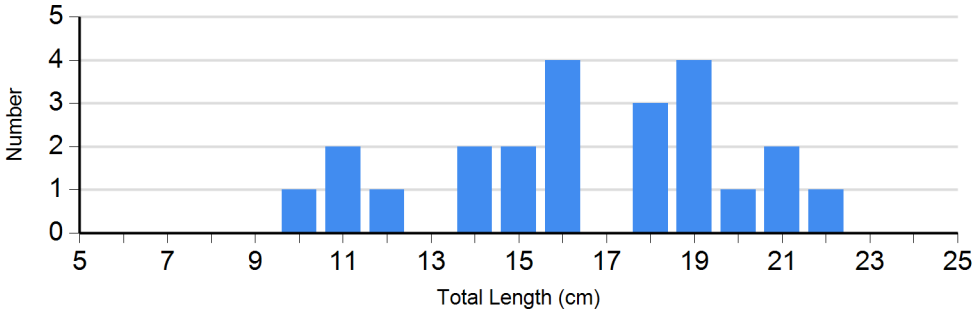


2023

Species: Bluegill
Gear: frame net (std 3/4 in)

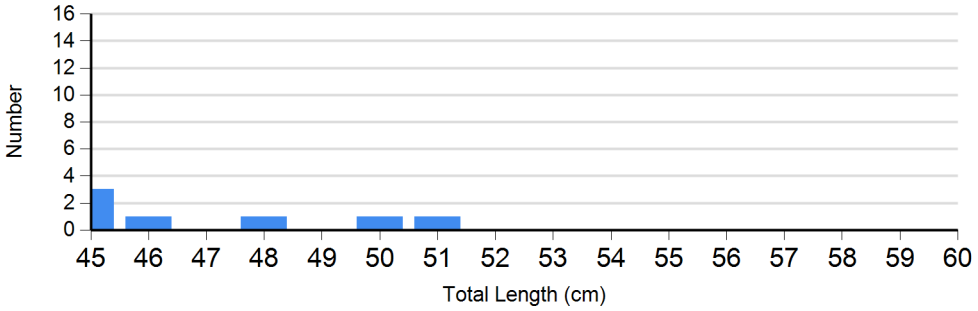


2018

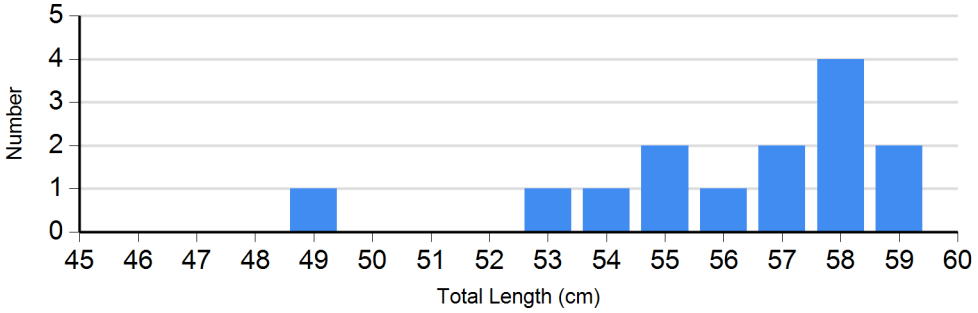


2023

Species: Common Carp
Gear: AFS std gill net

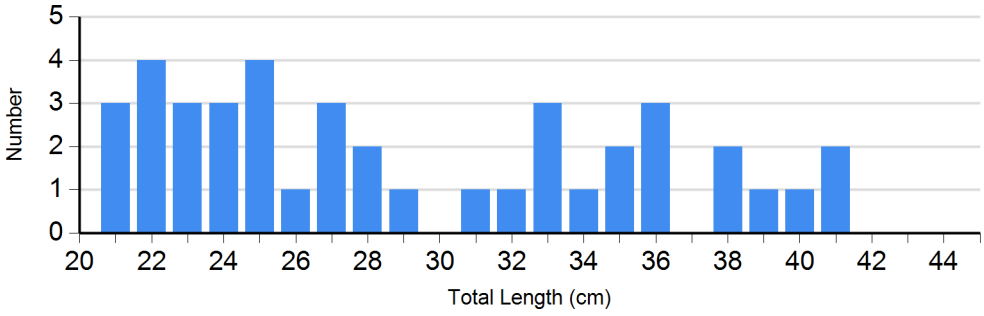


2018



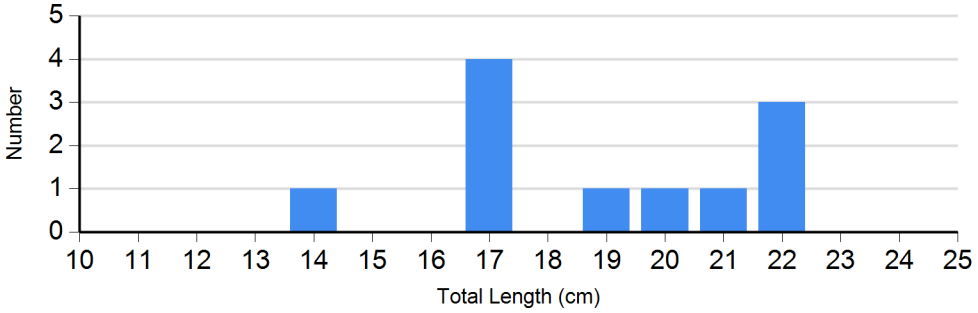
2023

Species: White Sucker
Gear: AFS std gill net



2023

Species: Yellow Perch
Gear: AFS std gill net

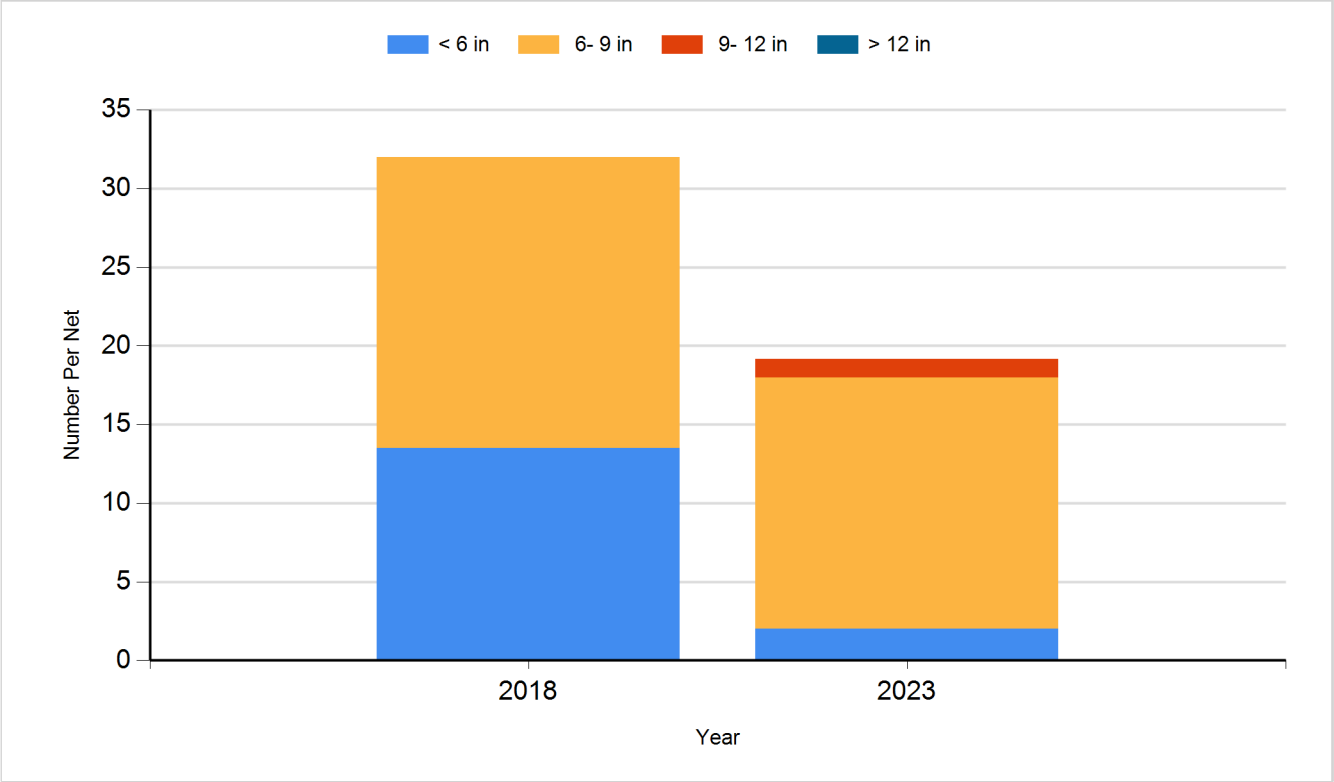


2023

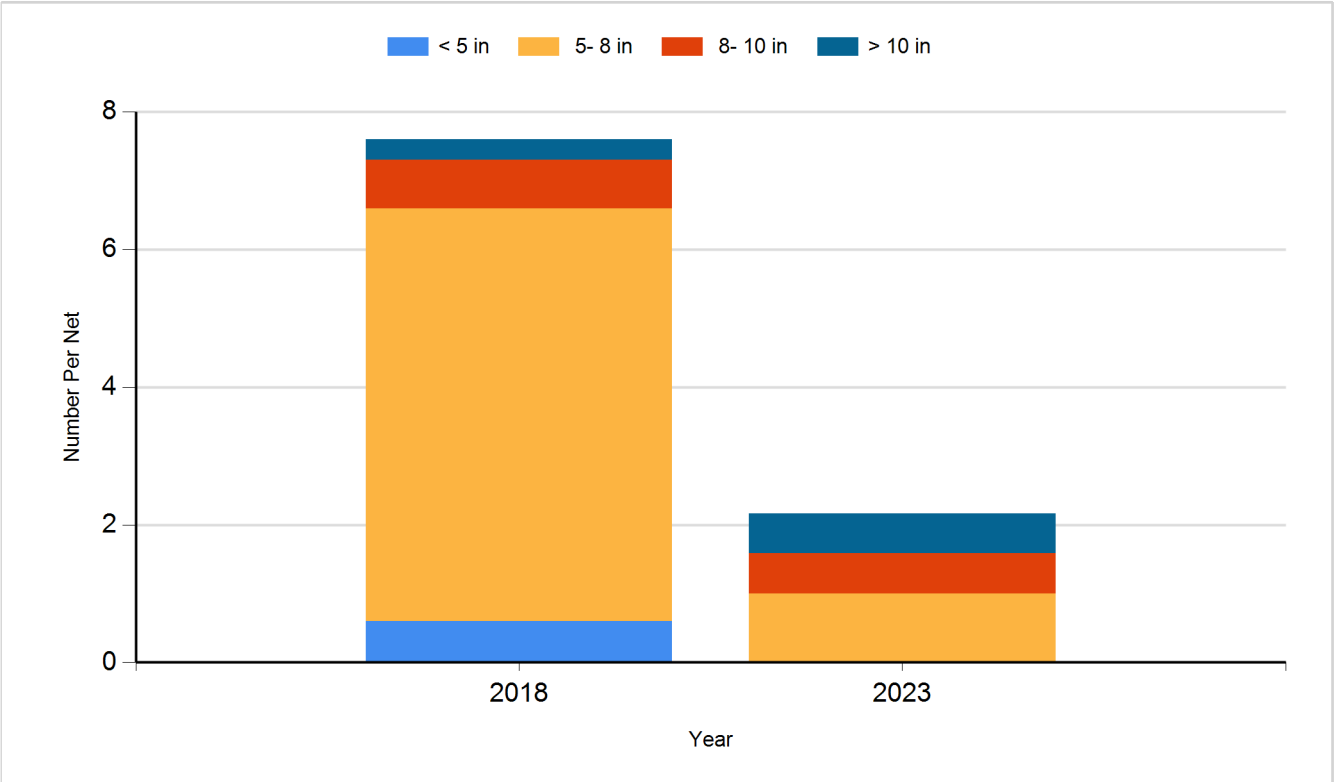
Historic Fish Sizes and Relative Abundance

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

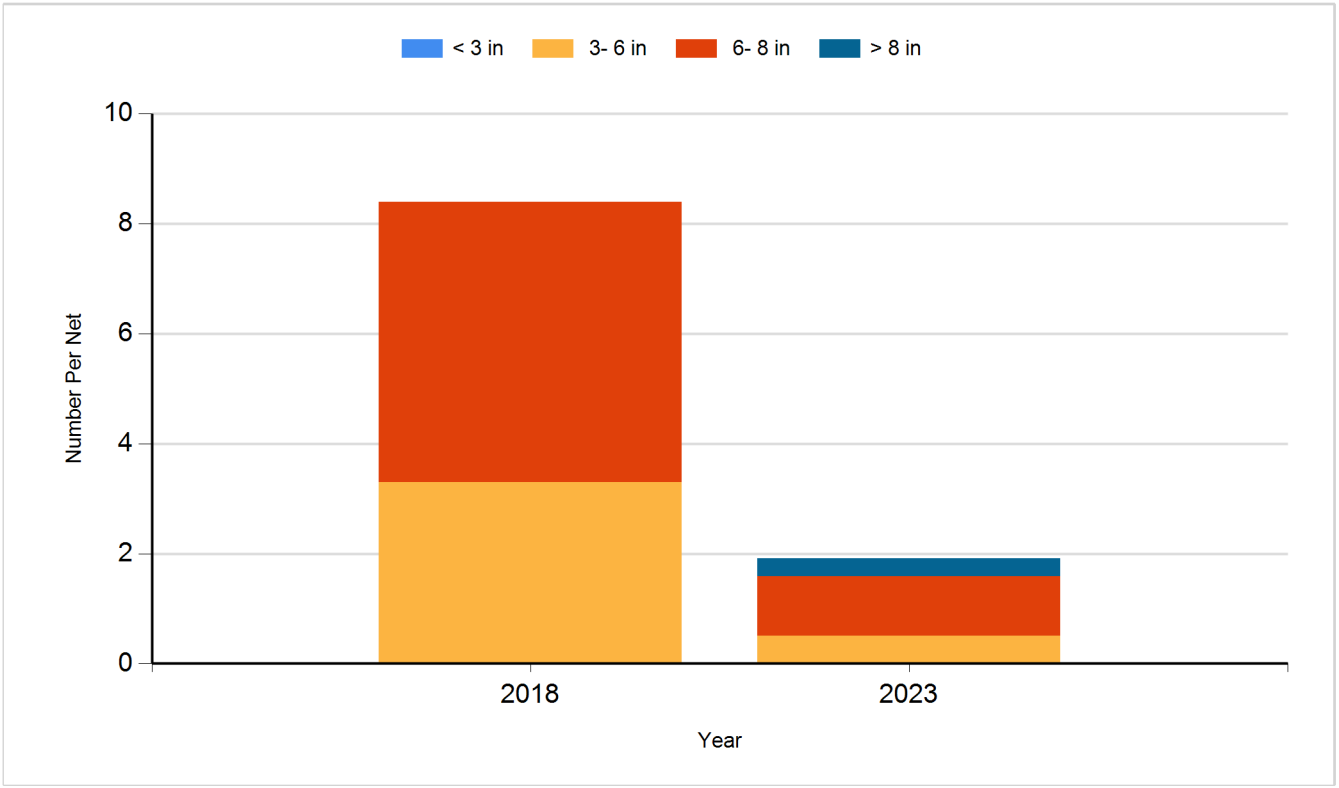
Species: Black Bullhead
Gear: AFS std gill net



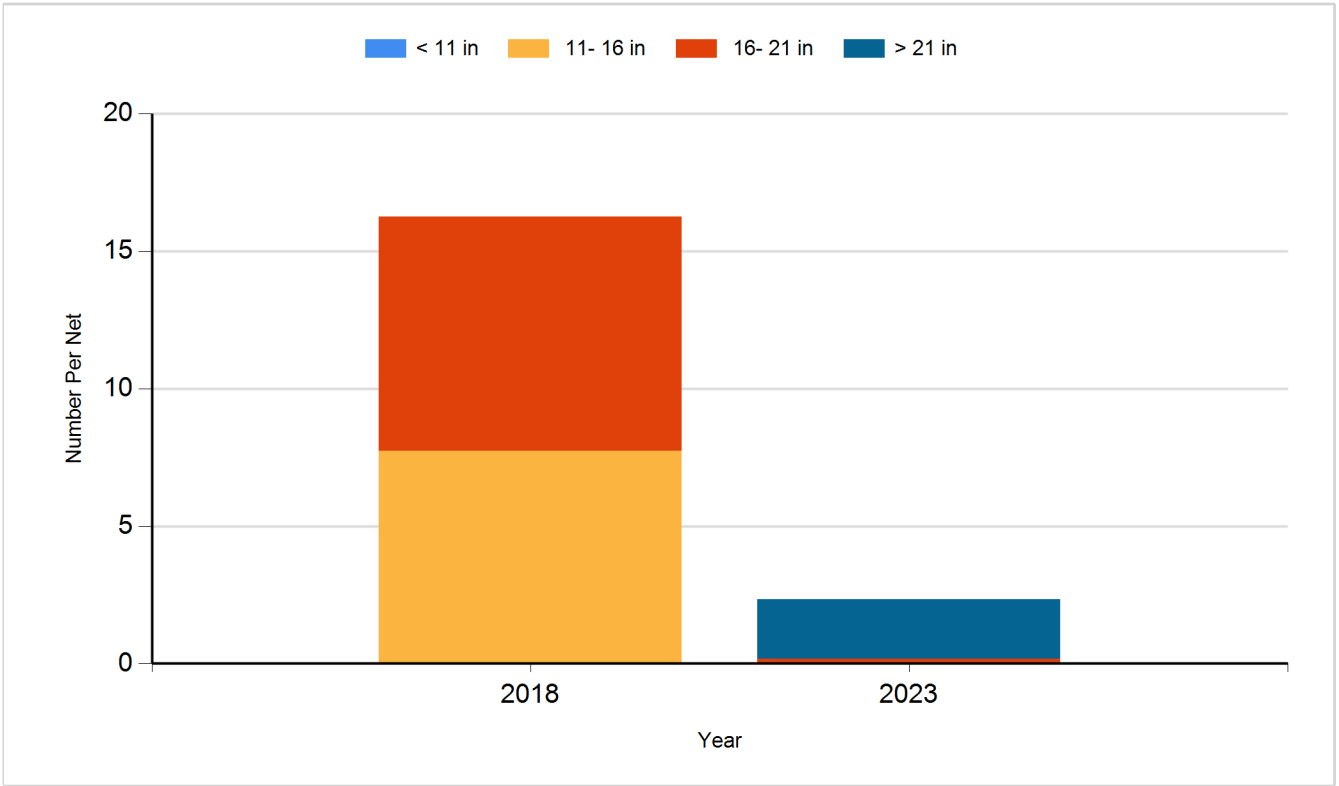
Species: Black Crappie
Gear: frame net (std 3/4 in)



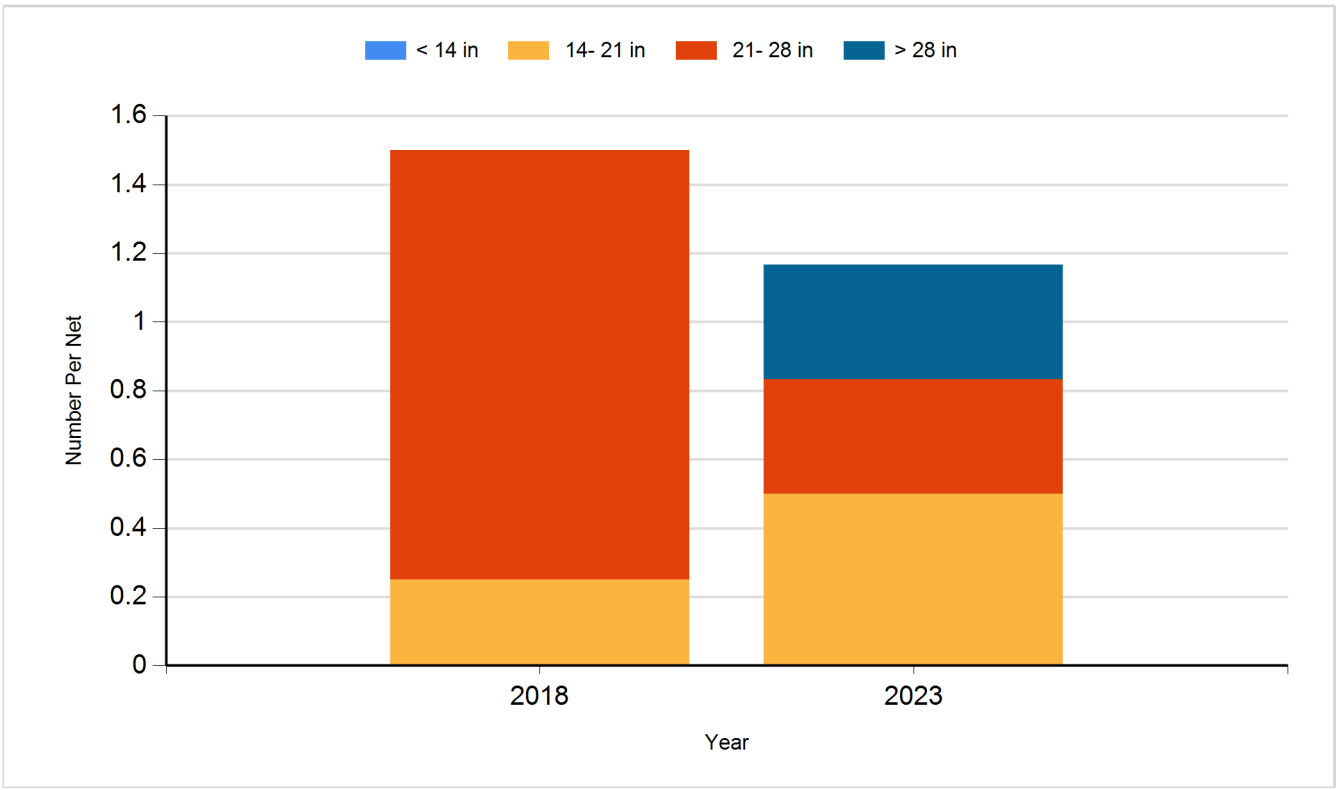
Species: Bluegill
Gear: frame net (std 3/4 in)



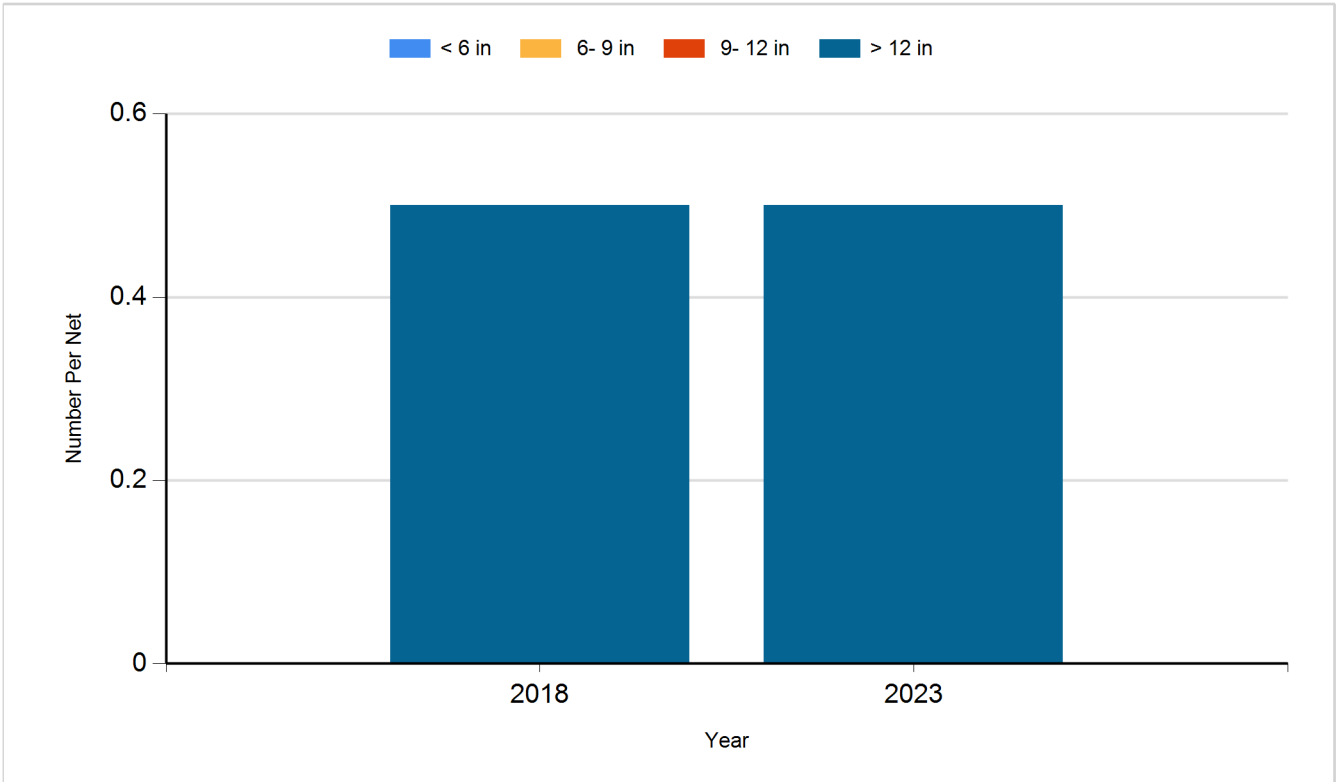
Species: Common Carp
Gear: AFS std gill net



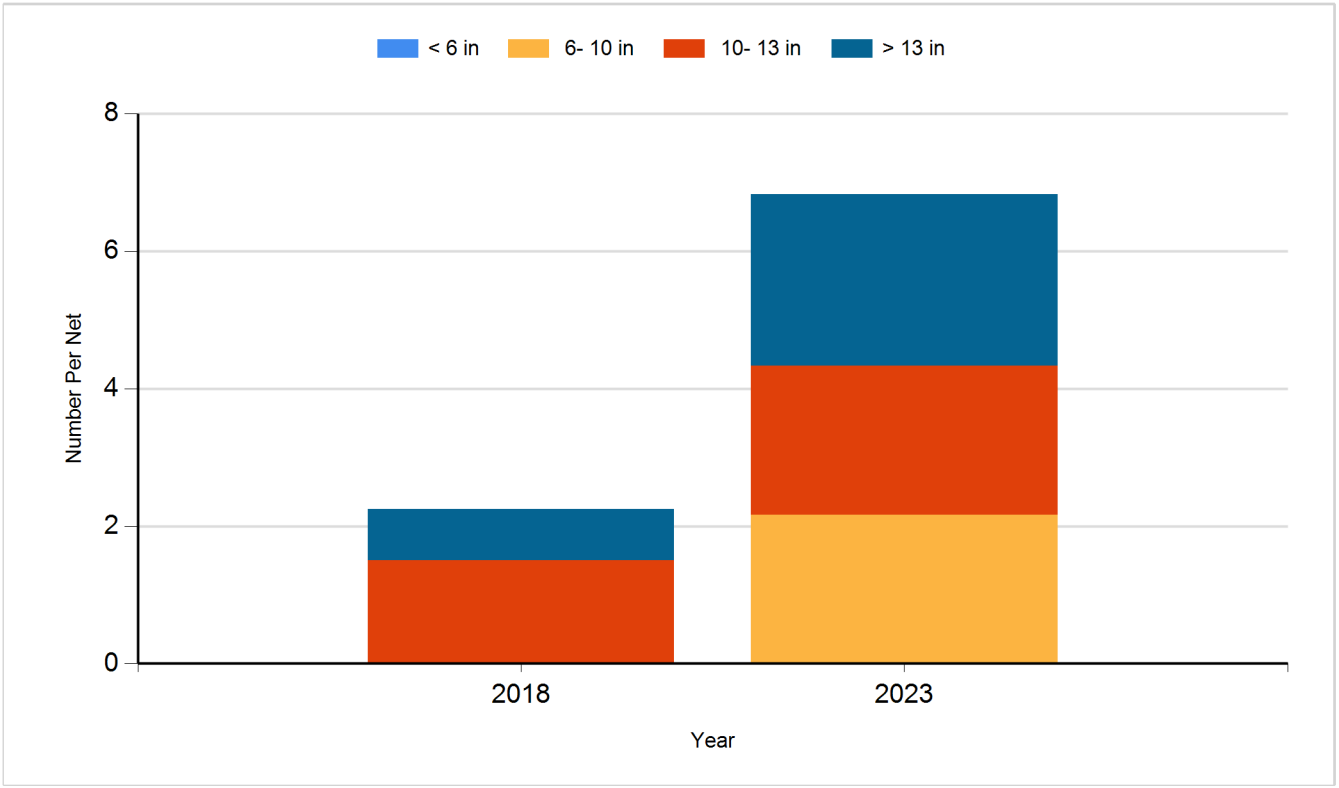
Species: Northern Pike
Gear: AFS std gill net



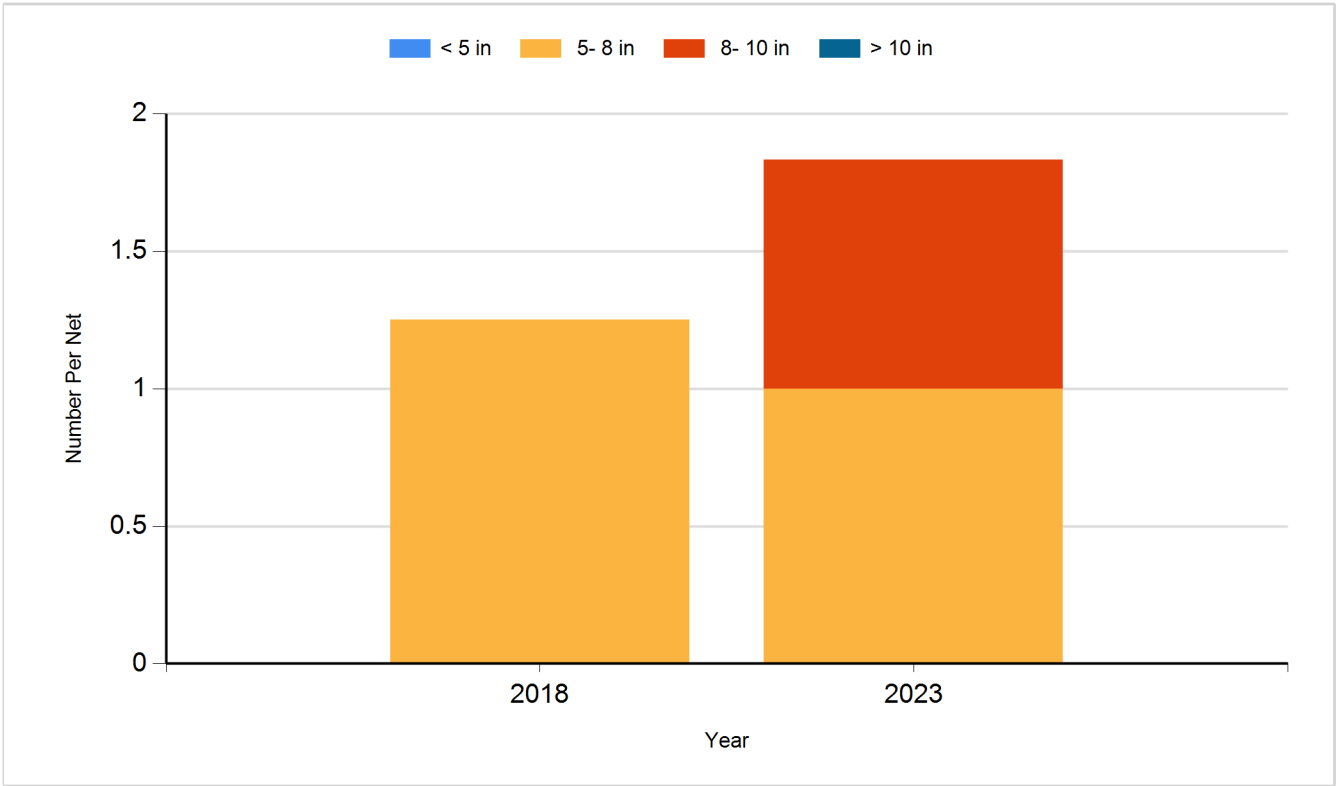
Species: White Bass
Gear: AFS std gill net



Species: White Sucker
Gear: AFS std gill net



Species: Yellow Perch
Gear: AFS std gill net



Fish Stocking

Number of fish stocked by year, species, and size.

Year	Species	Size	Number
2014	Northern Pike	Adult	500
2015	Northern Pike	Adult	325
2015	White Bass	Adult	320
2016	Northern Pike	Adult	500
2016	Yellow Perch	Juvenile	6,000
2017	Northern Pike	Adult	115
2018	White Bass	Adult	150
2019	Bluegill	Adult	50
2019	White Bass	Adult	200
2023	Channel Catfish	Juvenile	3,000