

Park Rapids Fisheries Management Basics

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Area Supervisor



**DEPARTMENT OF
NATURAL RESOURCES**

Why manage lakes ???

- Recreation
- Nature and clean water
- Money - 1.5M licensed anglers
 - Jobs – 48,000
 - \$3.9 billion each year



How we manage a lake:

- Surveys & data
- Input
 - Lake Association
 - Tribes
 - General Public
 - Colleagues
 - etc....

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LAKE MANAGEMENT PLAN

Region	Area	D.O.W. Number	County	D.O.W. Lake Name	Lake Class	Acreage 285 Lit. Acres 158
NW	Walker	11-263	Cass	Child	31	

LONG RANGE GOALS:

- To provide quality sport fishery with the following species specific population parameter:

Muskellunge

More sampling directed at this species needs to be conducted to develop meaningful long range goals

Northern Pike

- A. Gillnet catch rate of 7
- B. PSD and RSD-P values of 50 and 20

Cisco

Gillnet catch rate of 1 to 3

Bluegill

- A. July trapnet catch rate of 10; spring trapnet catch rate of 20
- B. PSD, RSD-7 and RSD-P values of 60, 20 and 10

Black Crappie and Largemouth Bass

More intensive sampling needs to be directed at these two species to define realistic goals

Yellow Perch

Gillnet catch rate of 10 to 20

Walleye

Gillnet catch rate of 2

OPERATIONAL PLANS:

- Lake Survey 2013. Population assessment or lake survey every 5 years thereafter - 2018, 2023. . .
- Fish habitat will be protected via strict permit reviews and dissemination of information on the values of various habitat components.
- Dissemination of information on the value of catch and release of quality size fish in maintaining quality fish populations

MID RANGE OBJECTIVES:

- Fish population data collected will be used to determine if long range goal is being achieved.

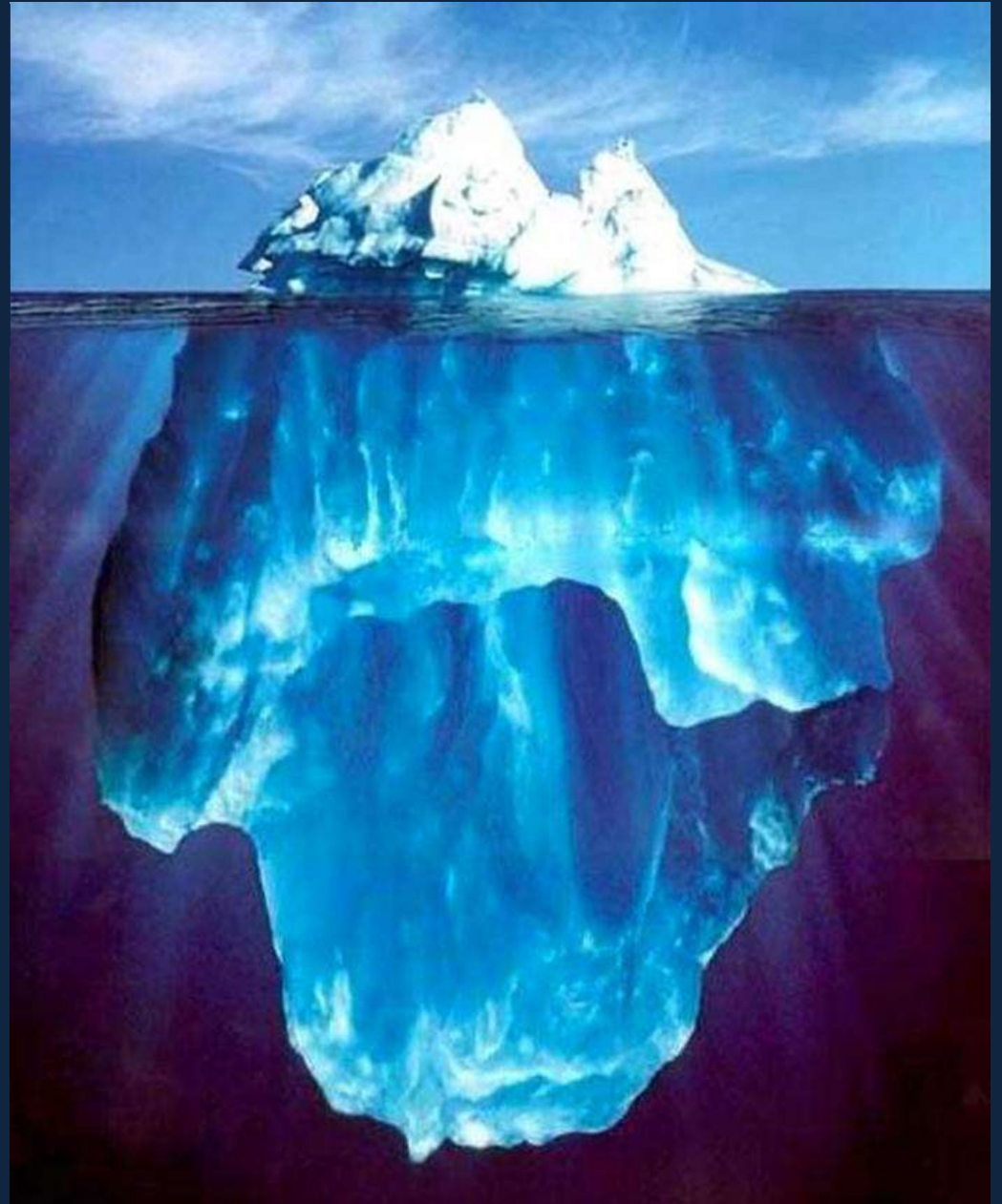
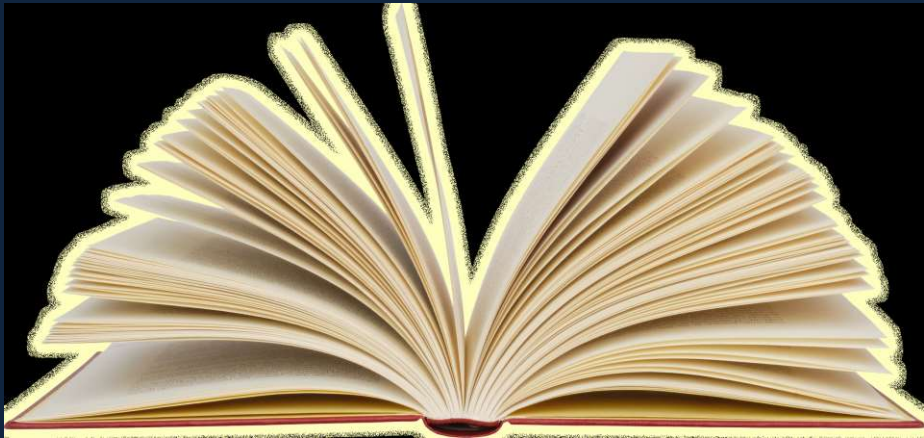
POTENTIAL PLAN:

- Creel Survey..... \$ 5,000.00
- Determine status of muskellunge population..... 1,000.00
- Acquire shoreline to protect critical fish habitat..... 1,000,000.00

TOTAL \$1,006,000

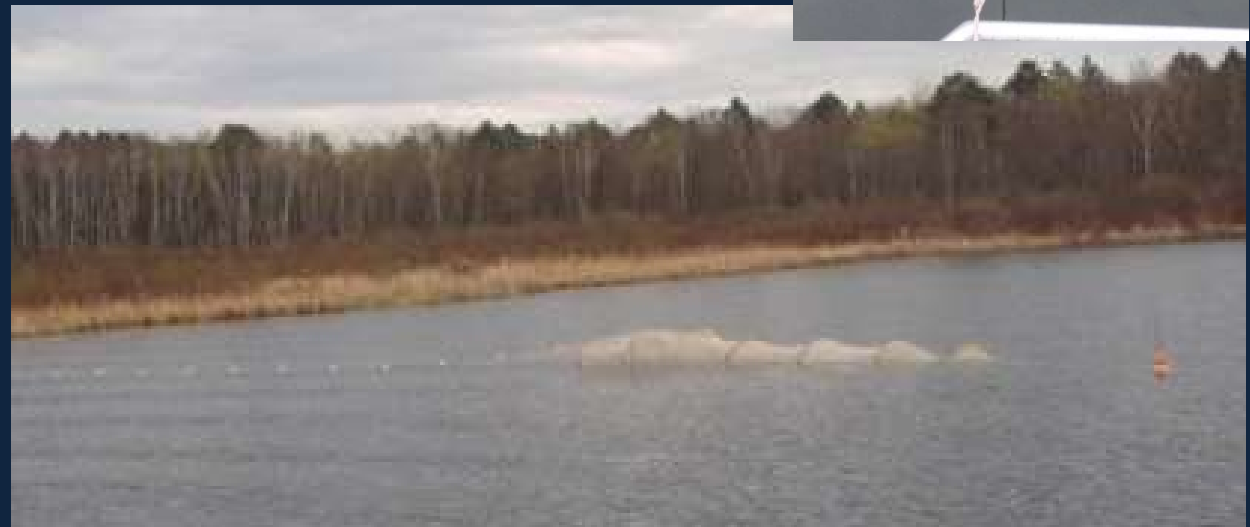
Telling a Story

- Look at all data



What do we do?

- Sample fish
- Gear type
 - Electrofishing
 - Trap net
 - Gill net



How do we sample?

- Sampling
 - Target species, size, and/or age
 - Time of year
 - Limit sampling bias





Various Surveys 2025

- Cedar
- Coon
- Crystal
- Dinner
- Duck
- Frontenac
- Garfield
- Ida
- Island (Big)
- Island (Little)
- Potato
- Straight
- Big Mantrap
- Big Sand
- East Crooked
- 11th Crow wing
- Kabekona
- Bottles (Upper and lower)

Management Plan Updates

- Blue
- 1st Crow Wing
- 2nd Crow Wing
- 3rd Crow Wing
- 4th Crow Wing
- 5th Crow Wing
- 6th Crow Wing
- George
- Long
- Spider
- Waboose

Management Tools

- Habitat protection & improvement
- Harvest regulations
- Stocking



Questions?

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