

Accessing MNDNR Information for Your Lake

Wade Massure | Park Rapids Area Fisheries Supervisor

Agenda

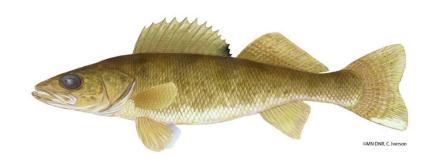
- Area Office Overview
 - Surveys
- LakeFinder
 - Data available to the Public
- Watershed Health Assessment

Framework: Lakes



Area Overview

- Park Rapids Fish Management Area
 - 108 Lakes and 220 miles of rivers and streams
- 4 permanent employees, 3 seasonals
- Office, Hatchery, Rearing Ponds
 - Seasonal cool-water hatchery
 - 4 drainable ponds
 - Walleye, Muskellunge, White Sucker





Surveys

- Standard 5 years
 - Gill nets, Trap nets, Electrofishing, Vegetation sampling, Shoreline characteristics
- Targeted As needed
 - Trap nets, Electrofishing, Vertical Gill nets, IBI sampling, Seining
- Creel Survey

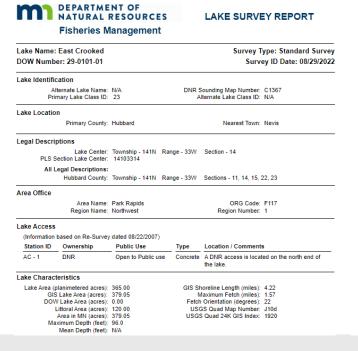






Reports and Management Plans

- Lake Survey Reports
- Stream Survey Reports
- Lake Management Plans



Island (29-0254-00) | Hubbard | Park Rapids | Region 1

DEPARTMENT OF NATURAL RESOURCES FISHERIES LAKE MANAGEMENT PLAN

LAKE NAME (DOW):	REGION:	N: AREA: C		COUNTY: ACRES (sur		CLASS:
Island (29-0254-00)	1	Park Rapids	Hubbard		541 179	25
Information Tier:		Lake Priority Rank:		Next	Plan Revision:	
Revisions: Initial Pl	Revisions: ☐ Initial Plan ☒ Species ☒ Goals/Objectives ☒ Stocking ☐ Survey ☐ Other:					
Primary Species (2 maximum; *active management): Secondary Species (4 maximum; *active management):						nent):
Walleye, Black Crappie Largemouth Bass, Northern Pike						
Management Goals:						
	v-II 6-b-					

- Manage the Walleye fishery so it maintains a balanced forage fish population, so it is capable of sustaining recreational harvest
- · Maintain related fish communities.
- · Protect or enhance desirable aquatic and riparian habitats (water quality, aquatic and riparian vegetation, and

Management Objectives:

- Walleye: Gill net catch rates ≥5.0 per net, a PSD of 30 to 60, and RSD-P (20") of at least 15.
- Yellow Perch: Gill net catch rates ≥20.0 per net

Operational Plan Summary:

- Conduct standard (9 gills nets / 9 trap nets) or targeted sampling surveys every five years (2025, 2030, 2035,
- · Stock Walleye fingerlings at a density of 1 pound per littoral acre (180 pounds total) biannually. Adjust stocking density, frequency, or size of fish if necessary to maintain desirable levels of abundance and size structures of Walleye and forage fishes at minimum costs.
- . Monitor winter fishing pressure by conducting aerial fish house counts.
- · Work with educators, groups, agencies, individuals, or news media to provide aquatic education opportunities. Efforts may include presentations, news releases, personal contacts, or special projects.
- · Provide recommendations on permit applications that will minimize impacts to aquatic resources associated with projects in Island Lake, its tributaries, or its watershed.
- · Encourage, support and assist efforts of local, state or federal groups or agencies to improve water quality, and maintain or improve fisheries habitat in Island Lake.
- Next plan revision: 2027

Additional Jurisdictions and Tribal Partners: APPROVALS Area Fisheries Supervisor (e-signature): Regional Fisheries Manager (e-signature):



Search for...

(

RECREATION

DESTINATIONS

NATURE

EDUCATION & SAFETY

LICENSES, PERMITS & REGULATIONS EVENTS & SEASONS

ABOUT DNR

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How to use LakeFinder

LakeFinder search tips
Find a lake by map
Stocking reports user guide
Go to mobile site

LakeFinder



An online tool that finds and displays detailed information about most lakes in Minnesota. Information available includes fishing regulations; location; water access sites; lake maps; lake reports on stocking, ice in/out and water quality; fish consumption; and aquatic plant surveys. This tool is available for desktop and mobile devices.

Find a lake



LakeFinder contains data for more than 4,500 lakes and rivers throughout Minnesota, including lake surveys, lake depth maps, lake water quality data, lake water clarity data, lake notes, and fish consumption advice.

Buy a license

Available online, by phone and in person

On a mobile device?

Go to the LakeFinder mobile website

Find stocking reports



Stocking reports provide access to stocking activity by fish species and/or county. Reports are comprised of information for many lakes and are intended as a summary.



Clean in. Clean out.

Clean your watercraft, drain all water, dispose of unused bait. Learn what you need to do » Lakes infested with invasive species »

Additional information

LakeFinder uses data provided by Minnesota Pollution Control Agency (PCA), University of Minnesota (UofMN) and Minnesota Department of Health (MDH).

Learn more about:

- Aquatic plant reports (DNR)
- Fish consumption advice ☑ (MDH)
- Lake surveys (DNR)
- Lake and River Recreational Use Restrictions (PDF) (DNR)
- <u>Lake water quality</u> ♂ and <u>lake water clarity</u> ♂ (PCA)
- Satellite-based water clarity
 ☐ (UofMN)
- Explore watershed health assessment framework: Lakes (DNR)

Search Results

 Lake Name/ID:
 east crooked
 and/or County:
 Hubbard
 v
 search

Click on a lake name to open a detail page or hover over a lake name to view a quick list of available information.

Search returned 1 results.

Name	ID	Nearest Town	County
East Crooked	29010101	Nevis	Hubbard

Search Results

 Lake Name/ID:
 Big Sand
 and/or County:
 Any County
 search

Click on a lake name to open a detail page or hover over a lake name to view a quick list of available information.

Search returned 3 results.

Name	ID	Nearest Town	County
<u>Big Sand</u>	11007700	Remer	Cass
Big Sand	29018500	Dorset	Hubbard
Big Sandy	01006200	McGregor	Aitkin

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Recreation Compass

Google Earth/KML

Fish Minnesota

Fishing regulations Buy a fishing license Learn more

East Crooked (29010101)

ID: 29010101

DESTINATIONS

County: <u>Hubbard</u>

Near: Nevis

Border water: No Sentinel Lake: No

Size and depth

Area: 379.05 acres

Littoral Area[®]: 120 acres Shore length: 4.22 miles Maximum depth: 96 feet

Fish species: black bullhead, black crappie, bluegill, brown bullhead, bullheads, burbot, largemouth bass, northern pike, pumpkinseed, rock bass, smallmouth bass, tullibee (cisco), walleye, yellow bullhead, yellow perch, white sucker, banded killifish, bluntnose minnow, central mudminnow, golden shiner, lowa darter, Johnny darter, spottail shiner, tadpole madtom



Fishing regulations:

General »

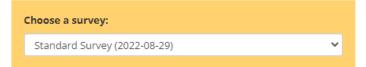
Inland waters »

Invasive species: none listed

Stop aquatic hitchhikers »

East Crooked (29010101)

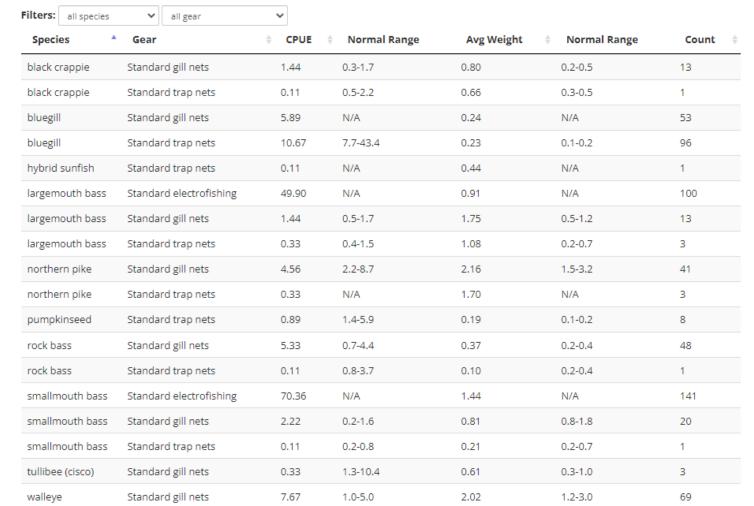
Area: 379.05 acres Littoral Area[©]: 120 acres Shore Length: 4.22 miles Mean Depth: N/A Maximum Depth: 96 feet Average Water Clarity: 18.9 feet



Water Access Information:

Administrator	Access Type	Notes	Use Type
DNR	Concrete	A DNR access is located on the north end of the lake.	Open to Public use

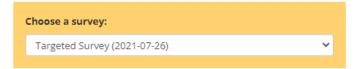
Fish Sampled



East Crooked (29010101)

Area: 379.05 acres
Littoral Area[®]: 120 acres
Shore Length: 4.22 miles

Mean Depth: N/A Maximum Depth: 96 feet Average Water Clarity: 18.9 feet



Water Access Information:

Administrator	Access Type	Notes	Use Type
DNR	Concrete	A DNR access is located on the north end of the lake.	Open to Public use

Fish Sampled

Filters: all species	∨ all gear	~				
Species	Gear	CPUE	Normal Range	Avg Weight	Normal Range	Count
banded killifish	50-ft beach seine	3.00	N/A	0.00	N/A	24
banded killifish	Backpack electrofishing	0.91	N/A	0.00	N/A	1
black crappie	Standard trap nets	1.89	0.5-2.2	0.53	0.3-0.5	17
bluegill	Backpack electrofishing	13.67	N/A	0.00	N/A	15
bluegill	15-ft beach seine	1.50	N/A	0.00	N/A	3
bluegill	50-ft beach seine	18.25	N/A	0.00	N/A	146
bluegill	Standard trap nets	17.00	7.7-43.4	0.30	0.1-0.2	153
bluntnose minnow	50-ft beach seine	0.38	N/A	0.00	N/A	3
Iowa darter	50-ft beach seine	0.62	N/A	0.00	N/A	5
Iowa darter	Backpack electrofishing	9.11	N/A	0.00	N/A	10
Johnny darter	Backpack electrofishing	3.65	N/A	0.00	N/A	4
largemouth bass	Backpack electrofishing	2.73	N/A	0.00	N/A	3
largemouth bass	50-ft beach seine	3.88	N/A	0.00	N/A	31
largemouth bass	Standard trap nets	0.89	0.4-1.5	0.65	0.2-0.7	8
northern pike	Standard trap nets	0.11	N/A	0.66	N/A	1
pumpkinseed	Backpack electrofishing	3.65	N/A	0.00	N/A	4
pumpkinseed	15-ft beach seine	1.00	N/A	0.00	N/A	2
pumpkinseed	50-ft beach seine	1.12	N/A	0.00	N/A	9
pumpkinseed	Standard trap nets	2.56	1.4-5.9	0.27	0.1-0.2	23

Length of Select Species Sampled - All Gear Combined

Number of fish caught in each category (inches)

Species	0-5	6-7	8-9	10-11	12-14	15-19	20-24	25-29	30-34	35-39	40-44	45-49	50+	Total
black crappie	1	1	1	8	3	0	0	0	0	0	0	0	0	14
bluegill	35	105	9	0	0	0	0	0	0	0	0	0	0	149
hybrid sunfish	0	1	0	0	0	0	0	0	0	0	0	0	0	1
largemouth bass	2	13	14	27	47	13	0	0	0	0	0	0	0	116
northern pike	0	0	0	0	0	19	21	4	0	0	0	0	0	44
pumpkinseed	4	4	0	0	0	0	0	0	0	0	0	0	0	8
rock bass	6	23	19	1	0	0	0	0	0	0	0	0	0	49
smallmouth bass	3	9	19	30	58	42	1	0	0	0	0	0	0	162
tullibee (cisco)	0	0	0	1	2	0	0	0	0	0	0	0	0	3
walleye	0	0	0	0	35	22	7	4	1	0	0	0	0	69
white sucker	0	0	0	1	0	4	1	0	0	0	0	0	0	6
yellow bullhead	0	4	56	78	13	0	0	0	0	0	0	0	0	151
yellow perch	1	0	2	0	0	0	0	0	0	0	0	0	0	3

Status of the Fishery

East Crooked is located five miles north of Nevis in central Hubbard County. East Crooked has a surface area of 379 acres and a maximum depth of 96 feet. There is a state-owned public access located on the north end of the lake off Heritage Road. East Crooked is a clear-water lake with exceptional water quality. East Crooked is best known its Walleye population, but also provides opportunities for Northern Pike, Smallmouth Bass, Largemouth Bass, and Panfish.

The Minnesota Department of Natural Resources (DNR) has classified Minnesota's lakes into 43 different types based on physical, chemical, and other characteristics. East Crooked is in lake class 23. Class 23 lakes are generally clear, deep lakes with hard water and a small littoral zone (area of lake less than 15 feet in depth). Other class 23 lakes in the Park Rapids management area include Blue, Boot, and Eleventh Crow Wing Lake.

Present and past surveys have shown that East Crooked supports a healthy Walleye population. Anglers will find good numbers of Walleye in the 14-20 inch size range. Big Walleyes are found in East Crooked with Walleye measured up to 31.1 inches. East Crooked has a Tullibee (Cisco) and Yellow Perch populations that provide an excellent forage base for producing large Walleye. Yellow Perch numbers have been down in recent surveys.

East Crooked has a low to moderate Northern Pike population composed of medium to large-size fish. Sampled Northern Pike had an average length and weight of 20.8 inches and 2.1 lbs with fish measured up to 26.9 inches. Low to moderate Northern Pike numbers and a Tullibee (Cisco) population provide the conditions to produce large pike.

While not know as a "bass-panfish" lake, East Crooked does supply angling opportunities for these species. Anglers will find moderate to high Smallmouth Bass population and moderate Largemouth Bass population in East Crooked. Good numbers of Smallmouth and Largemouth Bass in the 12-15 inch size range were sampled with Smallmouth Bass sampled up to 20.7 inches. East Crooked supports a moderate panfish population comprised of Black Crappie, Bluegill, and Pumpkinseed. The Black Cappie population in East Crooked fluctuated from low to moderate numbers. Black Crappie up to 13.7 inches were sampled. Anglers will find Bluegill and Pumpkinseed in the 6-7 inch size range.

Other species sampled included Rock Bass, Yellow Bullhead, White Sucker, and Hybrid Sunfish.

Currently no aquatic invasive species (AIS) have been identified in East Crooked. To avoid spreading AIS, lake users are required to remove all aquatic plants and animals form their watercraft and drain all water from their boat before leaving the lake.

For More Information

Park Rapids Area Fisheries Supervisor 301 S Grove Ave Park Rapids, MN

Phone: 218-552-2311

Email: ParkRapids.Fisheries@state.mn.us

Website

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East Crooked (29010101)

NATURE

ID: 29010101

DESTINATIONS

County: Hubbard

Near: Nevis

Border water: No Sentinel Lake: No

Size and depth

Area: 379.05 acres

Littoral Area[®]: 120 acres Shore length: 4.22 miles Maximum depth: 96 feet

Fish species: black bullhead, black crappie, bluegill, brown bullhead, bullheads, burbot, largemouth bass, northern pike, pumpkinseed, rock bass, smallmouth bass, tullibee (cisco), walleye, yellow bullhead, yellow perch, white sucker, banded killifish, bluntnose minnow, central mudminnow, golden shiner, lowa darter, Johnny darter, spottail shiner, tadpole madtom



Fishing regulations:

General »

Inland waters »

Invasive species: none listed

Stop aquatic hitchhikers »

East Crooked (29010101)

Fish Stocked by Species for the Last Ten Years

Year	Species	Size	Number	Pounds
2022	Walleye	fingerlings	4,840	121.0
2020	Walleye	yearlings	2,544	120.0
2018	Walleye ²	fingerlings	7,625	238.3
2016	Walleye	fingerlings	634	24.0
	Walleye	adults	614	352.0
2014	Walleye	adults	19	19.0
	Walleye	fingerlings	4,649	225.0

Stocking Notes

- 1 indicates fish purchased and stocked by private citizens and sporting groups.
- 2 indicates fish purchased by the DNR for stocking.
- 3 indicates fish cooperatively purchased, raised, and/or stocked by DNR and other agencies (state, federal or tribal) or sporting groups.

Stocking Fish Sizes

Fry - Newly hatched fish that are ready to be stocked usually called "swim-ups". Walleye fry are 1/3 of an inch or around 8 mm.

<u>Fingerling</u> - Fingerlings are one to six months old and can range from a size of one to twelve inches depending on the species. Walleye fingerlings range from three to eight inches each fall.

<u>Yearling</u> - Yearling fish are at least one year old. A one-year-old fish can range from three to twenty inches depending on the species. Walleye yearlings average from six to twelve inches.

<u>Adult</u> - Adult fish are fish that have reached maturity. Depending on the species, maturity can be reached at two years of age. Walleye reach maturity between the ages of four and six years.

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Fishing regulations:

General »

Inland waters »

Invasive species: none listed

Stop aquatic hitchhikers »

Data

Lakes and streams water quality dashboard

Assessments



East Crooked: 3 MI NW OF NEVIS (Lake)

Lake identification number: 29-0101-01

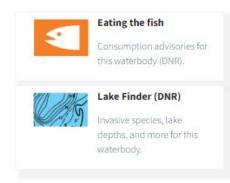
Overall Condition:

Description

Concentrations of Mercury in fish tissue exceed the standard; fish and aquatic organisms are not always suitable for consumption by humans or wildlife.

Monitoring Data

Water Quality Summary



Land Use

Description		
Major Watershed	Crow Wing River View	
County	Hubbard	
Location	3 MI NW OF NEVIS	
Surface Area	360.77 acres	
Maximum Depth	96 feet	
Ecoregion	Northern Lakes and Forests	
Former ID i	29-0101-00	
Use Classification	2B i	



Transparency Trend

Description Assessments Monitoring Data Water Quality Summary Transparency Trend Land Use

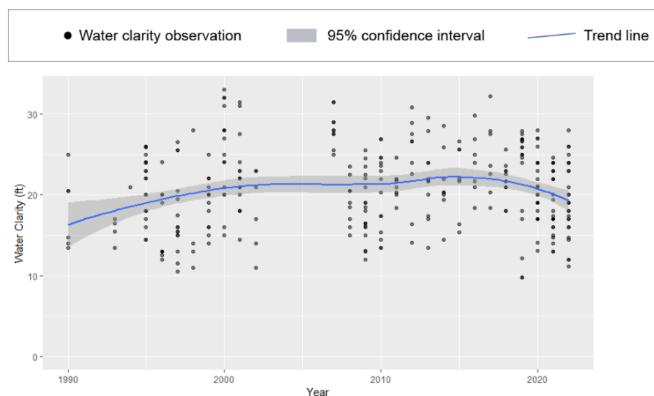
Transparency Trend

Lake Transparency Trend

This figure show water clarity over time on this lake. The trend analysis was performed with a Seasonal Mann Kendall test. This statistical test detects changes in water clarity over time by comparing months across years (example - Mays are compared to Mays, Junes to Junes, etc...). For lakes with enough data, the figures include a trend line, which shows the direction of detected changes in water clarity. The gray area around the trend line represents the range where the actual clarity measure will fall with 95% certainty.

Trend analysis result:

For years 1990 to 2022 there is evidence of improving water clarity at this lake, of approximately 1.3 feet per decade. For the most recent year of the analysis, median water clarity was 6.00 feet higher than the watershed median.



Water transparency is an excellent indicator of water quality, and the majority of these data are collected by volunteers. Many years of data are needed to detect trends in water quality, and we are always looking for new volunteers. Join the MPCA's Citizen Lake Monitoring Program and help collect this important information for your lake.

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East Crooked (29010101)

ID: 29010101

County: <u>Hubbard</u>

Near: Nevis

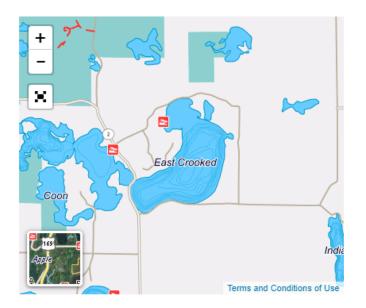
Border water: No Sentinel Lake: No

Size and depth

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Fishing regulations:

General »

Inland waters »

Invasive species: none listed

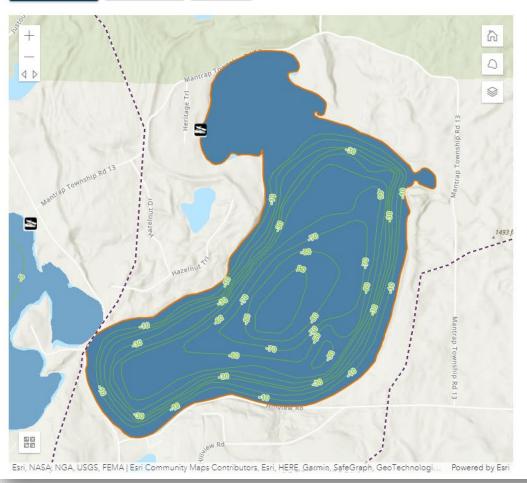
Stop aquatic hitchhikers »

Search Lakes

Lake Name or Lake ID

East Crooked (29010101)

Go To Lakes List Previous Lake Next Lake



SUMMARY

WATER QUALITY

BIOLOGY

HYDROLOGY

STEWARDSHIP

Lake Health

A healthy lake is nearest its natural state. Water entering the lake is free of pollution and excess nutrients. The inputs are in balance with the needs of its animal and plant communities. Lake health is further protected by a natural shoreline and by investments in careful stewardship of the lakeshed.

About the Score

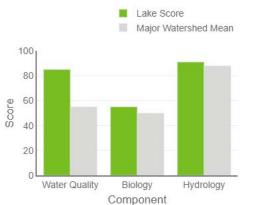
Learn More

Lake Health Score (A): 75 (range is 0 to 100)

Lake Health Score Major Watershed Mean (*): 66



Lake Health Component Scores



Ranges are 0 to 100

Water Quality Score: 85

Water Quality Score Major Watershed Mean: 55

Biology Score: 55

Biology Score Major Watershed Mean: 50

Hydrology Score: 91

Hydrology Score Major Watershed Mean: 88

Lake Basics

About the Data

Learn More

East Crooked (29010101) Basics



CSV

Search Lakes

Lake Name or Lake ID

East Crooked (29010101)

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Esri, NASA, NGA, USGS, FEMA | Esri Community Maps Contributors, Esri, HERE, Garmin, SafeGraph, GeoTechnologi.

SUMMARY WATER QUALITY BIOLOGY HYDROLOGY STEWARDSHIP

Water Quality Score

The quality of the water within a lake basin has a critical impact on lake health. Excess nutrients can create explosive algae growth. Turbid water can reduce light penetration and stress fish communities. Other contaminants may accumulate in fish tissue or influence their hormonal balance. Improvements to lake health must address water quality challenges present in the lake system.



Phosphorus

About the Data

Total Phosphorus Score: 91 (range is 0 to 100)



Total Phosphorus (µg/l): 8

Total Phosphorus Sensitivity Index (inches): 22

Total Phosphorus Sensitivity Significance Priority Class: Highest

Impaired High Higher Highest	Impaired	High	Higher	Highest
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Water Clarity

About the Data

Learn More

Learn More

Water Clarity Score: 80 (range is 0 to 100)

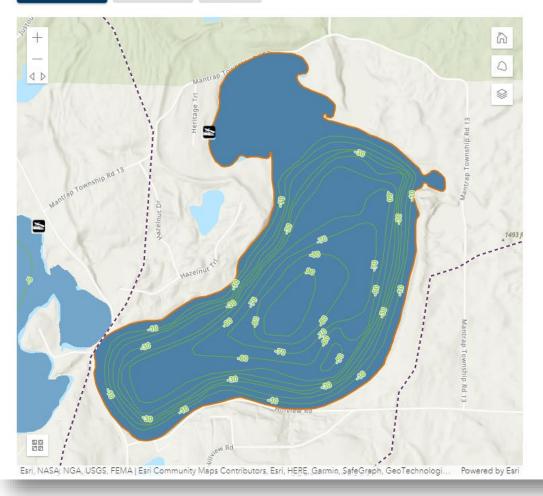
Search Lakes

Lake Name or Lake ID

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SUMMARY

WATER QUALITY

BIOLOGY

HYDROLOGY

STEWARDSHIP

Biology Score

Thriving aquatic plant and animal communities provide functions that are essential for the overall health of a lake. Monitoring the composition of these communities can determine whether a lake supports the expected range of aquatic life. The status of aquatic communities can help indicate the overall impact and response to lakeshed conditions.

About the Score

Learn More

Biology Score (A): 55 (range is 0 to 100)

Biology Score Major Watershed Mean (10): 50



Fish Index of Biological Integrity

About the Data

Learn More

Fish Community Quality: 70 (range is 0 to 100)



Fish IBI Score: 61

Fish IBI Aquatic Life Use Judgement: Full Support

Fish IBI Lake Type: Deep lakes with complex shorelines

Fish IBI Lake Type Threshold: 45

Fish IBI % Deviation From Threshold: 36%

Plant Floristic Quality Index

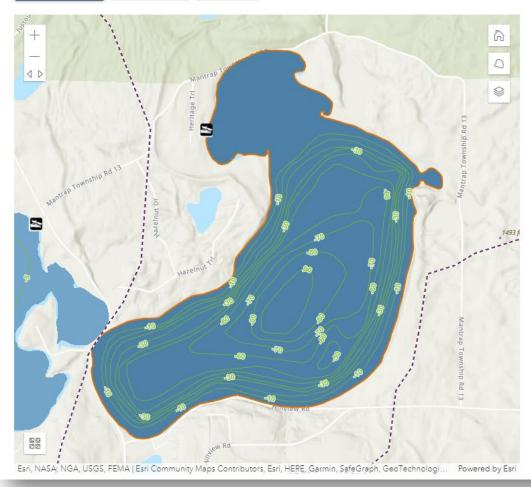
About the Data

Learn More

Lake Plant Community Quality: 40 (range is 0 to 100)

Search Lakes Lake Name or Lake ID East Crooked (29010101)

Go To Lakes List Previous Lake Next Lake



SUMMARY WATER QUALITY BIOLOGY HYDROLOGY STEWARDSHIP

Lake Watershed Transport Capacity Class: 5

1 2 3 4 5 6 7

Watershed to Lake Area Ratio: 27.6

Watershed to Lake Area Class: More than 10, likely more surface water inflow

Less than 5 5 to 10 More than 10

Score the Shore

About the Data

- Hide
- . Score The Shore is a natural resources survey to estimate the amount of natural habitat in three lakeshore zones; shoreland, shoreline, and aquatic.
- This scoring process provides a simple method of ranking individual lake sites and the entire lake based on the amount of lakeshore remaining in natural
 condition.

Score the Shore

- · Lakes are assigned a rating based on their lake score.
- . High (score >= 85): These sites have a very high percentage of unaltered habitat in each of the three Zones.
- . Moderate (66 to 84): These sites also have a high percentage of unaltered habitat but at least one Zone has lower habitat quality than a "High" site.
- . Low (50 to 65): These sites are typically developed and have a lower than expected amount of natural habitat.
- Very Low (< 50): These sites have been heavily altered by the removal of vegetation and related habitat.

Resources

· Score the Shore

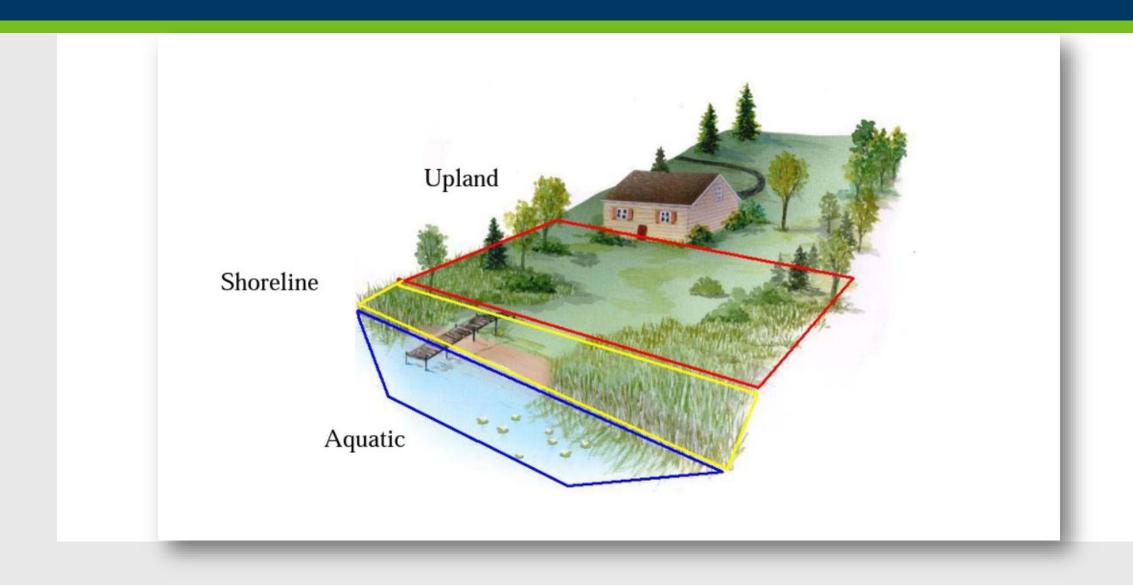
Score the Shore: 83 (range is 0 to 100)



Score the Shore Rating: Moderate



Habitat



PFAS

Per- and Polyfluoroalkyl Substances



Air, Water, Land, Climate Trending Topics

Business With Us

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Air, Water, Land, Climate / Water / Water quality initiatives / Minnesota's PFAS Blueprint

Monitoring PFAS

<MINNESOTA'S PFAS BLUEPRINT

Monitoring PFAS

Developing water-quality criteria for PFAS

PFAS studies and reports

The PFAS monitoring plan lays out a path forward for PFAS monitoring at solid waste, wastewater, and stormwater facilities, hazardous waste landfills, facilities with air emissions, and sites in the Brownfield or Superfund programs. The plan does not establish facility-specific requirements, but outlines how the MPCA plans to prioritize locations for PFAS monitoring and what the monitoring will entail.

- Id PFAS Monitoring Plan (p-gen1-22b)
- Ida Facilities included in the PFAS Monitoring Plan (p-gen1-22c)
- If requently asked questions on the PFAS Monitoring Plan (p-gen1-22f)
- Summary of changes in the PFAS Monitoring Plan (p-gen1-22d)
- Public feedback on the draft PFAS Monitoring Plan (p-gen1-22e)

The MPCA began working with stakeholders in June 2021 to build a PFAS monitoring plan. This plan aligns with the management strategy and near-term priorities in Minnesota's PFAS Blueprint:

PFAS

- Forever Chemicals
- Monitored by MPCA
- Levels are much higher in the Southern portion of the state
- Likely found at extremely low levels in our area
- Levels to low to warrant sampling being done on a broad basis

How can you help?

- Nearshore Habitat Improvements
 - Water Quality Insecticides, Herbicides, etc
 - Aquatic Vegetation
 - Landscaping
 - Natural Habitat
- Citizen Reporting
 - Fish Kills
- MPCA Grants Water Quality Sampling





Thank You!

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