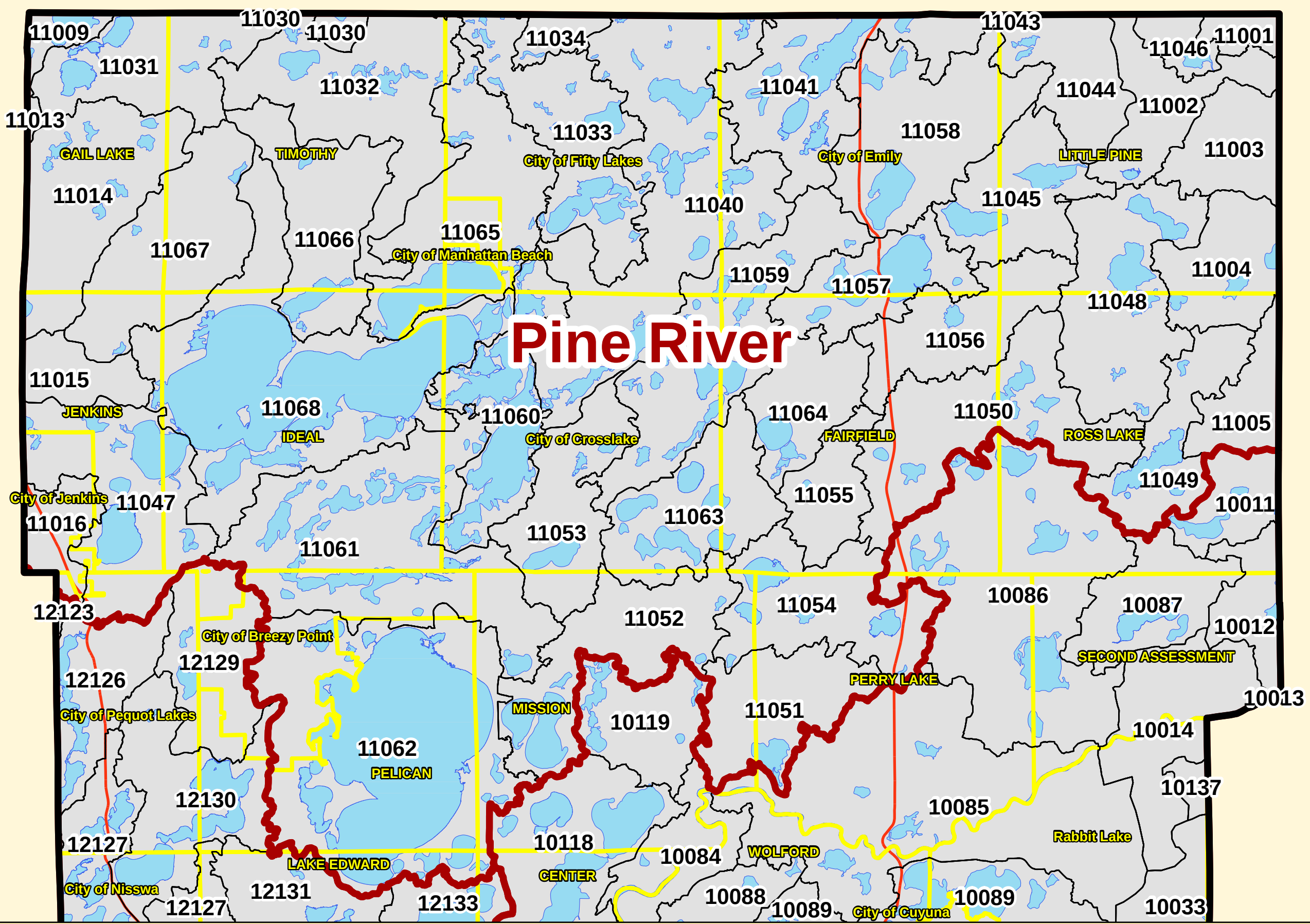


APPENDIX 1: INDIVIDUAL WATERSHED MAPS

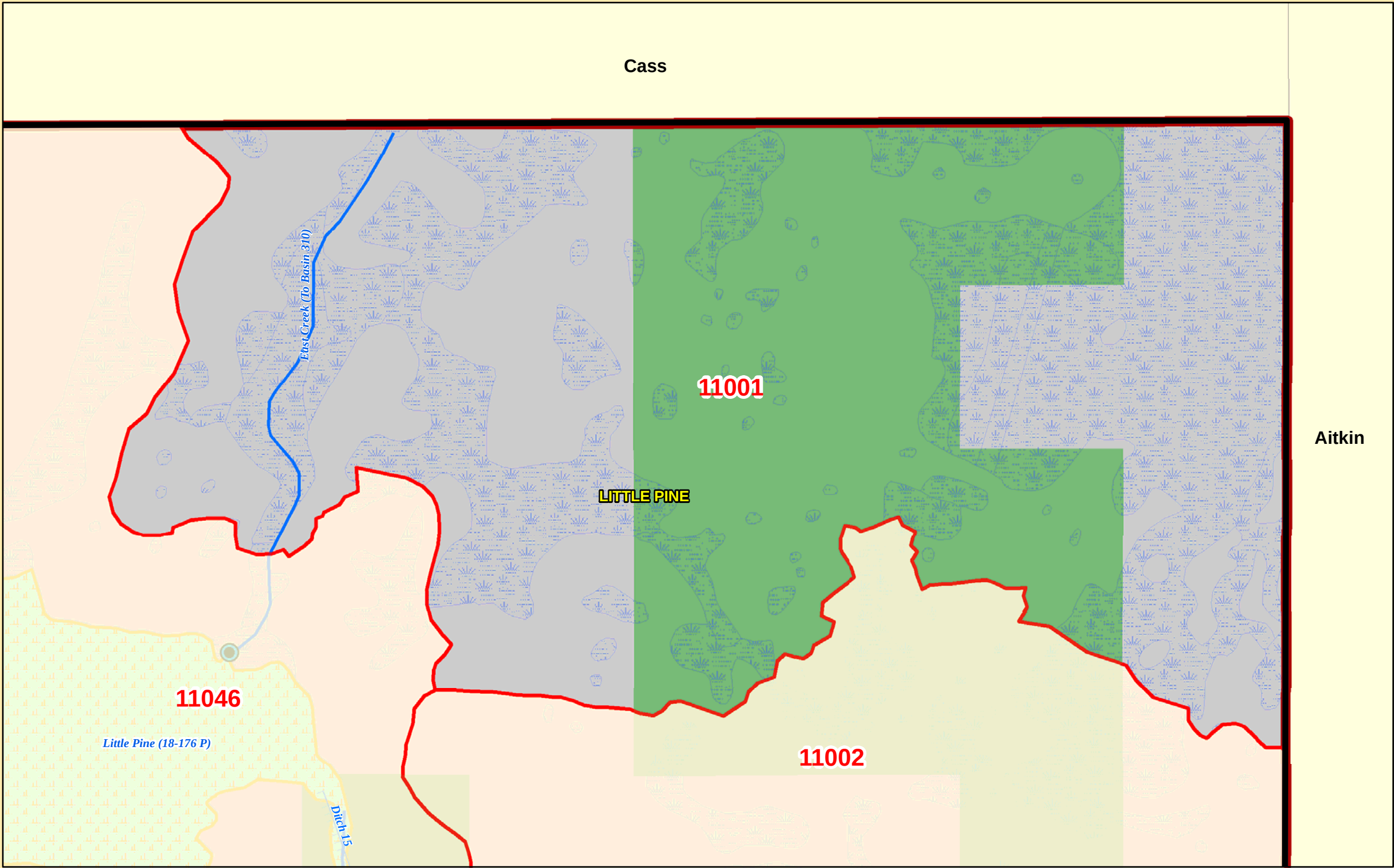
Pine River Watershed (43 minor watersheds):

Part 1:

11001 East Cr
11002 Little Pine R
11003 Unknown DNR Minor Watershed Name
11004 Mud Bk
11005 Johnson Cr
11009 Lizzie Cr
11013 Pine R
11014 Arvig Cr
11015 Pine R
11016 Hay Cr
11030 Blind Lake Cr
11031 From Jail L
11032 Thompson Cr
11033 Fox Cr
11034 Hay Cr
11040 Daggett Cr
11041 Crooked Cr
11043 From Lawrence L
11044 Unknown DNR Minor Watershed Name
11045 Little Pine R
11046 From Little Pine L
11047 Hay Cr
11048 Mud Bk



-  Major Watersheds
-  Minor Watersheds
-  U.S. Highways
-  State Highways
-  Lakes
-  Mississippi River



Minor Watershed #	11001
Major Watershed Name	Pine River
Area (sq. miles)	1
Population 2010 (persons per sq. mile)	5
Population Change 2000 to 2010 (persons per sq. mile)	2
Surficial Geology	Glacial Till
% Slope (avg.)	7
% Forested (private)	20
% Disturbed Land Cover	0
% Developed	0
Extractive Uses	Minimal
# of Animal Units	0
Biological Diversity	High
% Public Land	52
% Easements	0
% Lakes	0
% Streams	0
% Wetlands (private)	33
% Protected	85
Assigned Risk Level	Vigilance

Implementation Priorities	
Top 24 Priority Watershed	
Surface Water	
Aquatic Invasive Species	
Stormwater	
Shoreline Buffers	
Lake Focus: Recreational Use & Development	
Lake Focus: Wild Rice / Wildlife	
Rivers / Floodplains	
Agricultural BMPs	
Ecological Sensitive Areas	x
Bluffs & Steep Slopes	
Public & Private Drainage	
Development (existing and potential)	
Private Forest Stewardship	
Ground Water	
Septic Systems	
Wellhead Protection	

- Ⓜ

Public Waterworks
- ★

Water Use: Air Conditioning
- Water Use: Industrial Processing
- ⊕

Irrigation: Crop
- Irrigation: Non Crop
- ⬠

Water Use: Special Categories
- Drinking Water Source Protection Areas
- Wellhead Protection Areas
- Feedlots (by primary animal)
- BIRDS
- BOVINES
- HORSES
- PIGS
- 🏠

Water Access Sites
- ⛏

Active Gravel Pits

—

U.S. Highways

—

State Highways

—

County Roads

—

Paul Bunyan State Trail

■

Cities / Townships

■

Mississippi River

—

Streams

—

County Ditches

■

Wetlands (from NWI)

🐟

Trout, Rice, and Cisco Lakes

🐟

Cisco

🐟

Cisco and Wild Rice

🐟

Cisco and Trout

🐟

Wild Rice

🐟

Trout

🐟

Infested Lakes

🐟

Milfoil

🐟

Milfoil, Zebra Mussels

🐟

Zebra Mussels

🐟

Milfoil, Zebra Mussels, Spiny Water Flea

🌳

Lakes (Classification & Water Quality Status)

🌳

General Development (GD)

🌳

Recreational Development (RD)

🌳

Natural Environment (NE)

🌳

Natural Environment-Special Shallow (NE-SS)

🌳

Impaired: Nutrients

🌳

Improving

🌳

Declining

🌳

No Trend

🌳

No Trend / Declining

🌳

Multiple Trends

🌳

Not Assessed

🌳

State Park

🌳

State Recreation Area

🌳

Scientific and Natural Area Boundaries

🌳

Wildlife Management Areas

🌳

Conservation Easements

🌳

Public Land

🌳

30 Lakes Watershed District

🌳

Outlets of watersheds / catchments

🌳

Major Watersheds

🌳

Minor Watersheds

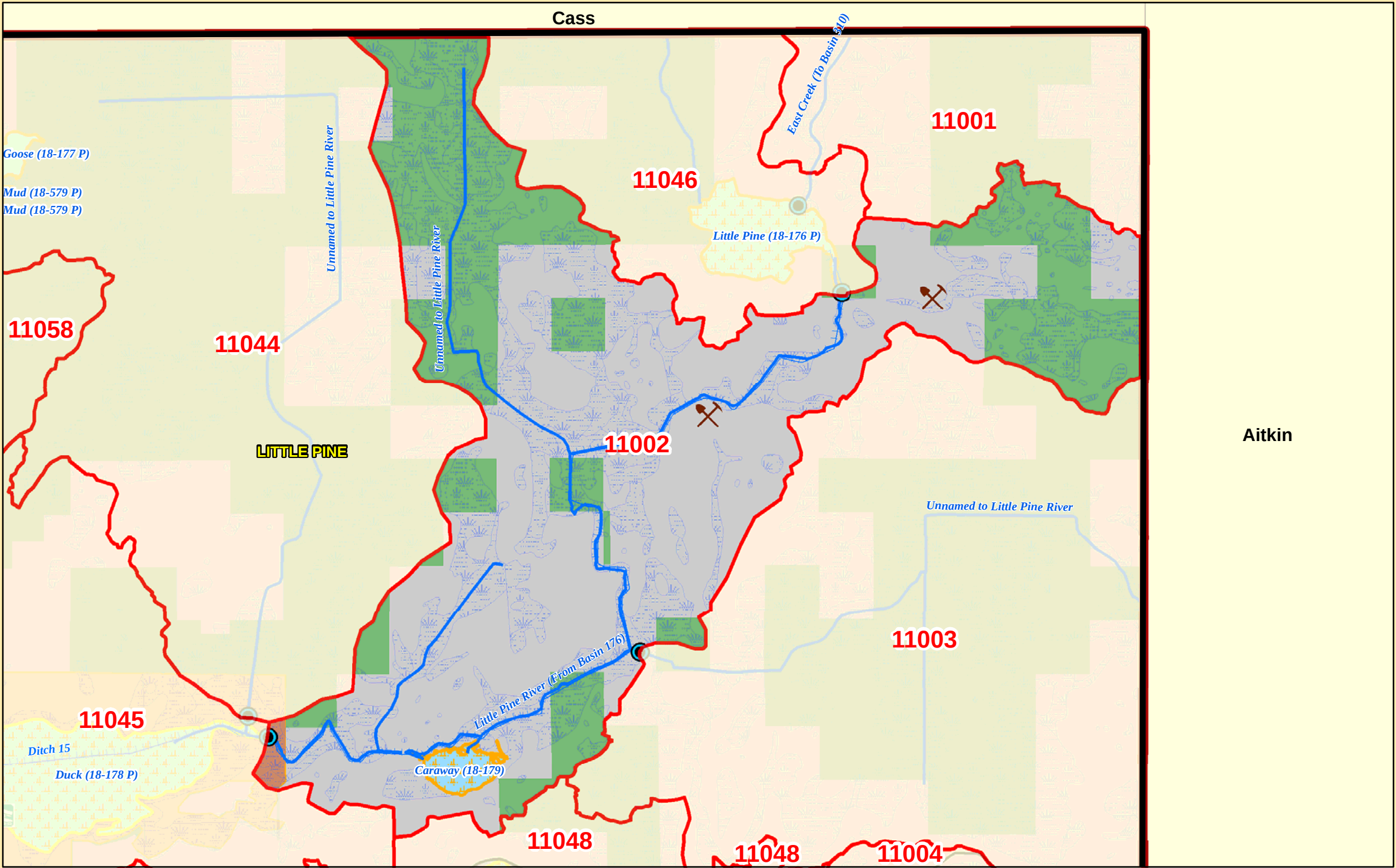
Land Services

CROW WING COUNTY

BRainerd, Minnesota 56401

00.1750.35

Miles



Minor Watershed #	11002
Major Watershed Name	Pine River
Area (sq. miles)	6
Population 2010 (persons per sq. mile)	2
Population Change 2000 to 2010 (persons per sq. mile)	0
Surficial Geology	Glacial Till
% Slope (avg.)	5
% Forested (private)	21
% Disturbed Land Cover	6
% Developed	2
Extractive Uses	Moderate
# of Animal Units	0
Biological Diversity	High
% Public Land	53
% Easements	0
% Lakes	1
% Streams	1
% Wetlands (private)	24
% Protected	79
Assigned Risk Level	Vigilance
Implementation Priorities	
Top 24 Priority Watershed	
Surface Water	
Aquatic Invasive Species	
Stormwater	x
Shoreline Buffers	x
Lake Focus: Recreational Use & Development	x
Lake Focus: Wild Rice / Wildlife	x
Rivers / Floodplains	x
Agricultural BMPs	
Ecological Sensitive Areas	x
Bluffs & Steep Slopes	
Public & Private Drainage	
Development (existing and potential)	
Private Forest Stewardship	
Ground Water	
Septic Systems	x
Wellhead Protection	

Public Waterworks

Water Use: Air Conditioning

Water Use: Industrial Processing

Irrigation: Crop

Irrigation: Non Crop

Water Use: Special Categories

Drinking Water Source Protection Areas

Wellhead Protection Areas

Feedlots (by primary animal)

BIRDS

BOVINES

HORSES

PIGS

Water Access Sites

Active Gravel Pits

U.S. Highways

State Highways

County Roads

Paul Bunyan State Trail

Cities / Townships

Mississippi River

Streams

County Ditches

Wetlands (from NWI)

Trout, Rice, and Cisco Lakes

Cisco

Cisco and Wild Rice

Cisco and Trout

Wild Rice

Trout

Infested Lakes

Milfoil

Milfoil, Zebra Mussels

Zebra Mussels

Milfoil, Zebra Mussels, Spiny Water Flea

Lakes (Classification & Water Quality Status)

General Development (GD)

Recreational Development (RD)

Natural Environment (NE)

Natural Environment-Special Shallow (NE-SS)

Impaired: Nutrients

Improving

Declining

No Trend

No Trend / Declining

Multiple Trends

Not Assessed

State Park

State Recreation Area

Scientific and Natural Area Boundaries

Wildlife Management Areas

Conservation Easements

Public Land

30 Lakes Watershed District

Outlets of watersheds / catchments

Major Watersheds

Minor Watersheds

0

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Miles

N

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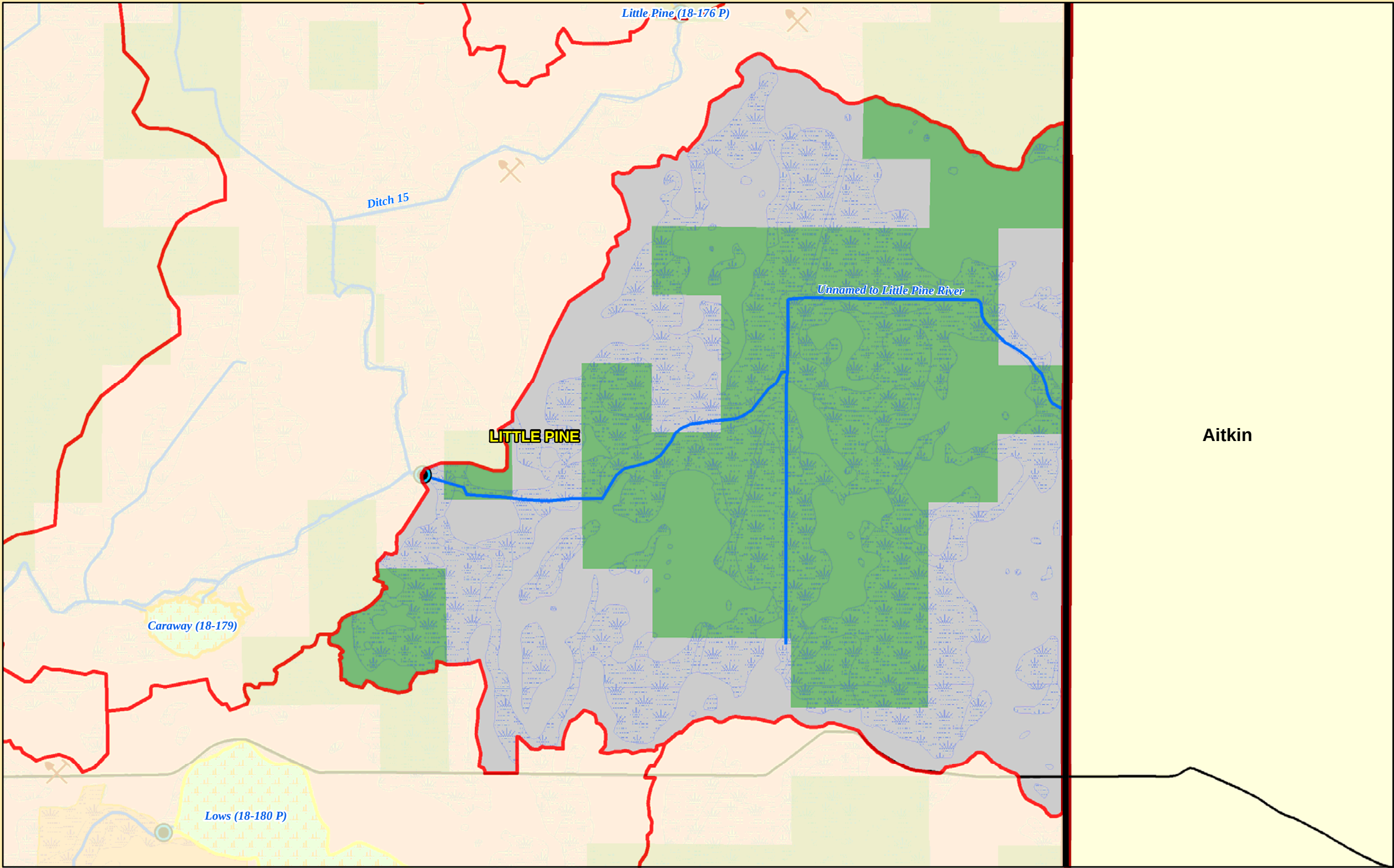
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Land Services

CROW WING COUNTY

BRainerd, WInesota 56401



Aitkin

Minor Watershed #	11003
Major Watershed Name	Pine River
Area (sq. miles)	5
Population 2010 (persons per sq. mile)	1
Population Change 2000 to 2010 (persons per sq. mile)	-1
Surficial Geology	Glacial Till
% Slope (avg.)	4
% Forested (private)	16
% Disturbed Land Cover	4
% Developed	2
Extractive Uses	Minimal
# of Animal Units	0
Biological Diversity	High
% Public Land	44
% Easements	0
% Lakes	0
% Streams	0
% Wetlands (private)	22
% Protected	66
Assigned Risk Level	Vigilance
Implementation Priorities	
Top 24 Priority Watershed	
Surface Water	
Aquatic Invasive Species	
Stormwater	
Shoreline Buffers	
Lake Focus: Recreational Use & Development	
Lake Focus: Wild Rice / Wildlife	
Rivers / Floodplains	
Agricultural BMPs	
Ecological Sensitive Areas	x
Bluffs & Steep Slopes	
Public & Private Drainage	
Development (existing and potential)	
Private Forest Stewardship	
Ground Water	
Septic Systems	
Wellhead Protection	

- Ⓢ

Public Waterworks
- ★

Water Use: Air Conditioning
- Water Use: Industrial Processing
- ⊕

Irrigation: Crop
- Irrigation: Non Crop
- ⬠

Water Use: Special Categories
- Drinking Water Source Protection Areas
- Wellhead Protection Areas

- BIRDS
- BOVINES
- HORSES
- PIGS
- 🚰

Water Access Sites
- ⛏

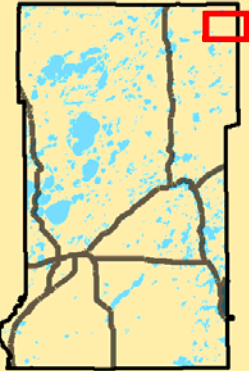
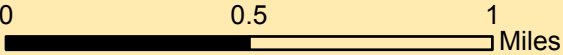
Active Gravel Pits

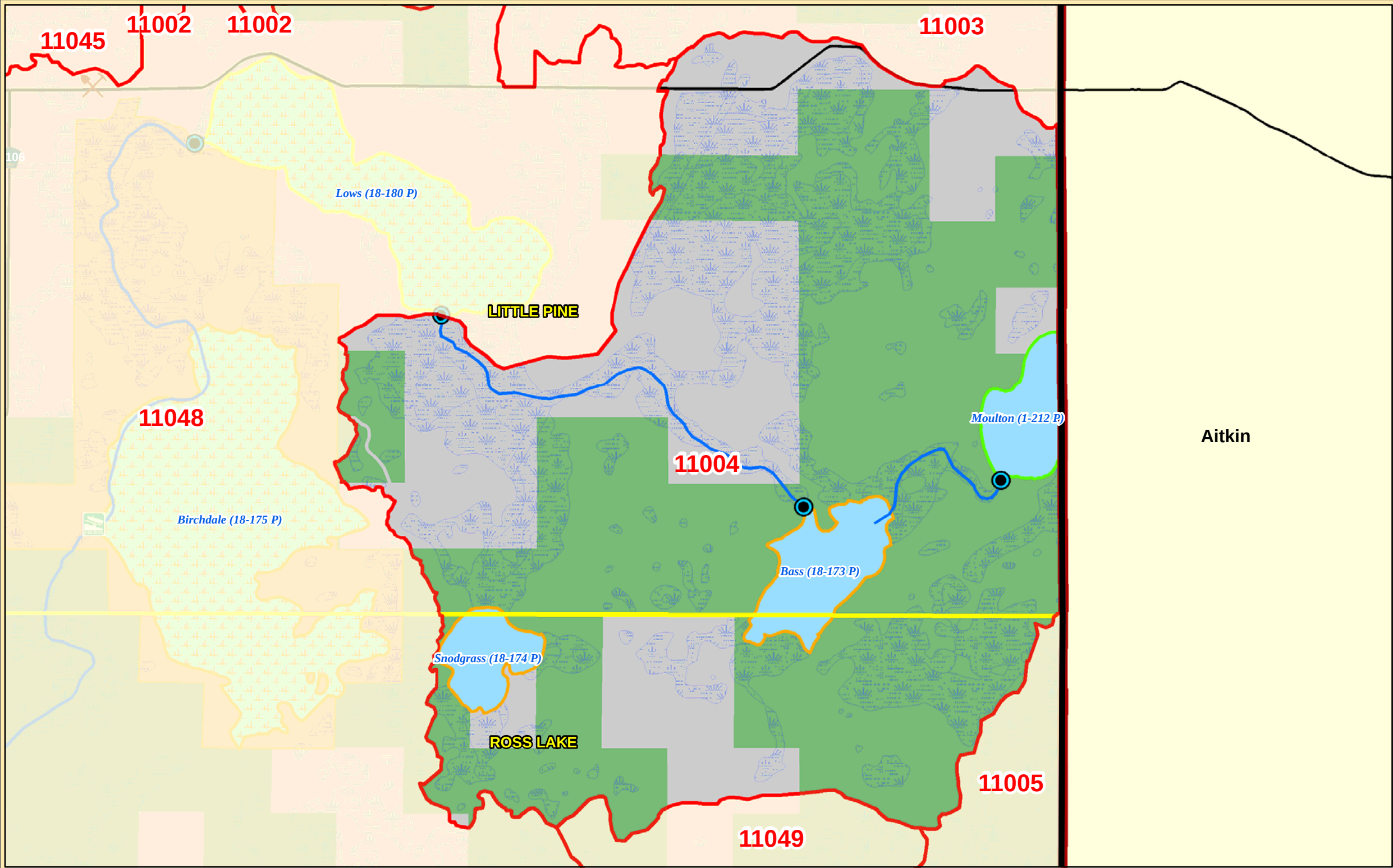
- U.S. Highways
- State Highways
- County Roads
- Paul Bunyan State Trail
- Cities / Townships
- Mississippi River
- Streams
- County Ditches
- Wetlands (from NWI)

- Trout, Rice, and Cisco Lakes
- Cisco
- Cisco and Wild Rice
- Cisco and Trout
- Wild Rice
- Trout
- Infested Lakes
- Milfoil
- Milfoil, Zebra Mussels
- Zebra Mussels
- Milfoil, Zebra Mussels, Spiny Water Flea

- Lakes (Classification & Water Quality Status)
- General Development (GD)
- Recreational Development (RD)
- Natural Environment (NE)
- Natural Environment-Special Shallow (NE-SS)
- Impaired: Nutrients
- Improving
- Declining
- No Trend
- No Trend / Declining
- Multiple Trends
- Not Assessed

- State Park
- State Recreation Area
- Scientific and Natural Area Boundaries
- Wildlife Management Areas
- Conservation Easements
- Public Land
- 30 Lakes Watershed District
- Outlets of watersheds / catchments
- Major Watersheds
- Minor Watersheds





Minor Watershed #	11004
Major Watershed Name	Pine River
Area (sq. miles)	6
Population 2010 (persons per sq. mile)	0
Population Change 2000 to 2010 (persons per sq. mile)	0
Surficial Geology	Glacial Till
% Slope (avg.)	6
% Forested (private)	14
% Disturbed Land Cover	2
% Developed	2
Extractive Uses	Minimal
# of Animal Units	0
Biological Diversity	High
% Public Land	72
% Easements	0
% Lakes	7
% Streams	0
% Wetlands (private)	15
% Protected	94
Assigned Risk Level	Vigilance
Implementation Priorities	
Top 24 Priority Watershed	
Surface Water	
Aquatic Invasive Species	
Stormwater	
Shoreline Buffers	
Lake Focus: Recreational Use & Development	
Lake Focus: Wild Rice / Wildlife	
Rivers / Floodplains	
Agricultural BMPs	
Ecological Sensitive Areas	x
Bluffs & Steep Slopes	
Public & Private Drainage	
Development (existing and potential)	
Private Forest Stewardship	
Ground Water	
Septic Systems	
Wellhead Protection	

- Ⓢ

Public Waterworks
- ★

Water Use: Air Conditioning
- Water Use: Industrial Processing
- ⊕

Irrigation: Crop
- Irrigation: Non Crop
- ⬠

Water Use: Special Categories
- Drinking Water Source Protection Areas
- Wellhead Protection Areas

- BIRDS
- BOVINES
- HORSES
- PIGS
- Water Access Sites
- ⛏

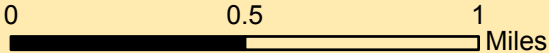
Active Gravel Pits

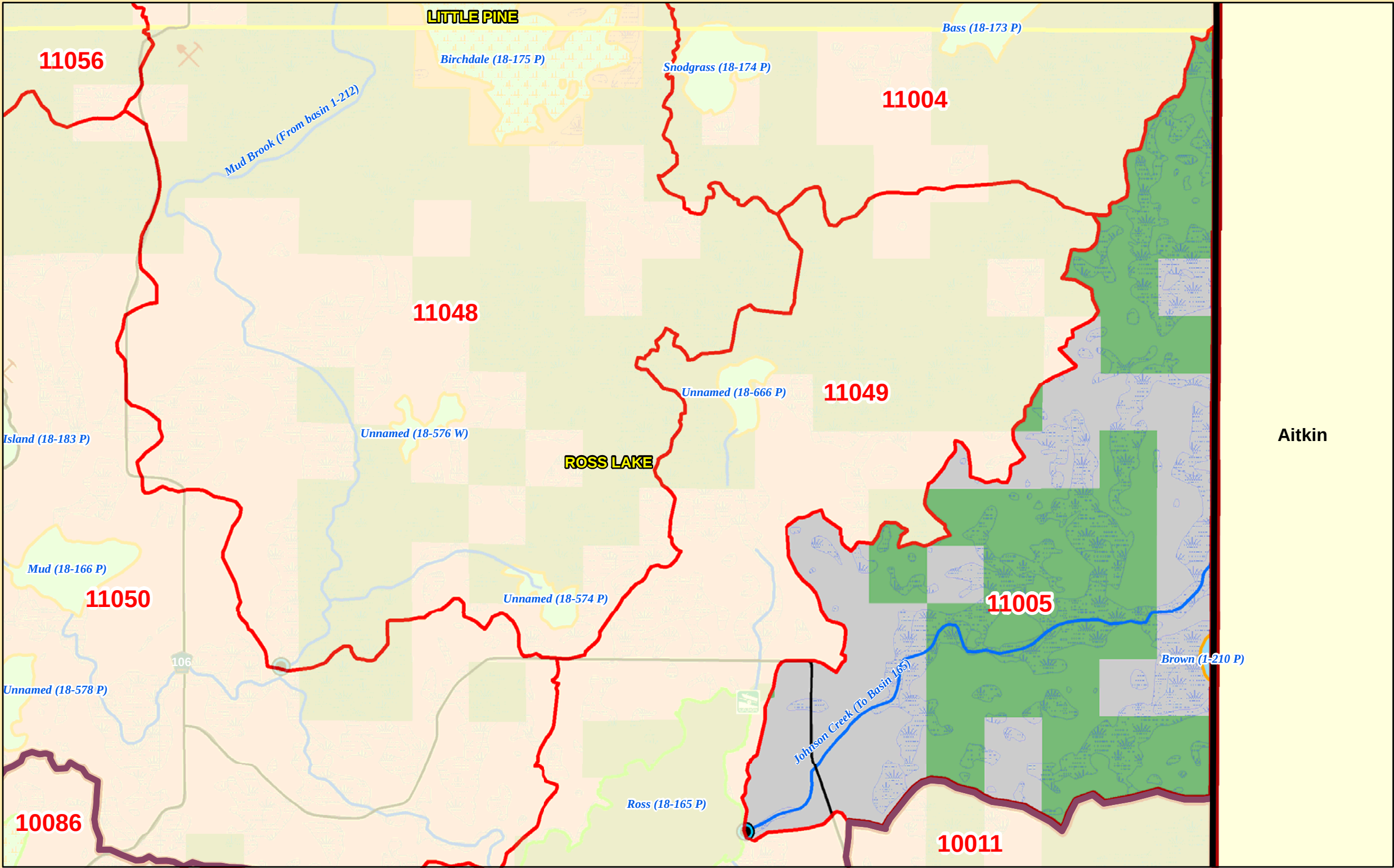
- U.S. Highways
- State Highways
- County Roads
- Paul Bunyan State Trail
- Cities / Townships
- Mississippi River
- Streams
- County Ditches
- Wetlands (from NWI)

- Trout, Rice, and Cisco Lakes
- Cisco
- Cisco and Wild Rice
- Cisco and Trout
- Wild Rice
- Trout
- Infested Lakes
- Milfoil
- Milfoil, Zebra Mussels
- Zebra Mussels
- Milfoil, Zebra Mussels, Spiny Water Flea

- Lakes (Classification & Water Quality Status)
- General Development (GD)
- Recreational Development (RD)
- Natural Environment (NE)
- Natural Environment-Special Shallow (NE-SS)
- Impaired: Nutrients
- Improving
- Declining
- No Trend
- No Trend / Declining
- Multiple Trends
- Not Assessed

- State Park
- State Recreation Area
- Scientific and Natural Area Boundaries
- Wildlife Management Areas
- Conservation Easements
- Public Land
- 30 Lakes Watershed District
- Outlets of watersheds / catchments
- Major Watersheds
- Minor Watersheds





Minor Watershed #	11005
Major Watershed Name	Pine River
Area (sq. miles)	4
Population 2010 (persons per sq. mile)	1
Population Change 2000 to 2010 (persons per sq. mile)	0
Surficial Geology	Glacial Till
% Slope (avg.)	8
% Forested (private)	21
% Disturbed Land Cover	2
% Developed	1
Extractive Uses	Minimal
# of Animal Units	0
Biological Diversity	High
% Public Land	49
% Easements	0
% Lakes	0
% Streams	0
% Wetlands (private)	14
% Protected	64
Assigned Risk Level	Vigilance
Implementation Priorities	
Top 24 Priority Watershed	
Surface Water	
Aquatic Invasive Species	
Stormwater	
Shoreline Buffers	
Lake Focus: Recreational Use & Development	
Lake Focus: Wild Rice / Wildlife	
Rivers / Floodplains	
Agricultural BMPs	
Ecological Sensitive Areas	x
Bluffs & Steep Slopes	
Public & Private Drainage	x
Development (existing and potential)	
Private Forest Stewardship	
Ground Water	
Septic Systems	
Wellhead Protection	

- Ⓜ

Public Waterworks
- ★

Water Use: Air Conditioning
- Water Use: Industrial Processing
- ⊕

Irrigation: Crop
- Irrigation: Non Crop
- ⬠

Water Use: Special Categories
- Drinking Water Source Protection Areas
- Wellhead Protection Areas
- Feedlots (by primary animal)
- BIRDS
- BOVINES
- HORSES
- PIGS
- Water Access Sites
- ⛏

Active Gravel Pits

—

U.S. Highways

—

State Highways

—

County Roads

—

Paul Bunyan State Trail

■

Cities / Townships

■

Mississippi River

—

Streams

—

County Ditches

■

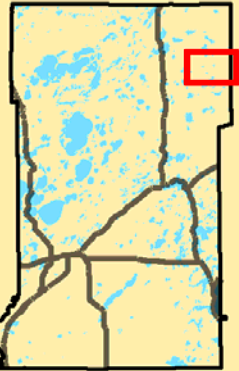
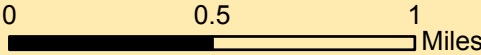
Wetlands (from NWI)

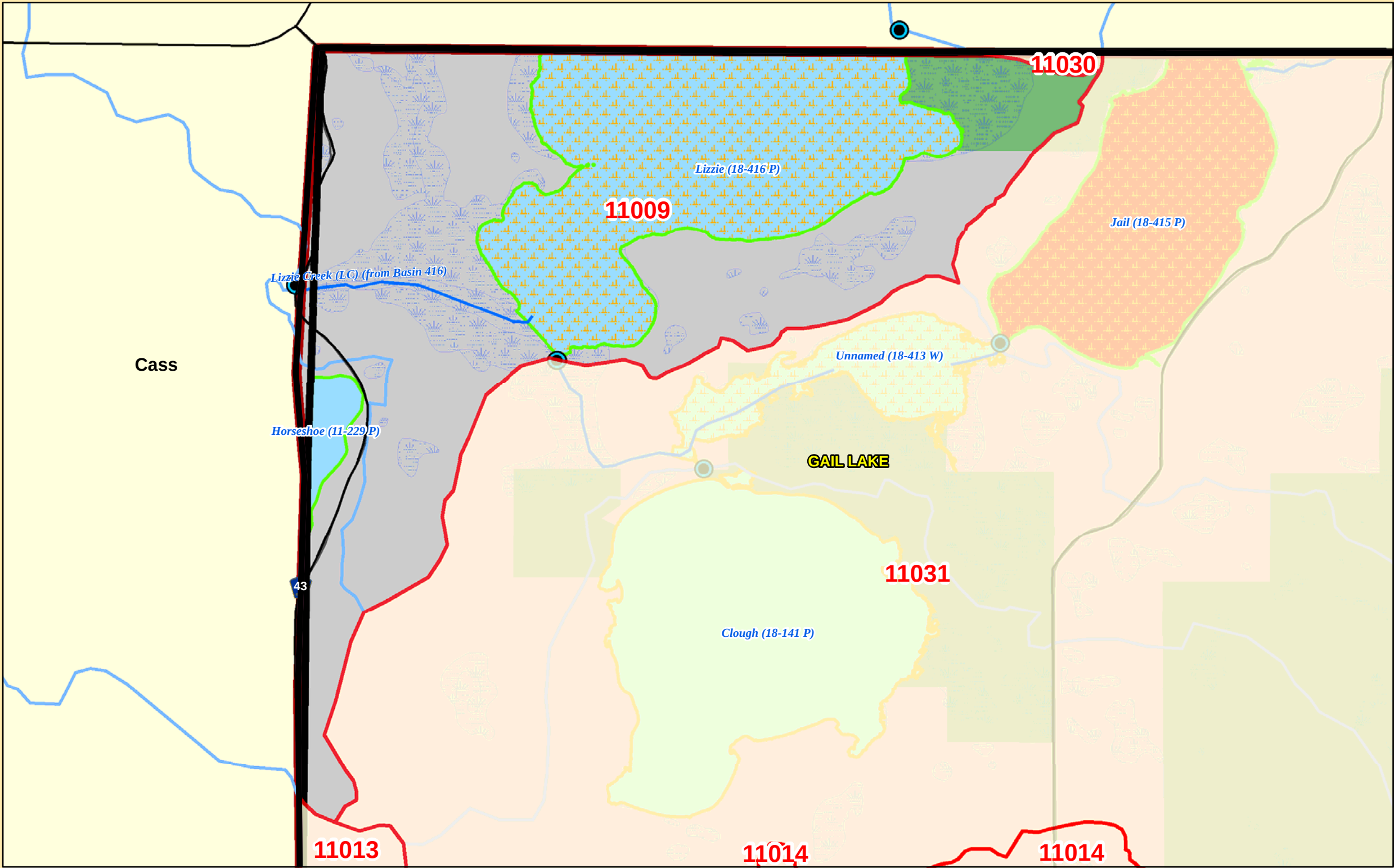
- U.S. Highways
- State Highways
- County Roads
- Paul Bunyan State Trail
- Cities / Townships
- Mississippi River
- Streams
- County Ditches
- Wetlands (from NWI)

- Trout, Rice, and Cisco Lakes
- Cisco
- Cisco and Wild Rice
- Cisco and Trout
- Wild Rice
- Trout
- Infested Lakes
- Milfoil
- Milfoil, Zebra Mussels
- Zebra Mussels
- Milfoil, Zebra Mussels, Spiny Water Flea

- Lakes (Classification & Water Quality Status)
- General Development (GD)
- Recreational Development (RD)
- Natural Environment (NE)
- Natural Environment-Special Shallow (NE-SS)
- Impaired: Nutrients
- Improving
- Declining
- No Trend
- No Trend / Declining
- Multiple Trends
- Not Assessed

- State Park
- State Recreation Area
- Scientific and Natural Area Boundaries
- Wildlife Management Areas
- Conservation Easements
- Public Land
- 30 Lakes Watershed District
- Outlets of watersheds / catchments
- Major Watersheds
- Minor Watersheds





Minor Watershed #	11009
Major Watershed Name	Pine River
Area (sq. miles)	1
Population 2010 (persons per sq. mile)	5
Population Change 2000 to 2010 (persons per sq. mile)	-5
Surficial Geology	Outwash (sand & gravel)
% Slope (avg.)	9
% Forested (private)	33
% Disturbed Land Cover	5
% Developed	1
Extractive Uses	Minimal
# of Animal Units	0
Biological Diversity	Moderate
% Public Land	8
% Easements	0
% Lakes	35
% Streams	0
% Wetlands (private)	16
% Protected	58
Assigned Risk Level	Vigilance
Implementation Priorities	
Top 24 Priority Watershed	
Surface Water	
Aquatic Invasive Species	
Stormwater	x
Shoreline Buffers	x
Lake Focus: Recreational Use & Development	x
Lake Focus: Wild Rice / Wildlife	x
Rivers / Floodplains	
Agricultural BMPs	
Ecological Sensitive Areas	
Bluffs & Steep Slopes	
Public & Private Drainage	
Development (existing and potential)	
Private Forest Stewardship	x
Ground Water	
Septic Systems	x
Wellhead Protection	

- Ⓜ

Public Waterworks
- ★

Water Use: Air Conditioning
- Water Use: Industrial Processing
- ⊕

Irrigation: Crop
- Irrigation: Non Crop
- ⬠

Water Use: Special Categories
- Drinking Water Source Protection Areas
- Wellhead Protection Areas

- BIRDS
- BOVINES
- HORSES
- PIGS
- 🏠

Water Access Sites
- ⛏

Active Gravel Pits

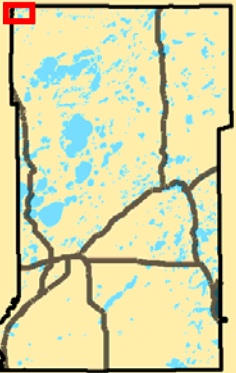
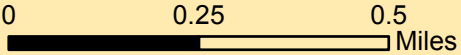
- U.S. Highways
- State Highways
- County Roads
- Paul Bunyan State Trail
- Cities / Townships
- Mississippi River
- Streams
- County Ditches
- Wetlands (from NWI)

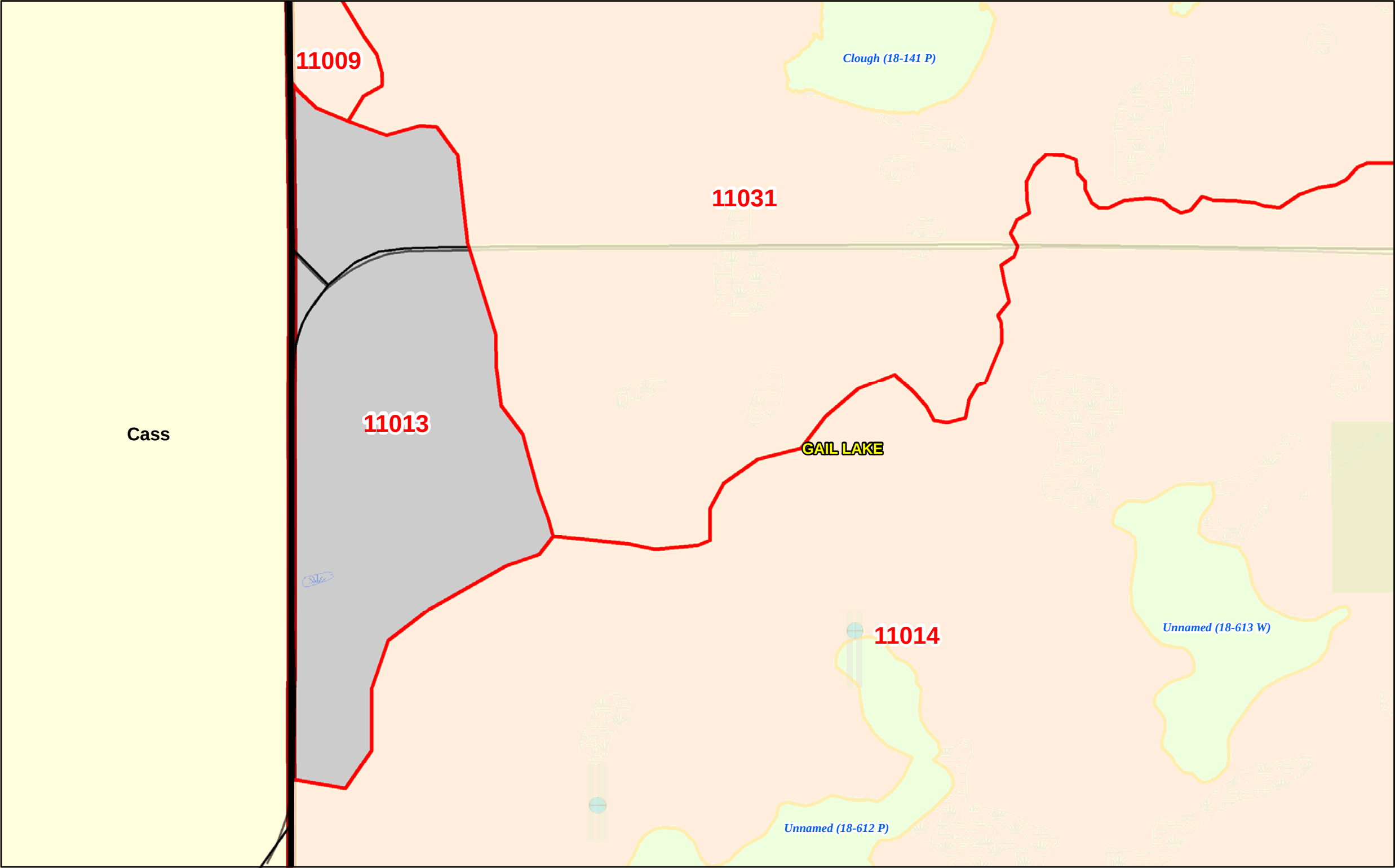
- Trout, Rice, and Cisco Lakes
- Cisco
- Cisco and Wild Rice
- Cisco and Trout
- Wild Rice
- Trout
- Infested Lakes
- Milfoil
- Milfoil, Zebra Mussels
- Zebra Mussels
- Milfoil, Zebra Mussels, Spiny Water Flea

- Lakes (Classification & Water Quality Status)
- GD
- RD
- NE
- NE-SP
- Impaired: Nutrients
- Improving
- Declining
- No Trend
- No Trend / Declining
- Multiple Trends
- Not Assessed

- State Park
- State Recreation Area
- Scientific and Natural Area Boundaries
- Wildlife Management Areas
- Conservation Easements
- Public Land
- 30 Lakes Watershed District
- ⊕

Outlets of watersheds / catchments
- Major Watersheds
- Minor Watersheds





Minor Watershed #	11013
Major Watershed Name	Pine River
Area (sq. miles)	0
Population 2010 (persons per sq. mile)	7
Population Change 2000 to 2010 (persons per sq. mile)	2
Surficial Geology	Outwash (sand & gravel)
% Slope (avg.)	6
% Forested (private)	37
% Disturbed Land Cover	54
% Developed	10
Extractive Uses	Minimal
# of Animal Units	0
Biological Diversity	Minimal
% Public Land	0
% Easements	0
% Lakes	0
% Streams	0
% Wetlands (private)	0
% Protected	0
Assigned Risk Level	Enhance / Protection

Implementation Priorities	
Top 24 Priority Watershed	
Surface Water	
Aquatic Invasive Species	
Stormwater	
Shoreline Buffers	
Lake Focus: Recreational Use & Development	
Lake Focus: Wild Rice / Wildlife	
Rivers / Floodplains	
Agricultural BMPs	
Ecological Sensitive Areas	
Bluffs & Steep Slopes	
Public & Private Drainage	
Development (existing and potential)	
Private Forest Stewardship	x
Ground Water	
Septic Systems	x
Wellhead Protection	

- W

Public Waterworks
- ★

Water Use: Air Conditioning
- Water Use: Industrial Processing
- ⊕

Irrigation: Crop
- Irrigation: Non Crop
- ⬠

Water Use: Special Categories
- Wellhead Protection Areas
- Drinking Water Source Protection Areas

- Feedlots (by primary animal)

●

BIRDS

●

BOVINES

●

HORSES

●

PIGS

■

Water Access Sites

⚡

Active Gravel Pits
- U.S. Highways

—

State Highways

—

County Roads

—

Paul Bunyan State Trail

■

Cities / Townships

■

Mississippi River

—

Streams

—

County Ditches

■

Wetlands (from NWI)
- Trout, Rice, and Cisco Lakes

■

Cisco

■

Cisco and Wild Rice

■

Cisco and Trout

■

Wild Rice

■

Trout

Infested Lakes

■

Milfoil

■

Milfoil, Zebra Mussels

■

Zebra Mussels

■

Milfoil, Zebra Mussels, Spiny Water Flea

Lakes (Classification & Water Quality Status)

■

General Development (GD)

■

Recreational Development (RD)

■

Natural Environment (NE)

■

Natural Environment-Special Shallow (NE-SS)

■

Impaired: Nutrients

■

Improving

■

Declining

■

No Trend

■

No Trend / Declining

■

Multiple Trends

■

Not Assessed

■

State Park

■

State Recreation Area

■

Scientific and Natural Area Boundaries

■

Wildlife Management Areas

■

Conservation Easements

■

Public Land

■

30 Lakes Watershed District

●

Outlets of watersheds / catchments

■

Minor Watersheds

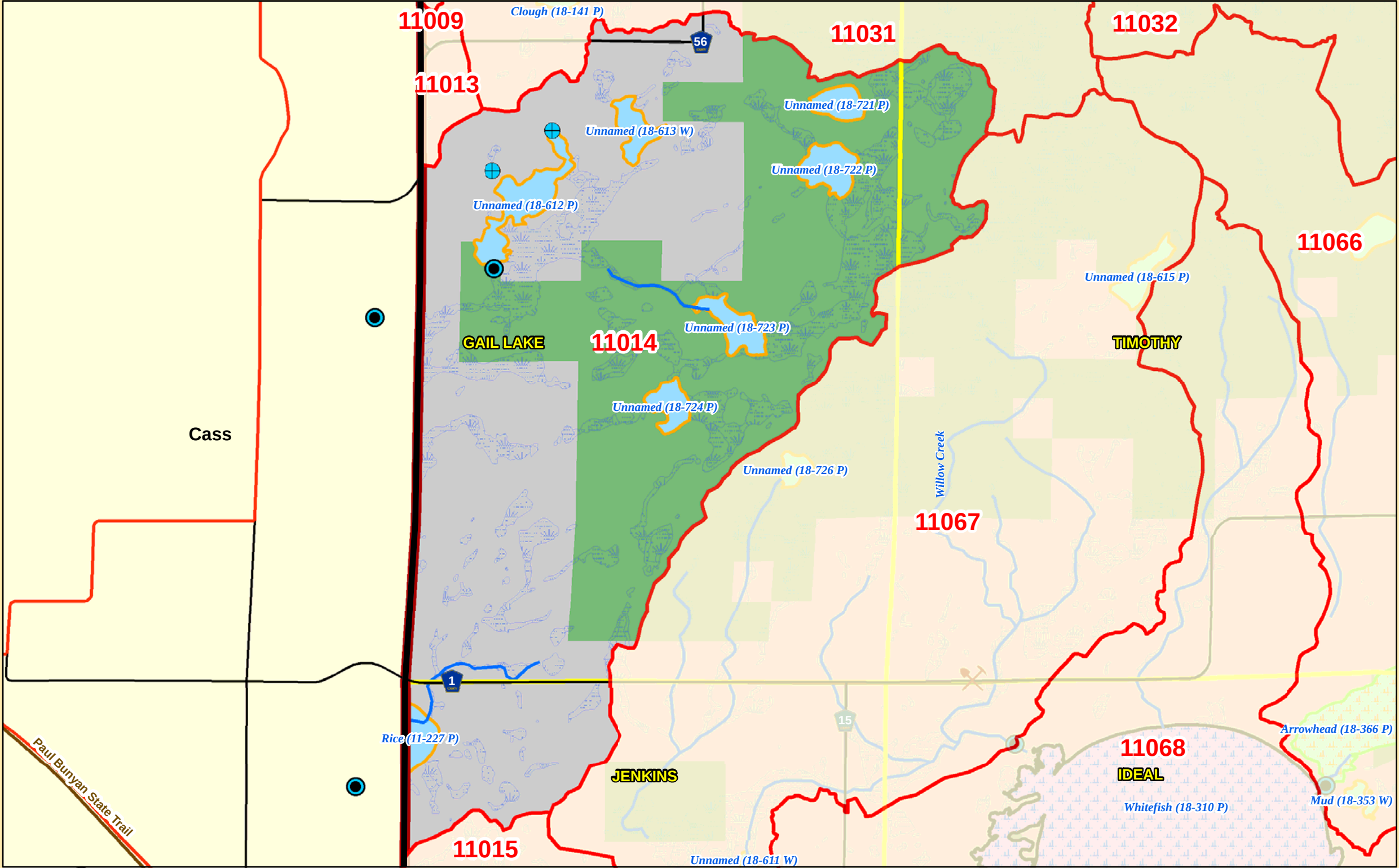
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Major Watersheds

Land Services

CROW WING COUNTY

BRainer D. MINNESOTA 58431



Minor Watershed #	11014
Major Watershed Name	Pine River
Area (sq. miles)	11
Population 2010 (persons per sq. mile)	4
Population Change 2000 to 2010 (persons per sq. mile)	0
Surficial Geology	Glacial Till
% Slope (avg.)	6
% Forested (private)	21
% Disturbed Land Cover	16
% Developed	1
Extractive Uses	Minimal
# of Animal Units	0
Biological Diversity	Partially Moderate
% Public Land	58
% Easements	0
% Lakes	5
% Streams	0
% Wetlands (private)	7
% Protected	71
Assigned Risk Level	Protection
Implementation Priorities	
Top 24 Priority Watershed	
Surface Water	
Aquatic Invasive Species	
Stormwater	x
Shoreline Buffers	x
Lake Focus: Recreational Use & Development	x
Lake Focus: Wild Rice / Wildlife	
Rivers / Floodplains	
Agricultural BMPs	
Ecological Sensitive Areas	
Bluffs & Steep Slopes	
Public & Private Drainage	
Development (existing and potential)	
Private Forest Stewardship	
Ground Water	
Septic Systems	x
Wellhead Protection	

- Ⓜ

Public Waterworks
- ★

Water Use: Air Conditioning
- Water Use: Industrial Processing
- ⊕

Irrigation: Crop
- Irrigation: Non Crop
- ⬠

Water Use: Special Categories
- Wellhead Protection Areas
- Drinking Water Source Protection Areas

●

BIRDS

●

BOVINES

●

HORSES

●

PIGS

■

Water Access Sites

⚡

Active Gravel Pits

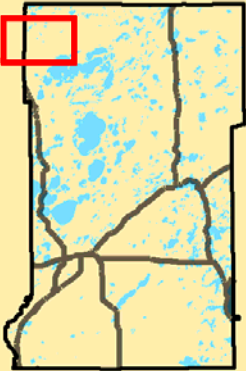
- Feedlots (by primary animal)
- U.S. Highways
- State Highways
- County Roads
- Paul Bunyan State Trail
- Cities / Townships
- Mississippi River
- Streams
- County Ditches
- Wetlands (from NWI)

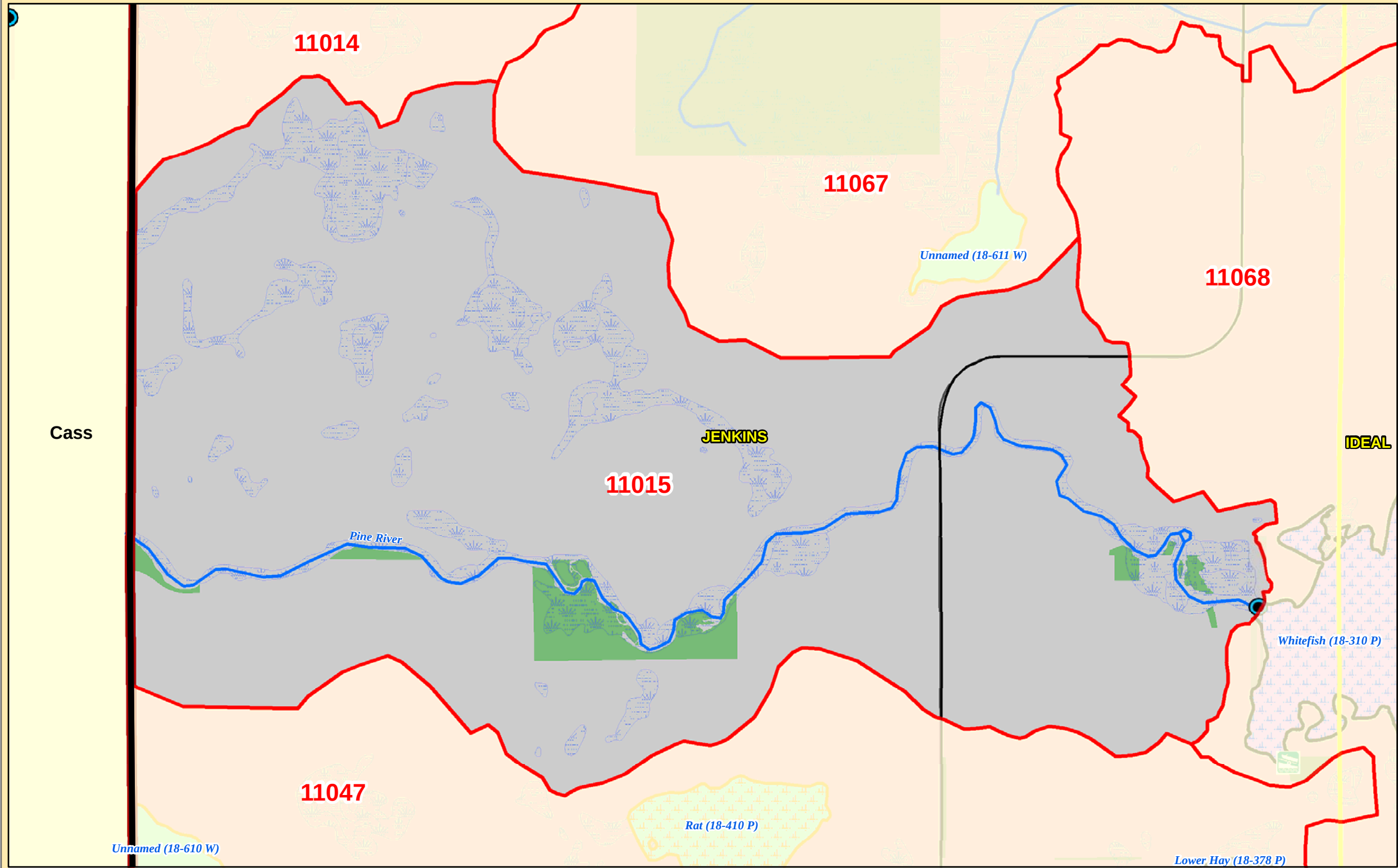
- Trout, Rice, and Cisco Lakes
- Cisco
- Cisco and Wild Rice
- Cisco and Trout
- Wild Rice
- Trout
- Infested Lakes
- Milfoil
- Milfoil, Zebra Mussels
- Zebra Mussels
- Milfoil, Zebra Mussels, Spiny Water Flea

- Lakes (Classification & Water Quality Status)
- General Development (GD)
- Recreational Development (RD)
- Natural Environment (NE)
- Natural Environment-Special Shallow (NE-SS)
- Impaired: Nutrients
- Improving
- No Trend
- No Trend / Declining
- Multiple Trends
- Not Assessed

- State Park
- State Recreation Area
- Scientific and Natural Area Boundaries
- Wildlife Management Areas
- Conservation Easements
- Public Land
- 30 Lakes Watershed District
- Outlets of watersheds / catchments
- Minor Watersheds
- Major Watersheds

- Scale: 0 0.5 1 Miles
- Compass: N, S, E, W





Minor Watershed #	11015
Major Watershed Name	Pine River
Area (sq. miles)	3
Population 2010 (persons per sq. mile)	16
Population Change 2000 to 2010 (persons per sq. mile)	-1
Surficial Geology	Glacial Till / Outwash (sand & gravel)
% Slope (avg.)	7
% Forested (private)	44
% Disturbed Land Cover	10
% Developed	1
Extractive Uses	Minimal
# of Animal Units	0
Biological Diversity	Minimal
% Public Land	3
% Easements	0
% Lakes	0
% Streams	3
% Wetlands (private)	10
% Protected	15
Assigned Risk Level	Protection
Implementation Priorities	
Top 24 Priority Watershed	
Surface Water	
Aquatic Invasive Species	
Stormwater	x
Shoreline Buffers	x
Lake Focus: Recreational Use & Development	
Lake Focus: Wild Rice / Wildlife	
Rivers / Floodplains	x
Agricultural BMPs	
Ecological Sensitive Areas	
Bluffs & Steep Slopes	
Public & Private Drainage	x
Development (existing and potential)	
Private Forest Stewardship	x
Ground Water	
Septic Systems	x
Wellhead Protection	

Public Waterworks

Water Use: Air Conditioning

Water Use: Industrial Processing

Irrigation: Crop

Irrigation: Non Crop

Water Use: Special Categories

Wellhead Protection Areas

Drinking Water Source Protection Areas

Feedlots (by primary animal)

BIRDS

BOVINES

HORSES

PIGS

Water Access Sites

Active Gravel Pits

U.S. Highways

State Highways

County Roads

Paul Bunyan State Trail

Cities / Townships

Mississippi River

Streams

County Ditches

Wetlands (from NWI)

Trout, Rice, and Cisco Lakes

Cisco

Cisco and Wild Rice

Cisco and Trout

Wild Rice

Trout

Infested Lakes

Milfoil

Milfoil, Zebra Mussels

Zebra Mussels

Milfoil, Zebra Mussels, Spiny Water Flea

Lakes (Classification & Water Quality Status)

General Development (GD)

Recreational Development (RD)

Natural Environment (NE)

Natural Environment-Special Shallow (NE-SS)

Impaired: Nutrients

Improving

Declining

No Trend

No Trend / Declining

Multiple Trends

Not Assessed

State Park

State Recreation Area

Scientific and Natural Area Boundaries

Wildlife Management Areas

Conservation Easements

Public Land

30 Lakes Watershed District

Outlets of watersheds / catchments

Minor Watersheds

Major Watersheds

Scale: 0, 0.25, 0.5 Miles

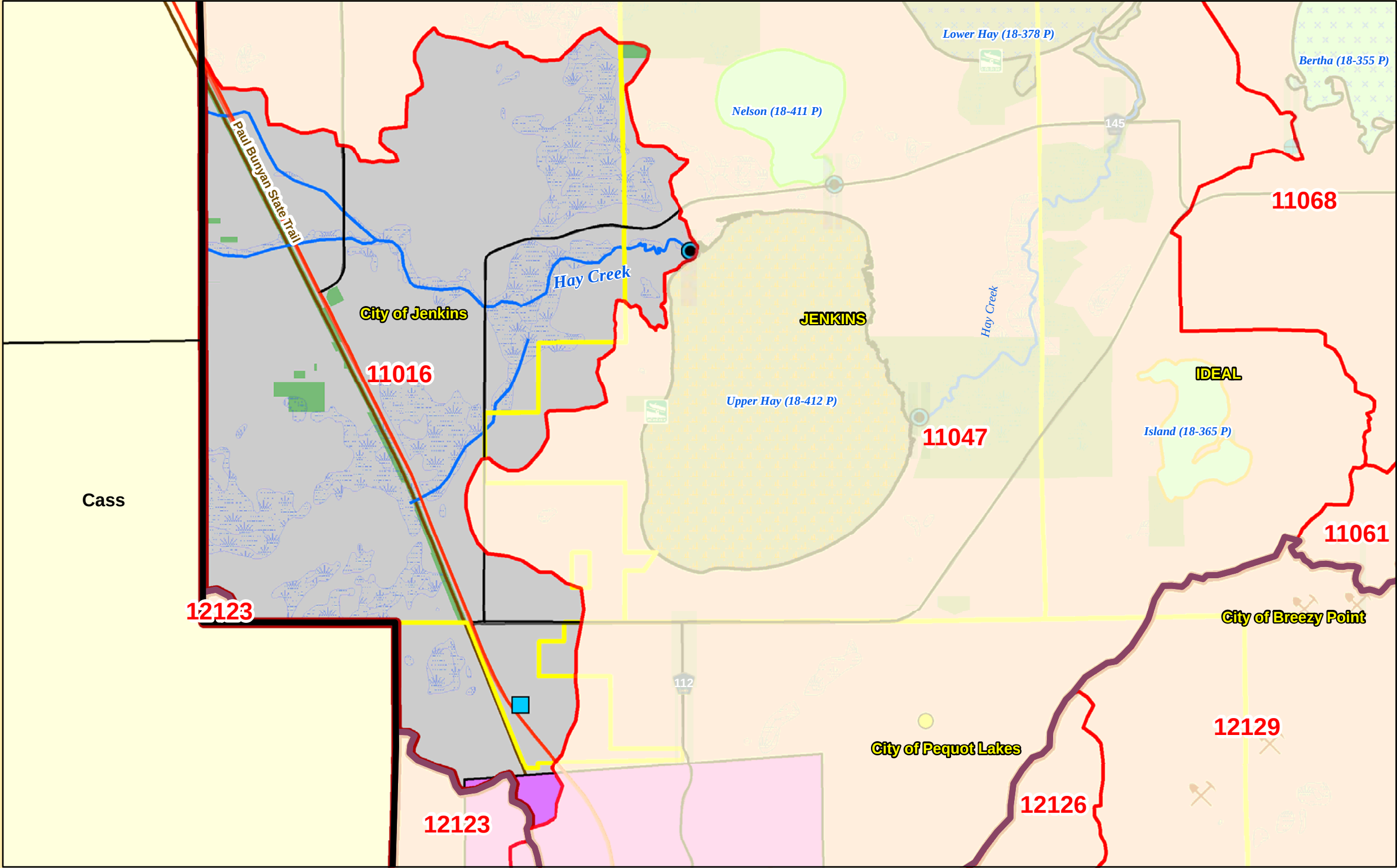
Compass rose

Inset map of Minnesota showing the location of Cass County

Land Services

CROW WING COUNTY

BRainerd, MINNESOTA 56401



Minor Watershed #	11016
Major Watershed Name	Pine River
Area (sq. miles)	3
Population 2010 (persons per sq. mile)	130
Population Change 2000 to 2010 (persons per sq. mile)	35
Surficial Geology	Outwash (sand & gravel)
% Slope (avg.)	4
% Forested (private)	17
% Disturbed Land Cover	24
% Developed	7
Extractive Uses	Minimal
# of Animal Units	0
Biological Diversity	Minimal
% Public Land	5
% Easements	0
% Lakes	0
% Streams	0
% Wetlands (private)	20
% Protected	25
Assigned Risk Level	Enhance / Protection

Implementation Priorities	
Top 24 Priority Watershed	
Surface Water	
Aquatic Invasive Species	
Stormwater	
Shoreline Buffers	
Lake Focus: Recreational Use & Development	
Lake Focus: Wild Rice / Wildlife	
Rivers / Floodplains	
Agricultural BMPs	
Ecological Sensitive Areas	
Bluffs & Steep Slopes	
Public & Private Drainage	
Development (existing and potential)	x
Private Forest Stewardship	
Ground Water	
Septic Systems	x
Wellhead Protection	

Public Waterworks

Water Use: Air Conditioning

Water Use: Industrial Processing

Irrigation: Crop

Irrigation: Non Crop

Water Use: Special Categories

Wellhead Protection Areas

Drinking Water Source Protection Areas

Feedlots (by primary animal)

BIRDS

BOVINES

HORSES

PIGS

Water Access Sites

Active Gravel Pits

U.S. Highways

State Highways

County Roads

Paul Bunyan State Trail

Cities / Townships

Mississippi River

Streams

County Ditches

Wetlands (from NWI)

Trout, Rice, and Cisco Lakes

Cisco

Cisco and Wild Rice

Cisco and Trout

Wild Rice

Trout

Infested Lakes

Milfoil

Milfoil, Zebra Mussels

Zebra Mussels

Milfoil, Zebra Mussels, Spiny Water Flea

Lakes (Classification & Water Quality Status)

General Development (GD)

Recreational Development (RD)

Natural Environment (NE)

Natural Environment-Special Shallow (NE-SS)

Impaired: Nutrients

Improving

No Trend

No Trend / Declining

Multiple Trends

Not Assessed

State Park

State Recreation Area

Scientific and Natural Area Boundaries

Wildlife Management Areas

Conservation Easements

Public Land

30 Lakes Watershed District

Outlets of watersheds / catchments

Minor Watersheds

Major Watersheds

Scale: 0 0.5 1 Miles

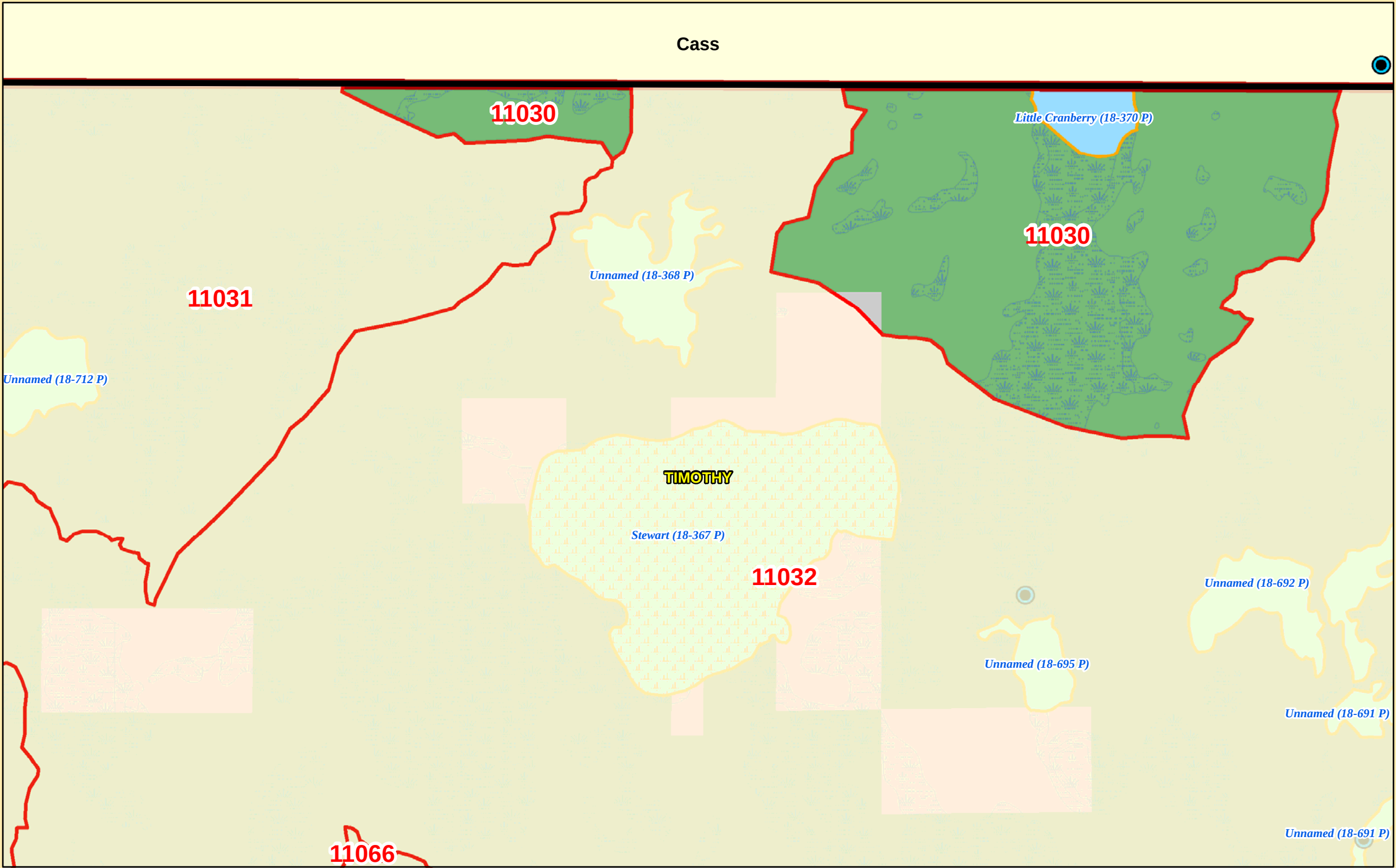
North Arrow

Inset Map of Minnesota

Land Services

CROW WING COUNTY

BRainer D. MINNESOTA 58431



Minor Watershed #	11030
Major Watershed Name	Pine River
Area (sq. miles)	1
Population 2010 (persons per sq. mile)	2
Population Change 2000 to 2010 (persons per sq. mile)	-1
Surficial Geology	Glacial Till
% Slope (avg.)	7
% Forested (private)	1
% Disturbed Land Cover	0
% Developed	0
Extractive Uses	Minimal
# of Animal Units	0
Biological Diversity	Moderate
% Public Land	100
% Easements	0
% Lakes	4
% Streams	0
% Wetlands (private)	0
% Protected	100
Assigned Risk Level	Vigilance
Implementation Priorities	
Top 24 Priority Watershed	
Surface Water	
Aquatic Invasive Species	
Stormwater	
Shoreline Buffers	
Lake Focus: Recreational Use & Development	
Lake Focus: Wild Rice / Wildlife	
Rivers / Floodplains	
Agricultural BMPs	
Ecological Sensitive Areas	x
Bluffs & Steep Slopes	
Public & Private Drainage	
Development (existing and potential)	
Private Forest Stewardship	
Ground Water	
Septic Systems	
Wellhead Protection	

- Ⓜ

Public Waterworks
- ★

Water Use: Air Conditioning
- Water Use: Industrial Processing
- ⊕

Irrigation: Crop
- Irrigation: Non Crop
- ⬠

Water Use: Special Categories
- Drinking Water Source Protection Areas
- Wellhead Protection Areas

●

Feedlots (by primary animal)

●

BIRDS

●

BOVINES

●

HORSES

●

PIGS

■

Water Access Sites

⛏

Active Gravel Pits

- U.S. Highways
- State Highways
- County Roads
- Paul Bunyan State Trail
- Cities / Townships
- Mississippi River
- Streams
- County Ditches
- Wetlands (from NWI)

- Trout, Rice, and Cisco Lakes

■

Cisco

■

Cisco and Wild Rice

■

Cisco and Trout

■

Wild Rice

■

Trout

Infested Lakes

■

Milfoil

■

Milfoil, Zebra Mussels

■

Zebra Mussels

■

Milfoil, Zebra Mussels, Spiny Water Flea
- Lakes (Classification & Water Quality Status)

■

General Development (GD)

■

Recreational Development (RD)

■

Natural Environment (NE)

■

Natural Environment-Special Shallow (NE-SS)

■

Impaired: Nutrients

■

Improving

■

Declining

■

No Trend

■

No Trend / Declining

■

Multiple Trends

■

Not Assessed
- State Park

■

State Recreation Area

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Scientific and Natural Area Boundaries

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Wildlife Management Areas

■

Conservation Easements

■

Public Land

■

30 Lakes Watershed District

●

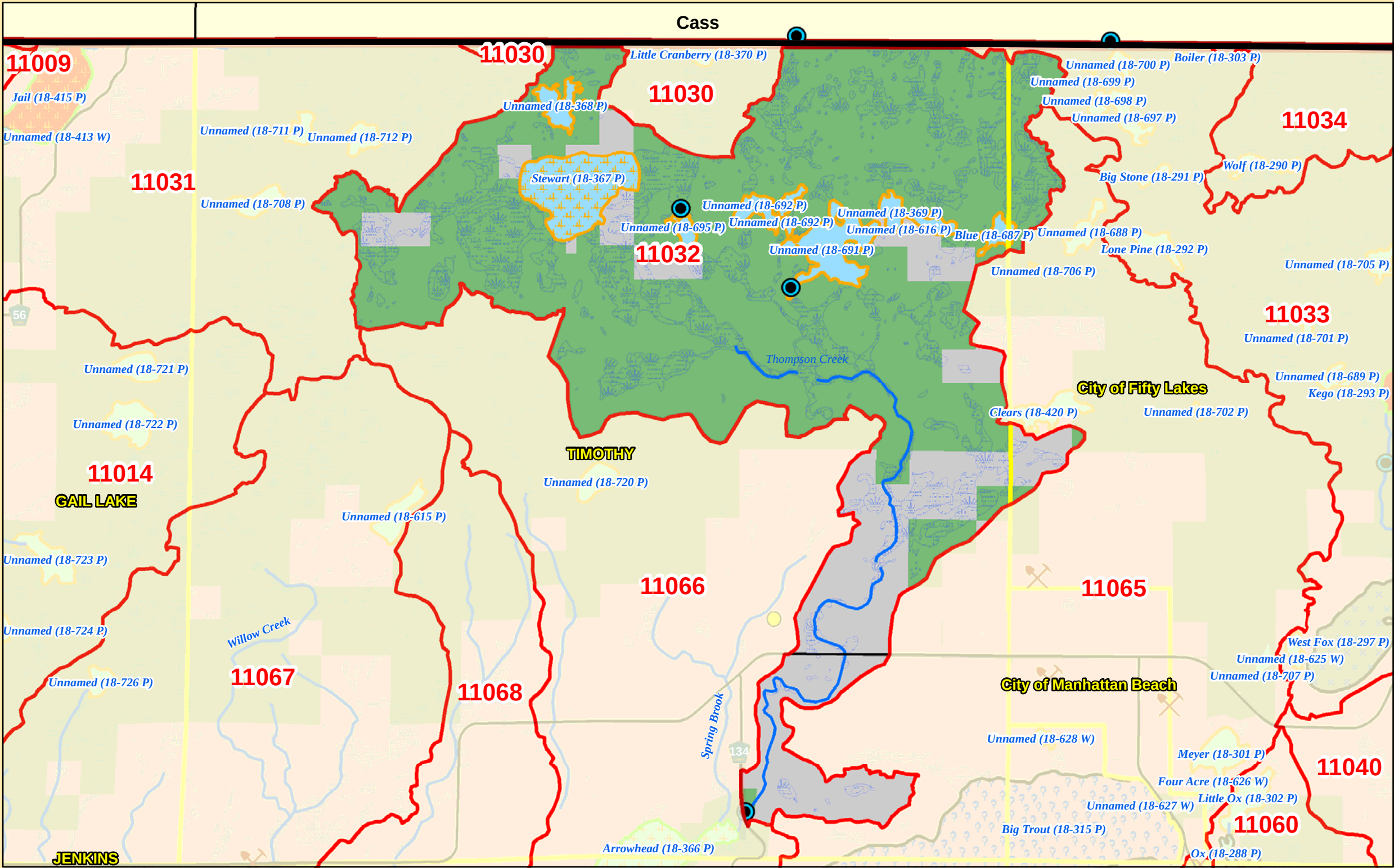
Outlets of watersheds / catchments

■

Major Watersheds

■

Minor Watersheds
-
-
-
-



Minor Watershed #	11032
Major Watershed Name	Pine River
Area (sq. miles)	13
Population 2010 (persons per sq. mile)	3
Population Change 2000 to 2010 (persons per sq. mile)	-1
Surficial Geology	Glacial Till
% Slope (avg.)	7
% Forested (private)	9
% Disturbed Land Cover	3
% Developed	1
Extractive Uses	Minimal
# of Animal Units	0
Biological Diversity	Moderate
% Public Land	81
% Easements	0
% Lakes	7
% Streams	0
% Wetlands (private)	5
% Protected	92
Assigned Risk Level	Vigilance
Implementation Priorities	
Top 24 Priority Watershed	
Surface Water	
Aquatic Invasive Species	
Stormwater	x
Shoreline Buffers	x
Lake Focus: Recreational Use & Development	x
Lake Focus: Wild Rice / Wildlife	x
Rivers / Floodplains	
Agricultural BMPs	
Ecological Sensitive Areas	
Bluffs & Steep Slopes	
Public & Private Drainage	x
Development (existing and potential)	
Private Forest Stewardship	
Ground Water	
Septic Systems	
Wellhead Protection	

- Ⓜ

Public Waterworks
- ★

Water Use: Air Conditioning
- Water Use: Industrial Processing
- ⊕

Irrigation: Crop
- Irrigation: Non Crop
- ⬠

Water Use: Special Categories
- Drinking Water Source Protection Areas
- Wellhead Protection Areas

- Feedlots (by primary animal)

●

BIRDS

●

BOVINES

●

HORSES

●

PIGS

■

Water Access Sites

⛏

Active Gravel Pits
- U.S. Highways

—

State Highways

—

County Roads

—

Paul Bunyan State Trail

■

Cities / Townships

■

Mississippi River

—

Streams

—

County Ditches

■

Wetlands (from NWI)
- Trout, Rice, and Cisco Lakes

■

Cisco

■

Cisco and Wild Rice

■

Cisco and Trout

■

Wild Rice

■

Trout

Infested Lakes

■

Milfoil

■

Milfoil, Zebra Mussels

■

Zebra Mussels

■

Milfoil, Zebra Mussels, Spiny Water Flea

Lakes (Classification & Water Quality Status)

■

General Development (GD)

■

Recreational Development (RD)

■

Natural Environment (NE)

■

Natural Environment-Special Shallow (NE-SS)

■

Impaired: Nutrients

■

Improving

■

Declining

■

No Trend

■

No Trend / Declining

■

Multiple Trends

■

Not Assessed

■

State Park

■

State Recreation Area

■

Scientific and Natural Area Boundaries

■

Wildlife Management Areas

■

Conservation Easements

■

Public Land

■

30 Lakes Watershed District

●

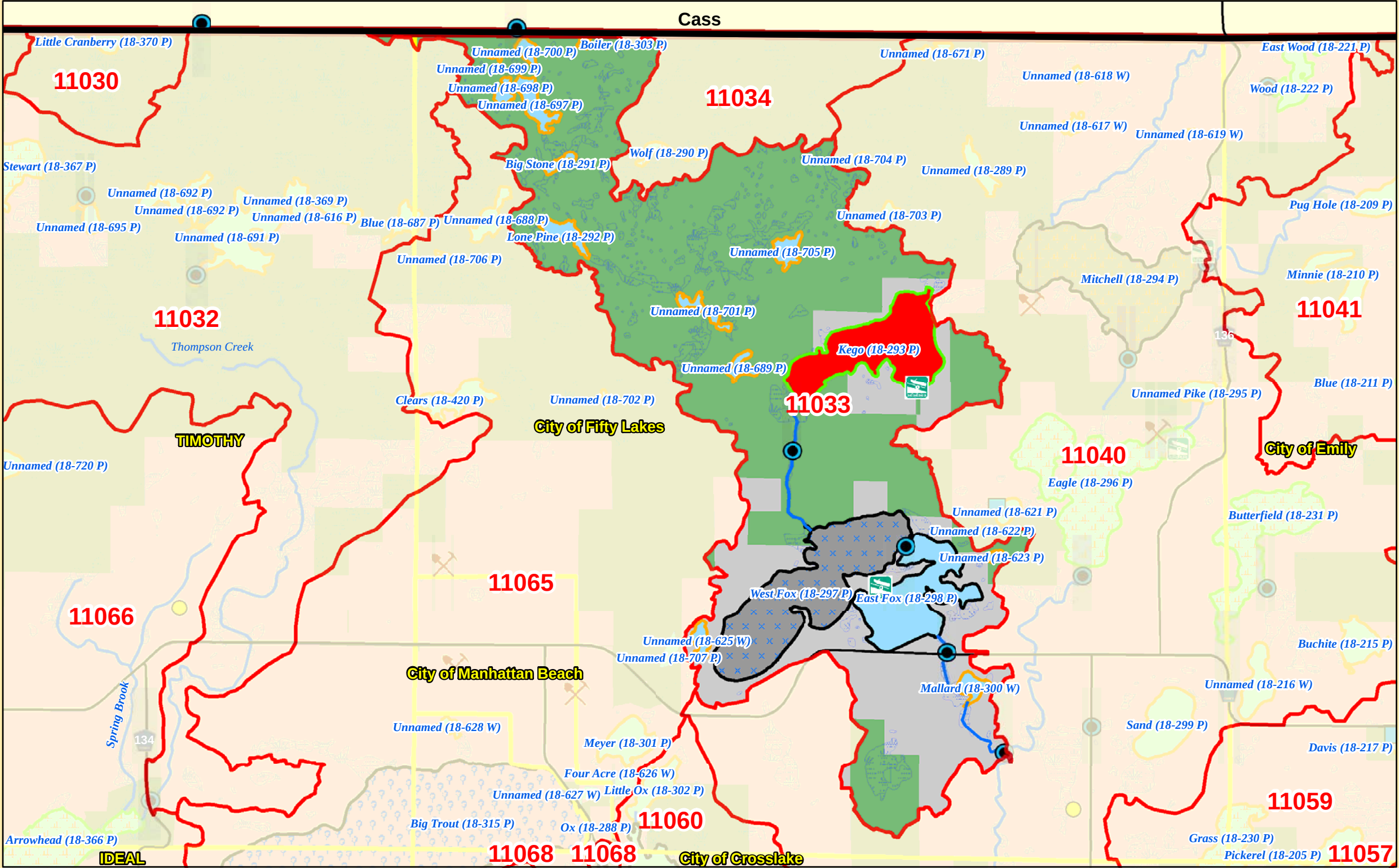
Outlets of watersheds / catchments

■

Major Watersheds

■

Minor Watersheds



Minor Watershed #	11033
Major Watershed Name	Pine River
Area (sq. miles)	10
Population 2010 (persons per sq. mile)	8
Population Change 2000 to 2010 (persons per sq. mile)	-4
Surficial Geology	Glacial Till
% Slope (avg.)	14
% Forested (private)	13
% Disturbed Land Cover	2
% Developed	1
Extractive Uses	Minimal
# of Animal Units	0
Biological Diversity	Partially High
% Public Land	70
% Easements	0
% Lakes	18
% Streams	0
% Wetlands (private)	2
% Protected	88
Assigned Risk Level	Enhance / Protection
Implementation Priorities	
Top 24 Priority Watershed	
Surface Water	
Aquatic Invasive Species	
Stormwater	x
Shoreline Buffers	x
Lake Focus: Recreational Use & Development	x
Lake Focus: Wild Rice / Wildlife	
Lake Focus: Fisheries (Cisco)	x
Rivers / Floodplains	
Agricultural BMPs	
Ecological Sensitive Areas	x
Bluffs & Steep Slopes	x
Public & Private Drainage	
Development (existing and potential)	
Private Forest Stewardship	
Ground Water	
Septic Systems	x
Wellhead Protection	

Ⓜ

Public Waterworks

★

Water Use: Air Conditioning

■

Water Use: Industrial Processing

⊕

Irrigation: Crop

■

Irrigation: Non Crop

⬠

Water Use: Special Categories

■

Wellhead Protection Areas

■

Drinking Water Source Protection Areas

●

BIRDS

●

BOVINES

●

HORSES

●

PIGS

🏠

Water Access Sites

⚡

Active Gravel Pits

—

U.S. Highways

—

State Highways

—

County Roads

—

Paul Bunyan State Trail

■

Cities / Townships

■

Mississippi River

—

Streams

—

County Ditches

■

Wetlands (from NWI)

Ⓜ

Trout, Rice, and Cisco Lakes

Ⓜ

Cisco

Ⓜ

Cisco and Wild Rice

Ⓜ

Cisco and Trout

Ⓜ

Wild Rice

Ⓜ

Trout

Infested Lakes

Ⓜ

Milfoil

Ⓜ

Milfoil, Zebra Mussels

Ⓜ

Zebra Mussels

Ⓜ

Milfoil, Zebra Mussels, Spiny Water Flea

Lakes (Classification & Water Quality Status)

Ⓜ

General Development (GD)

Ⓜ

Recreational Development (RD)

Ⓜ

Natural Environment (NE)

Ⓜ

Natural Environment-Special Shallow (NE-SS)

Ⓜ

Impaired: Nutrients

Ⓜ

Improving

Ⓜ

Declining

Ⓜ

No Trend

Ⓜ

No Trend / Declining

Ⓜ

Multiple Trends

Ⓜ

Not Assessed

State Park

State Recreation Area

Scientific and Natural Area Boundaries

Wildlife Management Areas

Conservation Easements

Public Land

30 Lakes Watershed District

●

Outlets of watersheds / catchments

■

Minor Watersheds

■

Major Watersheds

0

1

2

Miles

N

E

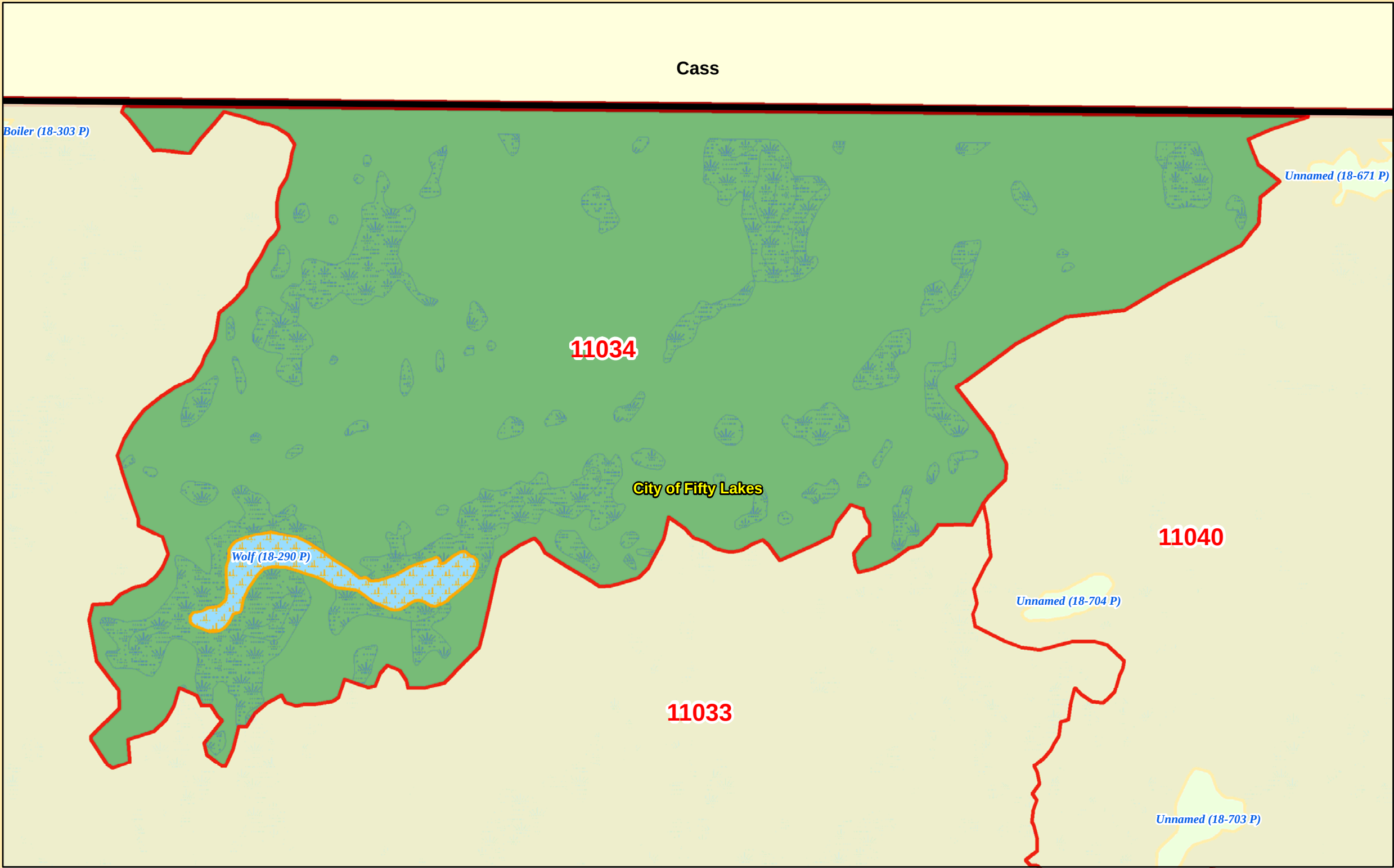
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Land Services

CROW WING COUNTY

BRainerd, Minnesota 56401



Minor Watershed #	11034
Major Watershed Name	Pine River
Area (sq. miles)	2
Population 2010 (persons per sq. mile)	2
Population Change 2000 to 2010 (persons per sq. mile)	0
Surficial Geology	Glacial Till
% Slope (avg.)	8
% Forested (private)	0
% Disturbed Land Cover	1
% Developed	0
Extractive Uses	Minimal
# of Animal Units	0
Biological Diversity	Minimal
% Public Land	100
% Easements	0
% Lakes	2
% Streams	0
% Wetlands (private)	0
% Protected	100
Assigned Risk Level	Vigilance
Implementation Priorities	
Top 24 Priority Watershed	
Surface Water	
Aquatic Invasive Species	
Stormwater	
Shoreline Buffers	
Lake Focus: Recreational Use & Development	
Lake Focus: Wild Rice / Wildlife	
Rivers / Floodplains	
Agricultural BMPs	
Ecological Sensitive Areas	
Bluffs & Steep Slopes	
Public & Private Drainage	
Development (existing and potential)	
Private Forest Stewardship	
Ground Water	
Septic Systems	
Wellhead Protection	

Public Waterworks

Water Use: Air Conditioning

Water Use: Industrial Processing

Irrigation: Crop

Irrigation: Non Crop

Water Use: Special Categories

Drinking Water Source Protection Areas

Wellhead Protection Areas

Feedlots (by primary animal)

BIRDS

BOVINES

HORSES

PIGS

Water Access Sites

Active Gravel Pits

U.S. Highways

State Highways

County Roads

Paul Bunyan State Trail

Cities / Townships

Mississippi River

Streams

County Ditches

Wetlands (from NWI)

Trout, Rice, and Cisco Lakes

Cisco

Cisco and Wild Rice

Cisco and Trout

Wild Rice

Trout

Infested Lakes

Milfoil

Milfoil, Zebra Mussels

Zebra Mussels

Milfoil, Zebra Mussels, Spiny Water Flea

Lakes (Classification & Water Quality Status)

GD

RD

NE

NE-SP

Impaired: Nutrients

Improving

Declining

No Trend

No Trend / Declining

Multiple Trends

Not Assessed

State Park

State Recreation Area

Scientific and Natural Area Boundaries

Wildlife Management Areas

Conservation Easements

Public Land

30 Lakes Watershed District

Outlets of watersheds / catchments

Major Watersheds

Minor Watersheds

0

0.2

0.4

Miles

N

E

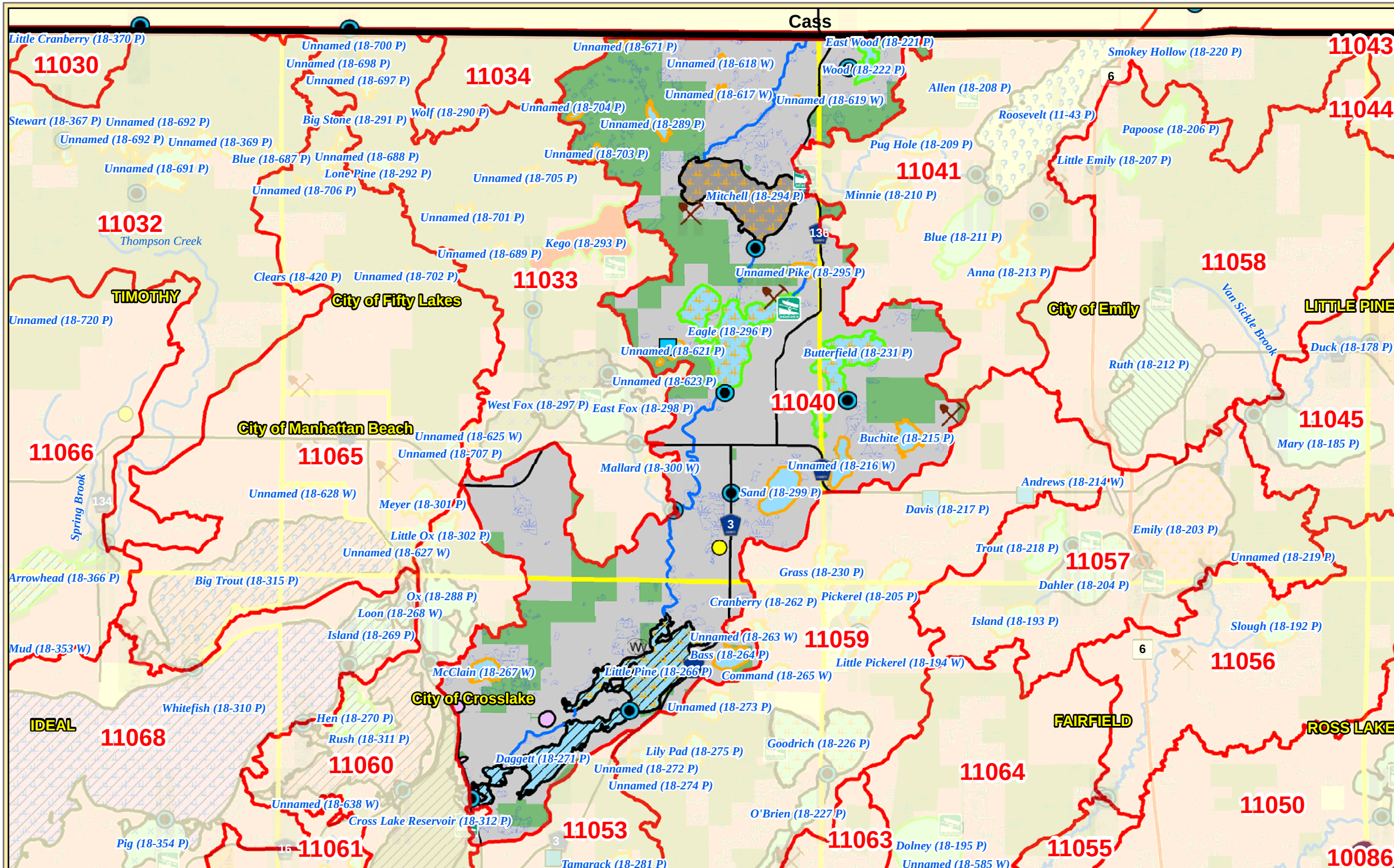
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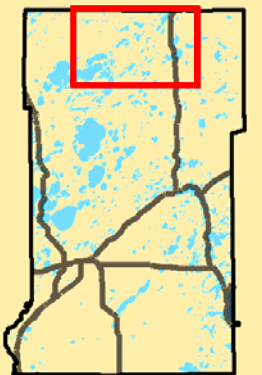
Land Services

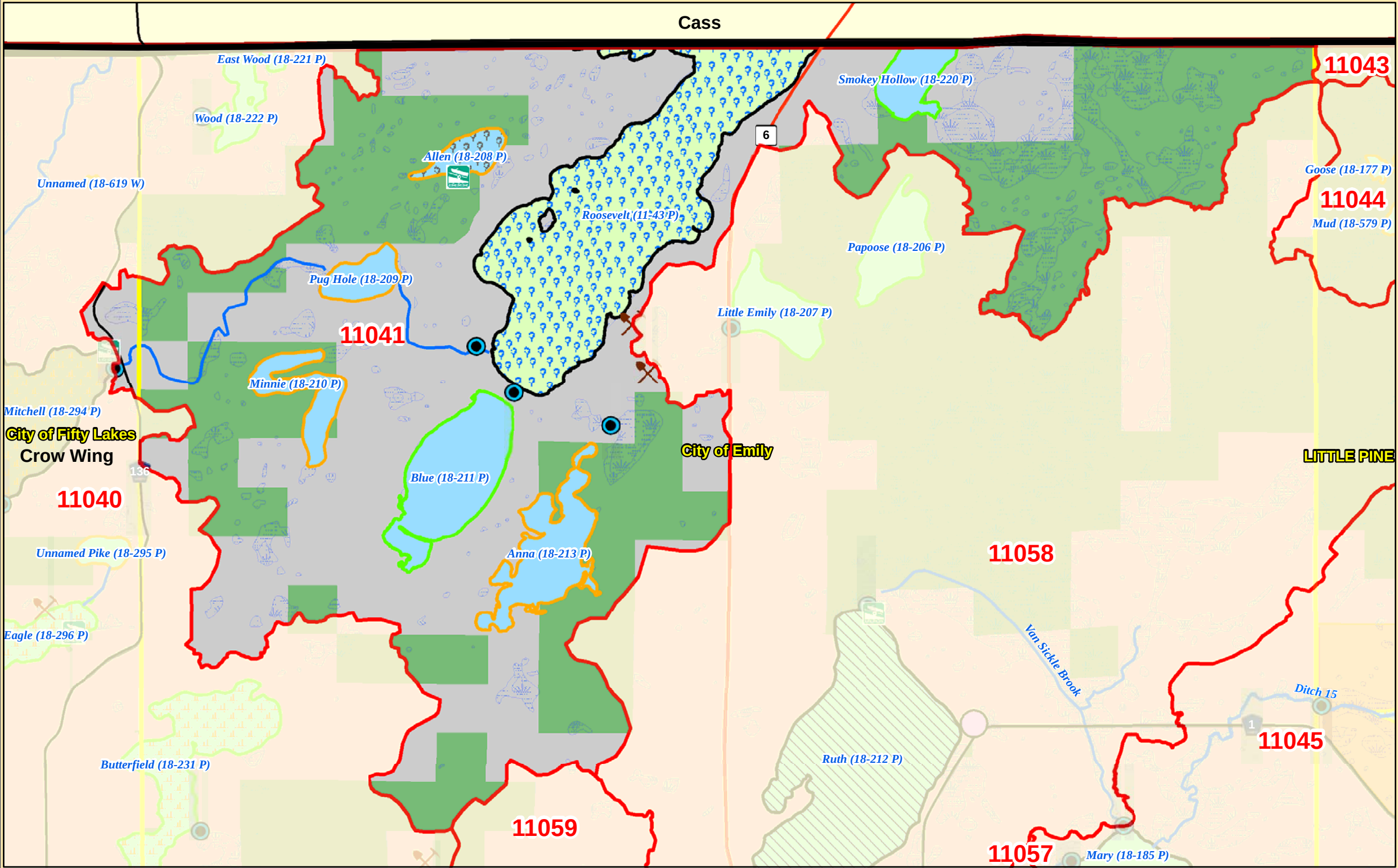
CROW WING COUNTY

BRainerd, Minnesota 56401



Minor Watershed #	11040
Major Watershed Name	Pine River
Area (sq. miles)	23
Population 2010 (persons per sq. mile)	31
Population Change 2000 to 2010 (persons per sq. mile)	0
Surficial Geology	Glacial Till / Outwash (sand & gravel)
% Slope (avg.)	14
% Forested (private)	37
% Disturbed Land Cover	9
% Developed	3
Extractive Uses	Moderate
# of Animal Units	286
Biological Diversity	Partially High
% Public Land	23
% Easements	0
% Lakes	14
% Streams	0
% Wetlands (private)	6
% Protected	43
Assigned Risk Level	Protection
Implementation Priorities	
Top 24 Priority Watershed	x
<i>Surface Water</i>	
Aquatic Invasive Species	x
Stormwater	x
Shoreline Buffers	x
Lake Focus: Recreational Use & Development	x
Lake Focus: Wild Rice / Wildlife	x
Rivers / Floodplains	
Agricultural BMPs	x
Ecological Sensitive Areas	x
Bluffs & Steep Slopes	x
Public & Private Drainage	
Development (existing and potential)	x
Private Forest Stewardship	x
<i>Ground Water</i>	
Septic Systems	x
Wellhead Protection	x





Minor Watershed #	11041
Major Watershed Name	Pine River
Area (sq. miles)	10
Population 2010 (persons per sq. mile)	12
Population Change 2000 to 2010 (persons per sq. mile)	-1
Surficial Geology	Glacial Till / Outwash (sand & gravel)
% Slope (avg.)	15
% Forested (private)	31
% Disturbed Land Cover	4
% Developed	2
Extractive Uses	Moderate
# of Animal Units	0
Biological Diversity	Partially High
% Public Land	41
% Easements	0
% Lakes	20
% Streams	0
% Wetlands (private)	4
% Protected	65
Assigned Risk Level	Vigilance
Implementation Priorities	
Top 24 Priority Watershed	
Surface Water	
Aquatic Invasive Species	
Stormwater	x
Shoreline Buffers	x
Lake Focus: Recreational Use & Development	x
Lake Focus: Wild Rice / Wildlife	
Lake Focus: Fisheries (Trout, Cisco)	x
Rivers / Floodplains	
Agricultural BMPs	
Ecological Sensitive Areas	x
Bluffs & Steep Slopes	x
Public & Private Drainage Development (existing and potential)	
Private Forest Stewardship	
Ground Water	
Septic Systems	x
Wellhead Protection	

Public Waterworks

Water Use: Air Conditioning

Water Use: Industrial Processing

Irrigation: Crop

Irrigation: Non Crop

Water Use: Special Categories

Drinking Water Source Protection Areas

Wellhead Protection Areas

Feedlots (by primary animal)

BIRDS

BOVINES

HORSES

PIGS

Water Access Sites

Active Gravel Pits

U.S. Highways

State Highways

County Roads

Paul Bunyan State Trail

Cities / Townships

Mississippi River

Streams

County Ditches

Wetlands (from NWI)

Trout, Rice, and Cisco Lakes

Cisco

Cisco and Wild Rice

Cisco and Trout

Wild Rice

Trout

Infested Lakes

Milfoil

Milfoil, Zebra Mussels

Zebra Mussels

Milfoil, Zebra Mussels, Spiny Water Flea

Lakes (Classification & Water Quality Status)

General Development (GD)

Recreational Development (RD)

Natural Environment (NE)

Natural Environment-Special Shallow (NE-SS)

Impaired: Nutrients

Improving

Declining

No Trend

No Trend / Declining

Multiple Trends

Not Assessed

State Park

State Recreation Area

Scientific and Natural Area Boundaries

Wildlife Management Areas

Conservation Easements

Public Land

Outlets of watersheds / catchments

Major Watersheds

Minor Watersheds

0

0.5

1

Miles

N

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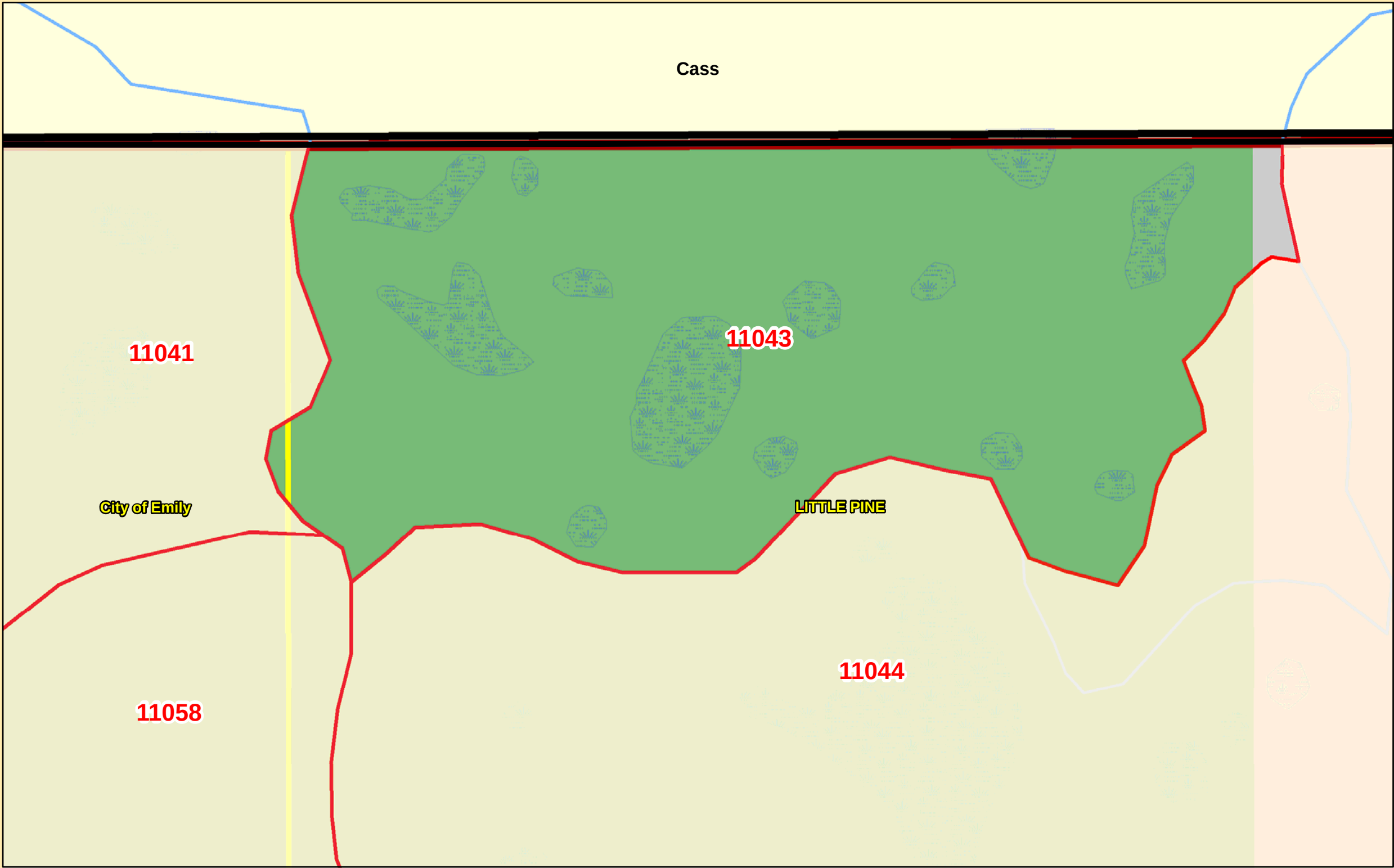
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Environmental Services

CROW WING COUNTY

BRainerd, WInesota 56401



Minor Watershed #	11043
Major Watershed Name	Pine River
Area (sq. miles)	0
Population 2010 (persons per sq. mile)	0
Population Change 2000 to 2010 (persons per sq. mile)	0
Surficial Geology	Glacial Till
% Slope (avg.)	12
% Forested (private)	1
% Disturbed Land Cover	0
% Developed	0
Extractive Uses	Minimal
# of Animal Units	0
Biological Diversity	Minimal
% Public Land	99
% Easements	0
% Lakes	0
% Streams	0
% Wetlands (private)	0
% Protected	99

Assigned Risk Level	Vigilance
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Implementation Priorities	
Top 24 Priority Watershed	
Surface Water	
Aquatic Invasive Species	
Stormwater	x
Shoreline Buffers	
Lake Focus: Recreational Use & Development	
Lake Focus: Wild Rice / Wildlife	
Rivers / Floodplains	
Agricultural BMPs	
Ecological Sensitive Areas	
Bluffs & Steep Slopes	x
Public & Private Drainage	
Development (existing and potential)	
Private Forest Stewardship	
Ground Water	
Septic Systems	
Wellhead Protection	

Public Waterworks

Water Use: Air Conditioning

Water Use: Industrial Processing

Irrigation: Crop

Irrigation: Non Crop

Water Use: Special Categories

Drinking Water Source Protection Areas

Wellhead Protection Areas

Feedlots (by primary animal)

BIRDS

BOVINES

HORSES

PIGS

Water Access Sites

Active Gravel Pits

U.S. Highways

State Highways

County Roads

Paul Bunyan State Trail

Cities / Townships

Mississippi River

Streams

County Ditches

Wetlands (from NWI)

Trout, Rice, and Cisco Lakes

Cisco

Cisco and Wild Rice

Cisco and Trout

Wild Rice

Trout

Infested Lakes

Milfoil

Milfoil, Zebra Mussels

Zebra Mussels

Milfoil, Zebra Mussels, Spiny Water Flea

Lakes (Classification & Water Quality Status)

GD

RD

NE

NE-SP

Impaired: Nutrients

Improving

Declining

No Trend

No Trend / Declining

Multiple Trends

Not Assessed

State Park

State Recreation Area

Scientific and Natural Area Boundaries

Wildlife Management Areas

Conservation Easements

Public Land

Outlets of watersheds / catchments

Major Watersheds

Minor Watersheds

00.050.1Miles

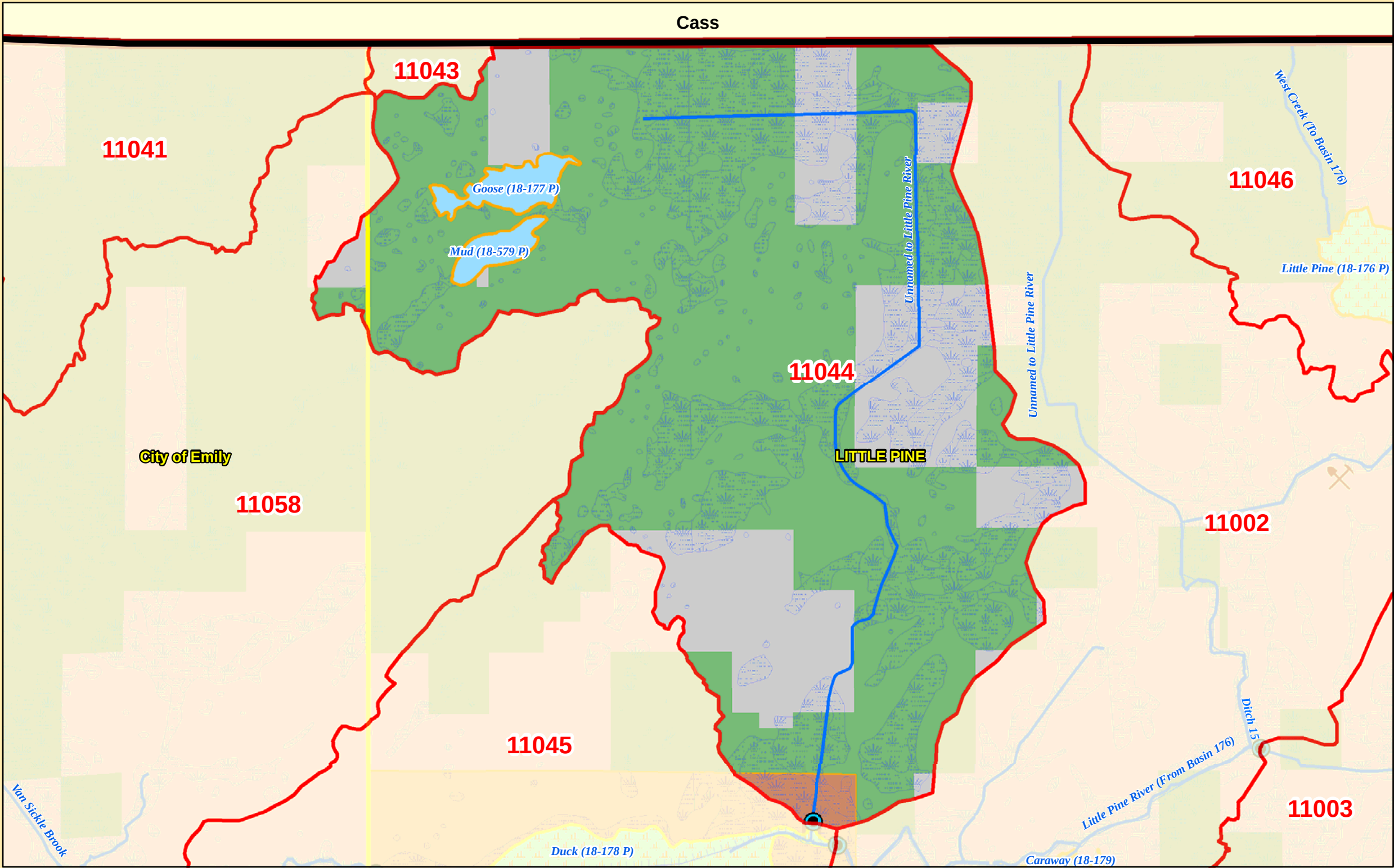
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Minor Watershed #	11044
Major Watershed Name	Pine River
Area (sq. miles)	6
Population 2010 (persons per sq. mile)	0
Population Change 2000 to 2010 (persons per sq. mile)	0
Surficial Geology	Glacial Till
% Slope (avg.)	6
% Forested (private)	9
% Disturbed Land Cover	1
% Developed	0
Extractive Uses	Minimal
# of Animal Units	0
Biological Diversity	High
% Public Land	78
% Easements	0
% Lakes	2
% Streams	0
% Wetlands (private)	10
% Protected	90
Assigned Risk Level	Vigilance

Implementation Priorities	
Top 24 Priority Watershed	
Surface Water	
Aquatic Invasive Species	
Stormwater	
Shoreline Buffers	
Lake Focus: Recreational Use & Development	
Lake Focus: Wild Rice / Wildlife	
Rivers / Floodplains	
Agricultural BMPs	
Ecological Sensitive Areas	x
Bluffs & Steep Slopes	
Public & Private Drainage	
Development (existing and potential)	
Private Forest Stewardship	
Ground Water	
Septic Systems	
Wellhead Protection	

Public Waterworks

Water Use: Air Conditioning

Water Use: Industrial Processing

Irrigation: Crop

Irrigation: Non Crop

Water Use: Special Categories

Drinking Water Source Protection Areas

Wellhead Protection Areas

Feedlots (by primary animal)

BIRDS

BOVINES

HORSES

PIGS

Water Access Sites

Active Gravel Pits

U.S. Highways

State Highways

County Roads

Paul Bunyan State Trail

Cities / Townships

Mississippi River

Streams

County Ditches

Wetlands (from NWI)

Trout, Rice, and Cisco Lakes

Cisco

Cisco and Wild Rice

Cisco and Trout

Wild Rice

Trout

Infested Lakes

Milfoil

Milfoil, Zebra Mussels

Zebra Mussels

Milfoil, Zebra Mussels, Spiny Water Flea

Lakes (Classification & Water Quality Status)

General Development (GD)

Recreational Development (RD)

Natural Environment (NE)

Natural Environment-Special Shallow (NE-SS)

Impaired: Nutrients

Improving

Declining

No Trend

No Trend / Declining

Multiple Trends

Not Assessed

State Park

State Recreation Area

Scientific and Natural Area Boundaries

Wildlife Management Areas

Conservation Easements

Public Land

30 Lakes Watershed District

Outlets of watersheds / catchments

Major Watersheds

Minor Watersheds

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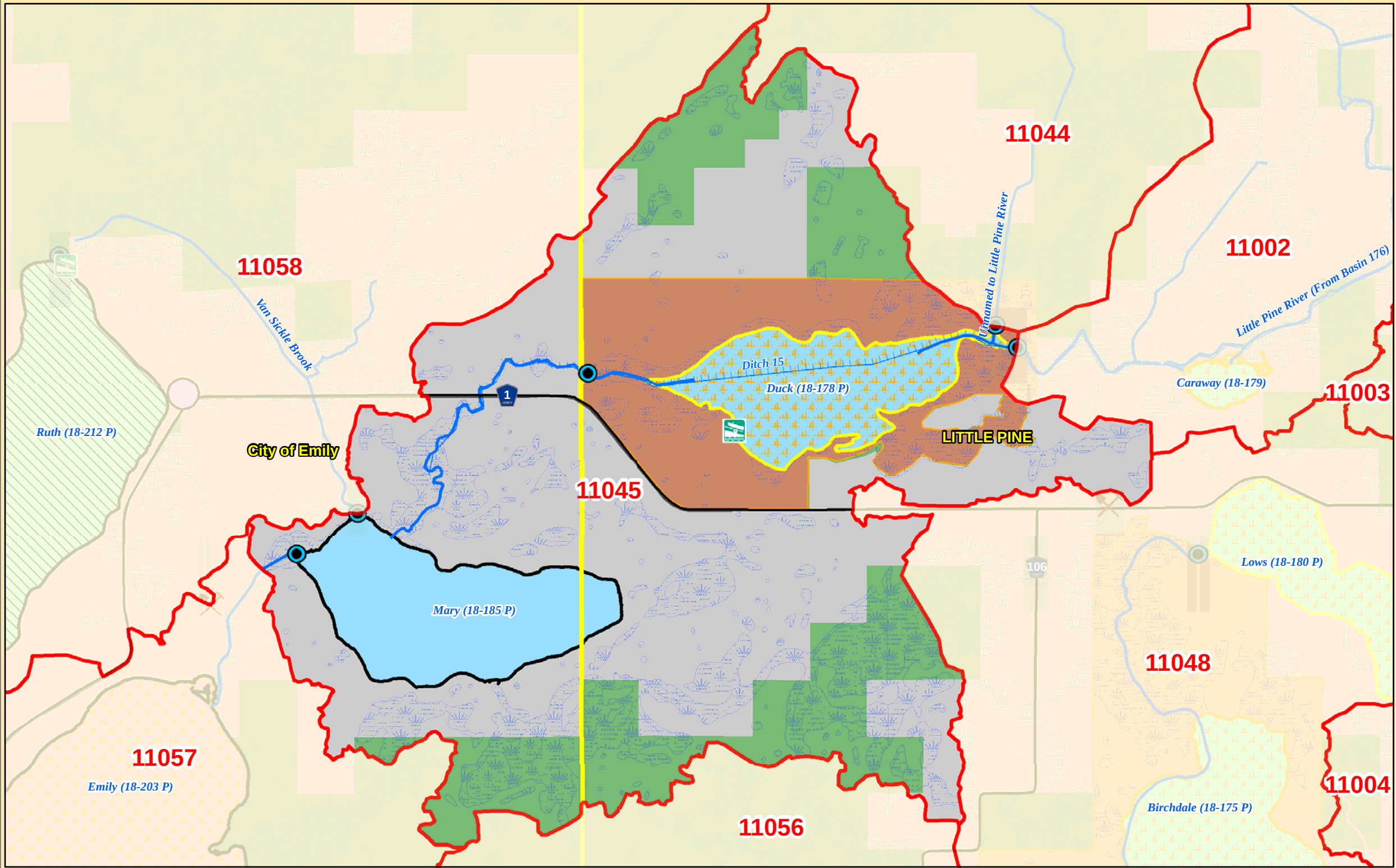
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Land Services

CROW WING COUNTY

BRainerd, Winnesota 56401



Minor Watershed #	11045
Major Watershed Name	Pine River
Area (sq. miles)	7
Population 2010 (persons per sq. mile)	11
Population Change 2000 to 2010 (persons per sq. mile)	2
Surficial Geology	Glacial Till
% Slope (avg.)	8
% Forested (private)	31
% Disturbed Land Cover	3
% Developed	2
Extractive Uses	Minimal
# of Animal Units	0
Biological Diversity	High
% Public Land	43
% Easements	0
% Lakes	15
% Streams	0
% Wetlands (private)	11
% Protected	69
Assigned Risk Level	Vigilance

Implementation Priorities	
Top 24 Priority Watershed	
Surface Water	
Aquatic Invasive Species	
Stormwater	x
Shoreline Buffers	x
Lake Focus: Recreational Use & Development	x
Lake Focus: Wild Rice / Wildlife	x
Rivers / Floodplains	
Agricultural BMPs	
Ecological Sensitive Areas	x
Bluffs & Steep Slopes	
Public & Private Drainage	
Development (existing and potential)	
Private Forest Stewardship	
Ground Water	
Septic Systems	
Wellhead Protection	

- Ⓢ

Public Waterworks
- ★

Water Use: Air Conditioning
- Water Use: Industrial Processing
- ⊕

Irrigation: Crop
- Irrigation: Non Crop
- ⬠

Water Use: Special Categories
- Drinking Water Source Protection Areas
- Wellhead Protection Areas

- Feedlots (by primary animal)
- BIRDS
- BOVINES
- HORSES
- PIGS
- 🚰

Water Access Sites
- ⛏

Active Gravel Pits

- U.S. Highways
- State Highways
- County Roads
- Paul Bunyan State Trail
- Cities / Townships
- Mississippi River
- Streams
- County Ditches
- Wetlands (from NWI)

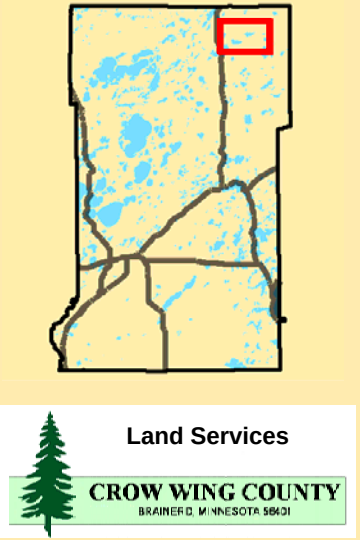
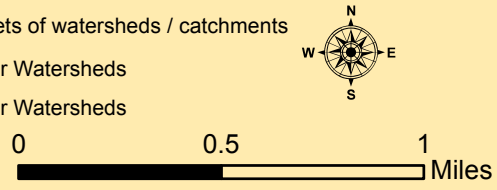
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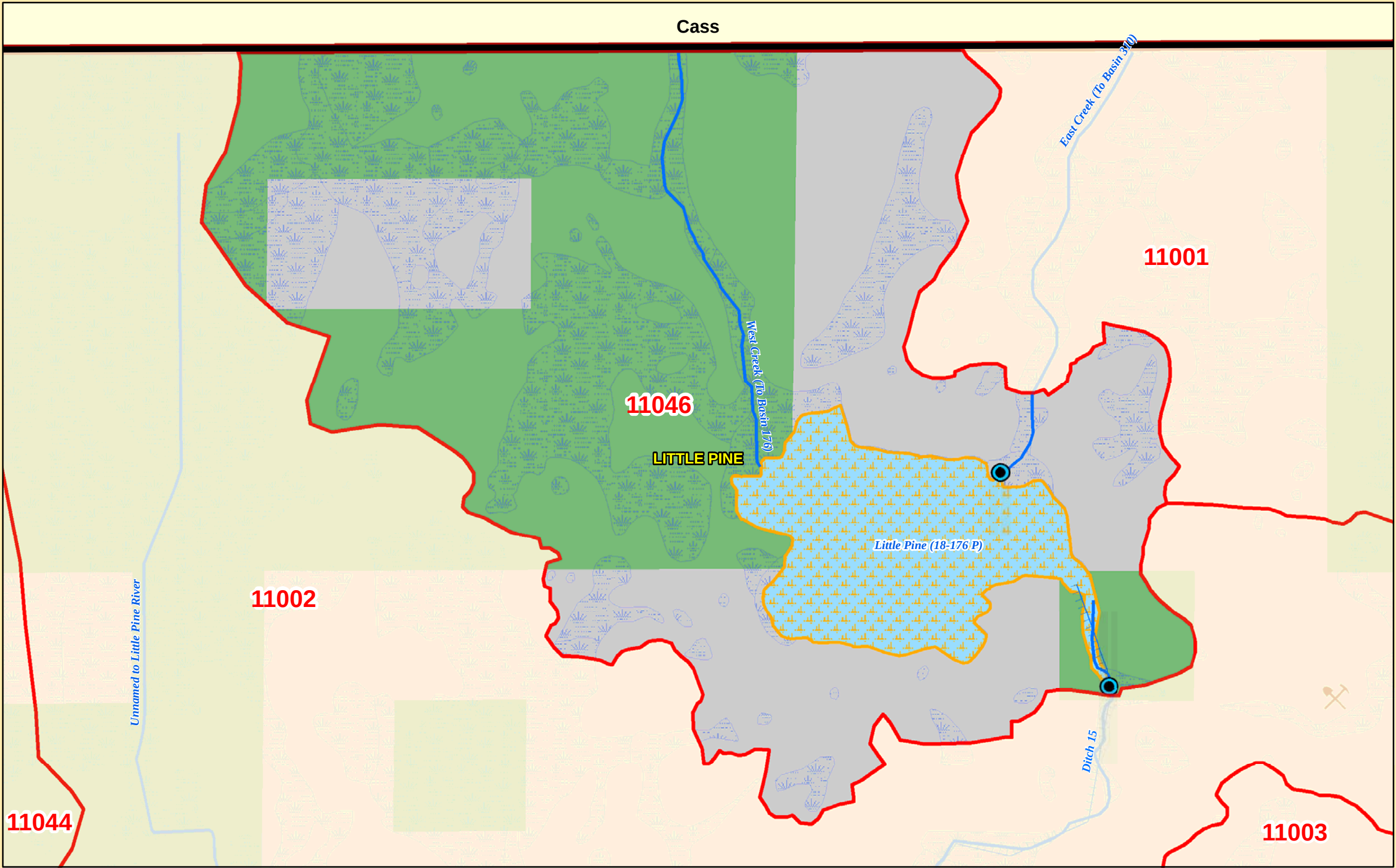
Trout, Rice, and Cisco Lakes
- Cisco
- Cisco and Wild Rice
- Cisco and Trout
- Wild Rice
- Trout
- Infested Lakes
- Milfoil
- Milfoil, Zebra Mussels
- Zebra Mussels
- Milfoil, Zebra Mussels, Spiny Water Flea

- Lakes (Classification & Water Quality Status)
- General Development (GD)
- Recreational Development (RD)
- Natural Environment (NE)
- Natural Environment-Special Shallow (NE-SS)
- Impaired: Nutrients
- Improving
- Declining
- No Trend
- No Trend / Declining
- Multiple Trends
- Not Assessed

- State Park
- State Recreation Area
- Scientific and Natural Area Boundaries
- Wildlife Management Areas
- Conservation Easements
- Public Land
- 30 Lakes Watershed District
- ⊕

Outlets of watersheds / catchments
- Major Watersheds
- Minor Watersheds





Minor Watershed #	11046
Major Watershed Name	Pine River
Area (sq. miles)	2
Population 2010 (persons per sq. mile)	1
Population Change 2000 to 2010 (persons per sq. mile)	1
Surficial Geology	Glacial Till
% Slope (avg.)	7
% Forested (private)	21
% Disturbed Land Cover	2
% Developed	1
Extractive Uses	Minimal
# of Animal Units	0
Biological Diversity	High
% Public Land	32
% Easements	0
% Lakes	12
% Streams	0
% Wetlands (private)	11
% Protected	55
Assigned Risk Level	Vigilance
Implementation Priorities	
Top 24 Priority Watershed	
Surface Water	
Aquatic Invasive Species	
Stormwater	x
Shoreline Buffers	x
Lake Focus: Recreational Use & Development	x
Lake Focus: Wild Rice / Wildlife	x
Rivers / Floodplains	
Agricultural BMPs	
Ecological Sensitive Areas	x
Bluffs & Steep Slopes	
Public & Private Drainage	
Development (existing and potential)	
Private Forest Stewardship	
Ground Water	
Septic Systems	
Wellhead Protection	

- Ⓜ

Public Waterworks
- ★

Water Use: Air Conditioning
- Water Use: Industrial Processing
- ⊕

Irrigation: Crop
- Irrigation: Non Crop
- ⬠

Water Use: Special Categories
- Drinking Water Source Protection Areas
- Wellhead Protection Areas
- BIRDS
- BOVINES
- HORSES
- PIGS
- 🚰

Water Access Sites
- ⛏

Active Gravel Pits

- U.S. Highways
- State Highways
- County Roads
- Paul Bunyan State Trail
- Cities / Townships
- Mississippi River
- Streams
- County Ditches
- Wetlands (from NWI)

- 🐟

Trout, Rice, and Cisco Lakes
- 🐟

Cisco
- 🐟

Cisco and Wild Rice
- 🐟

Cisco and Trout
- 🐟

Wild Rice
- 🐟

Trout
- 🐟

Infested Lakes
- 🐟

Milfoil
- 🐟

Milfoil, Zebra Mussels
- 🐟

Zebra Mussels
- 🐟

Milfoil, Zebra Mussels, Spiny Water Flea

- 🌊

Lakes (Classification & Water Quality Status)
- 🌊

General Development (GD)
- 🌊

Recreational Development (RD)
- 🌊

Natural Environment (NE)
- 🌊

Natural Environment-Special Shallow (NE-SS)
- 🌊

Impaired: Nutrients
- 🌊

Improving
- 🌊

Declining
- 🌊

No Trend
- 🌊

No Trend / Declining
- 🌊

Multiple Trends
- 🌊

Not Assessed

- 🌳

State Park
- 🌳

State Recreation Area
- 🌳

Scientific and Natural Area Boundaries
- 🌳

Wildlife Management Areas
- 🌳

Conservation Easements
- 🌳

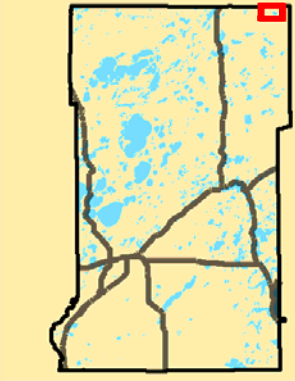
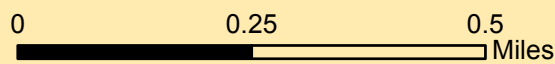
Public Land
- 🌳

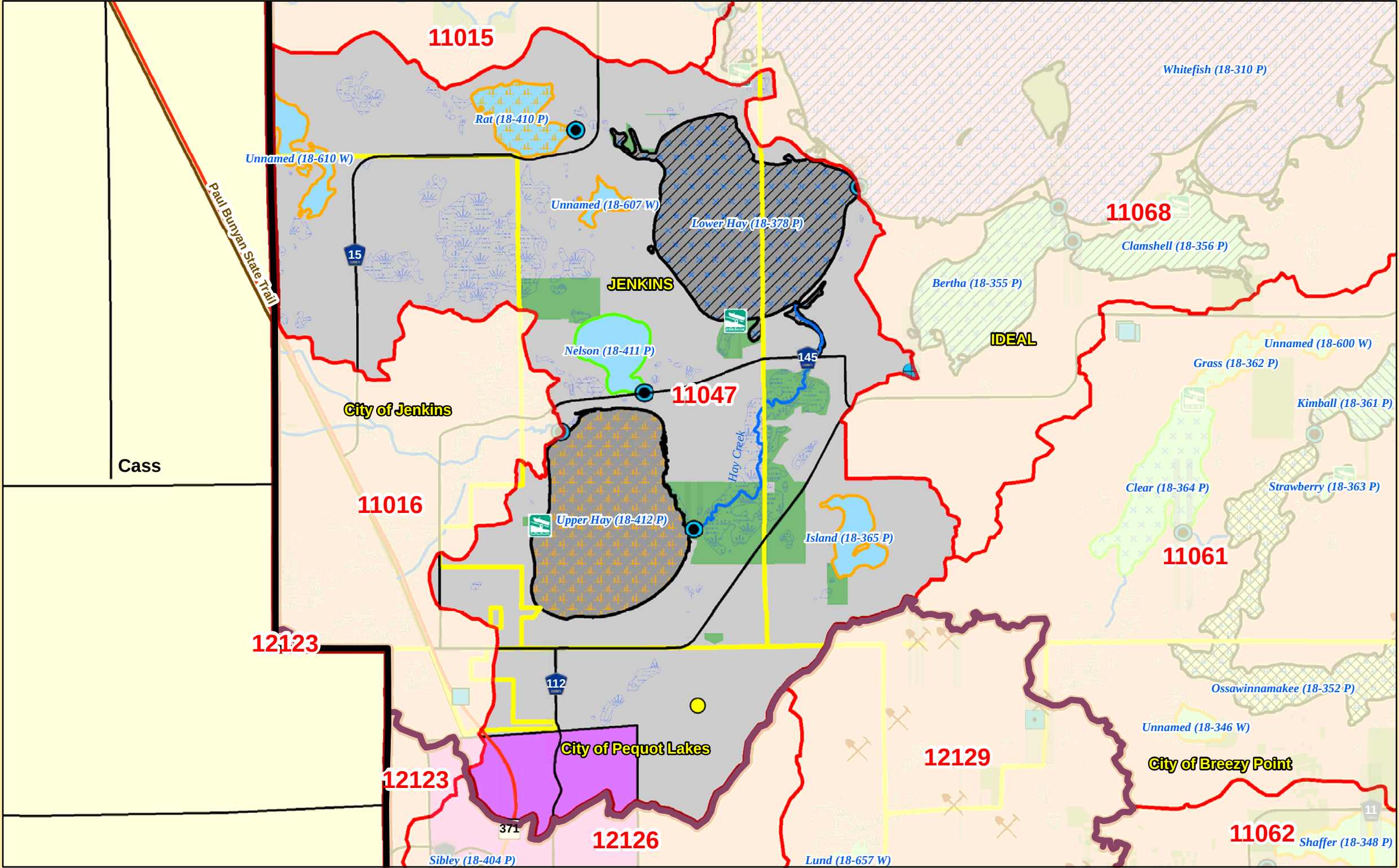
30 Lakes Watershed District
- 🌳

Outlets of watersheds / catchments
- 🌳

Major Watersheds
- 🌳

Minor Watersheds





Minor Watershed #	11047
Major Watershed Name	Pine River
Area (sq. miles)	12
Population 2010 (persons per sq. mile)	43
Population Change 2000 to 2010 (persons per sq. mile)	4
Surficial Geology	Outwash (sand & gravel)
% Slope (avg.)	9
% Forested (private)	27
% Disturbed Land Cover	16
% Developed	2
Extractive Uses	Minimal
# of Animal Units	36
Biological Diversity	Minimal
% Public Land	6
% Easements	0
% Lakes	22
% Streams	0
% Wetlands (private)	6
% Protected	34
Assigned Risk Level	Protection
Implementation Priorities	
Top 24 Priority Watershed	
Surface Water	
Aquatic Invasive Species	x
Stormwater	x
Shoreline Buffers	x
Lake Focus: Recreational Use & Development	x
Lake Focus: Wild Rice / Wildlife	x
Lake Focus: Fisheries (Cisco)	x
Rivers / Floodplains	
Agricultural BMPs	
Ecological Sensitive Areas	
Bluffs & Steep Slopes	
Public & Private Drainage	
Development (existing and potential)	x
Private Forest Stewardship	
Ground Water	
Septic Systems	x
Wellhead Protection	x

- Ⓜ

Public Waterworks
- ★

Water Use: Air Conditioning
- Water Use: Industrial Processing
- ⊕

Irrigation: Crop
- Irrigation: Non Crop
- ⬠

Water Use: Special Categories
- Wellhead Protection Areas
- Drinking Water Source Protection Areas

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BIRDS

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BOVINES

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HORSES

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PIGS

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Water Access Sites

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Active Gravel Pits

- U.S. Highways
- State Highways
- County Roads
- Paul Bunyan State Trail
- Cities / Townships
- Mississippi River
- Streams
- County Ditches
- Wetlands (from NWI)

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Feedlots (by primary animal)

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BIRDS

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BOVINES

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HORSES

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PIGS

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Water Access Sites

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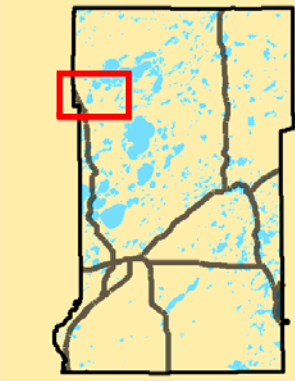
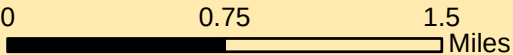
Active Gravel Pits

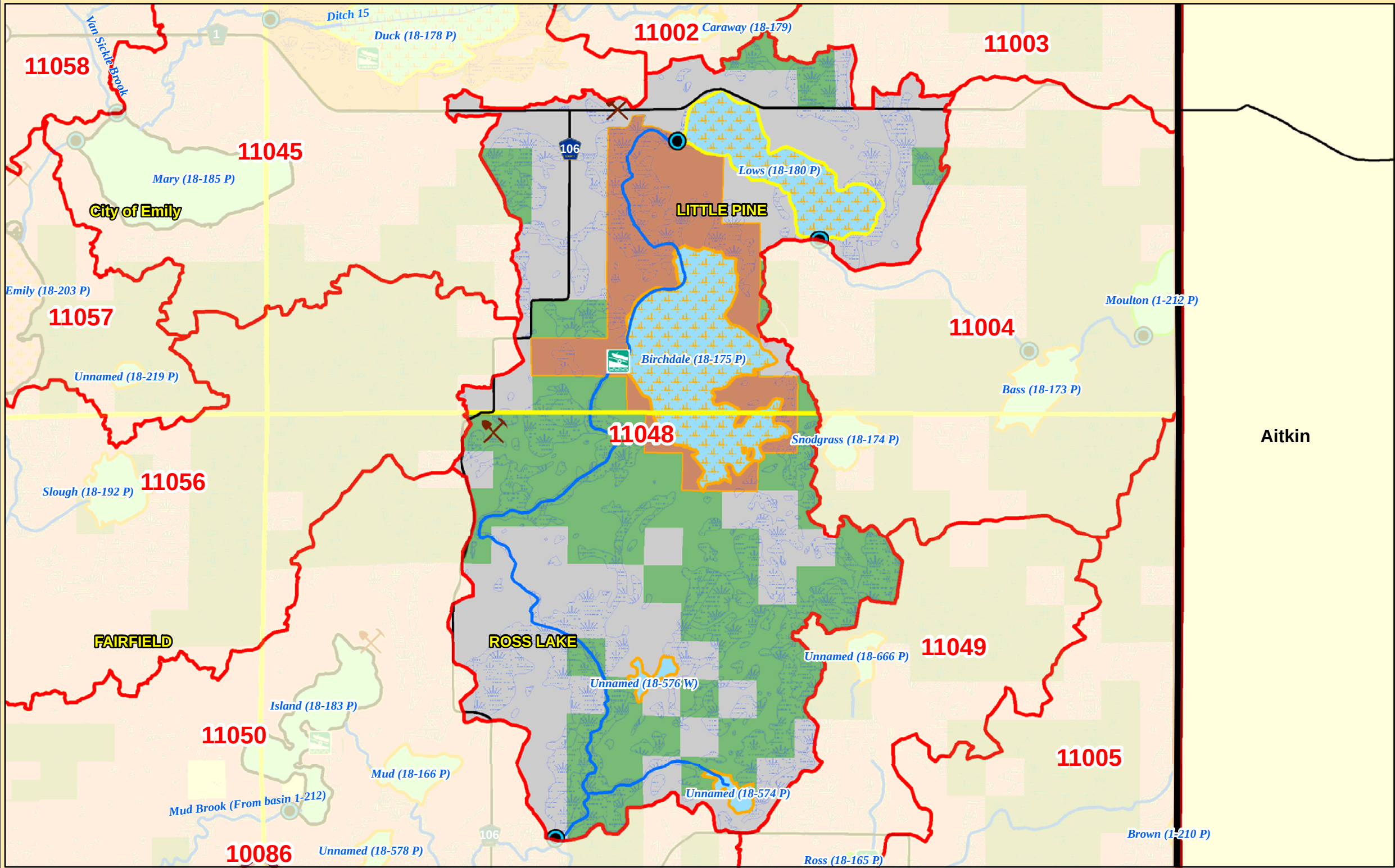
- Trout, Rice, and Cisco Lakes
- Cisco
- Cisco and Wild Rice
- Cisco and Trout
- Wild Rice
- Trout
- Infested Lakes
- Milfoil
- Milfoil, Zebra Mussels
- Zebra Mussels
- Milfoil, Zebra Mussels, Spiny Water Flea

- Lakes (Classification & Water Quality Status)
- General Development (GD)
- Recreational Development (RD)
- Natural Environment (NE)
- Natural Environment-Special Shallow (NE-SS)
- Impaired: Nutrients
- Improving
- No Trend
- No Trend / Declining
- Multiple Trends
- Not Assessed

- State Park
- State Recreation Area
- Scientific and Natural Area Boundaries
- Wildlife Management Areas
- Conservation Easements
- Public Land
- 30 Lakes Watershed District
- ⊕

Outlets of watersheds / catchments
- Minor Watersheds
- Major Watersheds





Minor Watershed #	11048
Major Watershed Name	Pine River
Area (sq. miles)	11
Population 2010 (persons per sq. mile)	3
Population Change 2000 to 2010 (persons per sq. mile)	1
Surficial Geology	Glacial Till
% Slope (avg.)	6
% Forested (private)	15
% Disturbed Land Cover	5
% Developed	3
Extractive Uses	Moderate
# of Animal Units	0
Biological Diversity	High
% Public Land	51
% Easements	0
% Lakes	13
% Streams	0
% Wetlands (private)	13
% Protected	78
Assigned Risk Level	Vigilance
Implementation Priorities	
Top 24 Priority Watershed	
Surface Water	
Aquatic Invasive Species	
Stormwater	x
Shoreline Buffers	x
Lake Focus: Recreational Use & Development	x
Lake Focus: Wild Rice / Wildlife	x
Rivers / Floodplains	
Agricultural BMPs	
Ecological Sensitive Areas	x
Bluffs & Steep Slopes	
Public & Private Drainage	
Development (existing and potential)	
Private Forest Stewardship	
Ground Water	
Septic Systems	x
Wellhead Protection	

- Ⓜ

Public Waterworks
- ★

Water Use: Air Conditioning
- Water Use: Industrial Processing
- ⊕

Irrigation: Crop
- Irrigation: Non Crop
- ⬠

Water Use: Special Categories
- Drinking Water Source Protection Areas
- Wellhead Protection Areas

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Feedlots (by primary animal)

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BIRDS

●

BOVINES

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HORSES

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PIGS

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Water Access Sites

⛏

Active Gravel Pits

- U.S. Highways
- State Highways
- County Roads
- Paul Bunyan State Trail
- Cities / Townships
- Mississippi River
- Streams
- County Ditches
- Wetlands (from NWI)

- Trout, Rice, and Cisco Lakes
- Cisco
- Cisco and Wild Rice
- Cisco and Trout
- Wild Rice
- Trout
- Infested Lakes
- Milfoil
- Milfoil, Zebra Mussels
- Zebra Mussels
- Milfoil, Zebra Mussels, Spiny Water Flea

- Lakes (Classification & Water Quality Status)
- General Development (GD)
- Recreational Development (RD)
- Natural Environment (NE)
- Natural Environment-Special Shallow (NE-SS)
- Impaired: Nutrients
- Improving
- Declining
- No Trend
- No Trend / Declining
- Multiple Trends
- Not Assessed

- State Park
- State Recreation Area
- Scientific and Natural Area Boundaries
- Wildlife Management Areas
- Conservation Easements
- Public Land
- 30 Lakes Watershed District
- Outlets of watersheds / catchments
- Major Watersheds
- Minor Watersheds

