WISCONSIN DEPARTMENT OF NATURAL RESOURCES

GRINDSTONE LAKE

2024 – 2025 CREEL SURVEY REPORT SAWYER COUNTY





Treaty Fisheries Publication

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INTRODUCTION

Fish populations can fluctuate due to a variety of factors including natural forces like climate, reproductive success, predation, and competition. Human activities such as fish harvest, stocking, habitat change, and invasive species introduction can also have significant impacts. Wisconsin Department of Natural Resources (DNR) fisheries crews regularly conduct fishery surveys on lakes and reservoirs to gather the information needed to monitor changes, identify concerns, evaluate past management actions, and to prescribe fishery management strategies. Netting and electrofishing surveys are used to gather data on the status of fish populations and communities, measuring such parameters as species composition, population size, reproductive success, size and age distribution and growth rates.

The other key component of the fishery that we often need to measure is angler harvest to assess its impact on the fishery.

On many lakes in the Ceded Territory of northern Wisconsin, the harvest of fish is divided between sport anglers and the six Ojibwe tribes who harvest fish under rights granted by federal treaties. The tribes harvest fish mostly using a highly efficient method, spearing, during a relatively short time period in the spring. Every fish in the spear harvest is counted – a complete "census" of the harvest.

It would be highly impractical and very costly to conduct a complete census of every angler who fishes on a lake. Therefore, we conduct creel surveys.

A creel survey is an assessment tool used to sample the fishing activities of anglers on a body of water and make projections, or estimates, of harvest and other fishery parameters. Creel survey clerks work on randomly selected days and shifts, forty hours per week. The survey is conducted during the open season for gamefish from the first Saturday in May through the first Sunday

in March. Creel surveys are generally not conducted in November when fishing effort is low, and ice conditions are often unsafe. The survey is run during daylight hours, and shift times change from month to month as day length changes.

Creel survey clerks travel their lakes using a boat or snowmobile to count the number of anglers at predetermined times, and to interview anglers who have completed their fishing trip. Data are collected on what species they fished for, catch, harvest, lengths of fish harvested, marks (fin clips or tags), and hours of fishing effort. Collecting information at the end of a fishing trip provides the most accurate assessment of angling activities, and it avoids the need to disturb anglers while they are fishing.

A computer program is used to estimate catch and harvest of each species, catch and harvest rates, and fishing effort by month, as well as for the year in total. Accurate estimates require that we sample a sufficient and representative portion of the angling activity on a lake. The accuracy of creel survey results depends on good cooperation and truthful responses by anglers when a creel clerk interviews them.

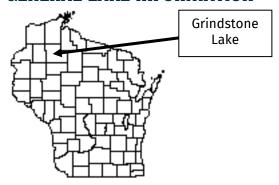
You may have encountered a DNR creel survey clerk on a recent fishing trip. We appreciate your cooperation during an interview. The survey only takes a few minutes of your time, and it gives the DNR valuable information needed for management of the fishery.

This report provides estimates of:

- 1. Overall fishing effort (pressure)
- 2. Fishing effort directed at each species
- 3. Numbers of fish caught and harvested
- 4. Catch and harvest rates

Also included are a physical description of the lake, discussion of results of the survey, and detailed summaries of fishing effort, catch and harvest.

GENERAL LAKE INFORMATION



LOCATION

Grindstone Lake is located in Sawyer County near the city of Hayward.

PHYSICAL CHARACTERISTICS

Grindstone Lake is a 3,111-acre drainage lake with a maximum depth of 60 feet. Littoral substrate consists primarily of sand, gravel and rock. Grindstone Lake contains hard, slightly alkaline, clear water of moderate transparency.

SEASONS SURVEYED

The open-water creel survey ran from May 4 through Oct. 31, 2024, and the ice fishing creel survey ran from Dec. 1, 2024 through March 2, 2025.

WEATHER

Ice-out on Grindstone Lake was around March 14, 2024. Fishable ice formed in mid-December.

FISHING REGULATIONS

The following seasons, daily bag limits, and length limits were in place during the surveyed season:

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SPECIES	SEASON	BAG LIMIT	MIN. SIZE				
Largemouth Bass	5/4-3/2	5	none				
Smallmouth Bass	6/ 15-3/ 2	1	18"				
Largemouth and Smallmouth Bass Catch and release only all other times of year							
Musky	5/ 25-12/ 31	1	50"				
Northern Pike	5/4-3/2	5	none				
Walleye	5/4-3/2	3	none				
	Protected slot 14-18", 1 fish over 18"						
Panfish	year round	25	none				
Rock Bass	year round	none	none				

SPECIES CATCH AND HARVEST INFORMATION

Summaries of angling effort, catch and harvest information for each species are in Table 2 and Figures 1-10, along with a comparison of these statistics with the previous creel survey in Table 2, if available. Information about species with fishing seasons extending beyond the season surveyed should be considered minimum estimates. Each species page has up to five graphs depicting the following:

1. ESTIMATED FISHING EFFORT

The estimated number of hours during each month that anglers spent fishing for a species.

2. ESTIMATED CATCH AND HARVEST

The estimated number of fish of the indicated species caught or harvested by all anglers, regardless of targeted species.

3. ESTIMATED SPECIFIC CATCH AND HARVEST RATES

The estimated number of hours it takes an angler to catch or harvest a fish of the indicated species. Only information from anglers who were specifically targeting that species is reported.

4. LENGTH DISTRIBUTION OF HARVESTED FISH

All fish of a species that were measured by the clerk during the entire creel survey season.

5. LARGEST AND AVERAGE LENGTH OF HARVESTED FISH

The largest and average length of a species of fish harvested that month. Only fish measured by the creel survey clerk are reported.

CREEL SURVEY RESULTS AND DISCUSSION

SURVEY LOGISTICS

We encountered no unusual problems conducting the survey or calculating the projections contained in the report.

GENERAL ANGLER INFORMATION

Anglers spent 31,657 hours, or 10.2 hours per acre, fishing Grindstone Lake during the 2024-25 season (Table 1). That was less than the Sawyer County average of 28 hours per acre, and less than the fishing effort documented during the 2021-22 creel survey (16.3 hours per acre). June was the most heavily fished month (6,067 hours), and fishing effort was lightest in February (1,265 hours). The creel clerks were able to conduct 608 interviews throughout the survey.

RESULTS BY SPECIES

WALLEYE (Table 2, Figure 1)

Walleye received 35.9 percent of the fishing effort during the season. Anglers spent 14,728 hours targeting Walleye. The greatest fishing effort for Walleye was in June (2,717 hours). February had the least amount of Walleye fishing effort (1,150 hours).

Total catch of Walleye was 3,027 fish, with a harvest of 495. Highest catch (1,461 fish) occurred in June, and highest harvest (304 fish) occurred in June. Anglers fished an average of 5.2 hours to catch and 31.2 hours to harvest a Walleye during the survey. The mean length of harvested Walleye was 17.5 inches, and the largest measured was a 23.9-inch fish.

NORTHERN PIKE (Table 2, Figure 2)

Fishing effort directed at Northern Pike was 984 hours during the season. Northern Pike fishing effort was greatest in February (478 hours). Total catch of Northern Pike was 202 fish, with a harvest of 46. Anglers fished an average of 55.2 hours to catch a Northern Pike during the survey. The mean length of harvested Northern Pike was 27 inches, and

the largest measured was a 34.8-inch fish.

MUSKELLUNGE (Table 2, Figure 3)

Anglers spent 1,451 hours targeting Muskellunge during the season. Muskellunge fishing effort was greatest in October (520 hours). Total catch of Muskellunge was 146 fish, and the highest catch (30 fish) occurred in October. Anglers fished 32.6 hours to catch a Muskellunge, and there was no documented harvest during the survey.

SMALLMOUTH BASS (Table 2, Figure 4)
Fishing effort targeted at Smallmouth Bass was 16,070 hours during the season.
Smallmouth Bass fishing effort was greatest in August (3,569 hours). Total catch of Smallmouth Bass was 12,837 fish, with 25 harvested. Highest catch (4,293 fish) occurred in June. Anglers fished an average of 1.4 hours to catch a Smallmouth Bass during the survey.

LARGEMOUTH BASS (Table 2, Figure 5)
Fishing effort directed at Largemouth Bass was 3,551 hours during the season.
Largemouth Bass fishing effort was greatest in July (864 hours). Total catch of Largemouth Bass was 1,559 fish, with a harvest of 54.
Highest catch (412 fish) occurred in July.
Anglers fished an average of 3.7 hours to catch a Largemouth Bass during the survey.

PANFISH (Table 2, Figures 6-10) **YELLOW PERCH** received 1,766 hours of directed fishing effort. Total catch of Yellow Perch was 3,088 fish, with 293 harvested. The mean length of harvested fish was 9.1 inches.

BLUEGILL received 1,477 hours of directed fishing effort. Total catch of Bluegill was 2,490 fish, with 732 harvested. The mean length of harvested fish was 7.7 inches.

BLACK CRAPPIE received 437 hours of directed fishing effort. Anglers caught 15 Black Crappie and harvested 7. The mean length of harvested fish was 11.9 inches.

PUMPKINSEED received 215 hours of directed fishing effort. Anglers caught 429 Pumpkinseed and harvested 163. The mean length of harvested fish was 7.5 inches.

ROCK BASS received 355 hours of directed fishing effort. Anglers caught 1,710 Rock Bass and harvested 229. The mean length of harvested fish was 8.4 inches.

ACKNOWLEDGMENTS

The DNR would like to thank all the anglers who took the time to offer information about their fishing trip to the survey clerk. Without their cooperation, the survey would not have been possible.

We also thank our cooperators, George and Jeanette Long, who generously allowed the DNR to keep a boat and snowmobile on their property during this survey.

Completion of this survey was possible because of the efforts of the following treaty fisheries staff: Angelena Sikora, Gene Hatzenbeler, Todd Brecka, Misty Rood, Matthew Kufahl and Bill Sobaski. Creel clerk during the survey period was Marty Kangas.

This creel report was reviewed by Angelena Sikora and Gene Hatzenbeler.

Additional copies of this report, and those covering other local lakes, can be obtained online at:

http://dnr.wi.gov/topic/Fishing/north/trtycrlsrvys.html

Table 1. Sportfishing effort summary, Grindstone Lake, 2024-25 season; compared to 2021-22 creel results, Sawyer County averages, and Ceded Territory averages.

Month	Number of Angler Party Interviews	Total Angler Hours	Total Angler Hours/Acre	2021-22 Total Angler Hours/Acre	Sawyer County Average Hours/Acre	Ceded Territory Average Hours/Acre
May	93	4,425	1.4	1.8	4.3	4.8
June	100	6,067	2.0	3.2	5.5	6.2
July	91	4,921	1.6	2.4	5.6	6.6
August	66	4,500	1.4	2.2	4.8	5.2
September	70	3,882	1.2	2.7	3.9	3.2
October	83	2,528	0.8	1.3	1.8	1.4
December	20	1,329	0.4	0.5	0.5	1.1
January	48	2,614	0.8	1.2	0.8	1.7
February	36	1,265	0.4	0.9	0.8	1.6
March	1	126	0.04	0.1	0.1	0.2
Summer Total	503	26,323	8.5	13.6	25.9	27.4
Winter Total	105	5,334	1.7	2.7	2.1	4.6
Grand Total	608	31,657	10.2	16.3	28.0	32.0

Note: Summer is May-October; Winter is December-March

Number of Angler Party Interviews is the number of groups of anglers interviewed by the creel clerk. A party is considered the members of a group who fish together in the same boat, ice shanty or from shore. The clerk fills out one interview form for each group of anglers. The number of individual anglers actually contacted by the clerk is usually much greater than the number of groups listed in this table since most groups consist of more than one angler.

Total Angler Hours is the estimated total number of hours that anglers spent fishing on Grindstone Lake during each month surveyed.

Total Angler Hours/Acre is the total angler hours divided by the area of the lake in acres. This is useful in order to compare effort on Grindstone Lake to other lakes.

2021-22 Total Angler Hours/Acre is the total angler hours divided by the area of the lake in acres. This is from the previous creel survey that took place on Grindstone Lake.

County Average Hours/Acre is the average angler effort in hours per acre for county lakes that have been surveyed since 1990. This value is useful for fishing pressure comparisons with other waters.

Ceded Territory Average Hours/Acre is the average angler effort in hours per acre for inland lakes in the Ceded Territory that have been surveyed since 1990. This value can be used to compare Grindstone Lake to other lakes in northern Wisconsin.

Table 2. Comparison of creel survey synopses, Grindstone Lake, 2024-25 and 2021-22 fishing seasons.

CREEL YEAR: 2024-2025

SPECIES	DIRECTED EFFORT (Hours)	PERCENT OF TOTAL	TOTAL CATCH	SPECIFIC CATCH RATE (Hrs/Fish)	TOTAL HARVEST	SPECIFIC HARVEST RATE (Hrs/Fish)	MEAN LENGTH OF HARVESTED FISH
Walleye	14,728	35.9%	3,027	5.2	495	31.2	17.5
Northern Pike	984	2.4%	202	55.2	46	400.0	27.0
Muskellunge	1,451	3.5%	146	32.6	0	*	**
Smallmouth Bass	16,070	39.2%	12,837	1.4	25	769.2	14.4
Largemouth Bass	3,551	8.7%	1,559	3.7	54	112.4	13.7
Yellow Perch	1,766	4.3%	3,088	1.1	293	7.5	9.1
Bluegill	1,477	3.6%	2,490	0.6	732	2.1	7.7
Black Crappie	437	1.1%	15	42.2	7	84.7	11.9
Pumpkinseed	215	0.5%	429	0.5	163	1.4	7.5
Rock Bass	355	0.9%	1,710	*	229	*	8.4
White Sucker	0	0.0%	3	*	0	*	**

CREEL YEAR: 2021-22

SPECIES	DIRECTED EFFORT (Hours)	PERCENT OF TOTAL	TOTAL CATCH	SPECIFIC CATCH RATE (Hrs/Fish)	TOTAL HARVEST	SPECIFIC HARVEST RATE (Hrs/Fish)	MEAN LENGTH OF HARVESTED FISH
Walleye	30,439	52.2%	13,589	2.3	2,024	15.1	18.1
Northern Pike	262	0.4%	151	37.0	20	52.1	26.9
Muskellunge	1,759	3.0%	81	52.4	0	*	**
Smallmouth Bass	18,033	30.9%	22,817	1.0	26	909.1	17.9
Largemouth Bass	1,337	2.3%	1,268	2.2	23	256.4	16.3
Yellow Perch	3,150	5.4%	15,000	0.3	1,848	1.9	9.4
Bluegill	2,763	4.7%	9,802	0.3	1,833	1.5	7.6
Black Crappie	231	0.4%	128	2.0	3	107.5	13.0
Pumpkinseed	0	0.0%	61	*	15	*	7.6
Rock Bass	354	0.6%	4,064	0.2	865	0.4	8.7
Common Carp	0	0.0%	3	*	0	*	**
White Sucker	0	0.0%	26	*	0	*	**
Longnose Gar	0	0.0%	3	*	0	*	**

Note: If a species is not shown in a table, no data was collected by the creel clerks for that species.

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^{*} Indicates that no fish of this species were caught or harvested (depending on the column) by anglers who specifically targeted this species.

^{**} Indicates that no fish were measured by the creel clerks for this species

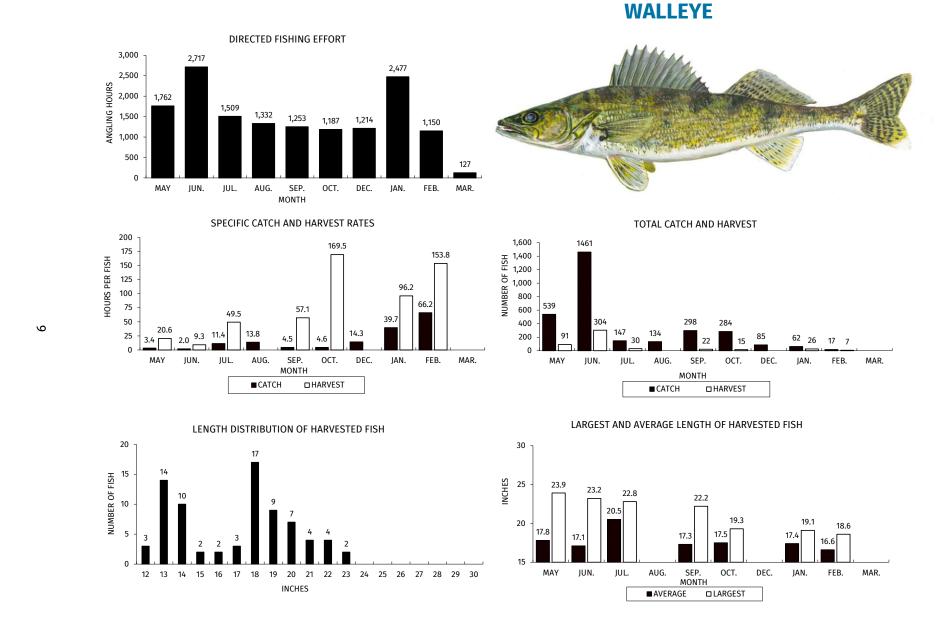


Figure 1. Walleye sportfishing effort, catch, harvest, and length distribution, Grindstone Lake, during 2024-25.

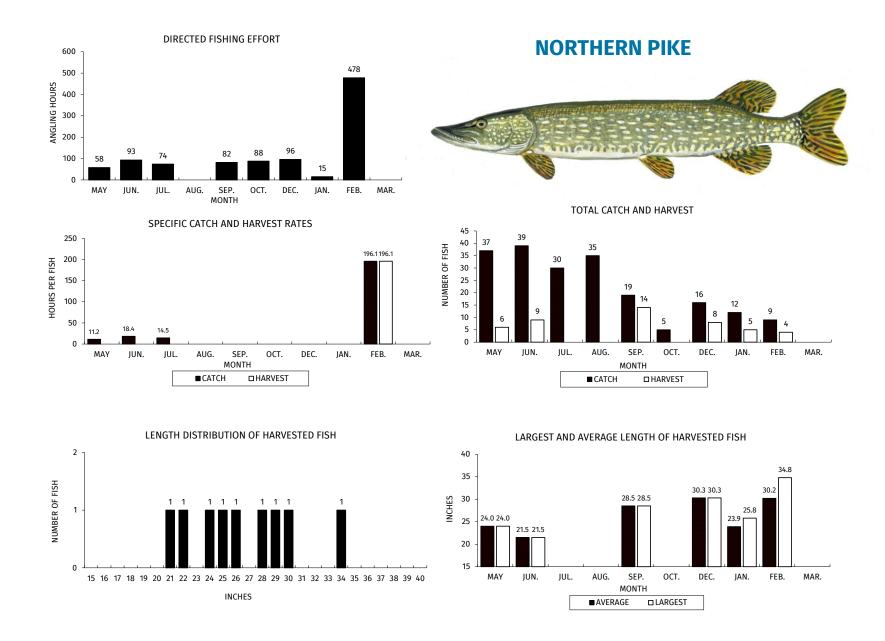


Figure 2. Northern Pike sportfishing effort, catch, harvest, and length distribution, Grindstone Lake, during 2024-25.

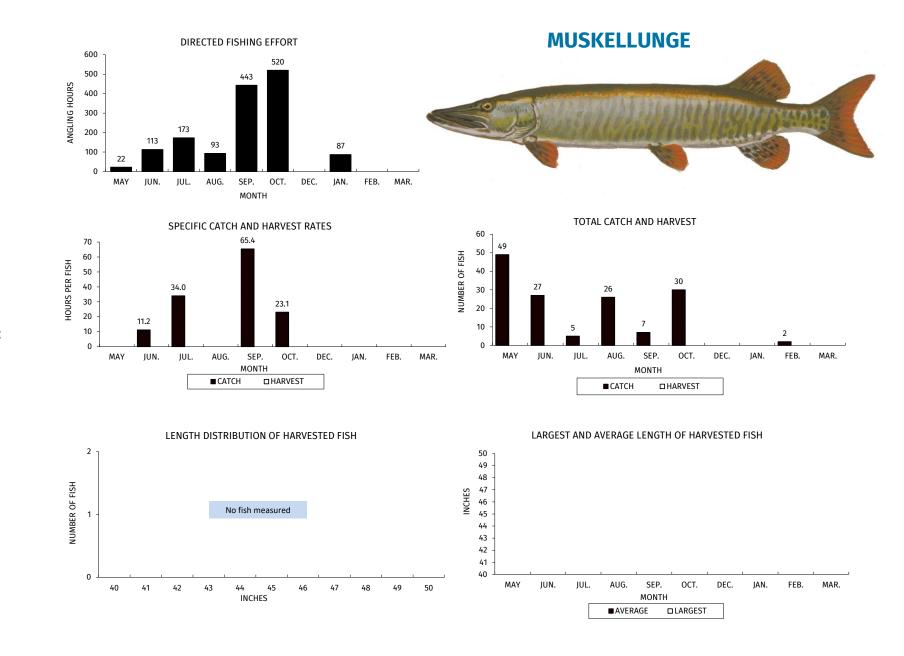


Figure 3. Muskellunge sportfishing effort, catch, harvest, and length distribution, Grindstone Lake, during 2024-25.

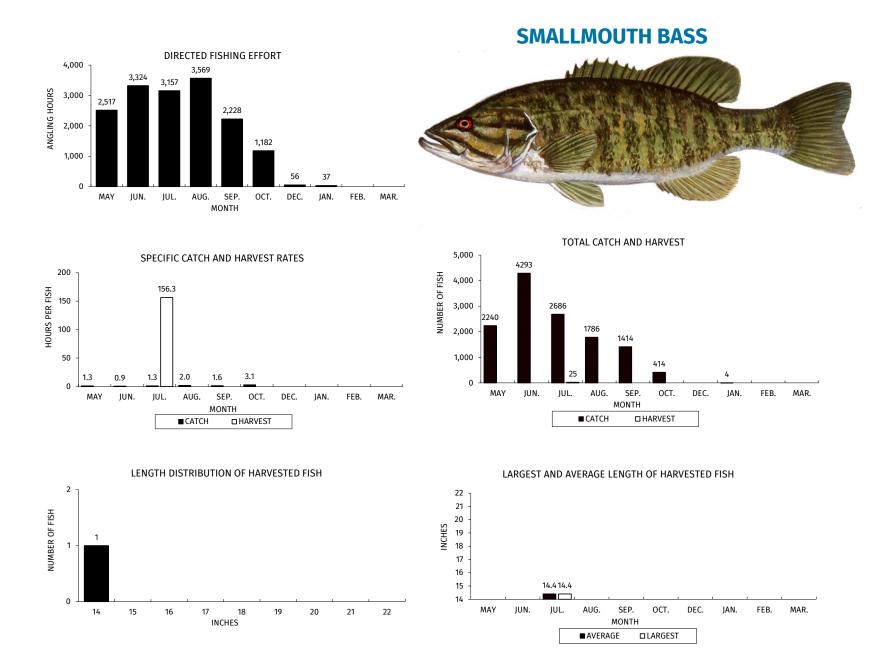


Figure 4. Smallmouth Bass sportfishing effort, catch, harvest, and length distribution, Grindstone Lake, during 2024-25.

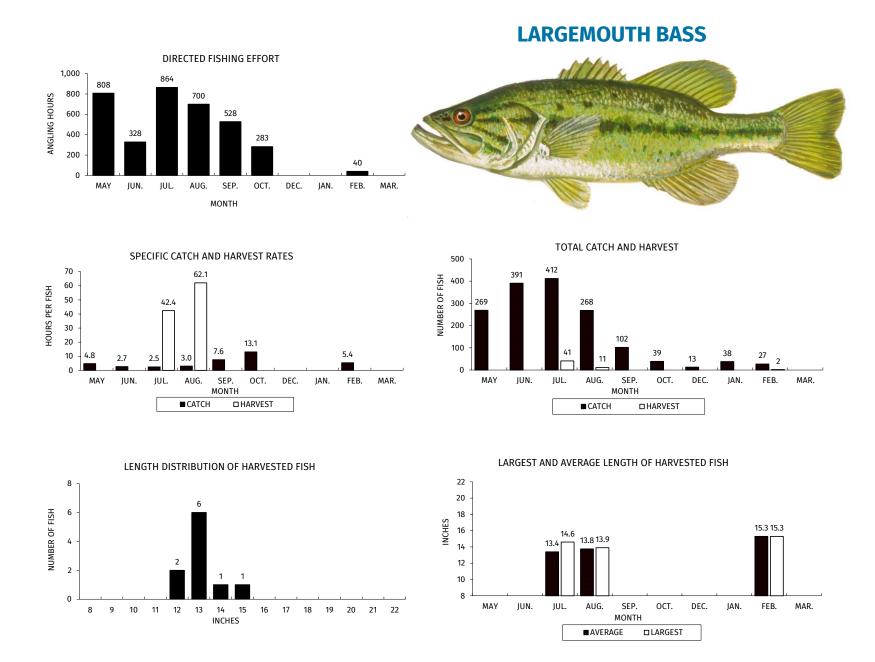


Figure 5. Largemouth Bass sportfishing effort, catch, harvest, and length distribution, Grindstone Lake, during 2024-25.

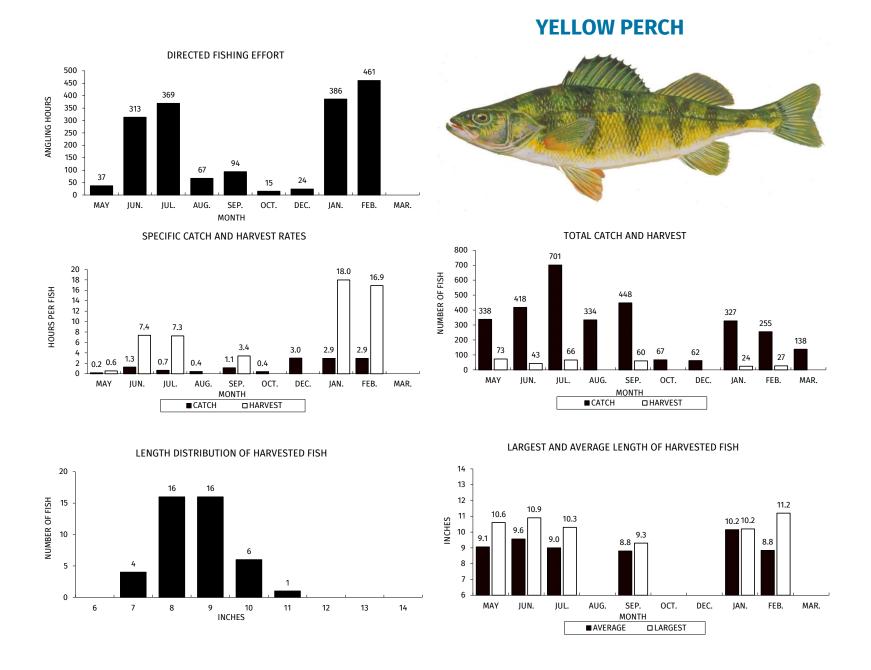


Figure 6. Yellow Perch sportfishing effort, catch, harvest, and length distribution, Grindstone Lake, during 2024-25.

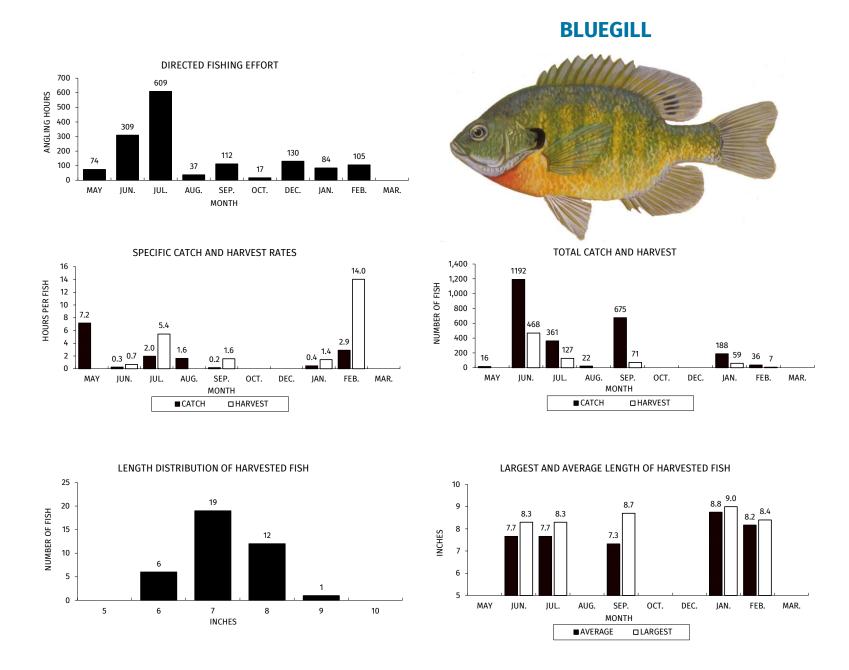


Figure 7. Bluegill sportfishing effort, catch, harvest, and length distribution, Grindstone Lake, during 2024-25.

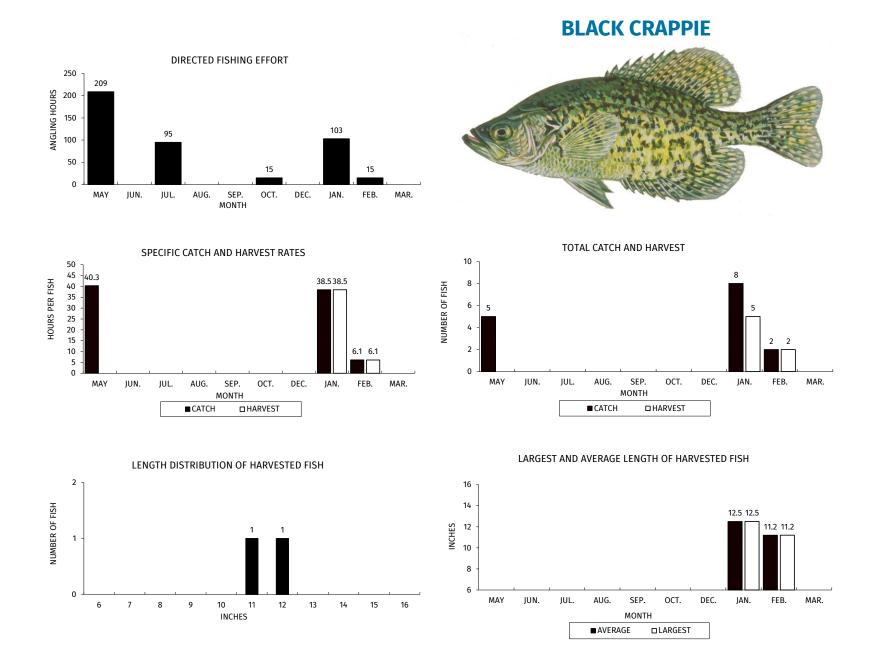


Figure 8. Black Crappie sportfishing effort, catch, harvest, and length distribution, Grindstone Lake, during 2024-25.

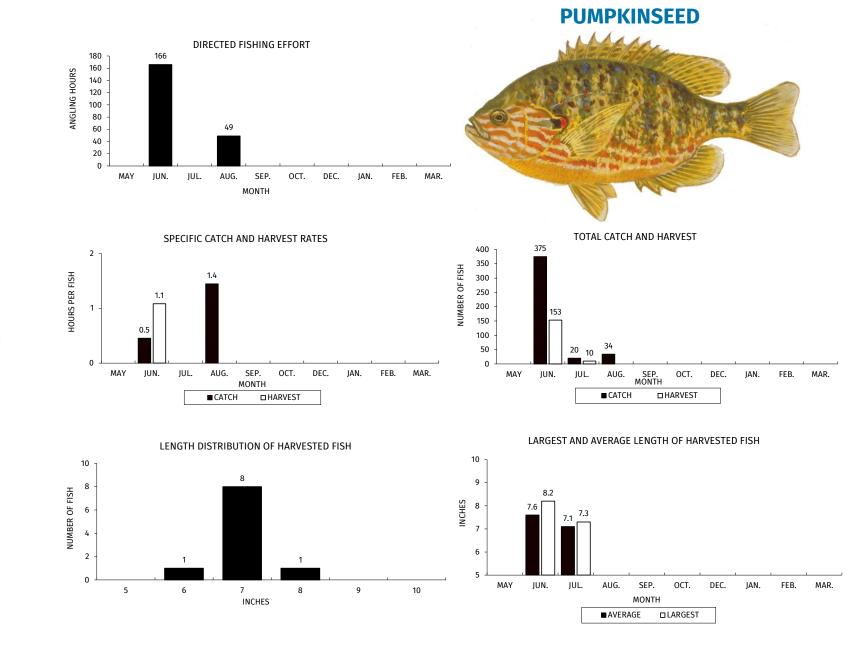


Figure 9. Pumpkinseed sportfishing effort, catch, harvest, and length distribution, Grindstone Lake, during 2024-25.

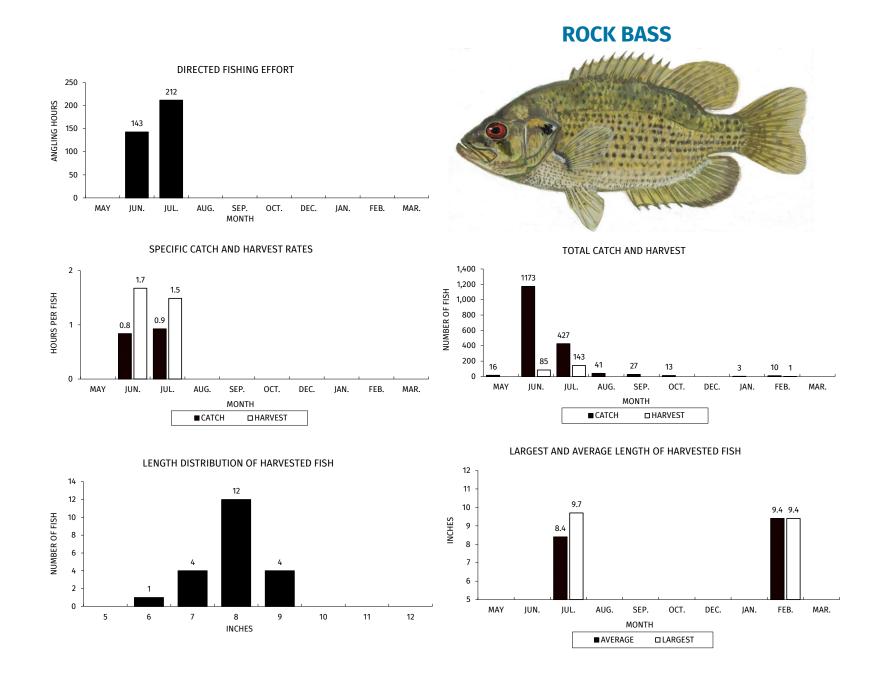


Figure 10. Rock Bass sportfishing effort, catch, harvest, and length distribution, Grindstone Lake, during 2024-25.