Note: Curlyleaf pondweed and zebra mussels are present in Roy Lake. Care should be taken by all user groups to prevent their spread to other waters. For more information regarding this and other aquatic invasive species please visit <u>https://sdleastwanted.sd.gov/</u>

Roy Lake Survey Summary

Roy Lake, located 2.0 miles south and 1.0 miles west of Lake City, is managed as a multiple-species fishery including panfish (i.e., bluegill and yellow perch), black bass (i.e., largemouth and smallmouth), northern pike, and walleye; other fish species are present and contribute to the fishery.

- Black crappie. Although not abundant (4.8 per frame net), more black crappies were sampled in 2024 than in previous surveys from 2015 2021. Sampled black crappies ranged in length from 3.5 to 12.6 inches, of those at least 5.0 inches, 37% were ≥ 8.0 inches and 21% were ≥ 10.0 inches. Individuals from seven consecutive year classes (2017 2023) contributed to the catch. Fish from the 2022 (age-2) cohort, which had a mean length of capture of 6.2 inches, were the most abundant accounting for 63% of black crappies in the sample.
- Bluegill. More bluegills were sampled by frame nets in 2024 than in 2021. In 2024, the mean frame net CPUE of 23.4 suggested high relative abundance. Sampled bluegills ranged in length from 3.1 to 9.1 inches, of those that were at least 3.0 inches, 56% were ≥ 6.0 inches and 4% were ≥ 8.0 inches. Individuals from eight year classes (2016 2023) contributed to the catch. Those from cohorts produced in 2020 (age 4), 2021 (age 3), and 2022 (age 2) were the most numerous accounting for > 90% of bluegills in the sample. Since 2015, mean length at capture at age 4 has ranged from 6.5 to 7.2 inches. In 2024, the mean length at capture of age-4 fish was 7.1 inches.
- Northern pike. Northern pike numbers were higher in 2024 than in 2022. At 4.5 per gill net, relative abundance was high. Northern pike from 14.6 to 29.9 inches were netted, 57% were ≥ 21.0 inches and 6% were ≥ 28.0 inches.
- Walleye. Walleyes were not abundant (1.7 per gill net) in 2024. Gill net captured walleyes ranged in length from 8.3 to 26.8 inches, of those that were at least 10.0 inches, 47% were ≥ 15.0 inches and 16% were ≥ 20.0 inches. Eight year classes contributed to the catch, most (8 of 9) were represented by 7 or fewer individuals. Those from the naturally produced 2022 (age-2) cohort were the most abundant accounting 53% of the walleyes in the sample. The oldest walleye collected was from the 2011 (age-13) year class. Although sample sizes are low, walleye growth appears to be good with mean length at captures > 16.0 inches at age 4 in surveys conducted since 2015.
- Yellow perch. Yellow perch were the most abundant species in the 2024 gill net catch. At 11.8 per gill net, relative abundance was considered moderate for Roy Lake. Sampled yellow perch ranged in length from 4.7 to 9.1 inches, of those at least 5.0 inches, only 2% were ≥ 8.0 inches. The entire sample was comprised of fish from three year classes (2019, 2021, and 2022), most (87%) were from the 2021 (age-3) cohort, which had a mean length at capture of 6.1 inches.

For more detailed results see the computer-generated South Dakota Statewide Fisheries Survey for Roy (Marshall; below).

SOUTH DAKOTA STATEWIDE FISHERIES SURVEY Roy, Marshall County UJA-Lake-866-001

2024

Lake Information

| Name: | Roy | Maximum Depth: | 21 Feet |
|---------------|-------------|------------------------|---------|
| County: | Marshall | Mean Depth: | 10 Feet |
| | | OHWM Elevation: | 1,796 |
| Surface Area: | 2,113 Acres | Outlet Elevation: | 1,795 |

Surveys and Investigations

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

| Gear | Date | Effort |
|------------------------|--------------|--------------|
| AFS std gill net | Jul 16, 2024 | 4 net-nights |
| AFS std gill net | Jul 17, 2024 | 4 net-nights |
| AFS std gill net | Jul 18, 2024 | 4 net-nights |
| fall night EF-WAE | Sep 19, 2024 | 2400 seconds |
| frame net (std 3/4 in) | Jul 16, 2024 | 6 net-nights |
| frame net (std 3/4 in) | Jul 17, 2024 | 6 net-nights |
| frame net (std 3/4 in) | Jul 18, 2024 | 6 net-nights |

Common Fish Species Present

Walleye Smallmouth Bass Northern Pike Largemouth Bass Yellow Perch Bluegill Black Crappie Black Bullhead White Sucker Common Carp

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.

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

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.

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

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

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.

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

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).

| | St | ock | Qu | ality | Pref | erred | Mem | orable | Tro | ophy |
|-----------------|------|------|------|-------|------|-------|------|--------|------|------|
| 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

| | | | Abuno | dance | St | ock Der | nsity Indic | es | Cor | dition |
|--------------------|-----------------|--------------------|-------|-------|-----|---------|-------------|-------|-----|--------|
| Gear | Species | Sample Size (n) | CPUE | CI-80 | PSD | CI-80 | PSD-P | CI-80 | Wr | CI-80 |
| AFS std gill net | Black Bullhead | 17 | 1.4 | 0.5 | 88 | | 82 | | 86 | 2 |
| | Black Crappie | 22 | 1.8 | 0.7 | 43 | 17 | 38 | 17 | 109 | 2 |
| | Bluegill | 31 | 2.6 | 0.9 | 84 | | 26 | 12 | 113 | 2 |
| | Common Carp | 3 | 0.3 | 0.2 | 100 | | 100 | | 85 | |
| | Largemouth Bass | 7 | 0.4 | 0.3 | 80 | | 80 | | 120 | 5 |
| | Northern Pike | 54 | 4.5 | 1.0 | 57 | 10 | 6 | | 86 | 1 |
| | Smallmouth Bass | 18 | 1.5 | 0.9 | 89 | | 89 | | 99 | 3 |
| | Walleye | 34 | 2.7 | 1.2 | 47 | 13 | 16 | 10 | 89 | 1 |
| | White Sucker | 20 | 1.7 | 0.7 | 100 | | 80 | | 104 | 2 |
| | Yellow Perch | 143 | 11.8 | 2.7 | 2 | | 0 | | 95 | 1 |
| frame net (std 3/4 | Black Bullhead | 176 | 9.2 | 3.1 | 98 | | 88 | 4 | 82 | 1 |
| in) | Black Crappie | 91 | 4.8 | 1.6 | 37 | 7 | 21 | 6 | 107 | 1 |
| | Bluegill | 421 | 23.4 | 5.1 | 56 | 3 | 4 | 1 | 108 | 1 |
| | Common Carp | 1 | 0.1 | 0.1 | 100 | | 100 | | 96 | |
| | Largemouth Bass | 3 | 0.0 | 0.0 | 0 | | 0 | | | |
| | Northern Pike | 47 | 2.5 | 0.5 | 42 | 11 | 2 | | 84 | 2 |
| | Smallmouth Bass | 6 | 0.3 | 0.3 | 67 | | 33 | | 101 | 2 |
| | Walleye | 2 | 0.1 | 0.1 | 50 | | 50 | | 86 | |
| | White Sucker | 2 | 0.1 | 0.1 | 100 | | 100 | | 105 | 8 |
| | Yellow Perch | 33 | 1.8 | 1.1 | 3 | | 3 | | 92 | 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. *SDGFP standard gill nets used 2015 (Avg excludes 2015); **Methods/Species that ignore stock length; ***AFS standard frame nets used in 2017 (Avg excludes 2017)

| | | | | | | | CPUE | | | | | |
|-------------------------|-----------------|------|------|------|------|------|------|------|------|------|------|-------|
| Gear | Species | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | 2024 | Avg |
| AFS std gill | Black Bullhead | 0.3 | 1.3 | 0.9 | 2.1 | 0.4 | | 0.5 | 0.4 | | 1.4 | 1.00 |
| net* | Black Crappie | 0.2 | 0.3 | 0.2 | 0.8 | 1.4 | | 1.3 | 1.5 | | 1.8 | 1.04 |
| | Bluegill | 0.7 | 0.3 | 0.3 | 1.1 | 0.4 | | 0.8 | 2.9 | | 2.6 | 1.20 |
| | Common Carp | 0.2 | 0.0 | 0.0 | 0.1 | 0.4 | | 0.7 | 0.3 | | 0.3 | 0.26 |
| | Largemouth Bass | 0.0 | 0.1 | 0.0 | 0.1 | 0.4 | | 0.4 | 0.6 | | 0.4 | 0.29 |
| | Northern Pike | 6.0 | 3.2 | 2.3 | 1.7 | 1.0 | | 1.2 | 3.9 | | 4.5 | 2.54 |
| | Smallmouth Bass | 2.3 | 2.6 | 4.2 | 1.1 | 1.2 | | 0.5 | 2.8 | | 1.5 | 1.99 |
| | Walleye | 6.5 | 2.4 | 3.4 | 2.2 | 3.6 | | 3.7 | 1.8 | | 2.7 | 2.83 |
| | White Sucker | 5.0 | 2.8 | 2.8 | 1.9 | 0.7 | | 1.3 | 2.8 | | 1.7 | 2.00 |
| | Yellow Perch | 23.3 | 7.4 | 2.8 | 4.2 | 8.3 | | 6.8 | 7.7 | | 11.8 | 7.00 |
| boat shocker | Largemouth Bass | | 44.0 | | | | 60.0 | | | | | 52.00 |
| boat shocker | Smallmouth Bass | | 3.0 | | | | | | 25.0 | | | 14.00 |
| fall night EF- WAE** | Walleye | 27.0 | 87.0 | 24.5 | 38.0 | | 37.2 | 1.5 | 38.1 | 4.5 | 0.0 | 23.86 |
| frame net (std | Black Bullhead | 3.0 | | 1.4 | | | | 6.2 | | | 9.2 | 6.13 |
| 3/4 in)*** | Black Crappie | 0.3 | | 0.2 | | | | 1.1 | | | 4.8 | 2.07 |
| | Bluegill | 56.6 | | 22.5 | | | | 14.2 | | | 23.4 | 31.40 |
| | Common Carp | 0.0 | | 0.2 | | | | 0.0 | | | 0.1 | 0.03 |
| | Green Sunfish | 0.2 | | 2.0 | | | | 0.0 | | | 0.0 | 0.07 |
| | Largemouth Bass | 0.0 | | 0.1 | | | | 0.1 | | | 0.0 | 0.03 |
| | Northern Pike | 0.5 | | 0.7 | | | | 1.6 | | | 2.5 | 1.53 |
| | Smallmouth Bass | 0.3 | | 0.0 | | | | 0.1 | | | 0.3 | 0.23 |
| | Walleye | 0.0 | | 0.1 | | | | 0.0 | | | 0.1 | 0.03 |
| | White Sucker | 0.2 | | 0.0 | | | | 0.1 | | | 0.1 | 0.13 |
| | Yellow Perch | 2.0 | | 7.8 | | | | 6.7 | | | 1.8 | 3.50 |

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. ***SDGFP standard gill nets used 2015; **AFS standard frame nets used in 2017**

| | | | | | | | Ye | ar | | | | |
|----------------|---------------|-------|------|------|------|------|------|------|------|------|------|------|
| Gear | Species | Index | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | 2024 |
| AFS std gill | Northern Pike | PSD | 81 | 89 | 82 | 65 | 58 | | 36 | 64 | | 57 |
| net* | | PSD-P | 6 | 5 | 4 | 5 | 0 | | 14 | 6 | | 6 |
| | | Wr | 88 | 89 | 89 | 92 | 94 | | 88 | 85 | | 86 |
| | Walleye | PSD | 77 | 76 | 90 | 69 | 65 | | 61 | 52 | | 47 |
| | | PSD-P | 8 | 34 | 34 | 38 | 35 | | 36 | 14 | | 16 |
| | | Wr | 90 | 91 | 87 | 94 | 90 | | 88 | 90 | | 89 |
| | Yellow Perch | PSD | 3 | 2 | 0 | 4 | 1 | | 4 | 5 | | 2 |
| | | PSD-P | 0 | 1 | 0 | 0 | 0 | | 0 | 0 | | 0 |
| | | Wr | 92 | 97 | 102 | 95 | 96 | | 99 | 99 | | 95 |
| frame net (std | Black Crappie | PSD | 33 | | 0 | | | | 21 | | | 37 |
| 3/4 in)** | | PSD-P | 33 | | 0 | | | | 11 | | | 21 |
| | | Wr | 103 | | 113 | | | | 111 | | | 107 |
| | Bluegill | PSD | 2 | | 4 | | | | 24 | | | 56 |
| | | PSD-P | 0 | | 0 | | | | 3 | | | 4 |
| | | Wr | 113 | | 112 | | | | 110 | | | 108 |

Length at Capture

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

Species: Black Crappie

| | | | N | viean Len | igth (expar | nded sam | pie numbe | er) at capt | ure by age | 9 | |
|------------|---------|-------------|---------------|-------------|--------------|-------------|-------------|-------------|------------|------------|-------------|
| Year | Ν | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10+ |
| 2024 | 91 | 110 (2) | 157 (57) | 238 (16) | 273 (5) | 299 (5) | 296 (1) | 317 (5) | | | |
| Species: B | luegill | | | | | | | | | | |
| | | | Ν | lean Len | igth (expar | nded sam | ple numbe | er) at capt | ure by age | e | |
| Year | Ν | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10+ |
| 2024 | 411 | 98 (15) | 120 (127) | 149 (98) | 181 (159) | 204 (2) | 219 (7) | 223 (2) | 223 (2) | | |
| 2021 | 259 | 79 (5) | 110 (193) | 165 (17) | 183 (33) | 197 (11) | 194 (2) | | | | |
| 2017 | 1046 | 72 (643) | 110 (379) | 153 (17) | 164 (7) | | | | | | |
| 2015 | 1358 | 87 (44) | 107 (1291) | 159 (14) | 168 (8) | 232 (2) | | | | | |
| Species: V | Valleye | | | | | | | | | | |
| | | | Ν | lean Len | igth (expar | nded sam | ple numbe | er) at capt | ure by age | e | |
| Year | Ν | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10+ |
| 2024 | 34 | 210 (1) | 329 (18) | 442 (2) | 465 (1) | 466 (7) | 477 (1) | | 627 (1) | | 653 (3) |
| 2022 | 24 | 197 (3) | | 358 (13) | 415 (1) | 492 (3) | 557 (2) | | | | 565 (2) |
| 2021 | 48 | 197 (2) | 282 (18) | 322 (1) | 426 (9) | 502 (4) | | 616 (1) | 599 (1) | 540 (1) | 601 (11) |
| 2019 | 45 | 182 (1) | 293 (15) | 412 (11) | | 487 (5) | 559 (2) | | 549 (7) | 575 (2) | 538 (2) |
| 2018 | 28 | 213 (2) | 326 (8) | 397 (3) | 466 (3) | | 521 (2) | 524 (4) | 557 (3) | 526 (1) | 612 (2) |
| 2017 | 42 | 215 (1) | | 395 (13) | 450 (1) | | 511 (16) | 510 (4) | 547 (4) | | 661 (3) |
| 2016 | 30 | | 285 (6) | 371 (2) | 455 (1) | 476 (9) | 486 (4) | 597 (2) | 626 (1) | | 637 (5) |
| 2015 | 42 | 194 (3) | 282 (2) | 356 (7) | 427 (23) | 443 (4) | 575 (1) | | | | 678 (2) |
| | | () | () | () | (-) | (.) | (.) | | | | (|

| | | | | Mean Len | gth (expai | nded sam | ple numbe | r) at capt | ure by age | 9 | |
|------|-----|-------------|--------------|--------------|-------------|-------------|------------|------------|------------|---|-----|
| Year | Ν | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10+ |
| 2024 | 143 | | 137 (15) | 154 (125) | | 220 (3) | | | | | |
| 2022 | 93 | | 136 (10) | 152 (58) | 182 (15) | 194 (10) | | | | | |
| 2021 | 81 | | 144 (9) | 153 (40) | 170 (30) | 204 (1) | | | | | |
| 2019 | 101 | | 145 (77) | 167 (19) | 183 (1) | 193 (4) | | | | | |
| 2018 | 50 | | 141 (9) | 160 (32) | 175 (8) | 205 (1) | | | | | |
| 2017 | 34 | | 138 (10) | 157 (23) | 186 (1) | | | | | | |
| 2016 | 89 | | 140 (27) | 153 (37) | 165 (22) | 195 (1) | 249 (2) | | | | |
| 2015 | 728 | 99 (187) | 112 (423) | 153 (113) | 194 (2) | 219 (3) | | | | | |

Fish Condition

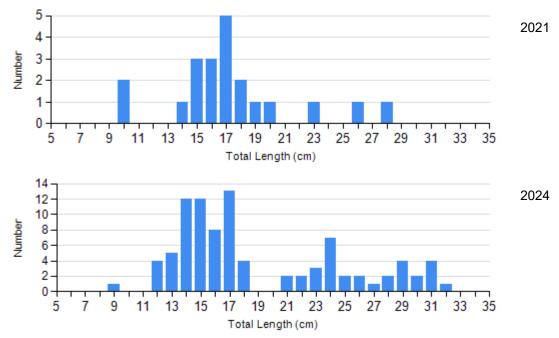
Mean relative weight (Wr) by sample size (N), length category stock to quality (S-Q), quality to preferred (Q-P), preferred to memorable (P-M), and memorable (M) for species collected across survey years with standard error (SE).

| | | | | | Length | Group | S | | |
|----------------------------|------|-----|--------------|-----|--------------|-------|--------------|---|-------------|
| | | | S-Q | | Q-P | | P-M | | М |
| Species | Year | Ν | Wr (SE) | Ν | Wr (SE) | Ν | Wr (SE) | Ν | Wr (SE) |
| Black Crappie Frame Net | 2021 | 15 | 113 (3.0) | 2 | 113 (2.2) | 2 | 102 (3.0) | 0 | |
| | 2024 | 54 | 109 (1.1) | 14 | 106 (1.6) | 11 | 102 (1.7) | 7 | 96 (2.0) |
| Bluegill Frame Net | 2021 | 195 | 109 (0.9) | 54 | 112 (1.2) | 7 | 110 (2.0) | 0 | |
| | 2024 | 187 | 109 (1.0) | 216 | 108 (0.6) | 18 | 106 (1.5) | 0 | |
| Northern Pike Gill Net | 2021 | 9 | 87 (1.4) | 3 | 92 (3.3) | 2 | 88 (0.3) | 0 | |
| | 2022 | 17 | 88 (1.4) | 27 | 83 (1.2) | 2 | 87 (5.0) | 1 | 92 |
| | 2024 | 23 | 87 (1.0) | 28 | 85 (1.5) | 3 | 88 (6.0) | 0 | |
| Walleye Gill Net | 2021 | 17 | 90 (1.1) | 11 | 85 (1.7) | 13 | 88 (2.2) | 3 | 89 (6.6) |
| | 2022 | 10 | 87 (1.4) | 8 | 93 (1.6) | 3 | 91 (2.6) | 0 | |
| | 2024 | 17 | 87 (1.2) | 10 | 89 (1.5) | 3 | 92 (4.3) | 2 | 99 (5.2) |
| Yellow Perch Gill Net | 2021 | 78 | 99 (1.0) | 3 | 95 (2.7) | 0 | | 0 | |
| | 2022 | 87 | 99 (0.8) | 5 | 90 (2.0) | 0 | | 0 | |
| | 2024 | 139 | 96 (0.6) | 3 | 83 (3.6) | 0 | | 0 | |

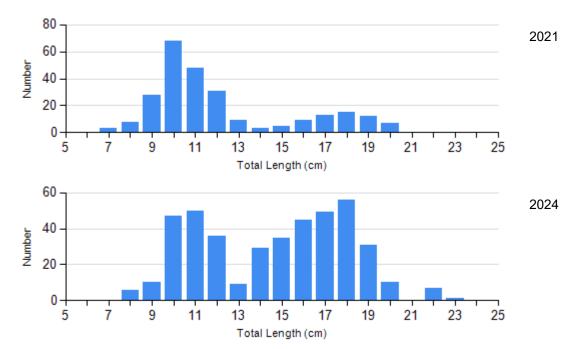
Length Frequency Distribution

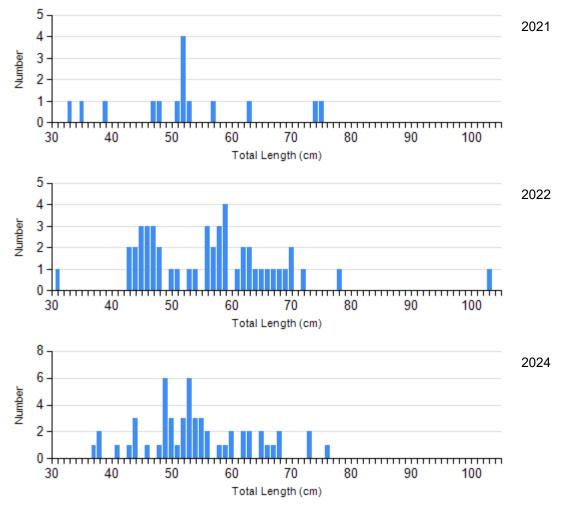
Length frequency histogram of species sampled by year.

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

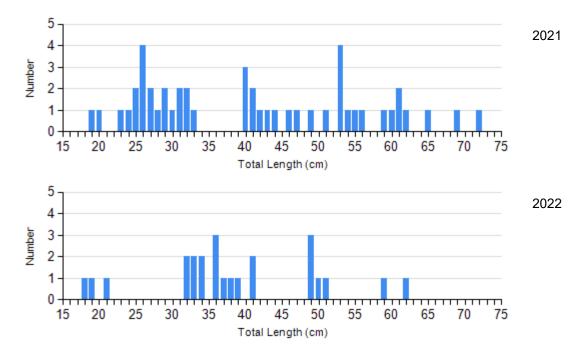


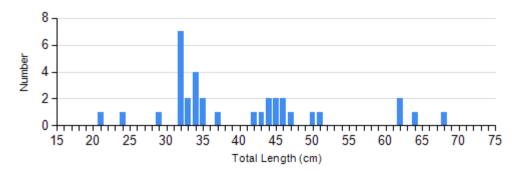
Species: Bluegill Gear: frame net (std 3/4 in)





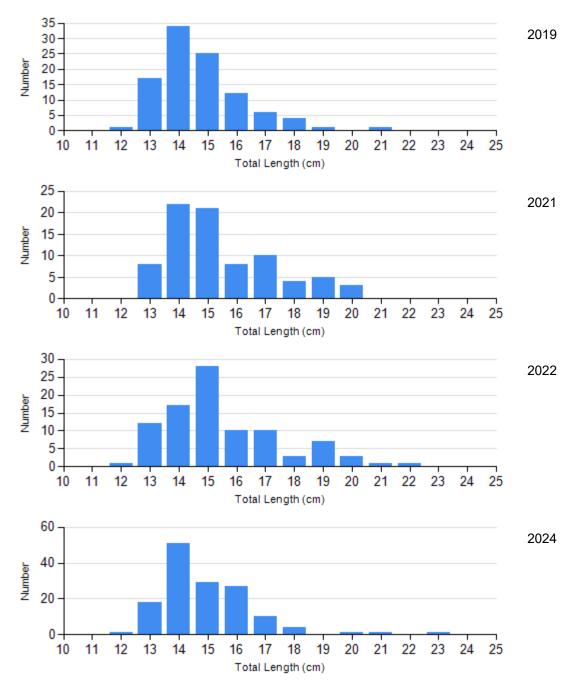
Species: Walleye Gear: AFS std gill net





2024

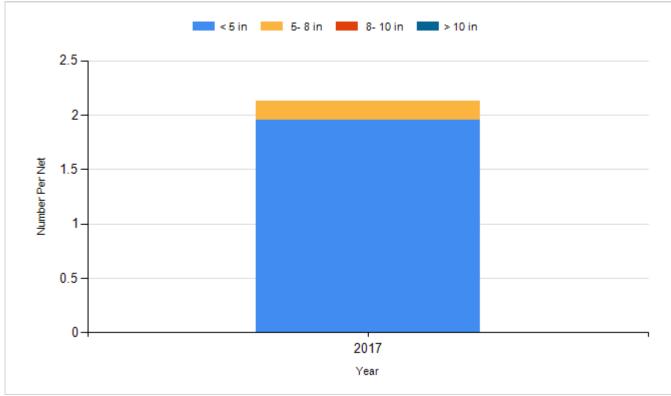
Species: Yellow Perch Gear: AFS std gill net



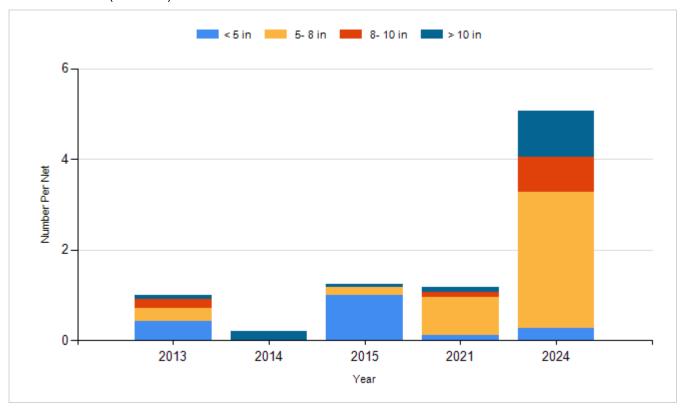
Historic Fish Sizes and Relative Abundance

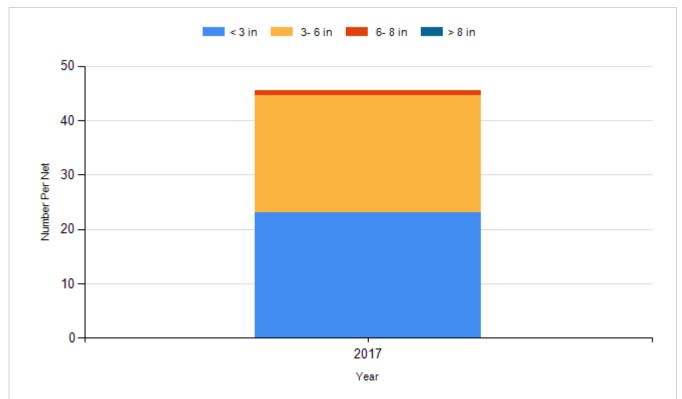
Size distribution per net by color for species sampled by year.

Species: Black Crappie Gear: AFS std frame net

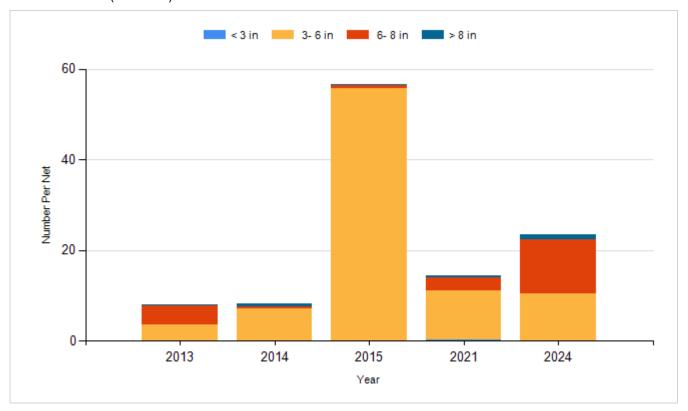


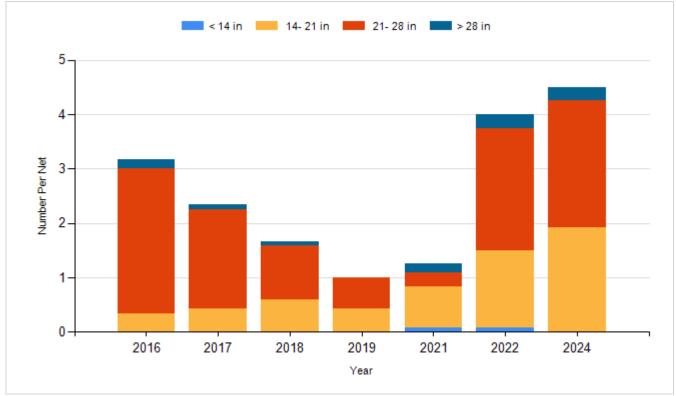
Species: Black Crappie Gear: frame net (std 3/4 in)



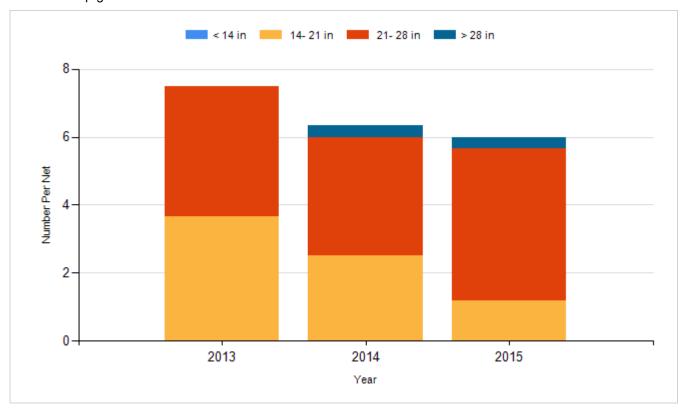


Species: Bluegill Gear: frame net (std 3/4 in)

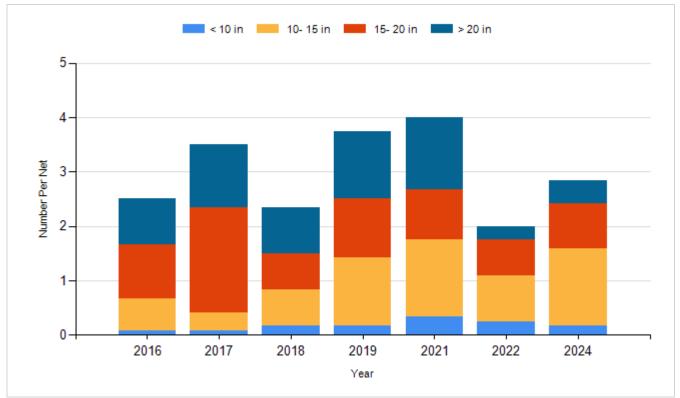




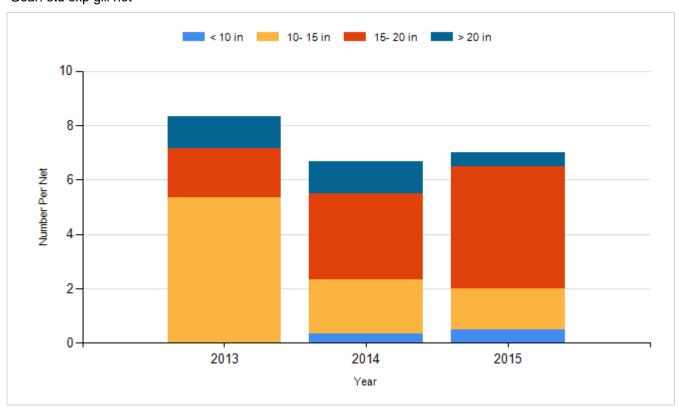
Species: Northern Pike Gear: std exp gill net

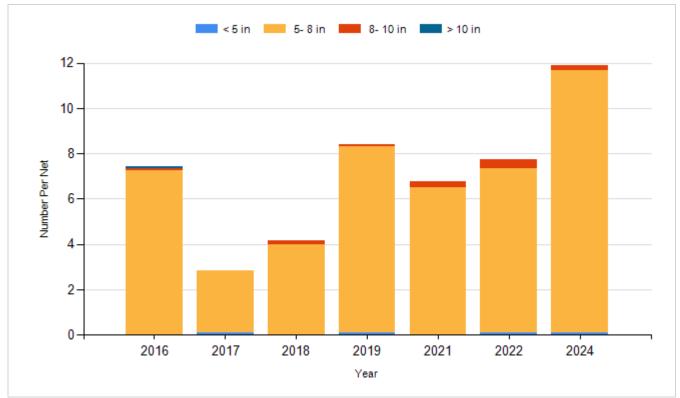


Species: Walleye Gear: AFS std gill net

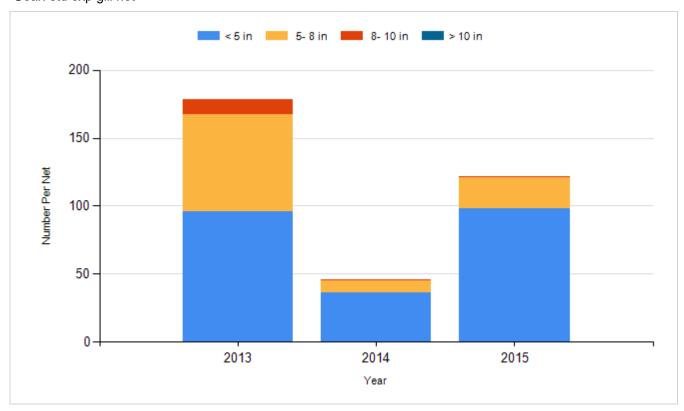


Species: Walleye Gear: std exp gill net





Species: Yellow Perch Gear: std exp gill net



Fish Stocking

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

| Year | Species | Size | Number |
|------|---------|----------|-----------|
| 2013 | Walleye | Fry | 850,000 |
| 2016 | Walleye | Fry | 1,000,000 |
| 2018 | Walleye | Fry | 1,030,000 |
| 2019 | Walleye | Fry | 1,030,000 |
| 2023 | Walleye | Fry | 1,030,000 |
| 2024 | Walleye | Juvenile | 147,200 |
| - | 5 | | , |