

Lake Poinsett Survey Summary

Lake Poinsett, located 7.0 miles west of Estelline, is primarily managed as a walleye and yellow perch fishery but the lake supports a diverse fish community and a variety of species contribute to the fishery.

- **Channel catfish.** Although not abundant, opportunities exist for anglers to catch channel catfish at Lake Poinsett. In 2018, gill nets sampled six individuals that ranged in length from 29.1 to 32.7 inches.
- **Walleye.** Relative abundance (8.8/gill net) was considered moderate to high in 2018. Gill net captured walleyes ranged in length from 6.7 to 27.6 inches; most (82%) were less than 15.0 inches. Six year classes were represented in the gill net catch, those from the 2015 cohort accounted for more than 70% of the walleye catch. Growth of the 2015 year class has been slow through age 3 (mean length = 12.3 inches).
- **White bass.** At 5.8/gill net, relative abundance was similar to that of surveys conducted in 2016 (7.3/gill net) and 2017 (6.2/gill net). Sampled white bass ranged in length from 9.8 to 17.3 inches; most (\approx 70%) were 13.8 to 15.4 inches.
- **Yellow perch.** In 9 of the last 10 years, yellow perch have been the most abundant fish species in the gill net catch. In 2018, the mean gill net CPUE was 22.3 suggesting moderate to high relative abundance. Sampled yellow perch ranged in length from 5.1 to 13.0 inches; most (97%) were >8.0 inches and 56% exceeded 10.0 inches. Five consecutive year classes (2013 – 2017) were represented; those from the 2015 and 2016 cohorts were the most abundant and accounted for nearly 80% of fish sampled. Yellow perch growth appears to be good with age-3 yellow perch exceeding 9.5 inches from 2009 – 2018. In 2018, the mean length at capture of age-3 fish was 10.7 inches.

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

SOUTH DAKOTA STATEWIDE FISHERIES SURVEY

Poinsett, Hamlin County

MBS-Lake-405-000

2018

Lake Information

| | | | |
|----------------------|-------------|--------------------------|---------|
| Name: | Poinsett | Maximum Depth: | 22 Feet |
| County: | Hamlin | Mean Depth: | 17 Feet |
| | | OHWM Elevation: | 1,652 |
| Surface Area: | 7,978 Acres | Outlet Elevation: | 1,651 |

Surveys and Investigations

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

| Gear | Date | Effort |
|-------------------|--------------|--------------|
| AFS std gill net | Jul 24, 2018 | 4 net-nights |
| AFS std gill net | Jul 25, 2018 | 4 net-nights |
| AFS std gill net | Jul 26, 2018 | 4 net-nights |
| fall night EF-WAE | Oct 22, 2018 | 3615 seconds |

Common Fish Species Present

Northern Pike

Walleye

Smallmouth Bass

Yellow Perch

White Bass

White Sucker

Common Carp

Black Crappie

Channel Catfish

Black Bullhead

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) |
| Bigmouth Buffalo | 11 | 28 | 18 | 46 | 24 | 61 | 30 | 76 | 37 | 94 |
| 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 |
| Channel Catfish | 11 | 28 | 16 | 41 | 24 | 61 | 28 | 71 | 36 | 91 |
| Common Carp | 11 | 28 | 16 | 41 | 21 | 53 | 26 | 66 | 33 | 84 |
| Freshwater Drum | 8 | 20 | 12 | 30 | 15 | 38 | 20 | 51 | 25 | 63 |
| Gizzard Shad | 7 | 18 | 11 | 28 | | | | | | |
| Green Sunfish | 3 | 8 | 6 | 15 | 8 | 20 | 10 | 25 | 12 | 30 |
| Lake Herring | 5 | 13 | 8 | 20 | 11 | 28 | 14 | 35 | 17 | 43 |
| 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 |
| Rock Bass | 4 | 10 | 7 | 18 | 9 | 23 | 11 | 28 | 13 | 33 |
| Rudd | 6 | 15 | 10 | 25 | 12 | 30 | 15 | 38 | 19 | 48 |
| Saugeye | 9 | 23 | 14 | 35 | 18 | 46 | 22 | 56 | 27 | 69 |
| Shorthead Redhorse | 6 | 15 | 10 | 25 | 13 | 33 | 16 | 41 | 20 | 51 |
| 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 |
| White Sucker | 6 | 15 | 10 | 25 | 13 | 33 | 16 | 41 | 20 | 51 |
| Yellow Bullhead | 4 | 10 | 7 | 18 | 9 | 23 | 11 | 28 | 14 | 36 |
| Yellow Perch | 5 | 13 | 8 | 20 | 10 | 25 | 12 | 30 | 15 | 38 |

Catch Summary of Stock Length Fish

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

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

| Gear | Species | Abundance | | Stock Density Indices | | | | Condition | |
|--------------------|--------------------|-----------|-------|-----------------------|-------|-------|-------|-----------|-------|
| | | CPUE | CI-80 | PSD | CI-80 | PSD-P | CI-80 | Wr | CI-80 |
| AFS std gill net | Bigmouth Buffalo | 0.3 | 0.2 | 100 | | 0 | | 92 | 5 |
| | Black Bullhead | 0.4 | 0.2 | 80 | | 80 | | 85 | 7 |
| | Black Crappie | 1.3 | 0.6 | 13 | | 7 | | 123 | 6 |
| | Channel Catfish | 0.5 | 0.3 | 100 | | 100 | | 101 | 8 |
| | Common Carp | 1.7 | 0.9 | 35 | 17 | 35 | 17 | 105 | 3 |
| | Northern Pike | 0.2 | 0.2 | 100 | | 100 | | 83 | 11 |
| | Shorthead Redhorse | 0.2 | 0.2 | 100 | | 100 | | 113 | 11 |
| | Smallmouth Bass | 0.6 | 0.3 | 86 | | 43 | | 89 | 2 |
| | Walleye | 8.8 | 2.1 | 19 | 6 | 4 | | 84 | 1 |
| | White Bass | 5.8 | 2.5 | 100 | | 99 | | 103 | 1 |
| | White Sucker | 2.3 | 1.0 | 100 | | 100 | | 104 | 2 |
| Yellow Perch | 22.3 | 5.0 | 97 | 2 | 56 | 4 | 110 | 1 | |
| fall night EF-WAE* | Walleye | 29.8 | 5.9 | | | | | 84 | 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.

* Methods/Species that ignore stock length

| Gear | Species | CPUE | | | | | | | | | | |
|--------------------------|--------------------|-------|------|------|-------|------|-------|---------|-------|------|------|-------|
| | | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | Avg |
| AFS std gill net | Bigmouth Buffalo | | | | | | | | 2.8 | 0.4 | 0.3 | 1.2 |
| | Black Bullhead | | | | | | | | 0.4 | 0.3 | 0.4 | 0.4 |
| | Black Crappie | | | | | | | | 3.9 | 0.8 | 1.3 | 2.0 |
| | Channel Catfish | | | | | | | | 1.1 | 0.8 | 0.5 | 0.8 |
| | Common Carp | | | | | | | | 0.2 | 0.4 | 1.7 | 0.8 |
| | Northern Pike | | | | | | | | 0.0 | 0.1 | 0.2 | 0.1 |
| | Shorthead Redhorse | | | | | | | | 0.0 | 0.0 | 0.2 | 0.1 |
| | Smallmouth Bass | | | | | | | | 0.6 | 0.6 | 0.6 | 0.6 |
| | Walleye | | | | | | | | 8.9 | 12.4 | 8.8 | 10.0 |
| | White Bass | | | | | | | | 7.3 | 6.2 | 5.8 | 6.4 |
| | White Sucker | | | | | | | | 4.5 | 3.0 | 2.3 | 3.3 |
| | Yellow Bullhead | | | | | | | | 0.2 | 0.4 | 0.0 | 0.2 |
| | Yellow Perch | | | | | | | | 25.1 | 14.3 | 22.3 | 20.6 |
| fall night EF-WAE | Walleye | 257.2 | 0.0 | 4.0 | 305.0 | 2.0 | 992.2 | 1,722.0 | 335.0 | 49.7 | 29.8 | 369.7 |
| boat shocker (night, DC) | Smallmouth Bass | | | | 30.6 | | | | 73.5 | | | 52.1 |
| frame net (std 3/4 in) | Bigmouth Buffalo | 1.8 | 0.4 | | 0.0 | 4.2 | 0.5 | | | | | 1.4 |
| | Black Bullhead | 0.3 | 0.2 | | 79.7 | 4.4 | 10.2 | | | | | 19.0 |
| | Black Crappie | 0.0 | 0.1 | | 4.5 | 0.4 | 1.5 | | | | | 1.3 |
| | Bluegill | 0.0 | 0.0 | | 0.1 | 0.0 | 0.0 | | | | | 0.0 |
| | Channel Catfish | 0.1 | 0.4 | | 0.8 | 0.2 | 0.0 | | | | | 0.3 |
| | Common Carp | 1.1 | 0.6 | | 0.3 | 2.7 | 0.2 | | | | | 1.0 |
| | Northern Pike | 0.6 | 0.5 | | 5.9 | 3.6 | 1.0 | | | | | 2.3 |
| | Shorthead Redhorse | 0.1 | 0.0 | | 0.2 | 0.1 | 0.0 | | | | | 0.1 |
| | Smallmouth Bass | 0.3 | 1.7 | | 2.2 | 1.2 | 1.4 | | | | | 1.4 |
| | Walleye | 4.1 | 0.3 | | 4.0 | 1.4 | 2.4 | | | | | 2.4 |
| | White Bass | 0.6 | 0.1 | | 3.1 | 0.4 | 0.8 | | | | | 1.0 |
| | White Sucker | 2.4 | 0.7 | | 1.1 | 0.2 | 0.4 | | | | | 1.0 |
| | Yellow Bullhead | 0.0 | 0.0 | | 19.3 | 2.7 | 6.3 | | | | | 5.7 |
| Yellow Perch | 0.4 | 22.4 | | 0.6 | 0.1 | 0.1 | | | | | 4.7 | |
| std exp gill net | Bigmouth Buffalo | 0.0 | 0.0 | 0.0 | 0.7 | 0.0 | 0.5 | 0.3 | | | | 0.2 |
| | Black Bullhead | 0.2 | 0.0 | 0.0 | 2.5 | 0.2 | 0.5 | 3.2 | | | | 0.9 |
| | Black Crappie | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.3 | 2.0 | | | | 0.3 |
| | Channel Catfish | 0.5 | 0.0 | 0.8 | 2.2 | 2.5 | 0.7 | 0.7 | | | | 1.1 |

| | | | | | | | | |
|------------------------|------|-------|------|------|------|------|-------|------|
| Common Carp | 0.0 | 0.0 | 0.3 | 2.8 | 1.3 | 0.8 | 0.5 | 0.8 |
| Northern Pike | 0.0 | 1.0 | 7.3 | 2.0 | 1.3 | 1.2 | 0.0 | 1.8 |
| Orangespotted Sunfish* | 0.0 | 0.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 |
| Shorthead Redhorse | 0.2 | 0.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.2 | 0.1 |
| Smallmouth Bass | 0.2 | 0.2 | 0.3 | 1.3 | 1.3 | 0.7 | 0.0 | 0.6 |
| Spottail Shiner | 2.0 | 4.7 | 0.0 | 0.0 | 0.5 | 8.8 | 12.7 | 4.1 |
| Walleye | 16.0 | 10.0 | 27.7 | 12.5 | 6.7 | 11.7 | 15.3 | 14.3 |
| White Bass | 3.5 | 3.5 | 1.3 | 2.2 | 0.8 | 0.8 | 2.2 | 2.0 |
| White Sucker | 0.2 | 2.7 | 2.7 | 2.3 | 4.3 | 3.5 | 3.0 | 2.7 |
| Yellow Bullhead | 0.0 | 0.0 | 0.0 | 2.7 | 0.3 | 0.0 | 0.3 | 0.5 |
| Yellow Perch | 13.2 | 137.2 | 22.0 | 22.0 | 15.0 | 40.5 | 124.2 | 53.4 |

10-Year Size Structure and Condition Statistics by Gear and Species

Species proportional size distribution (PSD), proportional size distribution of preferred length fish (PSD-P), and relative weight (Wr) collected by different gear types across 10 years.

| Gear | Species | Index | Year | | | | | | | | | | | |
|------------------|--------------|-------|------|------|------|------|------|------|------|------|------|------|-----|-----|
| | | | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | | |
| AFS std gill net | Walleye | PSD | | | | | | | | | 18 | 7 | 19 | |
| | | PSD-P | | | | | | | | | 5 | 1 | 4 | |
| | | Wr | | | | | | | | | 82 | 79 | 84 | |
| | White Bass | PSD | | | | | | | | | | 98 | 99 | 100 |
| | | PSD-P | | | | | | | | | | 96 | 99 | 99 |
| | | Wr | | | | | | | | | | 102 | 100 | 103 |
| | Yellow Perch | PSD | | | | | | | | | | 99 | 99 | 97 |
| | | PSD-P | | | | | | | | | | 84 | 57 | 56 |
| | | Wr | | | | | | | | | | 115 | 115 | 110 |
| std exp gill net | Walleye | PSD | 17 | 32 | 16 | 57 | 48 | 44 | 30 | | | | | |
| | | PSD-P | 2 | 2 | 5 | 4 | 8 | 4 | 1 | | | | | |
| | | Wr | 91 | 95 | 85 | 82 | 85 | 91 | 88 | | | | | |
| | White Bass | PSD | 100 | 95 | 100 | 54 | 100 | 100 | 62 | | | | | |
| | | PSD-P | 100 | 90 | 100 | 54 | 80 | 100 | 23 | | | | | |
| | | Wr | 111 | 105 | 100 | 88 | 96 | 104 | 102 | | | | | |
| | Yellow Perch | PSD | 27 | 9 | 93 | 83 | 81 | 26 | 92 | | | | | |
| | | PSD-P | 15 | 3 | 5 | 55 | 23 | 11 | 14 | | | | | |
| | | Wr | 107 | 107 | 107 | 107 | 110 | 115 | 110 | | | | | |

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+ |
| 2018 | 110 | 233 (5) | 304 (2) | 313 (78) | 390 (21) | | | 631 (1) | | 662 (3) | |
| 2017 | 140 | 201 (3) | 272 (79) | 361 (55) | | | | | 522 (3) | | |
| 2016 | 203 | 229 (74) | 355 (121) | 436 (1) | 476 (2) | 463 (3) | | 599 (1) | | | 628 (1) |
| 2015 | 125 | 255 (97) | | 408 (12) | 451 (8) | | 462 (7) | | | | 540 (1) |
| 2014 | 70 | 264 (1) | 317 (12) | 361 (32) | 422 (2) | 458 (22) | 581 (1) | | | | |
| 2013 | 41 | | 280 (8) | 371 (12) | 409 (18) | 528 (1) | 556 (1) | 623 (1) | | | |
| 2012 | 87 | 205 (12) | 307 (1) | 394 (68) | 476 (2) | 508 (2) | 577 (1) | | | 706 (1) | |
| 2011 | 166 | | 346 (145) | 441 (7) | 499 (8) | 547 (3) | 444 (2) | | 535 (1) | | |
| 2010 | 85 | 249 (51) | 369 (21) | 436 (8) | 480 (3) | | 517 (2) | | | | |
| 2009 | 99 | 265 (47) | 358 (44) | 468 (2) | 478 (3) | 497 (1) | 514 (1) | 580 (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+ |
| 2018 | 268 | 132 (1) | 223 (111) | 271 (100) | 288 (30) | 309 (25) | | | | | |
| 2017 | 157 | | 229 (65) | 279 (10) | 280 (79) | | 317 (3) | | | | |
| 2016 | 326 | 143 (3) | 234 (24) | 272 (282) | 284 (16) | | | 337 (1) | | | |
| 2015 | 745 | 153 (16) | 224 (570) | 252 (146) | 295 (13) | | | | | | |
| 2014 | 246 | 154 (140) | 180 (56) | 244 (41) | 234 (2) | 306 (8) | | | | | |
| 2013 | 90 | 147 (8) | 213 (56) | 246 (7) | 277 (19) | | | | | | |
| 2012 | 132 | 157 (23) | 227 (11) | 259 (98) | | | | | | | |
| 2011 | 132 | 156 (6) | 228 (126) | | | | | | | | |
| 2010 | 825 | 167 (762) | 240 (47) | 280 (14) | 328 (2) | | | | | | |
| 2009 | 80 | 147 (59) | 246 (19) | 313 (1) | 325 (1) | | | | | | |

Fish Condition

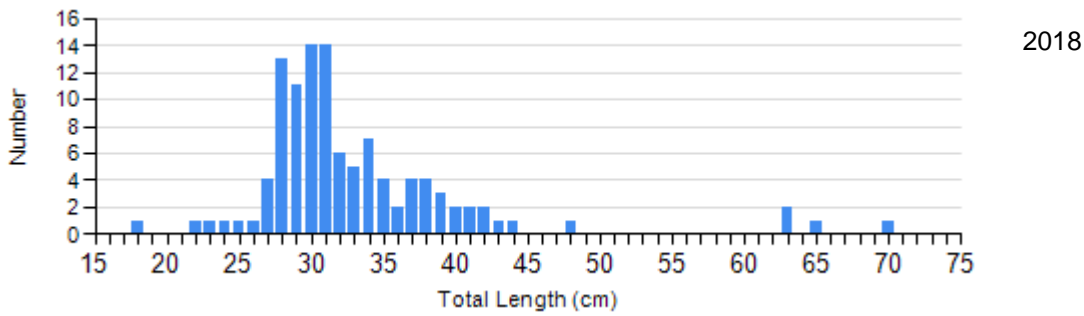
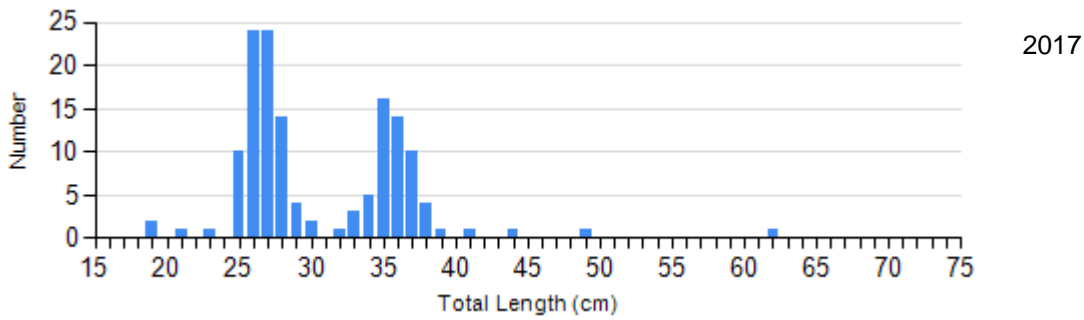
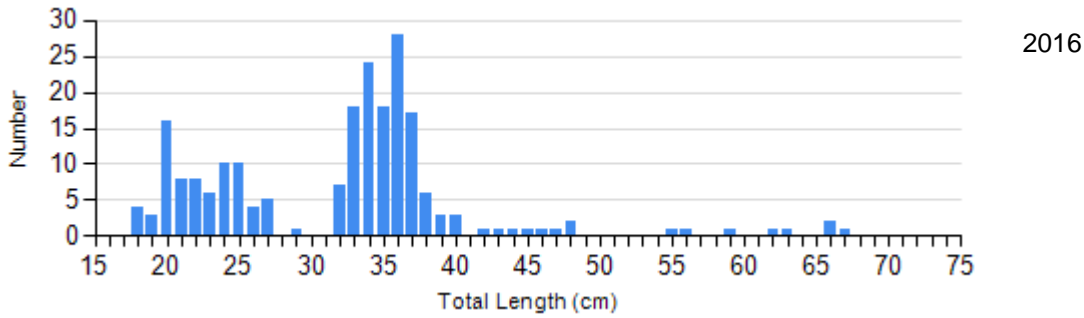
Mean relative weight (Wr) by sample size (N), length category stock to quality (S-Q), quality to preferred (Q-P), preferred to memorable (P-M), and memorable (M) for species collected across survey years with standard error (SE).

| Species | Year | Length Groups | | | | | | | |
|--------------------------|------|---------------|--------------|-----|--------------|-----|--------------|----|--------------|
| | | S-Q | | Q-P | | P-M | | M | |
| | | N | Wr (SE) | N | Wr (SE) | N | Wr (SE) | N | Wr (SE) |
| Walleye Gill Net | 2014 | 39 | 88 (0.8) | 28 | 94 (1.4) | 3 | 93 (0.7) | 0 | |
| | 2015 | 64 | 87 (0.7) | 27 | 91 (1.4) | 1 | 89 | 0 | |
| | 2016 | 132 | 82 (0.4) | 20 | 81 (1.1) | 4 | 87 (4.6) | 4 | 92 (5.0) |
| | 2017 | 127 | 79 (0.5) | 8 | 79 (2.8) | 1 | 88 | 0 | |
| | 2018 | 86 | 84 (0.6) | 16 | 84 (2.1) | 0 | | 4 | 91 (1.4) |
| White Bass Gill Net | 2018 | 0 | | 1 | 112 | 46 | 104 (0.8) | 22 | 102 (1.1) |
| White Bass Gill Net | 2014 | 0 | | 0 | | 2 | 103 (5.3) | 3 | 104 (4.1) |
| | 2015 | 5 | 103 (3.0) | 5 | 103 (1.3) | 0 | | 3 | 99 (4.1) |
| | 2016 | 2 | 100 (5.4) | 2 | 97 (7.3) | 84 | 102 (0.8) | 7 | 101 (2.7) |
| | 2017 | 1 | 94 | 0 | | 61 | 100 (0.7) | 6 | 100 (1.5) |
| Yellow Perch Gill Net | 2014 | 181 | 114 (0.8) | 35 | 123 (1.6) | 21 | 117 (1.9) | 6 | 115 (2.7) |
| | 2015 | 59 | 105 (1.5) | 583 | 111 (0.6) | 96 | 109 (1.3) | 7 | 107 (2.2) |
| | 2016 | 4 | 100 (3.7) | 47 | 117 (1.4) | 267 | 115 (0.6) | 8 | 107 (3.9) |
| | 2017 | 2 | 104 (1.5) | 66 | 110 (1.2) | 71 | 120 (1.2) | 18 | 113 (1.9) |
| | 2018 | 7 | 117 (5.1) | 112 | 108 (1.2) | 112 | 113 (1.2) | 37 | 109 (1.7) |

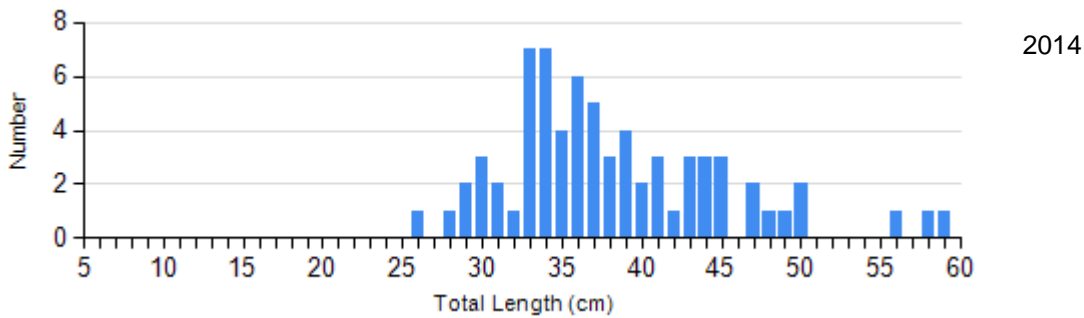
Length Frequency Distribution

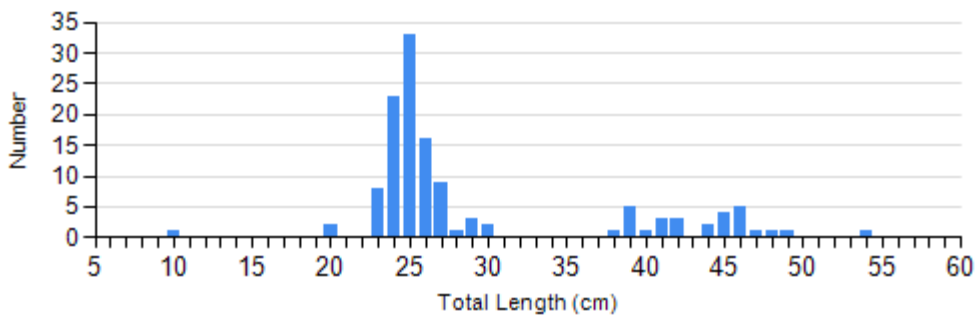
Length frequency histogram of species sampled by year.

Species: Walleye
Gear: AFS std gill net

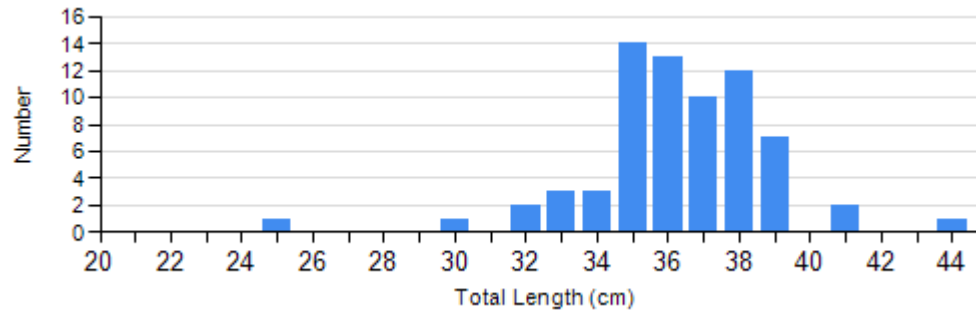
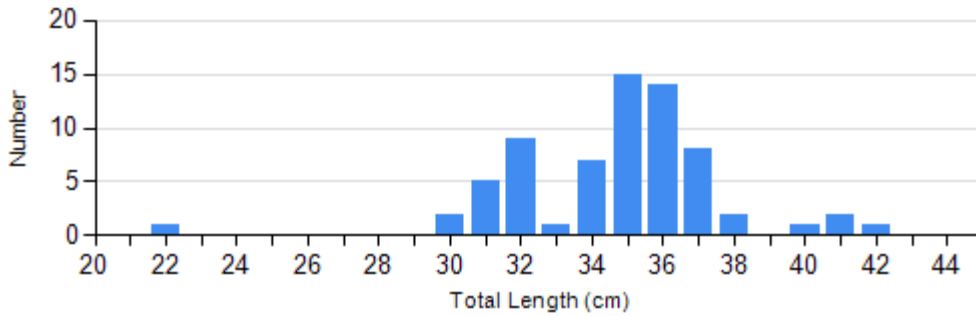
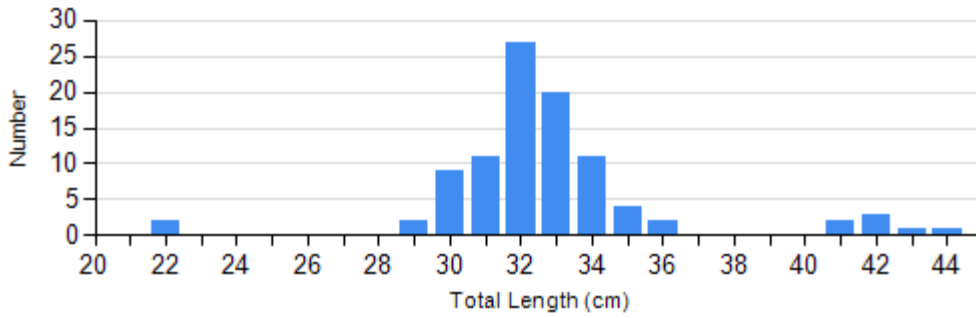


Species: Walleye
Gear: std exp gill net

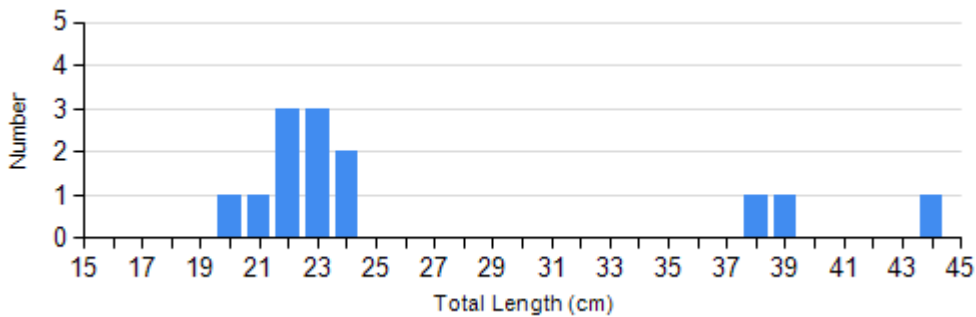




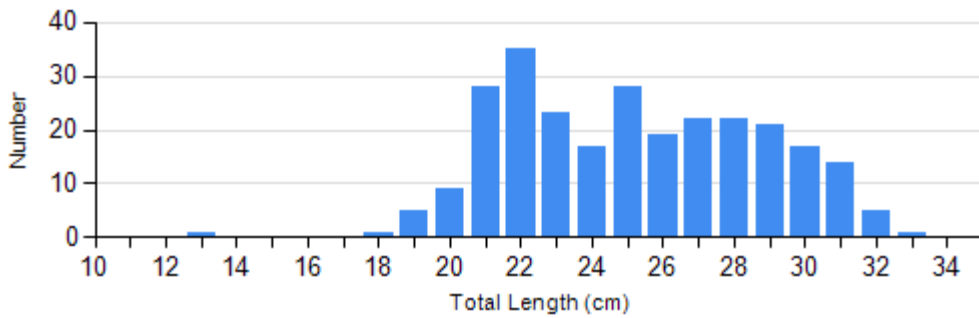
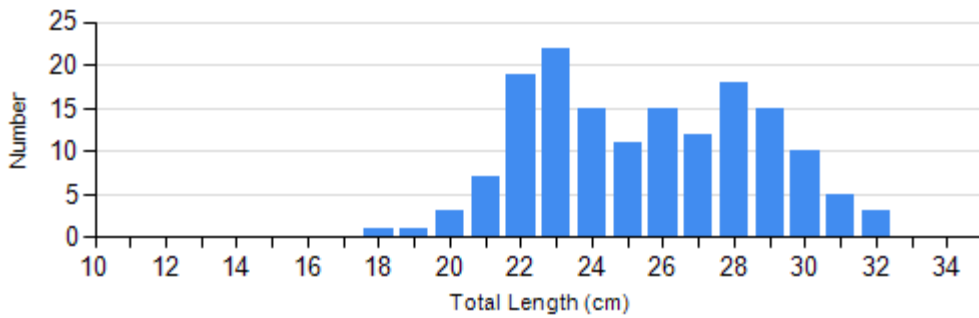
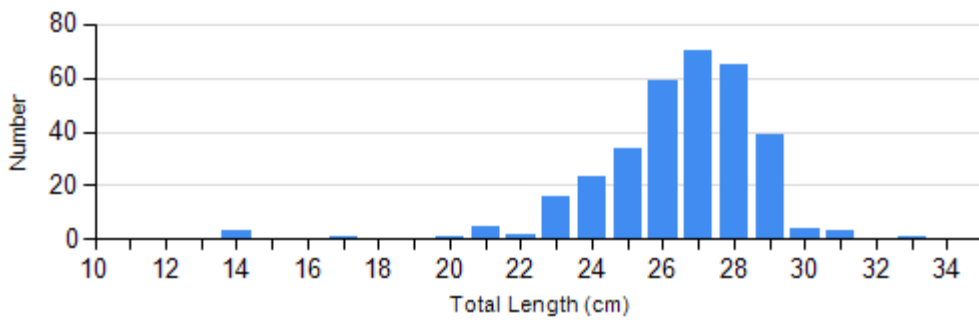
Species: White Bass
Gear: AFS std gill net



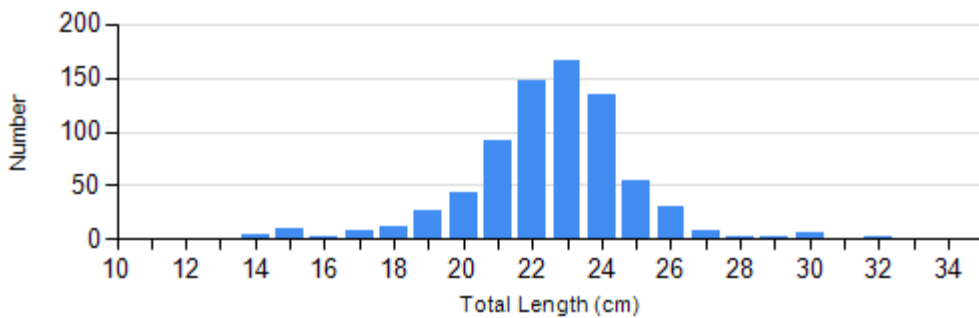
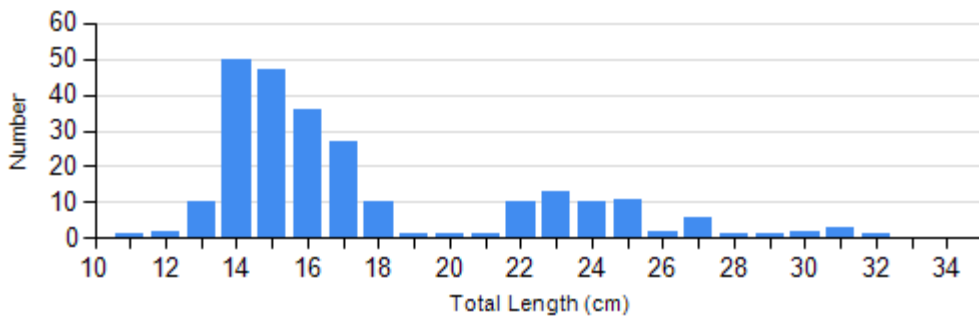
Species: White Bass
Gear: std exp gill net



Species: Yellow Perch
Gear: AFS std gill net



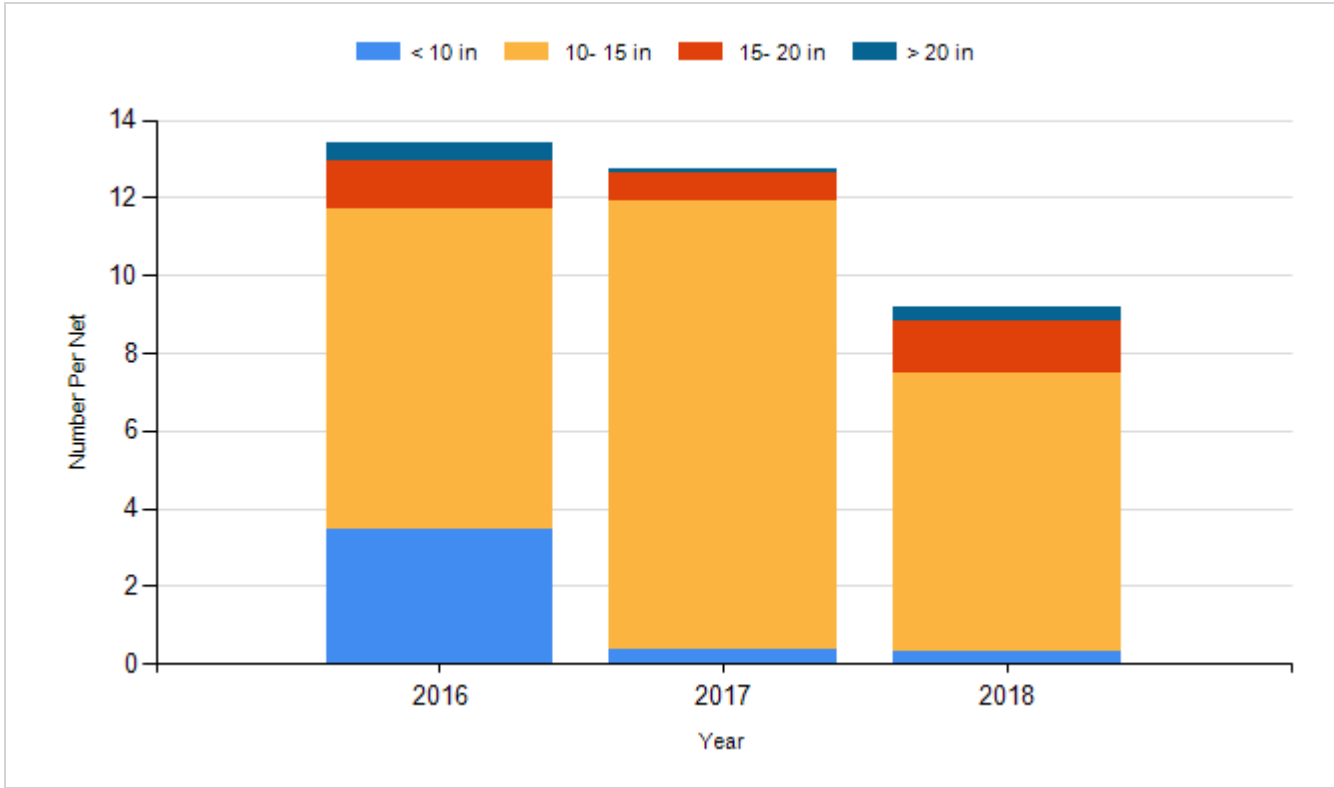
Species: Yellow Perch
Gear: std exp gill net



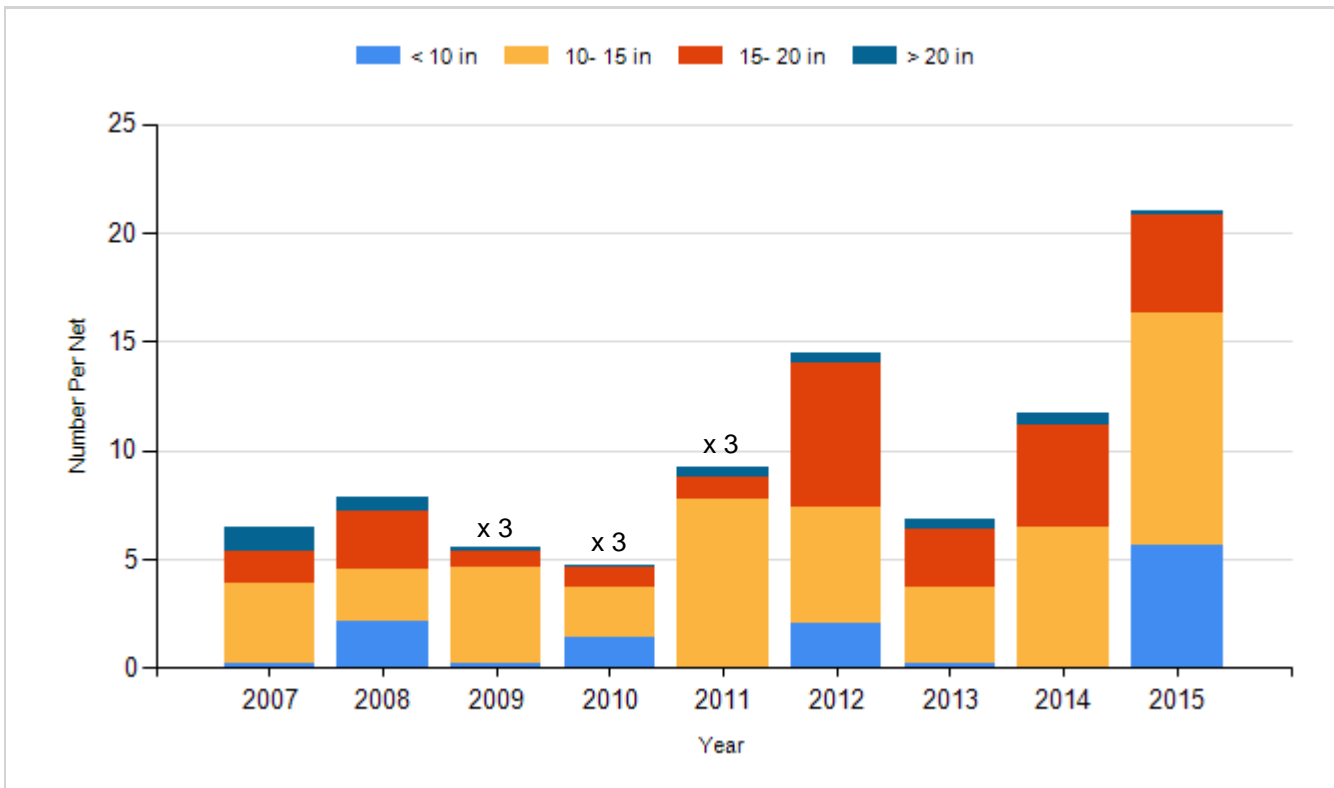
Historic Fish Sizes and Relative Abundance

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

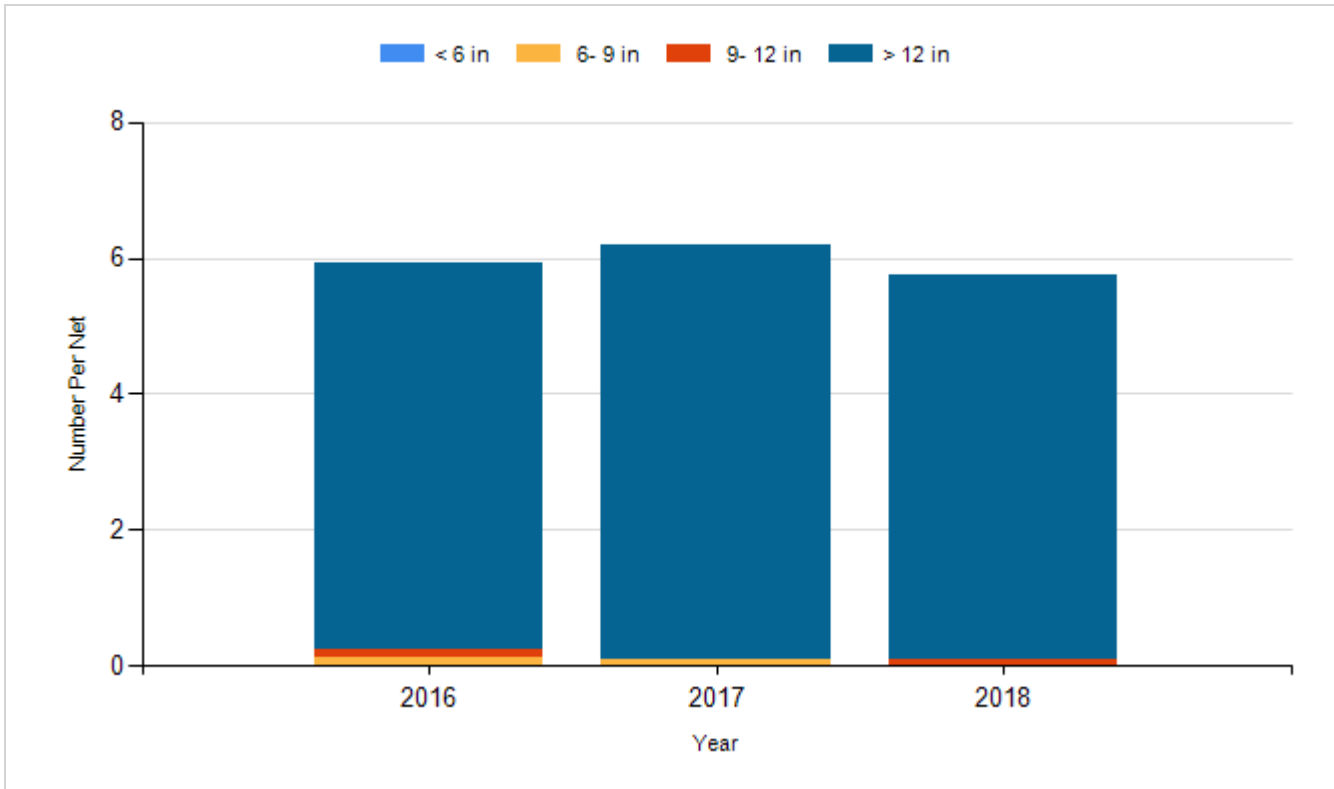
Species: Walleye
Gear: AFS std gill net



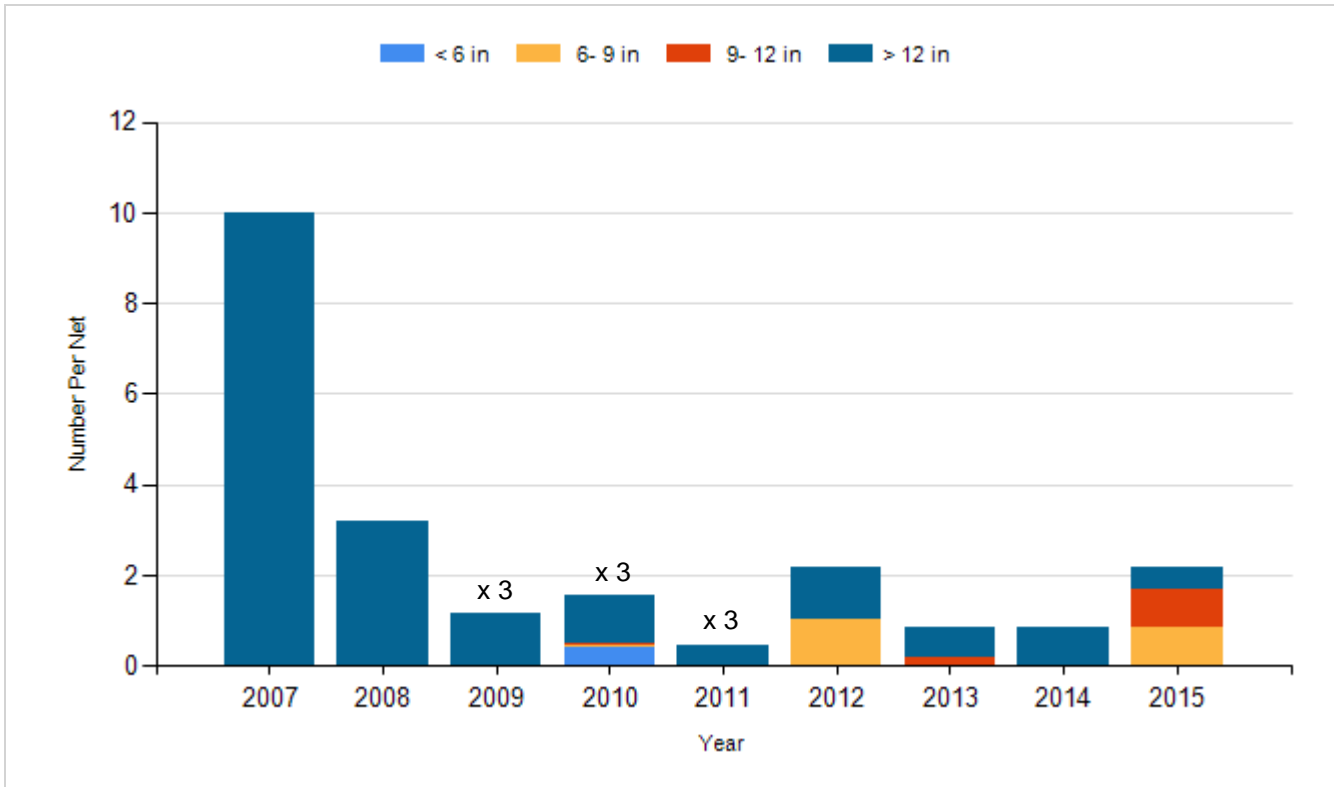
Species: Walleye
Gear: std exp gill net



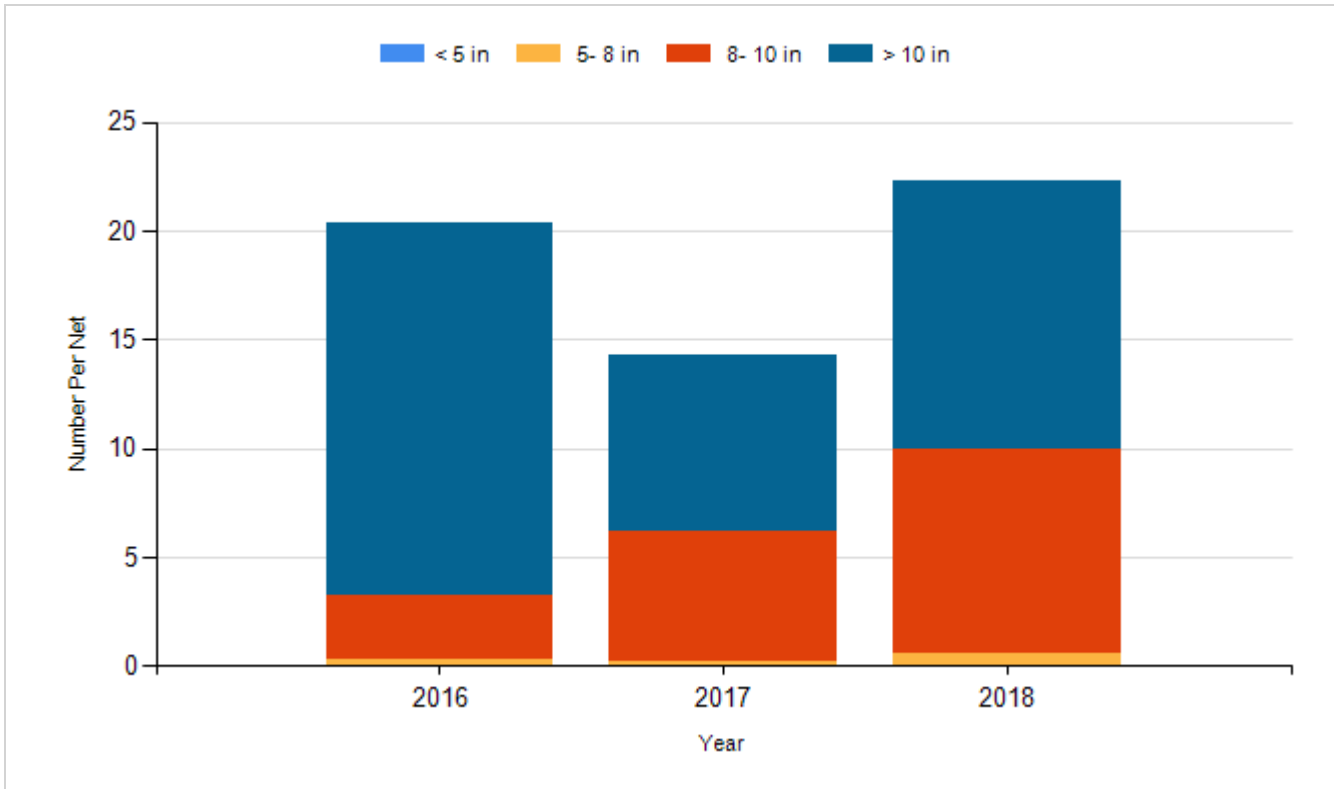
Species: White Bass
Gear: AFS std gill net



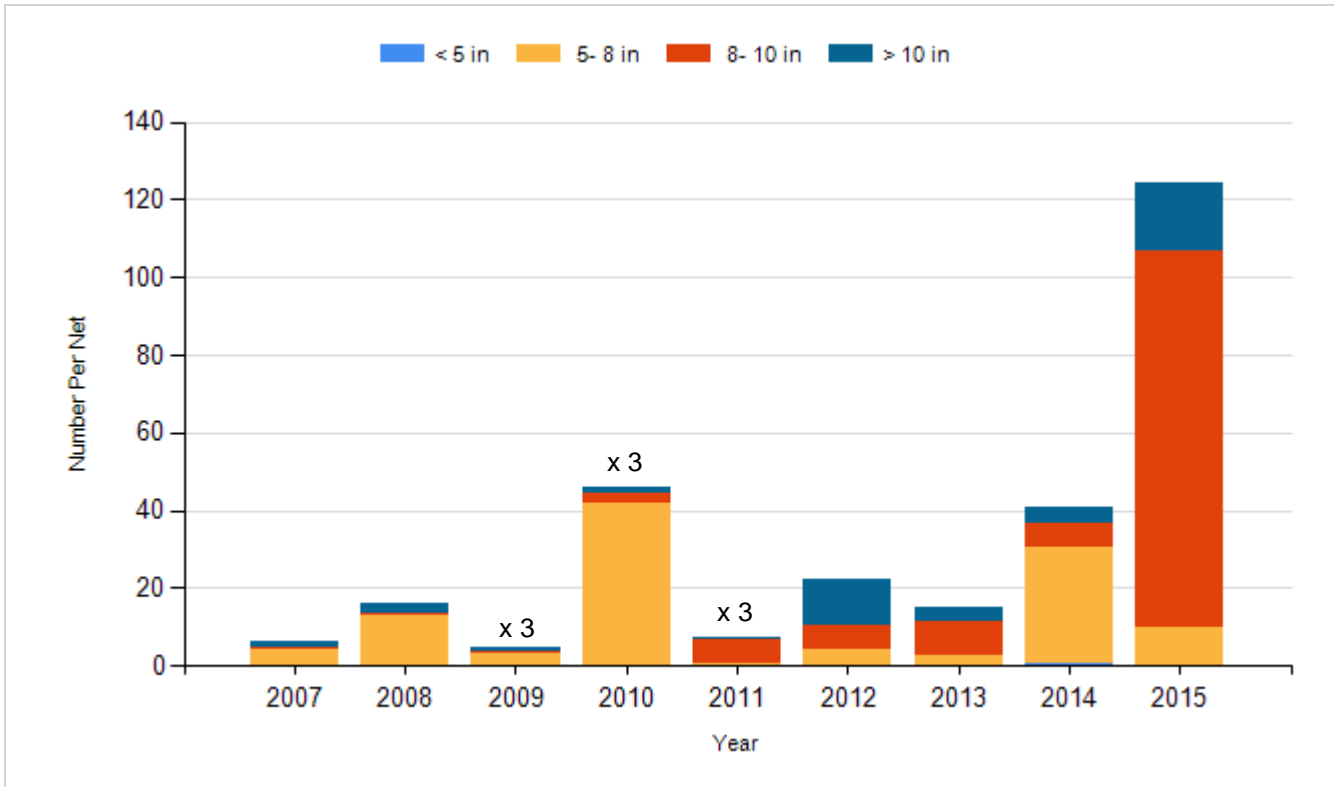
Species: White Bass
Gear: std exp gill net



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 |
|------|---------|------|-----------|
| 2009 | Walleye | Fry | 4,000,000 |
| 2011 | Walleye | Fry | 3,000,000 |
| 2012 | Walleye | Fry | 4,000,000 |
| 2014 | Walleye | Fry | 4,000,000 |