

Fixed, Random, and Targeted Site Sampling Downstream of the Electric Dispersal Barrier

Electrofishing:

- Crews from IDNR and USFWS completed 37 electrofishing runs at fixed and random sites (9.25 hours total) in the Dresden Island and Marseilles Pools in July.
- They collected 1,054 fish representing 40 species and 1 hybrid group.
- No Bighead Carp and 2 adult Silver Carp were collected in the Marseilles Pool.
- **No Asian carp were captured or observed in the Dresden Island Pool.**

Hoop and Mini Fyke Netting:

- Crews from IDNR set and pulled 16 hoop nets and 16 mini fykes from fixed sites in Lockport, Brandon Road, Dresden Island and Marseilles Pools in July.
- Crews collected 76 fish representing 9 species during hoop net sampling and 932 fish representing 28 species and 1 hybrid group during mini fyke sampling.
- No Bighead Carp and 1 Silver Carp was collected during hoop net sampling in the Marseilles Pool.
- **No Bighead Carp or Silver Carp were reported captured or observed during hoop net sampling in the Lockport, Brandon Road or Dresden Island Pools.**
- **No Bighead Carp or Silver Carp were reported captured or observed during mini fyke sampling in any of the pools.**

Commercial Netting:

- Contracted commercial fishers along with assisting IDNR biologists set 16.5 miles of gill net at fixed and targeted sites in the Lockport, Brandon Rd and Dresden Island Pools (including Rock Run Rookery) in July.
- They collected 348 fish representing 8 species.
- Fourteen Silver Carp were collected in the Dresden Island Pool, downstream of I-55.
- No Bighead Carp or Silver Carp were collected above I-55 in Dresden Island
- **No Bighead Carp or Silver Carp were captured or observed in the Lockport or Brandon Road Pools.**

Sampling results by pool below the electric dispersal barrier through July 2018, along with the same time period in 2016 and 2017 for comparison:

Lockport Pool

| | 2016 | 2017 | 2018 |
|----------------------------------|--------|--------|--------|
| Yards of Net Fished | 55,400 | 41,400 | 50,500 |
| Miles of Net Fished | 31.5 | 23.5 | 28.7 |
| Hoop Net Nights | 30.3 | 25.1 | 24.8 |
| Mini Fyke Net Nights | 14.7 | 13.9 | 12.9 |
| Electrofishing Runs | 71 | 68 | 27 |
| Electrofishing Time (hrs) | 17.8 | 17.0 | 6.8 |
| Total Asian Carp (AC) | 0 | 0 | 0 |
| Tons of AC Harvested | 0 | 0 | 0 |

Brandon Road Pool

| | 2016 | 2017 | 2018 |
|----------------------------------|-------------|-------------|-------------|
| Yards of Net Fished | 51,050 | 46,600 | 48,000 |
| Miles of Net Fished | 32850 | 26.5 | 27.3 |
| Hoop Net Nights | 30.5 | 27.7 | 23.4 |
| Mini Fyke Net Nights | 14.9 | 15.7 | 10.8 |
| Electrofishing Runs | 68 | 71 | 24 |
| Electrofishing Time (hrs) | 17 | 17.8 | 6 |
| Total Asian Carp (AC) | 0 | 0 | 0 |
| Tons of AC Harvested | 0 | 0 | 0 |

Dresden Island Pool

| | 2016 | 2017 | 2018 |
|--|-------------|-------------|-------------|
| Yards of Net Fished | 46,700 | 49,500 | 96,600 |
| Miles of Net Fished | 26.5 | 28.1 | 54.9 |
| Hoop Net Nights | 30.2 | 319.5 | 23 |
| Mini Fyke Net Nights | 15.8 | 15.4 | 11.7 |
| Electrofishing Runs | 131 | 132 | 93 |
| Electrofishing Time (hrs) | 32.8 | 33 | 23.3 |
| Asian Carp (AC) upstream I-55 | 11 | 15 | 3 |
| AC downstream I-55 | 199 | 475 | 836 |
| Total AC | 210 | 490 | 839 |
| Tons of AC Harvested | 1.4 | 3.8 | 7.1 |
| AC/1000 yds of gill net | 4.2 | 10.2 | 9.3 |

Rock Run Rookery

| | 2016 | 2017 | 2018 |
|--------------------------------|-------------|-------------|-------------|
| Yards of Net Fished | 29,150 | 23,450 | 26,000 |
| Miles of Net Fished | 16.6 | 13.3 | 14.8 |
| Pound Net nights | 0 | 0 | 4 |
| Bighead Carp | 121 | 152 | 56 |
| Silver Carp | 29 | 24 | 50 |
| Total Asian Carp (AC) | 150 | 176 | 106 |
| Tons of AC Harvested | 2.4 | 2.9 | 1.5 |
| AC/1000 yds of gill net | 5.1 | 9.2 | 4.1 |

Horseshoe Lake black carp removal

A multiple agency assessment for the presence of Black Carp at Horseshoe Lake (37.140197 -89.350684) near Miller City, Illinois took place on July 16, 2018 through July 20, 2018. Electrofishing, commercial gill/trammel netting, hoop netting and tandem fyke nets were used to detect and remove Black Carp. Crews collected 4,152 fish with all capture gears representing 26 species and one hybrid group. **Thirteen Black Carp, 336 Bighead Carp, 11 Grass Carp, 1 Silver CarpXBighead Carp and 537 Silver Carp were removed from Horseshoe Lake during that week of sampling.**

Electrofishing:

- Crews from USFWS completed 5 electrofishing runs at targeted sites (5.25 hours total).
- Crews collected 2 Bighead Carp, 2 Grass Carp and 300 Silver Carp
- Bycaught species were not recorded
- **No Black Carp where captured during electrofishing**

Gill/trammel netting:

- Contracted commercial fishers along with assisting IDNR biologist, USFWS biologist, WIU students or SIU students set 11.9 miles of gill/trammel net at targeted sites
- Crews captured 1,284 individual fish representing 18 species
- **Six Black Carp, 281 Bighead Carp, 1 Grass Carp and 189 Silver Carp were captured with contracted commercial gill/trammel netting**

Hoop netting:

- Crews from the IDNR and USFWS set and pulled 38 hoop nets at targeted sites totaling 87.82 net nights of sampling
- Crews captured 2,393 individual fish representing 22 species and 1 hybrid group
- **Five Black Carp, 51 Bighead Carp, 7 Grass Carp, 1 Silver CarpXBighead Carp hybrid and 47 Silver Carp were captured with hoop netting**

Tandem fyke netting:

- Crews from IDNR set and pulled four tandem trap nets at targeted sites for a total of 10.25 net nights
- One hundred and seventy fish from 19 species were captured
- **Two Black Carp, 2 Bighead Carp, and 1 Silver carp were captured with tandem fyke netting**

Barrier Defense Asian Carp Removal Project

Barrier Defense specifically takes place in the Marseilles and Starved Rock Pools. Below is a summary of all IDNR Barrier Defense activities through July 2018, along with the same time period in 2016 and 2017 for comparison:

Overall

| | 2016 | 2017 | 2018 |
|----------------------------|---------|---------|---------|
| Number of Days Fished | 52 | 44 | 53 |
| Number of Net Crew Days | 310 | 223 | 233 |
| Yards of Net Fished | 284,595 | 206,680 | 207,400 |
| Miles of Nets Fished | 161.7 | 117.4 | 117.8 |
| Number of Pound Net Nights | 67 | 74 | 21 |
| Number of Hoop Net Nights | 768.8 | 879.8 | 1217.2 |
| Number of Bighead Carp | 6,672 | 2,054 | 2,644 |
| Number of Silver Carp | 66,773 | 70,734 | 68,471 |
| Number of Grass Carp | 415 | 651 | 704 |
| Number of Asian Carp (AC) | 73,860 | 73,439 | 71,819 |
| Tons of AC Harvested | 273.5 | 256.7 | 269.6 |
| AC/1000 yds of gill net | 210.0 | 281.3 | 318.2 |

Marseilles Pool

| | 2016 | 2017 | 2018 |
|---------------------------|---------|---------|---------|
| Yards of Net Fished | 216,475 | 141,530 | 110,100 |
| Miles of Nets Fished | 123 | 80.4 | 62.6 |
| Pound Net nights | 20 | 35 | 15 |
| Hoop Net nights | 116.1 | 72 | 248.2 |
| Mini Fyke Net Nights | 15.4 | 15.5 | 11.7 |
| Electrofishing Runs | 96 | 74 | 85 |
| Electrofishing Time (hrs) | 24 | 18.5 | 21.3 |
| Bighead Carp | 5,182 | 1,114 | 1,314 |
| Silver Carp | 38,394 | 23,399 | 26,089 |
| Grass Carp | 60 | 54 | 34 |
| Total Asian Carp | 43,636 | 24,567 | 27,437 |
| Tons of AC Harvested | 187.3 | 107.8 | 132.5 |
| AC/1000 yds of gill net | 157.3 | 159.7 | 234.8 |

Starved Rock Pool

| | 2016 | 2017 | 2018 |
|--------------------------------|-------------|-------------|-------------|
| Yards of Net Fished | 68,120 | 65,150 | 97,300 |
| Miles of Nets Fished | 38.7 | 37 | 55.3 |
| Hoop Net nights | 683.1 | 831.2 | 992.6 |
| Bighead Carp | 1,499 | 942 | 1,331 |
| Silver Carp | 29,008 | 47,714 | 42,451 |
| Grass Carp | 373 | 612 | 678 |
| Total Asian Carp | 30,880 | 49,268 | 44,460 |
| Tons of AC Harvested | 86.2 | 148.9 | 137.1 |
| AC/1000 yds of gill net | 377.6 | 545.3 | 412.6 |