

# Powderhorn Lake Population Survey



Located in the village of Burnham on Brainard Ave. ¼ mile east of Burnham Ave. With a maximum depth of 17.4 feet this 48-acre lake is connected to a large marsh on the north. This marsh has been designated a wildlife refuge and a Nature Preserve by the State of Illinois; **No fishing is permitted in this area.** Powderhorn Lake has a very good self-reproducing population of Northern Pike; additional species found here include Largemouth Bass, Grass Pickerel, Bluegill, sunfish, crappie, Yellow Perch, and bullheads. A boat launch can be found at the main parking lot. For acceptable watercraft and general boating regulations see the District's Fishing Guide. Designated ice fishing lake.

## 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.

Water samples are collected and analyzed for each survey. The information collected over the years will show trends to 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.

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.

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 moon light 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 lakes 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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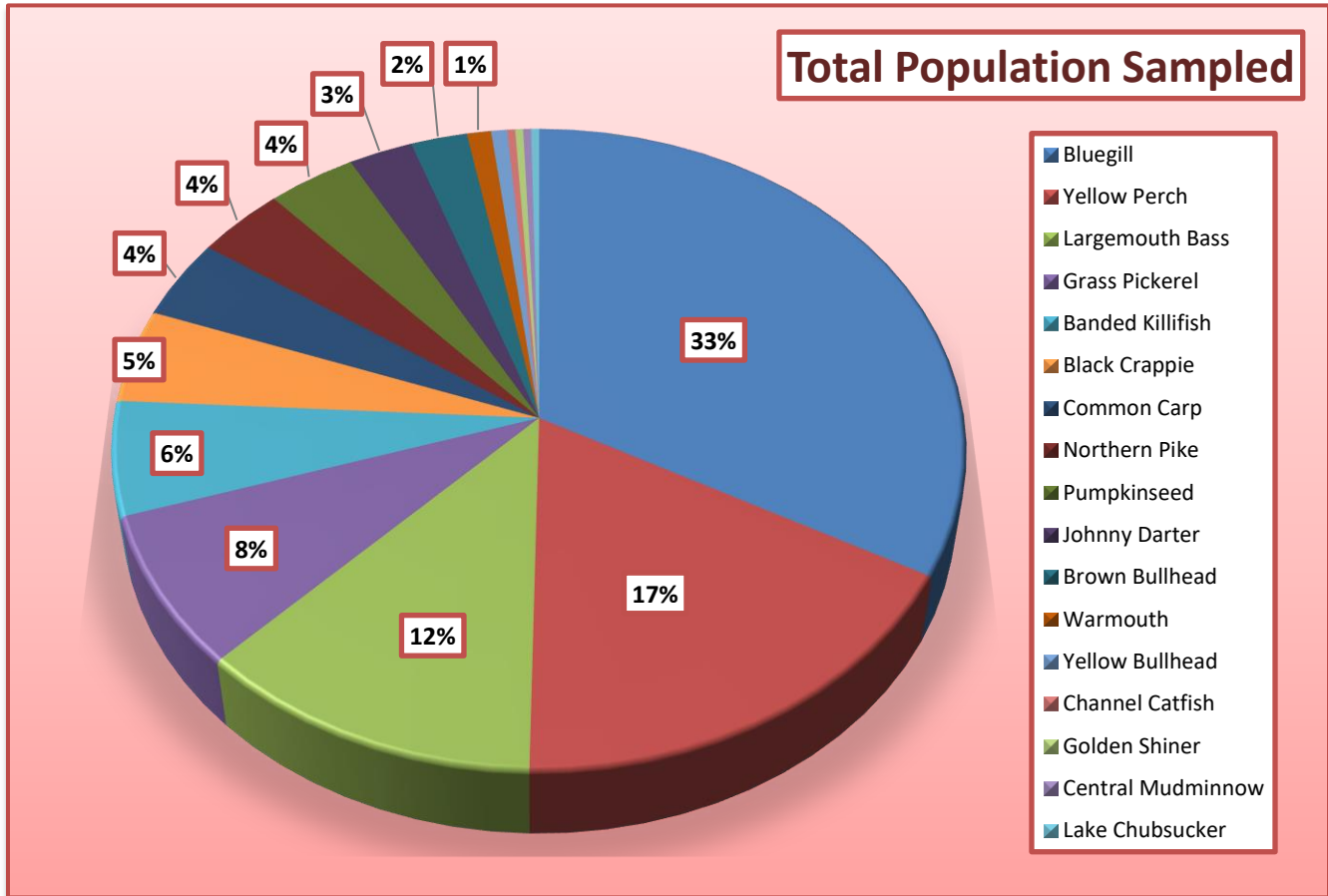


**Date of survey: September 16-19, 2019**  
**Electro-fishing time: 30 minutes**  
**3 Fyke nets fished: 24 hours**  
**500 feet of gill nets fished: 24 hours**

## Total Population

<b>Species</b>	<b>Number</b>	<b>Percent</b>
Bluegill	98	32.89%
Yellow Perch	52	17.45%
Largemouth Bass	36	12.08%
Grass Pickerel	23	7.72%
Banded Killifish	17	5.74%
Black Crappie	14	4.70%
Common Carp	12	4.03%
Northern Pike	11	3.69%
Pumpkinseed	11	3.69%
Johnny Darter	8	2.68%
Brown Bullhead	7	2.35%
Warmouth	3	1.01%
Yellow Bullhead	2	0.67%
Channel Catfish	1	0.33%
Golden Shiner	1	0.33%
Central Mudminnow	1	0.33%
Lake Chubsucker	1	0.33%
<b>Total</b>	<b>298</b>	<b>100.02%</b>

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## Bluegill

1/2-Inch Group	Number Collected	% of Population	Average Weight lbs.	Age
1.0	15	15.31%	NA	0+
1.5	23	23.47%	NA	0+
2.0	1	1.02%	0.01	0+
-	-	-	-	-
3.0	2	2.04%	0.02	0-1+
3.5	2	2.04%	0.03	1+
4.0	6	6.12%	0.05	1+
4.5	10	10.20%	0.07	1-2+
5.0	26	26.53%	0.09	1-2+
5.5	9	9.18%	0.13	3+
6.0	3	3.06%	0.16	3+
6.5	1	1.02%	0.20	3+
<b>Totals</b>	<b>98</b>	<b>99.99%</b>		

# Powderhorn Lake Population Survey



## Yellow Perch

1/2-Inch Group	Number Collected	% of Population	Average Weight lbs.	Age
3.0	1	1.92%	0.02	1+
3.5	4	7.69%	0.02	1+
4.0	18	34.62%	0.04	1+
4.5	23	44.23%	0.04	1+
5.0	4	7.69%	0.05	2+
5.5	2	3.85%	0.08	2+
<b>Totals</b>	<b>52</b>	<b>100.00%</b>		

## Largemouth Bass

1/2-Inch Group	Number Collected	% of Population	Average Weight lbs.	Age
2.0	1	2.78%	0.009	0+
2.5	10	27.78%	0.02	0+
3.0	19	52.78%	0.02	0+
3.5	2	5.56%	NA	0+
-	-	-	-	-
5.5	1	2.78%	0.08	0+
-	-	-	-	-
6.5	1	2.78%	NA	1+
-	-	-	-	-
14.0	1	2.78%	1.60	4+
14.5	1	2.78%	1.92	4+
<b>Totals</b>	<b>36</b>	<b>100.02%</b>		

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## Grass Pickerel

1/2-Inch Group	Number Collected	% of Population	Average Weight lbs.	Age
4.5	1	4.35%	0.02	0+
5.0	6	26.09%	0.02	0-1+
5.5	5	21.74%	0.03	1+
6.0	2	8.69%	0.05	1+
6.5	4	17.38%	0.06	2+
-	-	-	-	-
8.0	1	4.35%	0.11	3+
8.5	1	4.35%	NA	NA
-	-	-	-	-
10.0	1	4.35%	0.21	3+
10.5	1	4.35%	0.26	3+
11.0	1	4.35%	0.28	3+
<b>Totals</b>	<b>23</b>	<b>100.00%</b>		

## Black Crappie

1/2-Inch Group	Number Collected	% of Population	Average Weight lbs.	Age
3.0	2	14.29%	0.02	0+
3.5	1	7.14%	0.02	0+
-	-	-	-	-
5.0	1	7.14%	0.07	1+
-	-	-	-	-
6.0	1	7.14%	0.10	1+
-	-	-	-	-
7.5	2	14.29%	0.22	2+
-	-	-	-	-
10.5	1	7.14%	0.58	3+
11.0	3	21.43%	0.68	3-4+
-	-	-	-	-
12.0	3	21.43%	0.99	4-5+
<b>Totals</b>	<b>14</b>	<b>100.00%</b>		

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## Common Carp

1/2-Inch Group	Number Collected	% of Population	Average Weight lbs.	Age
19.5	1	8.33%	4.34	5+
-	-	-	-	-
20.5	3	25.00%	4.41	6+
21.0	1	8.33%	4.21	6+
21.5	2	16.67%	4.75	6-7+
22.0	2	16.67%	5.43	7+
22.5	2	16.67%	5.64	7+
-	-	-	-	-
23.5	1	8.33%	7.00	7+
<b>Totals</b>	<b>12</b>	<b>100.00%</b>		

## Northern Pike

1/2-Inch Group	Number Collected	% of Population	Average Weight lbs.	Age
9.0	1	9.09%	0.14	0+
-	-	-	-	-
20.0	1	9.09%	1.80	1+
-	-	-	-	-
23.0	2	18.18%	2.56	2-3+
-	-	-	-	-
24.0	1	9.09%	2.68	3+
24.5	1	9.09%	3.25	3+
25.0	1	9.09%	2.93	4+
25.5	1	9.09%	2.98	4+
26.0	1	9.09%	3.72	5+
26.5	1	9.09%	4.45	5+
-	-	-	-	-
29.0	1	9.09%	5.19	6+
<b>Totals</b>	<b>11</b>	<b>100.00%</b>		

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## Pumpkinseed

1/2-Inch Group	Number Collected	% of Population	Average Weight lbs.	Age
1.5	1	9.09%	NA	0+
2.0	2	18.18%	NA	0+
2.5	2	18.18%	0.02	0+
-	-	-	-	-
4.0	2	18.18%	0.06	1+
4.5	3	27.27%	0.06	1+
5.0	1	9.09%	0.12	2+
<b>Totals</b>	<b>11</b>	<b>99.99%</b>		

## Brown Bullhead

1/2-Inch Group	Number Collected	% of Population	Average Weight lbs.	Age
6.5	1	14.29%	0.16	NA
-	-	-	-	-
8.0	1	14.29%	0.21	NA
-	-	-	-	-
9.5	1	14.29%	0.45	NA
-	-	-	-	-
10.5	2	28.57%	0.59	NA
11.0	2	28.57%	0.79	NA
<b>Totals</b>	<b>7</b>	<b>100.01%</b>		

## Warmouth

1/2-Inch Group	Number Collected	% of Population	Average Weight lbs.	Age
6.5	2	66.66%	0.23	3+
-	-	-	-	-
8.5	1	33.33%	0.48	4+
<b>Totals</b>	<b>3</b>	<b>99.99%</b>		

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## Other Species collected

Species	Number	Length	Weight	Age
Yellow Bullhead	2	7.5 – 11.0	0.20 – 0.68	NA
Channel Catfish	1	17.0	1.35	NA