

## 2018 November Summary

**Bottom Line:** Multiple agencies participated in monitoring Asian Carp in the upper Illinois Waterway downstream of the Electric Dispersal Barrier during November. **NO LIVE BIGHEAD CARP, BLACK CARP, GRASS CARP, OR SILVER CARP were found in any new locations immediately downstream of the Electric Dispersal Barrier.**

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

#### *Commercial Netting:*

- Contracted commercial fishers along with assisting Illinois Department of Natural Resources (IDNR) biologists set 14.5 miles of gill net at fixed and targeted sites in the Lockport, Brandon Rd and Dresden Island Pools (including Rock Run Rookery) in November.
- Crews collected 775 fish representing 11 species during November.
- One Bighead Carp, 2 Grass Carp, and 50 Silver Carp were collected in Dresden Island Pool, downstream of I-55 during November.
- No Bighead Carp, Black Carp, Grass Carp, or Silver Carp were collected above I-55 in Dresden Island Pool during commercial netting during November.
- One Bighead Carp and 6 Silver Carp were collected in Rock Run during commercial netting during November.
- **No Bighead Carp, Black Carp, Grass Carp or Silver Carp were captured or observed in Lockport or Brandon Road Pools during November.**

#### *Electrofishing:*

- Crews from IDNR, United Fish and Wildlife Service (USFWS), and United States Army Corps of Engineers (USACE) completed 57 electrofishing runs at fixed and random sites (14.25 hours total) in Lockport Pool, Brandon Road Pool, Dresden Island Pool, and Marseilles Pool during November.
- They collected 3,940 fish representing 39 species and 2 hybrid group.
- **One Silver Carp were captured in the Dresden Island Pool during electrofishing.**
- **Five Silver Carp were captured in the Marseilles pool during electrofishing.**

#### *Hoop and Mini Fyke Netting:*

- Crews from IDNR set and pulled 16 hoop nets and 16 mini fykes at fixed sites in Lockport, Brandon Road, Dresden Island and Marseilles Pools in November.
- Crews collected 11 fish representing 6 species during hoop net sampling and 686 fish representing 21 species and 1 hybrid group during mini fyke sampling.
- **No Bighead Carp, Black Carp, Grass Carp, or Silver Carp were reported, captured, or observed during hoop net sampling in Lockport, Brandon Road, Dresden Island, or Marseilles Pools in November.**
- **No Bighead Carp, Black Carp, Grass Carp, or Silver Carp were captured, reported, or observed during mini fyke sampling in Lockport, Brandon Road, Dresden Island, or Marseilles Pools during November.**

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

*Lockport Pool*

	2016	2017	2018
Yards of Net Fished	100,775	87,300	76,900
Miles of Net Fished	57.3	49.6	43.7
Hoop Net Nights	61.0	46.6	56.8
Mini Fyke Net Nights	29.8	25.2	28.9
Electrofishing Runs	127	130	169
Electrofishing Time (hrs)	31.8	32.5	42.25
Total Asian Carp (AC)	0	0	0
Tons of AC Harvested	0	0	0

*Brandon Road Pool*

	2016	2017	2018
Yards of Net Fished	92,025	99,275	77,500
Miles of Net Fished	52.3	56.4	44.0
Hoop Net Nights	60.9	50.3	55.0
Mini Fyke Net Nights	30.0	27.1	26.6
Electrofishing Runs	128	129	156
Electrofishing Time (hrs)	32.0	32.3	39
Total Asian Carp (AC)	0	0	0
Tons of AC Harvested	0	0	0

*Dresden Island Pool*

	2016	2017	2018
Yards of Net Fished	88,625	130,900	195,000
Miles of Net Fished	50.4	74.4	110.8
Hoop Net Nights	61.4	343.3	52.2
Mini Fyke Net Nights	31.7	30.9	27.6
Electrofishing Runs	235	192	210
Electrofishing Time (hrs)	58.8	48.0	52.5
Asian Carp (AC) upstream I-55	13	28	7
AC downstream I-55	298	568	1,486
Total AC	311	596	1,493
Tons of AC Harvested	2.1	4.9	13.7
AC/1000 yds of gill net	3.3	4.5	7.9

*Rock Run Rookery*

	<b>2016</b>	<b>2017</b>	<b>2018</b>
<b>Yards of Net Fished</b>	49,625	40,800	35,400
<b>Miles of Net Fished</b>	28.2	23.2	20.1
<b>Pound Net nights</b>	0	4	8
<b>Bighead Carp</b>	135	179	61
<b>Silver Carp</b>	34	70	64
<b>Grass Carp</b>	2	1	1
<b>Total Asian Carp (AC)</b>	169	249	125
<b>Tons of AC Harvested</b>	2.7	3.8	1.7
<b>AC/1000 yds of gill net</b>	3.4	5.7	3.6

**Asian Carp Removal Project**

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

*Overall*

	<b>2016</b>	<b>2017</b>	<b>2018</b>
<b>Number of Days Fished</b>	98	89	81
<b>Number of Net Crew Days</b>	694	667	561
<b>Yards of Net Fished</b>	493,425	417,260	355,500
<b>Miles of Nets Fished</b>	280.4	237.1	202.0
<b>Number of Pound Net Nights</b>	67	74	22
<b>Number of Hoop Net Nights</b>	768.7	987.2	1628.8
<b>Number of Bighead Carp</b>	7,869	2,640	2,987
<b>Number of Silver Carp</b>	132,312	137,132	116,307
<b>Number of Grass Carp</b>	634	972	1093
<b>Number of Asian Carp (AC)</b>	140,815	140,744	120,387
<b>Tons of AC Harvested</b>	490.4	481.6	454.2
<b>AC/1000 yds of gill net</b>	255.5	299.1	322.6

*Marseilles Pool*

	<b>2016</b>	<b>2017</b>	<b>2018</b>
<b>Yards of Net Fished</b>	344,575	243,360	144,800
<b>Miles of Nets Fished</b>	195.8	138.3	82.3
<b>Pound Net nights</b>	67	74	22
<b>Hoop Net nights</b>	144.2	98.0	279.2
<b>Mini Fyke Net Nights</b>	29.4	28.0	27.6
<b>Electrofishing Runs</b>	156	132	156

<b>Electrofishing Time (hrs)</b>	39.0	33.0	39.0
<b>Bighead Carp</b>	5,901	1,534	1,371
<b>Silver Carp</b>	58,998	41,561	31,494
<b>Grass Carp</b>	101	69	43
<b>Total Asian Carp</b>	65,000	43,164	32,908
<b>Tons of AC Harvested</b>	283.2	190.5	157.5
<b>AC/1000 yds of gill net</b>	159.2	165.1	217.7

*Starved Rock Pool*

	<b>2016</b>	<b>2017</b>	<b>2018</b>
<b>Yards of Net Fished</b>	148,850	173,900	210,700
<b>Miles of Nets Fished</b>	84.6	98.8	119.7
<b>Hoop Net nights</b>	683.1	938.6	1403.7
<b>Bighead Carp</b>	1,988	1,115	1,618
<b>Silver Carp</b>	74,245	96,037	84,895
<b>Grass Carp</b>	567	922	1059
<b>Total Asian Carp</b>	76,800	98,074	87,572
<b>Tons of AC Harvested</b>	211.2	298.4	297.1
<b>AC/1000 yds of gill net</b>	478.2	486.5	394.7

**Using Long-term Asian Carp Abundance and Movement Data to Reduce Uncertainty of Management Decisions**

Southern Illinois University—Center for Fisheries, Aquaculture, and Aquatic Science conducted mobile hydroacoustic surveys in the LaGrange and Alton pools to assess Asian carp densities. Telemetry receivers in Dresden Island, Marseilles, and Starved Rock pools were also downloaded. Hydroacoustic and telemetry data are currently being analyzed.

**Alternate Pathway Surveillance in Illinois - Law Enforcement**

The Illinois Department of Natural Resources Invasive Species Unit (ISU) inspected a licensed aquaculture facility in Boone county as part of the Illinois Department of Natural Resources Law Enforcement random commercial inspection program. There were no violations or illegal species detected. The facility and relevant purchase and sales records were inspected. ISU inspected a fish market in Cook county, identified a live illegal state threatened species for sale, and discovered the business was selling aquatic life without the required dealer's license. ISU answered questions from a fisherman about the legality of snagging for Silver carp in the Hennepin Canal in Bureau County.