

Busse Reservoir – North Lateral Pool Population Survey



Located in Elk Grove Village south of Higgins Rd. between RT 53/I-290 and Arlington Heights Rd. Busse Reservoir is comprised of three pools making up a total of 457-acres of water. The North Pool is the smallest at 17 acres and has a depth of 14.2 feet. Largemouth Bass and Channel Catfish are the top predators in the North Pool. Bluegill, sunfish, bullheads, Yellow Bass, Yellow Perch, and crappie can be found in all three pools. In 2013 the District and IDNR began stocking Rainbow Trout every fall. An Illinois fishing license with an Inland Trout Stamp is required to fish for trout. Barrier free fishing walls are located on all three pools. Watercraft are not permitted on the North Pool. The North Pool is a designated ice-skating lake, **No ice fishing is permitted.**

Fish Population Survey

Fish population surveys are periodically conducted on Forest Preserves lakes in order to assess the health of the lake and the fish population in it. Surveys last anywhere from a few hours to a few days depending on the size of the lake.

Fish are collected during surveys to assess the health of the population. Several methods are used to collect fish, these include experimental gill nets, Fyke or trap nets and the use of an electro-fishing boat. All fish collected are measured, weighed and a scale sample is collected when applicable. These scale samples are used to age the fish. All fish are then returned to the lake when possible.

Water samples are collected and analyzed for each survey. The information collected over the years will show trends in the lake's health. If any unusual readings are found, further tests may be done, or the Illinois DNR and EPA may be asked to investigate.

The information listed below was collected during the most recent survey. It is only a snapshot in time. Many factors such as temperature, wind, rain and even moonlight can affect the species and number of fish that are collected. The Forest Preserves' Fisheries Section looks at data from many years when assessing a lake's fish population and assumptions from just one year of data therefore should not be made.

The dates of the survey along with the type of equipment used and the length of time it was fished is listed below. The "Total Population" tables & charts show all species collected and includes not only game fish but also forage fish. A healthy balanced population of forage fish and predatory (game) fish is needed in order to support a healthy overall fish population. Ideally, 30 to 40% of a lake's total fish population should be made up of forage fish in order to support a healthy predatory fish population. The species of forage fish varies from lake to lake, Gizzard Shad may be the main forage fish in one lake, while Bluegill/sunfish may be the main forage fish in another

Individual species tables are included only for the game fish that were collected. Game fish are those fish most sought after by anglers.

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Date of survey: September 14 – 16, 2021

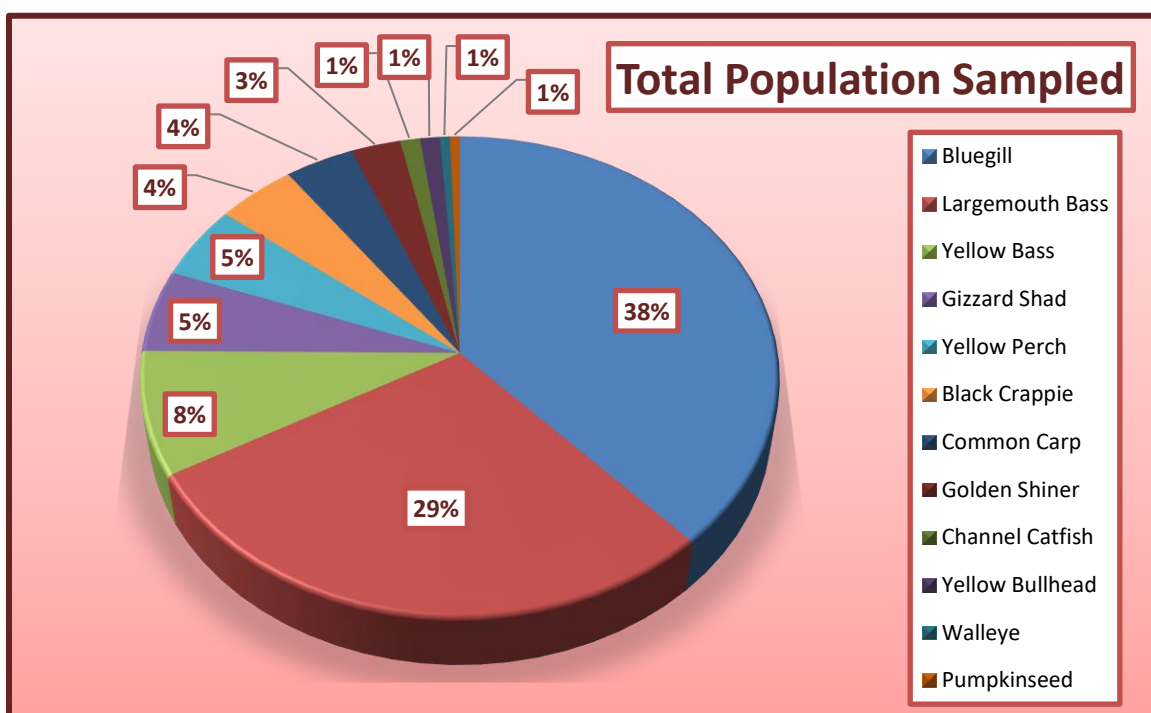
Electro-fishing time: 35 minutes

Fyke nets fished: 0 hours

500 feet of gill nets fished: 24 hours

Total Population Sampled

Species	Number	Percent
Bluegill	69	38.12%
Largemouth Bass	52	28.73%
Yellow Bass	15	8.29%
Gizzard Shad	10	5.52%
Yellow Perch	9	4.97%
Black Crappie	8	4.42%
Common Carp	7	3.87%
Golden Shiner	5	2.76%
Channel Catfish	2	1.10%
Yellow Bullhead	2	1.10%
Walleye	1	0.55%
Pumpkinseed	1	0.55%
Total	181	99.98%



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Bluegill

1/2-Inch Group	Number Collected	% of Population	Average Weight lbs.	Age
1.5	1	1.43%	0.002	0+
2.0	6	8.57%	0.004	0+
2.5	9	12.86%	0.01	0+
3.0	9	12.86%	0.02	0-1+
3.5	12	17.14%	0.03	1+
4.0	7	10.00%	0.04	1+
4.5	9	12.86%	0.06	2+
5.0	13	18.57%	0.09	2-3+
5.5	2	2.86%	0.13	3+
6.0	2	2.86%	0.14	3+
Totals	70	100.01%		

Largemouth Bass

1/2-Inch Group	Number Collected	% of Population	Average Weight lbs.	Age
3.0	3	5.77%	0.02	0-1+
-	-	-	-	-
4.5	1	1.92%	0.04	1+
5.0	2	3.85%	0.06	1+
5.5	1	1.92%	0.07	1+
-	-	-	-	-
6.5	5	9.62%	0.14	1-2+
7.0	2	3.85%	0.18	1-2+
7.5	1	1.92%	0.19	2+
8.0	3	5.77%	0.26	2+
8.5	3	5.77%	0.31	2+
9.0	2	3.85%	0.34	2-3+
9.5	2	3.85%	0.42	2-3+
-	-	-	-	-
10.5	2	3.85%	0.56	3+
11.0	8	15.38%	0.59	3-4+
11.5	5	9.62%	0.76	4+
12.0	4	7.69%	0.85	4-5+
-	-	-	-	-
13.0	1	1.92%	0.94	5+
13.5	3	5.77%	1.24	5+
14.0	4	7.69%	1.36	5-6+
Totals	52	100.01%		

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Yellow Bass

1/2-Inch Group	Number Collected	% of Population	Average Weight lbs.	Age
9.5	1	6.67%	0.4	2+
10.0	3	20.00%	0.50	2+
10.5	7	46.67%	0.58	3+
11.0	4	26.67%	0.64	3+
Totals	15	100.00%		

Yellow Perch

1/2-Inch Group	Number Collected	% of Population	Average Weight lbs.	Age
5.0	1	11.11%	0.08	1+
-	-	-	-	-
6.5	1	11.11%	0.16	1+
-	-	-	-	-
7.5	2	22.22%	0.19	3+
8.0	2	22.22%	0.23	3+
8.5	2	22.22%	0.25	3+
-	-	-	-	-
10.0	1	11.11%	0.45	4+
Totals	9	99.99%		

Black Crappie

1/2-Inch Group	Number Collected	% of Population	Average Weight lbs.	Age
5.0	2	25.00%	0.07	1+
-	-	-	-	-
6.5	1	12.50%	0.15	3+
7.0	2	25.00%	0.19	3+
7.5	1	12.50%	0.19	3+
-	-	-	-	-
8.5	2	12.50%	0.29	3+
Totals	8	100.00%		

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Common Carp

1/2-Inch Group	Number Collected	% of Population	Average Weight lbs.	Age
21.0	1	14.29%	6.66	7+
-	-	-	-	-
27.0	2	28.57%	12.16	8+
-	-	-	-	-
28.5	2	28.57%	12.50	9+
29.0	1	14.29%	11.59	9+
-	-	-	-	-
34.0	1	14.29%	25.26	10+
Totals	7	100.01%		

Other Species collected

Species	Number	Length	Weight	Age
Channel Catfish	2	20.5 – 22.5	3.24 – 4.82	NA
Yellow Bullhead	2	10.0 – 10.5	0.45 – 0.68	NA
Walleye	1	25.0	5.25	7+
Pumpkinseed	1	4.0	0.06	2+

Stocking

The Forest Preserves of Cook County works closely with the Illinois Department of Natural Resources to stock fishes within the Forest Preserves lakes. The decision to stock fish and the number of fish stocked is based on many factors including but not limited to type of species, size of fish stocked, size of the lake and type of stocking. The Forest Preserves of Cook County must follow State of Illinois regulation regarding the introduction and stocking of fish. All requests to stock a new species into a District lake must go through the State's Management Recommendation Committee.

Most stocking fall under one of three categories, introduction, supplemental and put-and-take. Introduction stockings are the introduction of a new species within an existing lake or the stocking of a new body of water. Supplemental stockings are the stocking of species already in a lake and are used to supplement a species that may not successively reproduce on its own or has been overfished. Fish stocked in a put-and-take stocking are catchable size fish.

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Size of Fish Stocked

Most of the fish stocked in the lakes of the Forest Preserves of Cook County are young-of-the-year and are provided by the IDNR Hatcheries. Fish from the hatcheries are stocked upon availability and are funded by your fishing licenses.

Rainbow Trout are stocked in the ½ to 1-pound range. Trout stockings are funded by your trout stamps and the FPCC. Spring trout season opens on the 1st Saturday in April, and the fall season opens on the 3rd Saturday in October. **Trout are stocked in the North Pool of Busse Reservoir only in the fall.**

Species	2019	2020	2021	2022	2023
Rainbow Trout	4,886	4,228	5,917	4,660	3,977