



# Compartment Review Presentation

Crystal Falls Forest Management Unit

Compartment 12195

Entry Year 2026

Acreage: 371

County Iron

Management Area: Brule River

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**Stand Examiner:** Tyler Ritchie

**Legal Description:**

T42N,R34W S 18; T42N,R35W S 9,12;T42N,R36W S 8,11;T43N,R34W S 7,35; T43N,R35W S 13;T43N,R36W S 1,24

**Identified Planning Goals:**

The planning goals are varied in this compartment. Several stands are boat access sites for public access into otherwise limited lakes. Several parcels have undivided interest which makes management difficult. Several of these undivided parcels could be used to trade or sell as long as they don't remove access opportunity for the public. There is currently little timber management opportunity, all stands that can be managed for timber have been and are currently not silviculturally ready for another harvest.

**Soil and topography:**

The soils are Iron Ssurgo soils and the topography is varied but more flat and slightly rolling.

**Ownership Patterns, Development, and Land Use in and Around the Compartment:**

There is vast ownership differences here because of the large area that these parcels are scattered in. Some pieces are adjoined with Forest Service land, some are undivided interest, some are along rail or snowmobile trails. Some are mixed with private land. Some offer lake frontage and a boat landing.

**Unique Natural Features:**

No Unique Natural Features known.

**Archeological, Historical, and Cultural Features:**

No Archeological, Historical, or Cultural Features known.

**Special Management Designations or Considerations:**

**Watershed and Fisheries Considerations:**

Snipe Lake access site, a primitive access through undivided interest to Sunset Lake. A primitive southern access to Brule Lake and a somewhat primitive access to Bass Lake near Hagerman. The parcel on the North side of Wagner lake allows for primitive access as well.

**Wildlife Habitat Considerations:**

This compartment is a combination of parcels in west Iron County. Many of these are waterfront parcels and provide valuable wildlife habitat and public access. Special care should be taken to protect and enhance their diversity. Some parcels fall within a deer wintering complex.

**Mineral Resource and Development Concerns and/or Restrictions**

Surface sediments consist of coarse-textured till and minor glacial outwash sand and gravel and postglacial alluvium. There is insufficient data to determine the glacial drift thickness. The Precambrian Quinnesec Formation, Badwater Greenstone and Randville Dolomite subcrop below the glacial drift. The Randville could be used for dimension stone. Abandoned iron mines of Iron River are located four miles to the north. Part of this area has been previously leased for metallic exploration and there may be potential. Gravel pits are located nearby and there should be potential. There is no economic oil and gas production in the UP.

**Vehicle Access:**

As these parcels are located around west Iron county, most are accessible with a vehicle. Some are accessible by snowmobile trail

**Survey Needs:**

If management is done, some survey work has been done and some will need to be because of the scattered nature of the parcels.

**Recreational Facilities and Opportunities:**

Snowmobile trails are part of some of these parcels, and Snipe lake has a boat landing. There is an undivided interest parcel that accesses Sunset Lake on the west side. There is also an undivided interest parcel that access the south side of Brule Lake. There is also access through the woods to Bass Lake in west Iron County and the north side of Wagner Lake has access through the woods via the snowmobile trail.

**Fire Protection:**

As mentioned above, there is access to these parcels for fire protection.

**Additional Compartment Information:**

**The following reports from the Inventory are attached:**

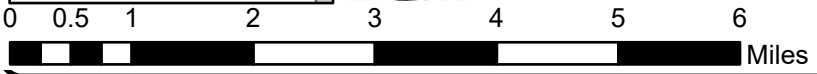
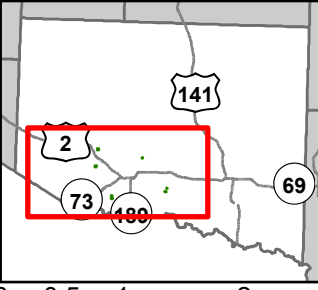
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

**The following information is displayed, where pertinent, on the attached compartment maps:**

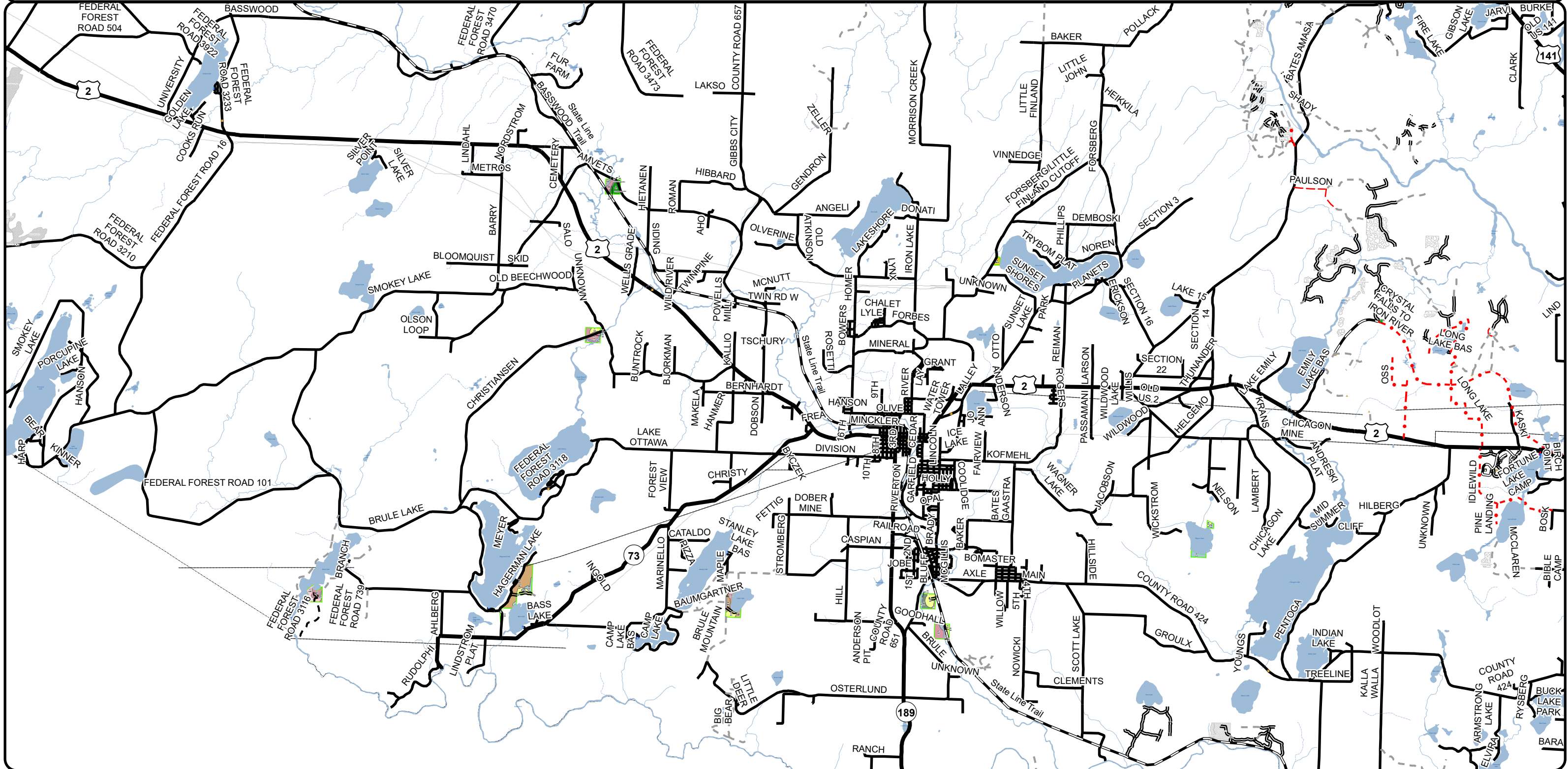
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

Cover Type & Treatments Map

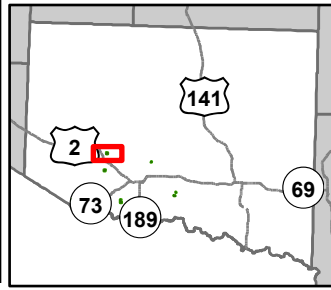
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 County: Iron  
 Unit: Crystal Falls  
 Mgmt Area: Brule River  
 YOE: 2026  
 Acres: 370.5 GIS Calculated  
 Examiner: Tyler Ritchie  
 Map Revised: 04/15/2024  
 Map Phase: Web Post



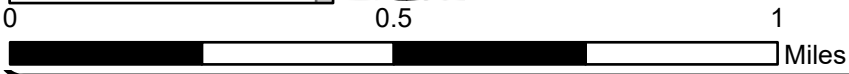
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|---------------------|---------------------------------------|------------------------------|---------------------------------|----------------------------|
| Gas Station         | Parking Lot                           | Private - Dirt / Gravel Road | Compartment Boundary            | 613 - Lowland Mixed Forest |
| House               | DNR - Primary Forest Road             | Intermittent Stream          | Counties                        | 122 - Roads/Parking Lot    |
| Toilet              | DNR - Secondary Forest Road           | Island in Lake or River      | Regeneration Survey             | 500 - Water                |
| Airport             | DNR - Forest Access Route             | Lake/Pond                    | 411 - Northern Hardwood         | 622 - Lowland Shrub        |
| Berms               | Federal / State Highway               | Perennial River              | 413 - Aspen Types               | 623 - Emergent Wetland     |
| Gate                | Federal / State / County - Paved Road | Swamp                        | 419 - Mixed Upland Deciduous    | 710 - Sand/Soil            |
| Boating Access Site | Federal / State - Dirt / Gravel Road  | Lakes and Rivers             | 422 - Natural Pines             |                            |
| Campground          | County - Gravel Road                  | Pipeline                     | 423 - Other Upland Conifers     |                            |
| City                | County - Dirt Road (Seasonal)         | Powerline                    | 612 - Lowland Coniferous Forest |                            |



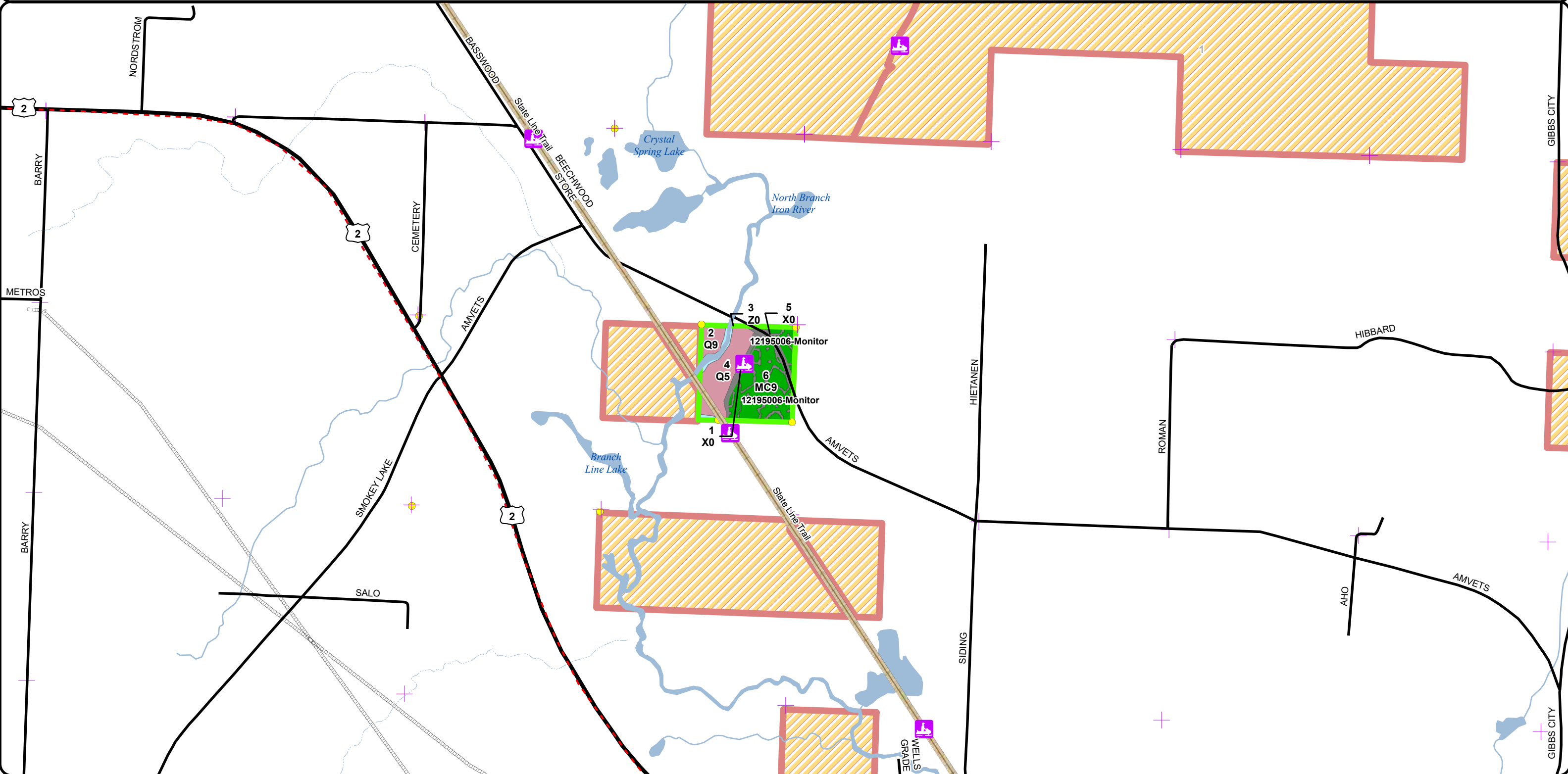
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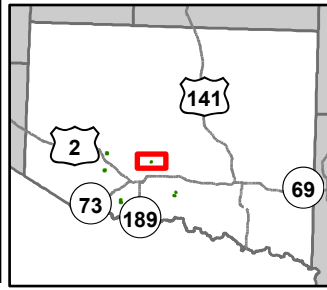
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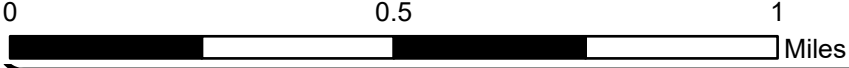
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- ORV Routes
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- - - Designated Bicycle Trails
- = = = Designated ORV Routes
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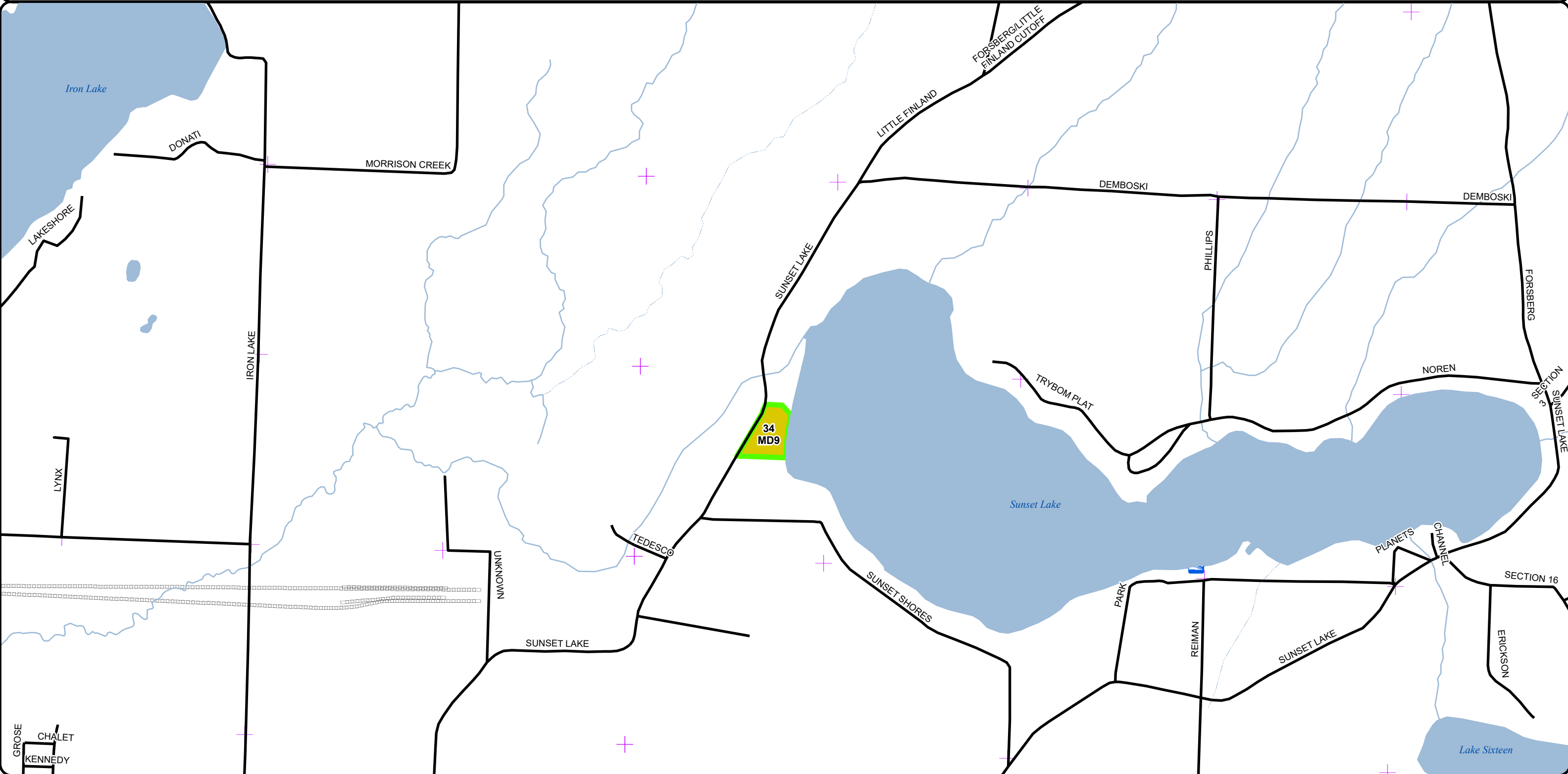
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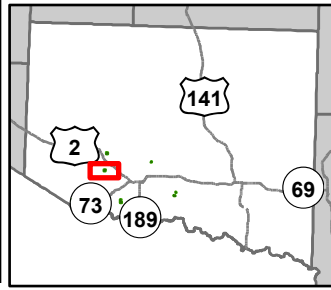


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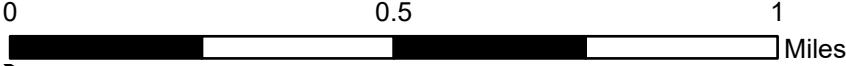


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KENNEDY

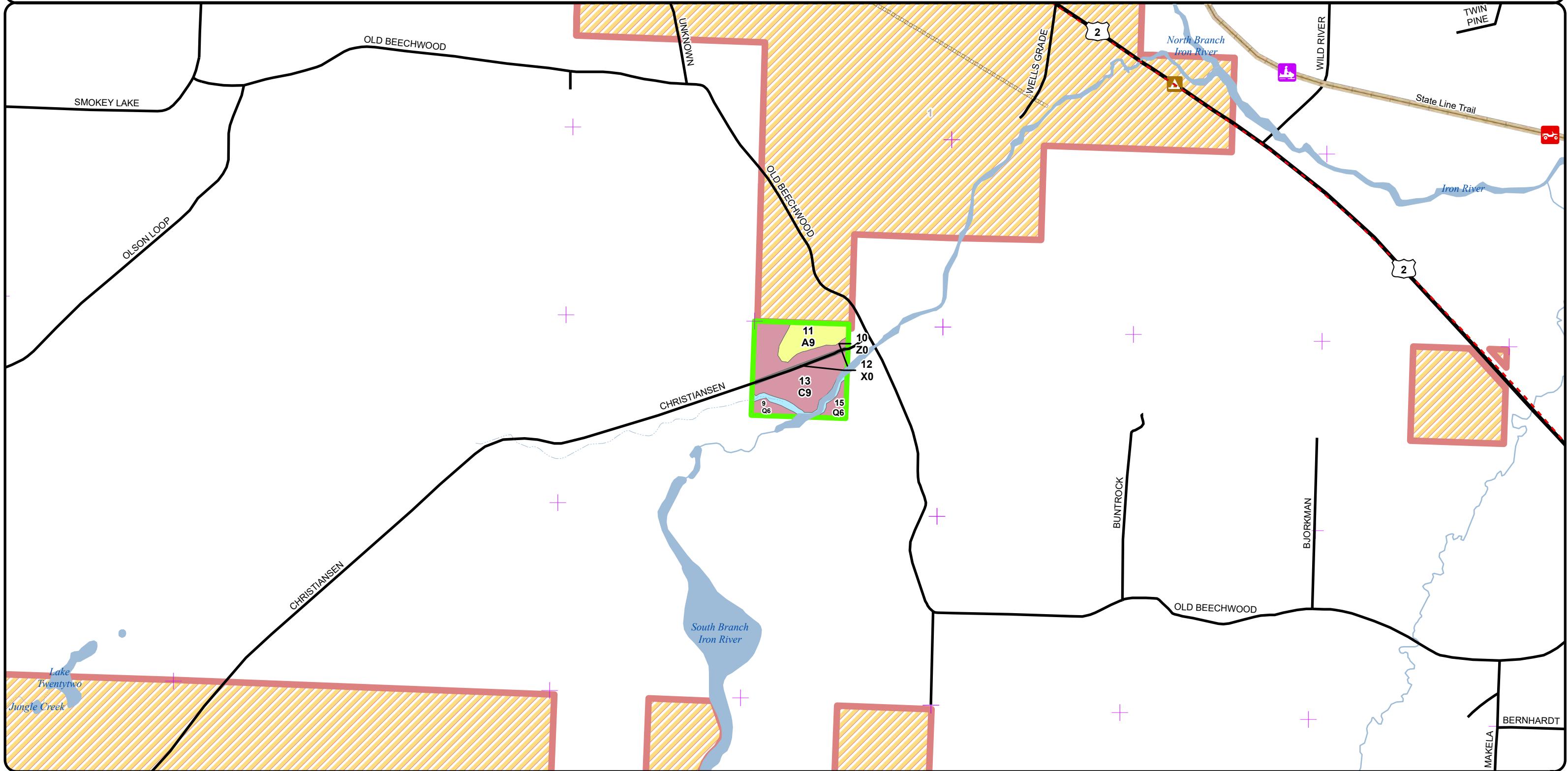
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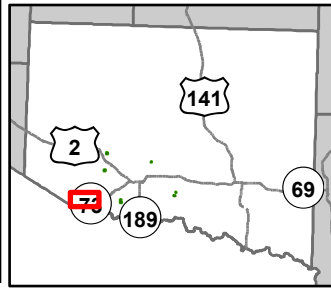
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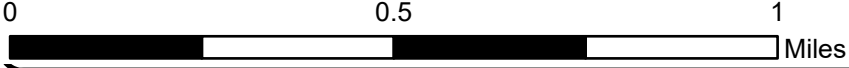
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|------------------------------|---------------------------------------|---------------------------------|
| Campground                   | DNR - Primary Forest Road             | Pipeline                        |
| Remonumented Section Corners | Federal / State Highway               | Compartment Boundary            |
| ORV Routes                   | Federal / State / County - Paved Road | Counties                        |
| Snowmobile Trails            | Intermittent Stream                   | 413 - Aspen Types               |
| Designated Bicycle Trails    | Lake/Pond                             | 612 - Lowland Coniferous Forest |
| Designated ORV Routes        | Perennial River                       | 122 - Roads/Parking Lot         |
|                              | Lakes and Rivers                      | 500 - Water                     |



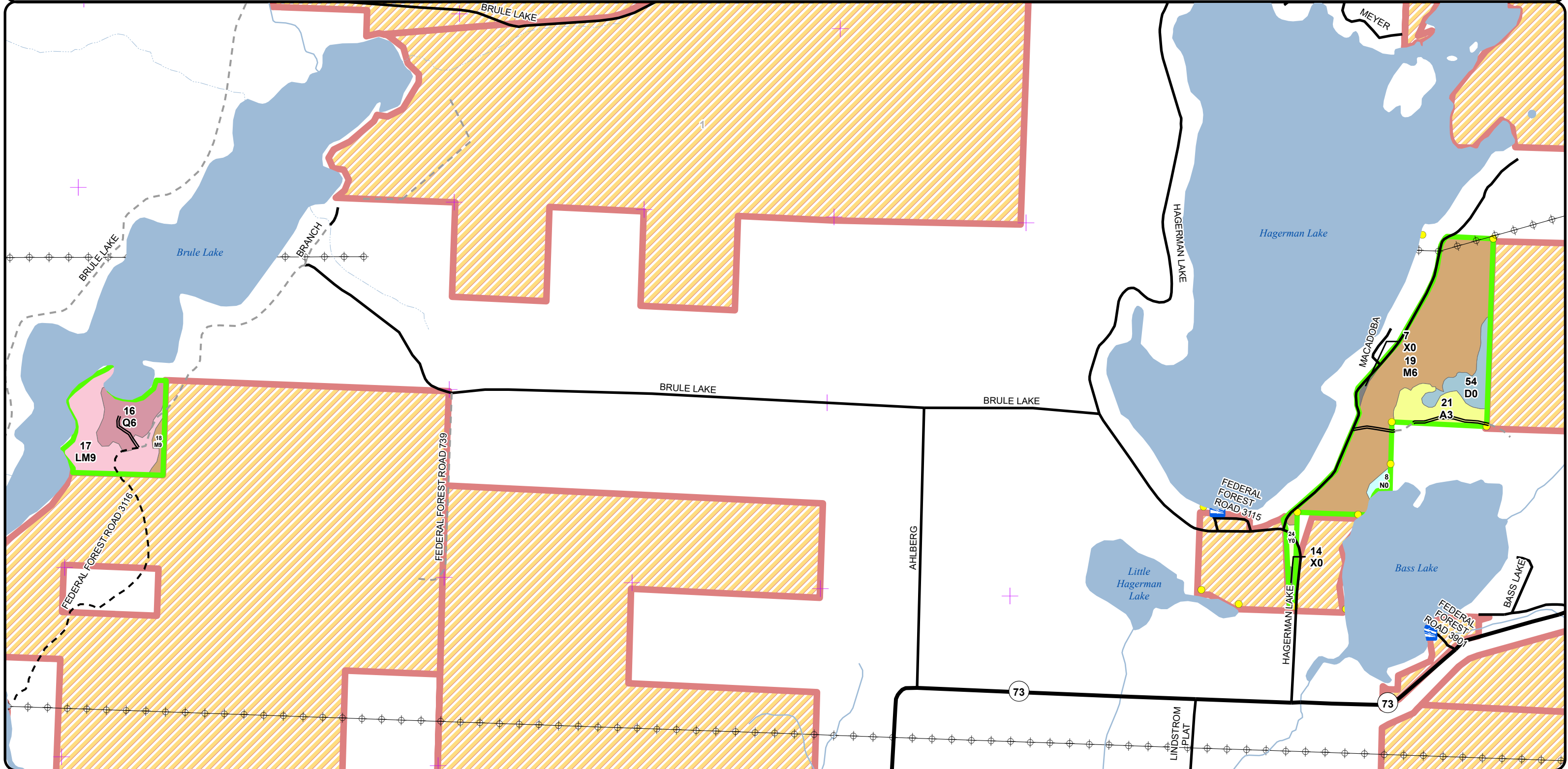
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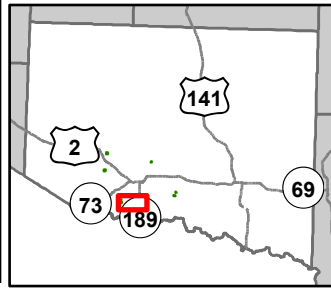
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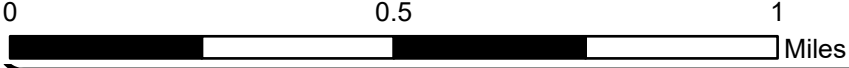
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- 622 - Lowland Shrub
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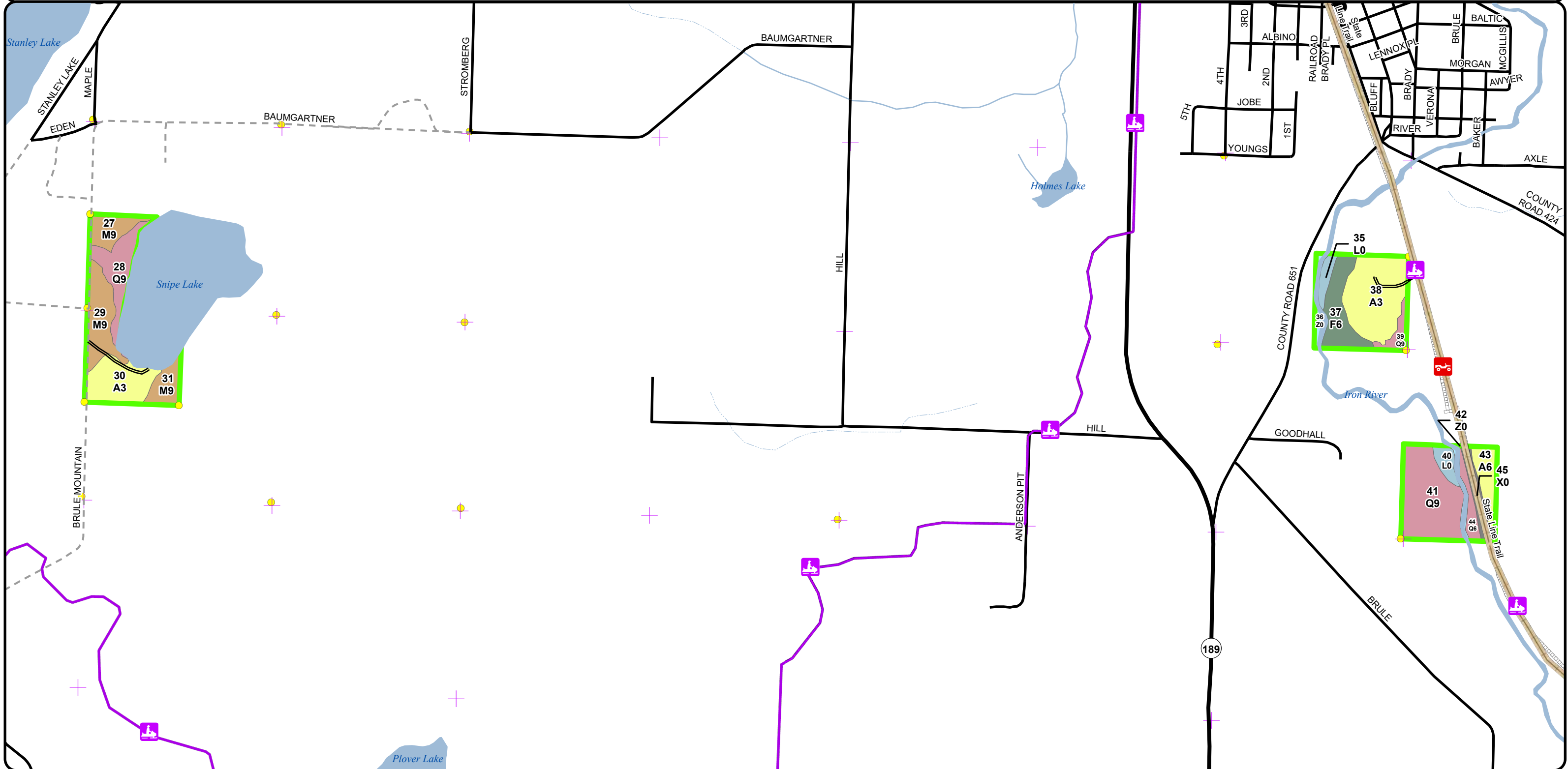
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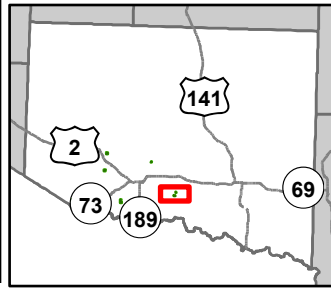


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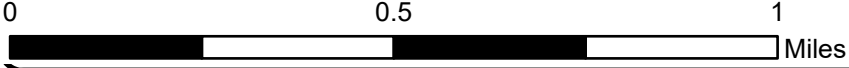




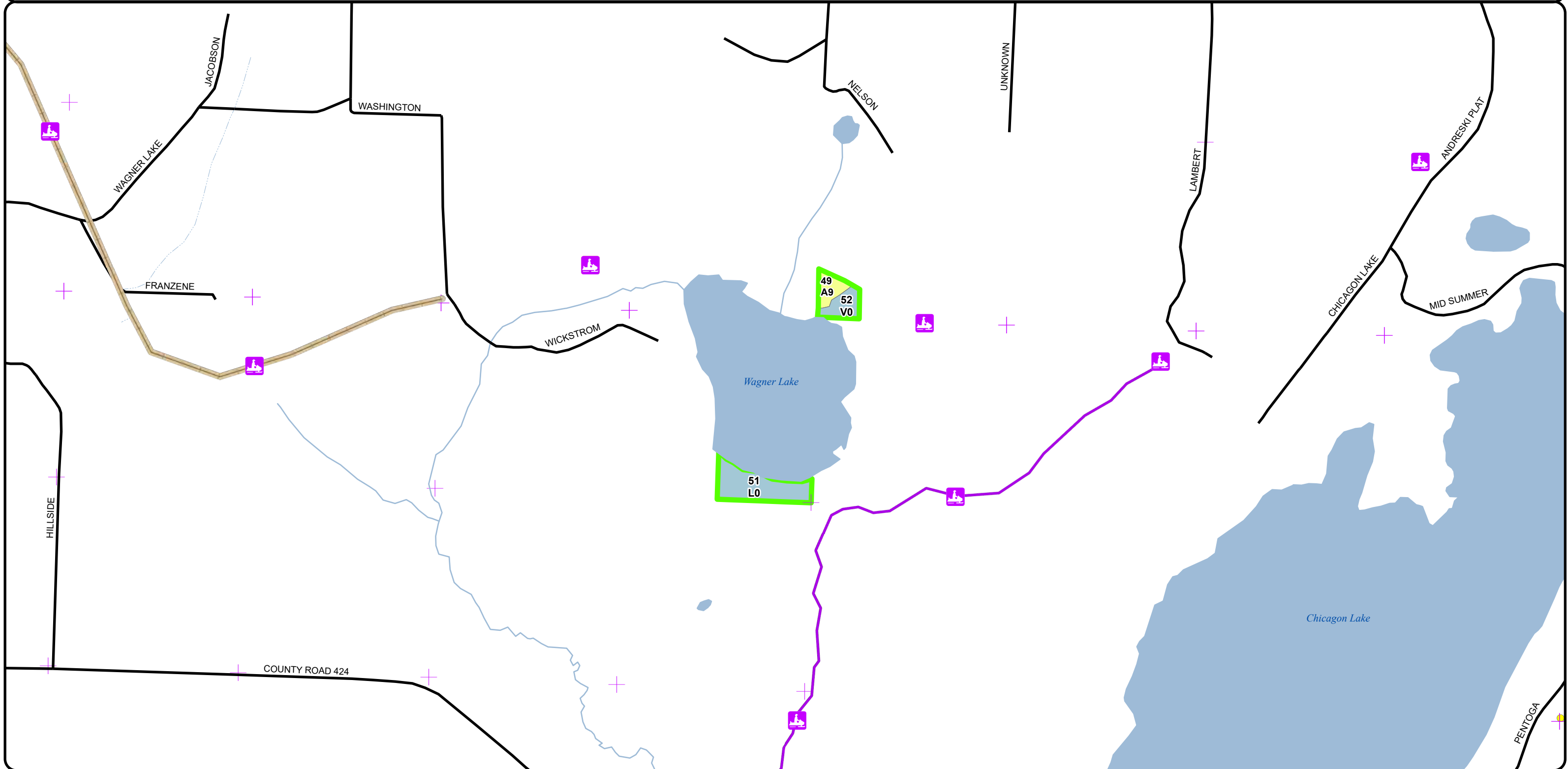
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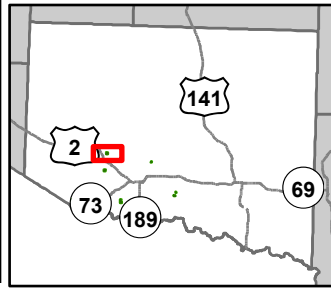
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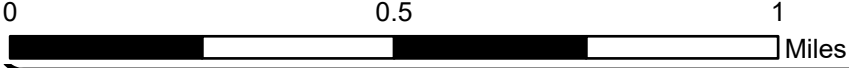
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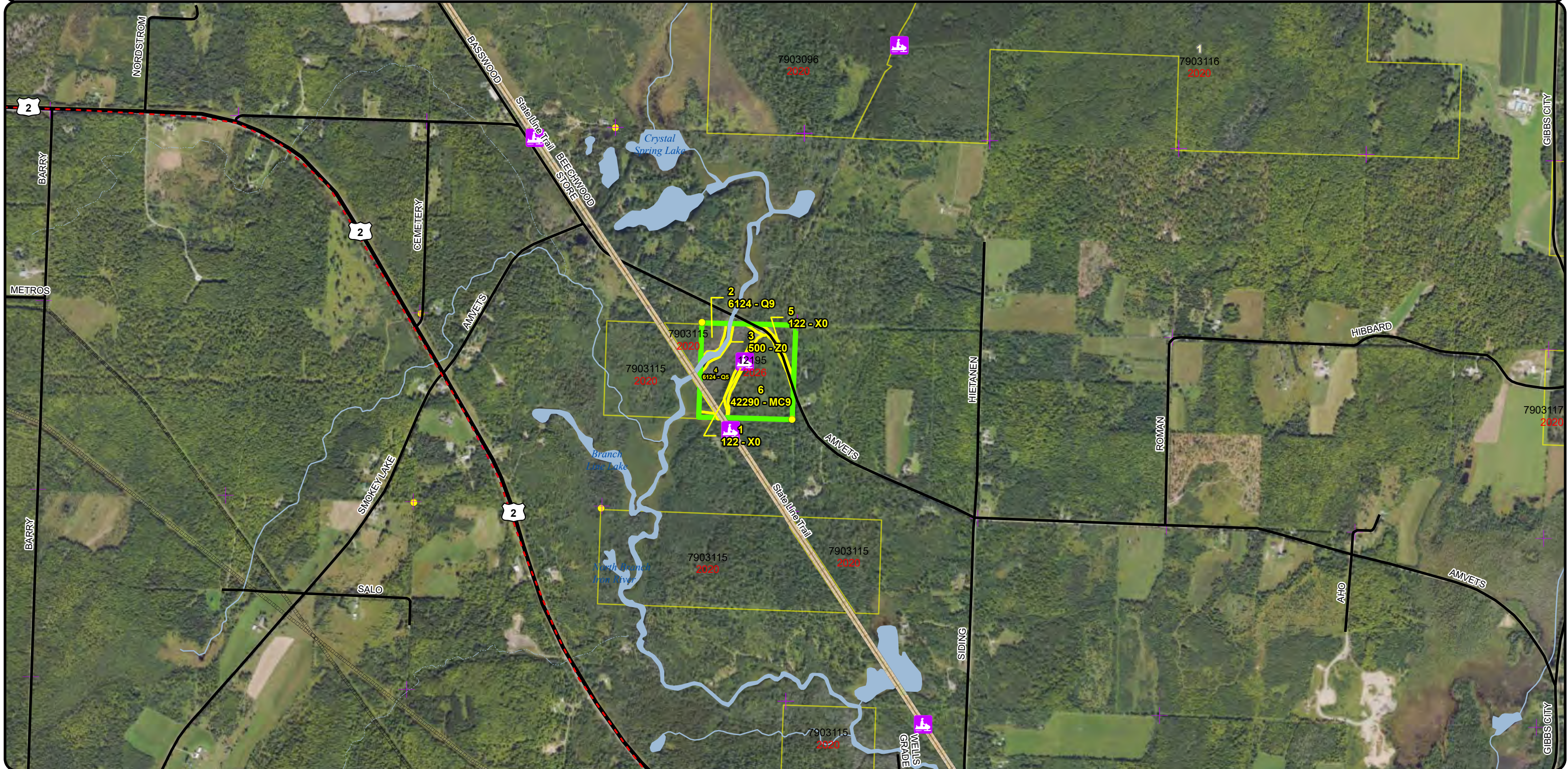
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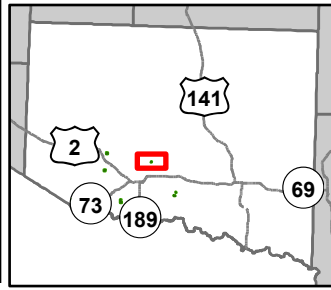
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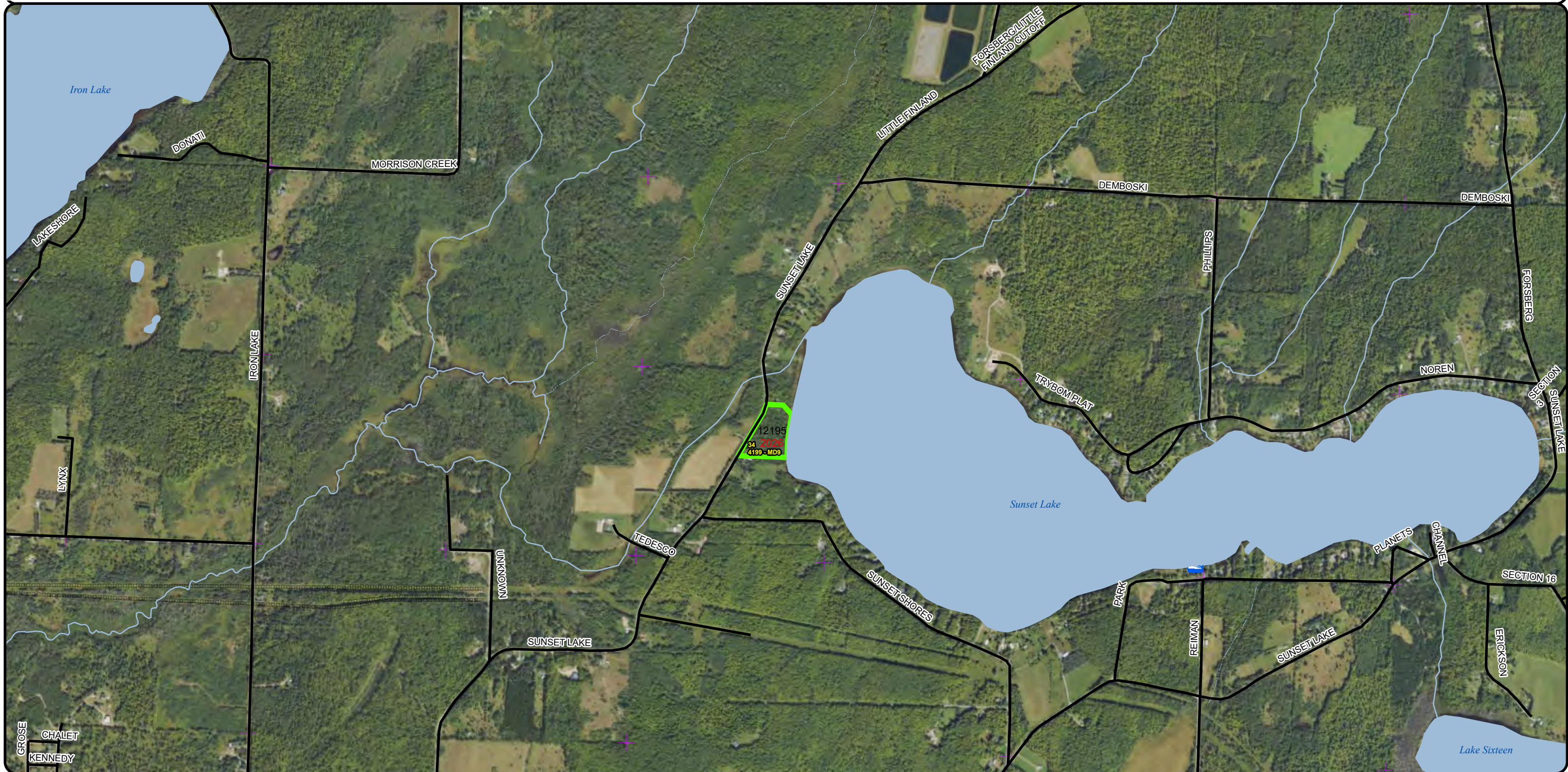
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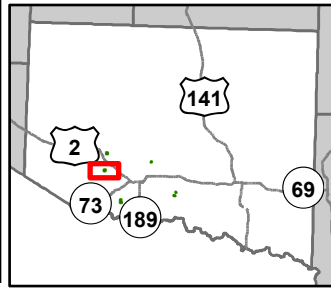
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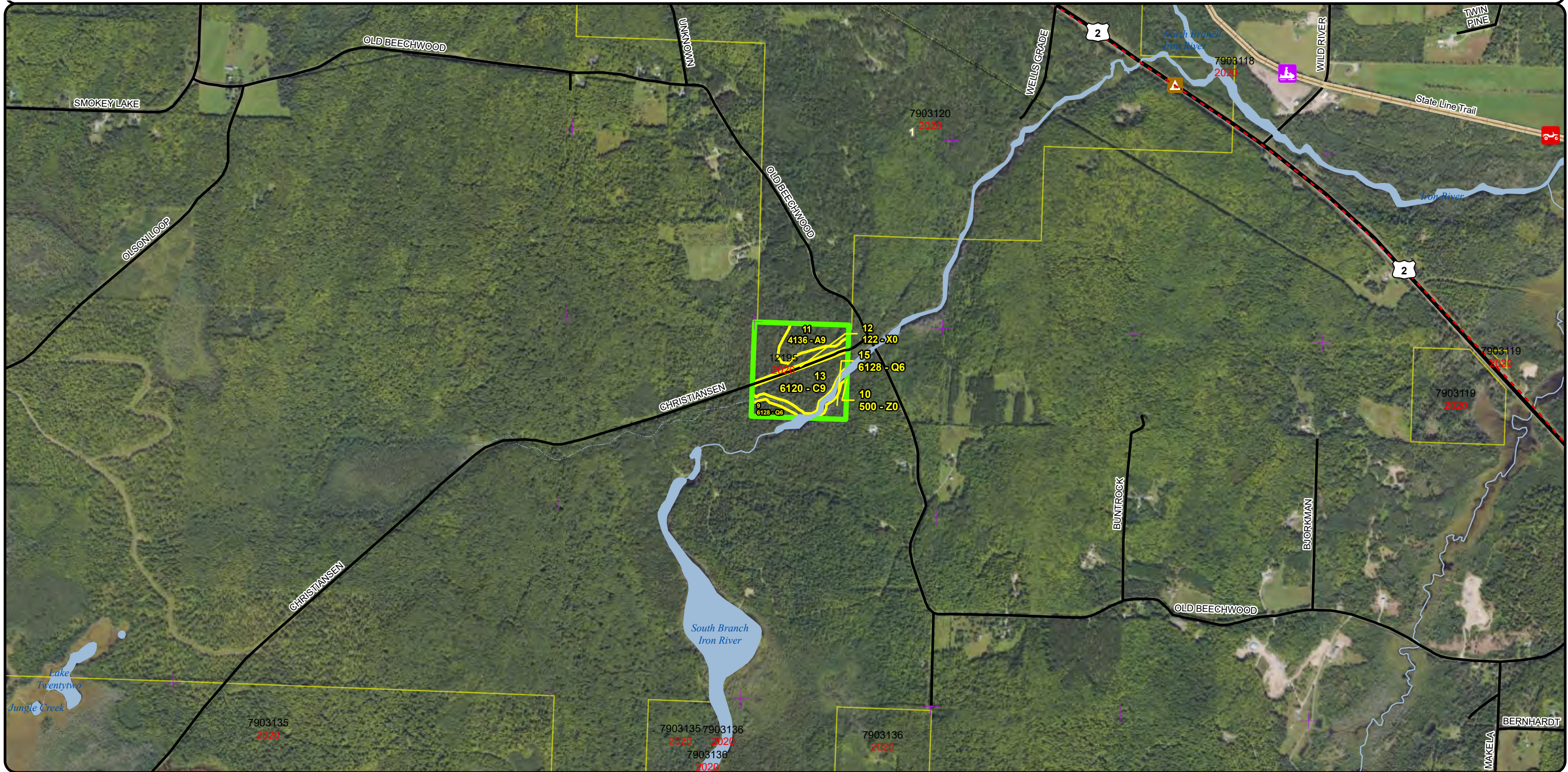
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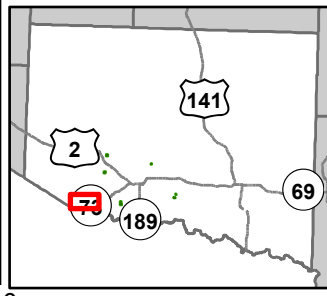
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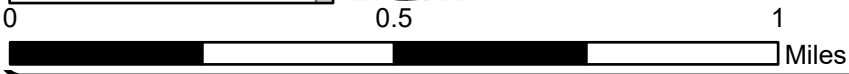
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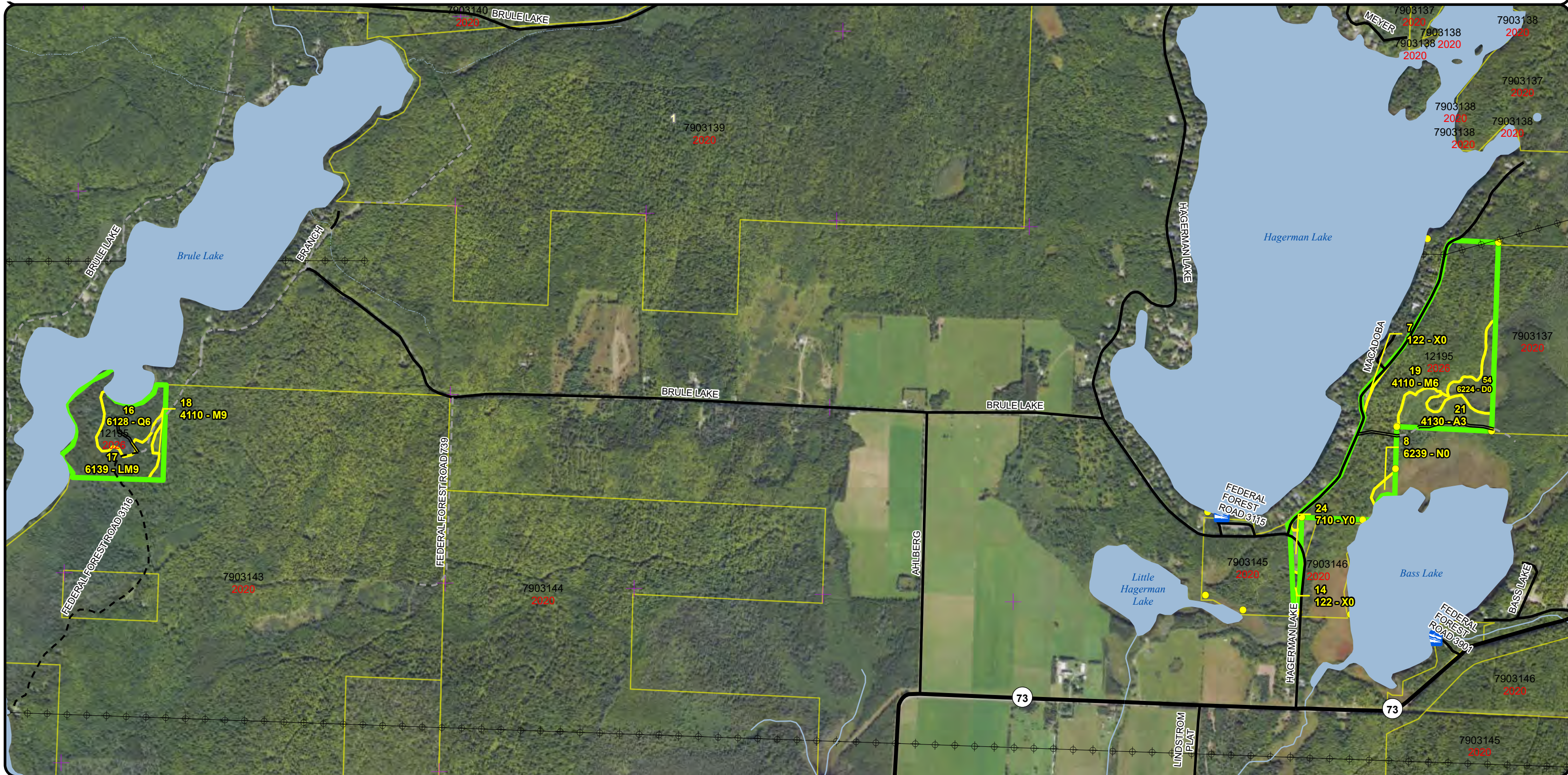
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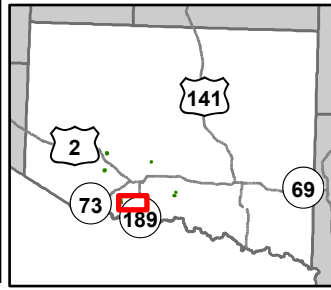
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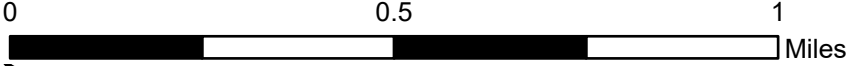
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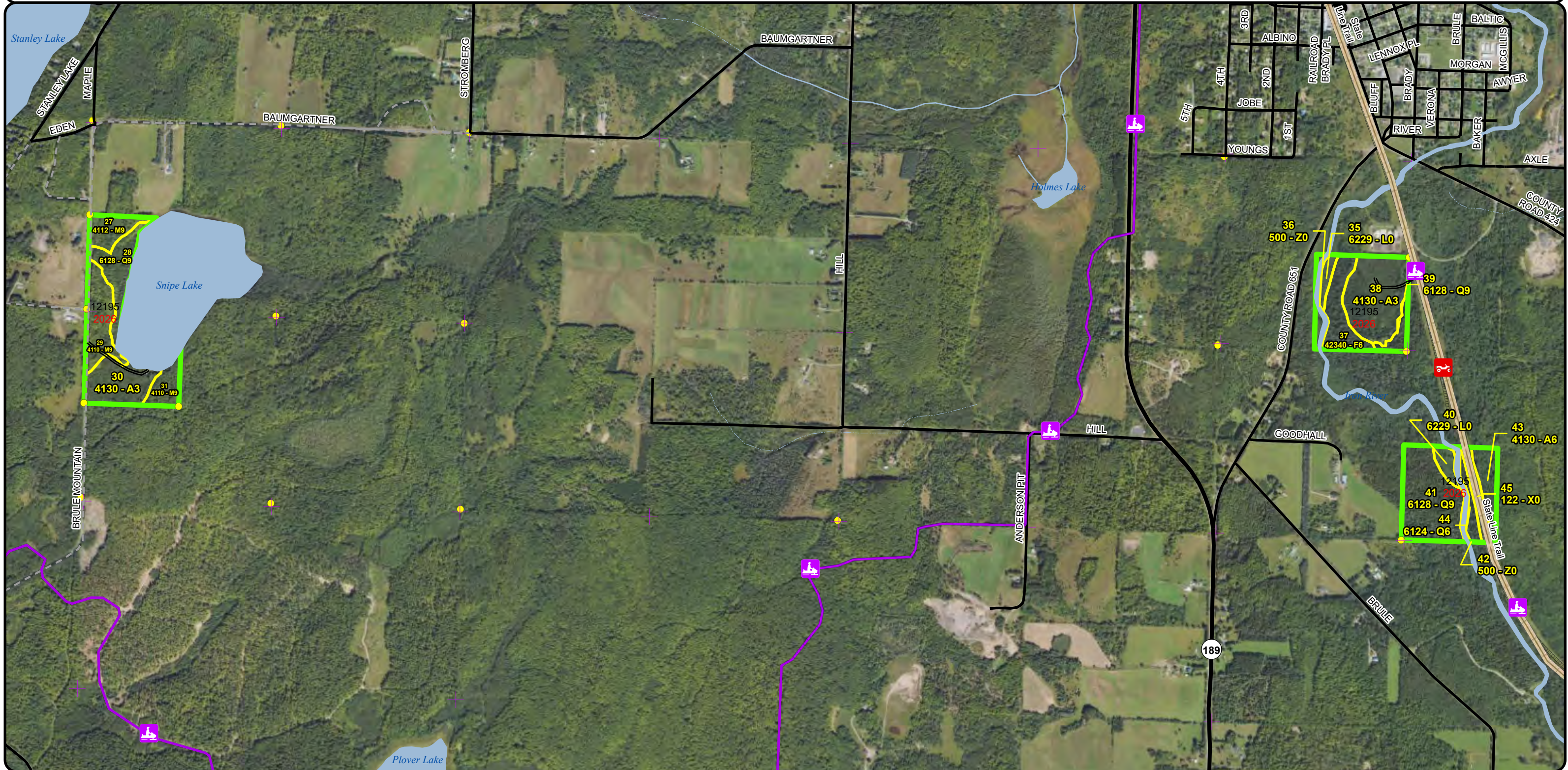
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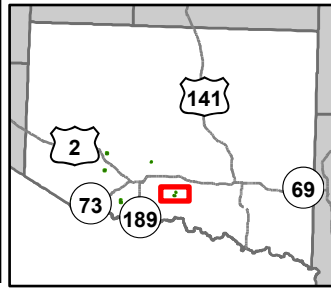
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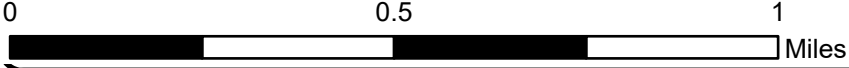
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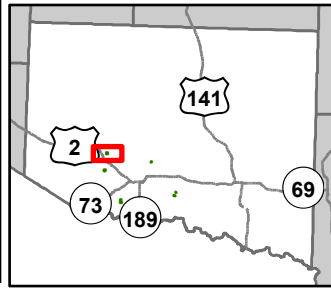
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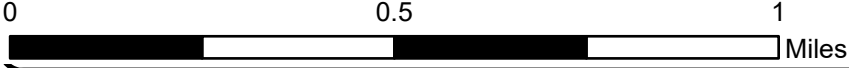
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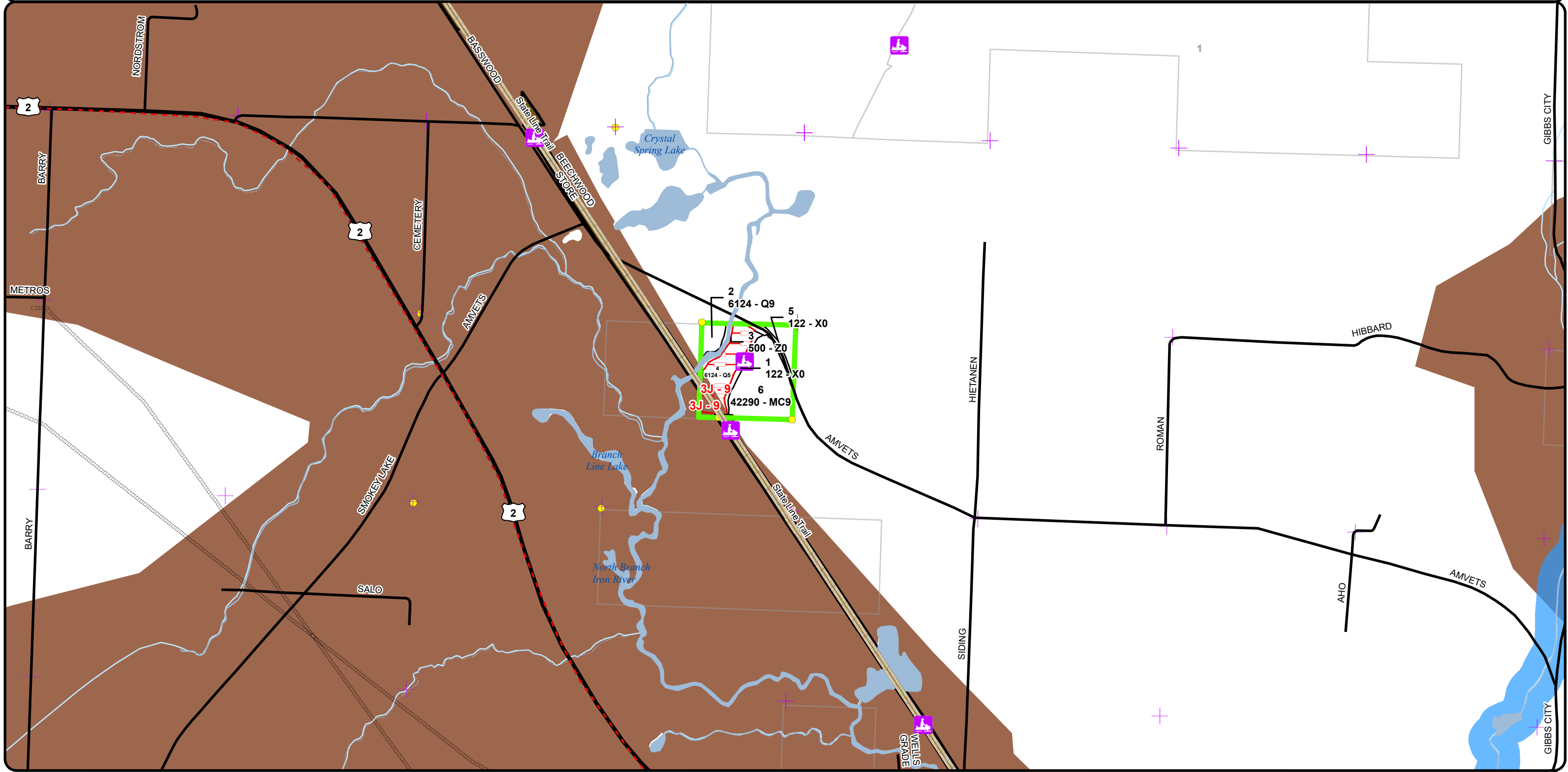
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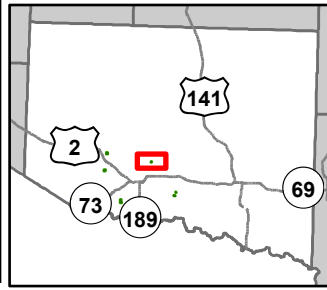


- Survey Grade Corners
- + Remonumented Section Corners
- ORV Routes
- Snowmobile Trails
- - - Designated Bicycle Trails
- = = = Designated ORV Routes
- DNR - Primary Forest Road
- Federal / State Highway
- Federal / State / County - Paved Road
- Intermittent Stream
- Lake/Pond
- Perennial River
- Lakes and Rivers
- Pipeline
- Compartment Boundary
- Counties
- SCA
- Unavailable
- 3J: Water quality / BMPs (stream, river, or lake)
- Stand Boundaries
- Cold Water Streams
- High Priority Trout Stream Buffer
- Deer Winter Range
- Trail - Trail Corridor

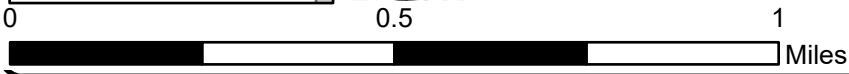




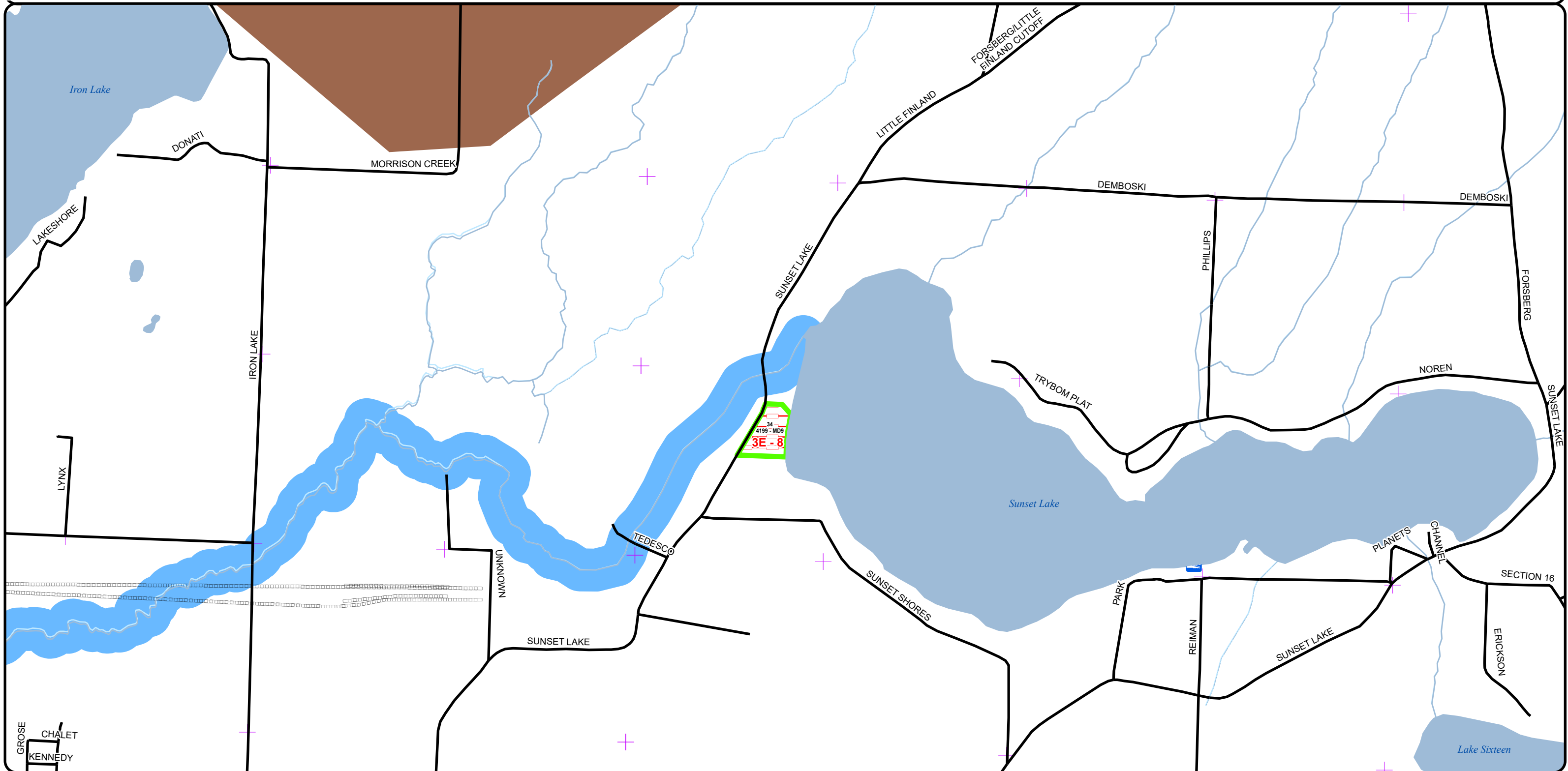
**Special Conservation Areas  
& Site Conditions Map**



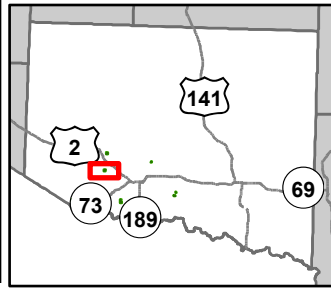
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 T42N,R34W S 18  
 County: Iron  
 Unit: Crystal Falls  
 Mgmt Area: Brule River  
 YOE: 2026  
 Acres: 370.5 GIS Calculated  
 Examiner: Tyler Ritchie  
 Map Revised: 04/15/2024  
 Map Phase: Web Post



- Boating Access Site
- Remonumented Section Corners
- Federal / State / County - Paved Road
- Intermittent Stream
- Lake/Pond
- Perennial River
- Lakes and Rivers
- Pipeline
- Compartment Boundary
- Counties
- Unavailable
- 3E: Easement / lease, non-military (e.g.- Consumers Power red pine, etc)
- Stand Boundaries
- Cold Water Streams
- High Priority Trout Stream Buffer
- Deer Winter Range



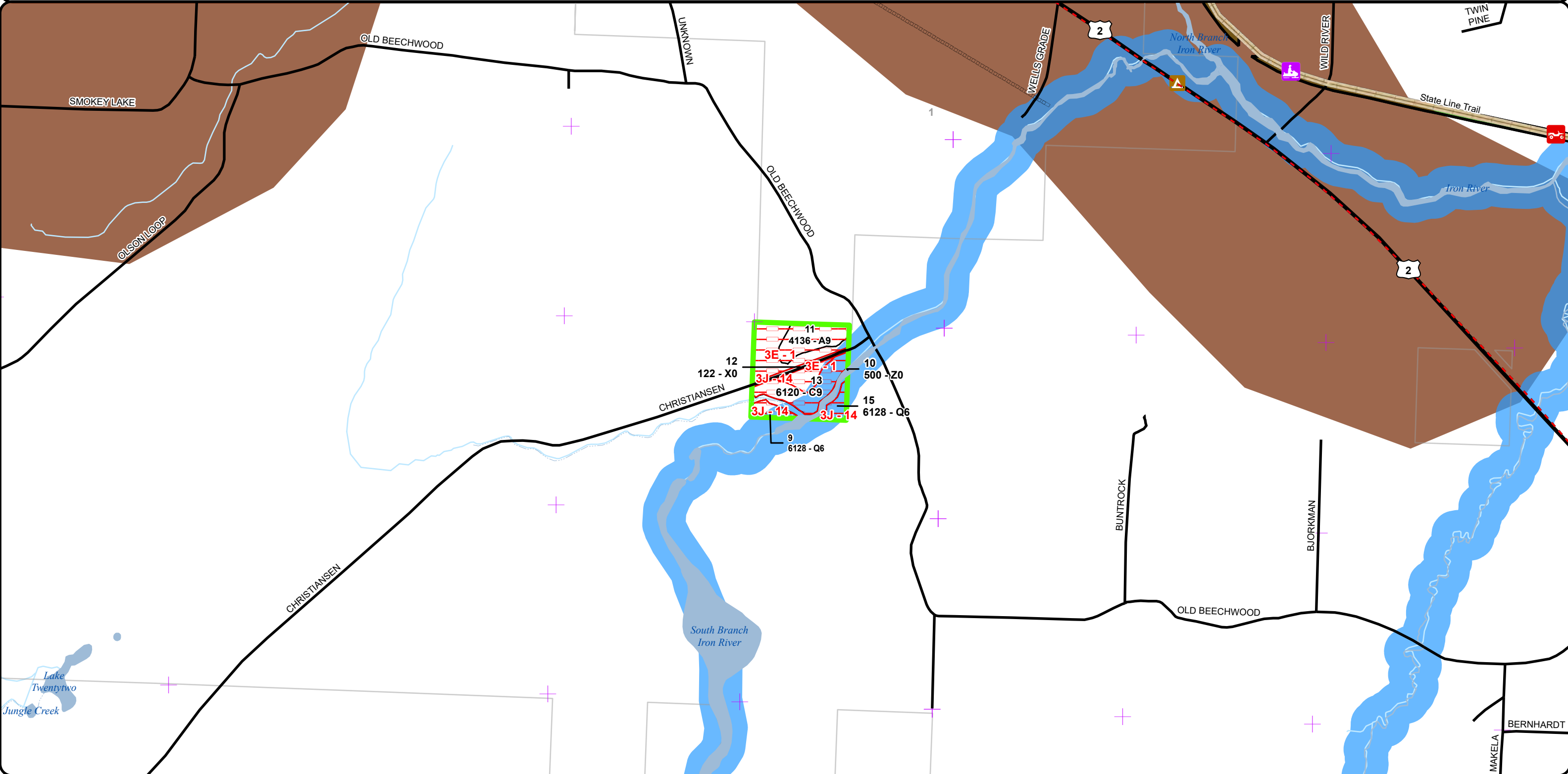
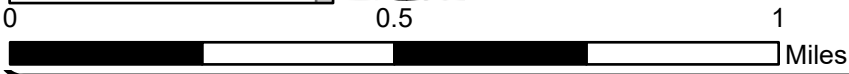
**Special Conservation Areas & Site Conditions Map**



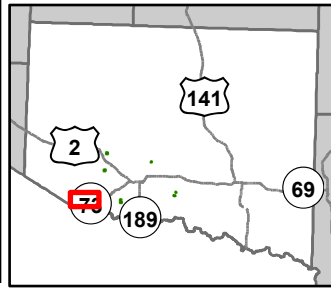
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- Campground
- Remonumented Section Corners
- ORV Routes
- Snowmobile Trails
- Designated Bicycle Trails
- Designated ORV Routes
- DNR - Primary Forest Road
- Federal / State Highway
- Federal / State / County - Paved Road
- Intermittent Stream
- Lake/Pond
- Perennial River
- Lakes and Rivers
- Pipeline
- Compartment Boundary
- Counties
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- 3E: Easement / lease, non-military (e.g.- Consumers Power red pine, etc)
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- Stand Boundaries
- Cold Water Streams
- High Priority Trout Stream Buffer
- Deer Winter Range
- Trail - Trail Corridor



**Special Conservation Areas & Site Conditions Map**

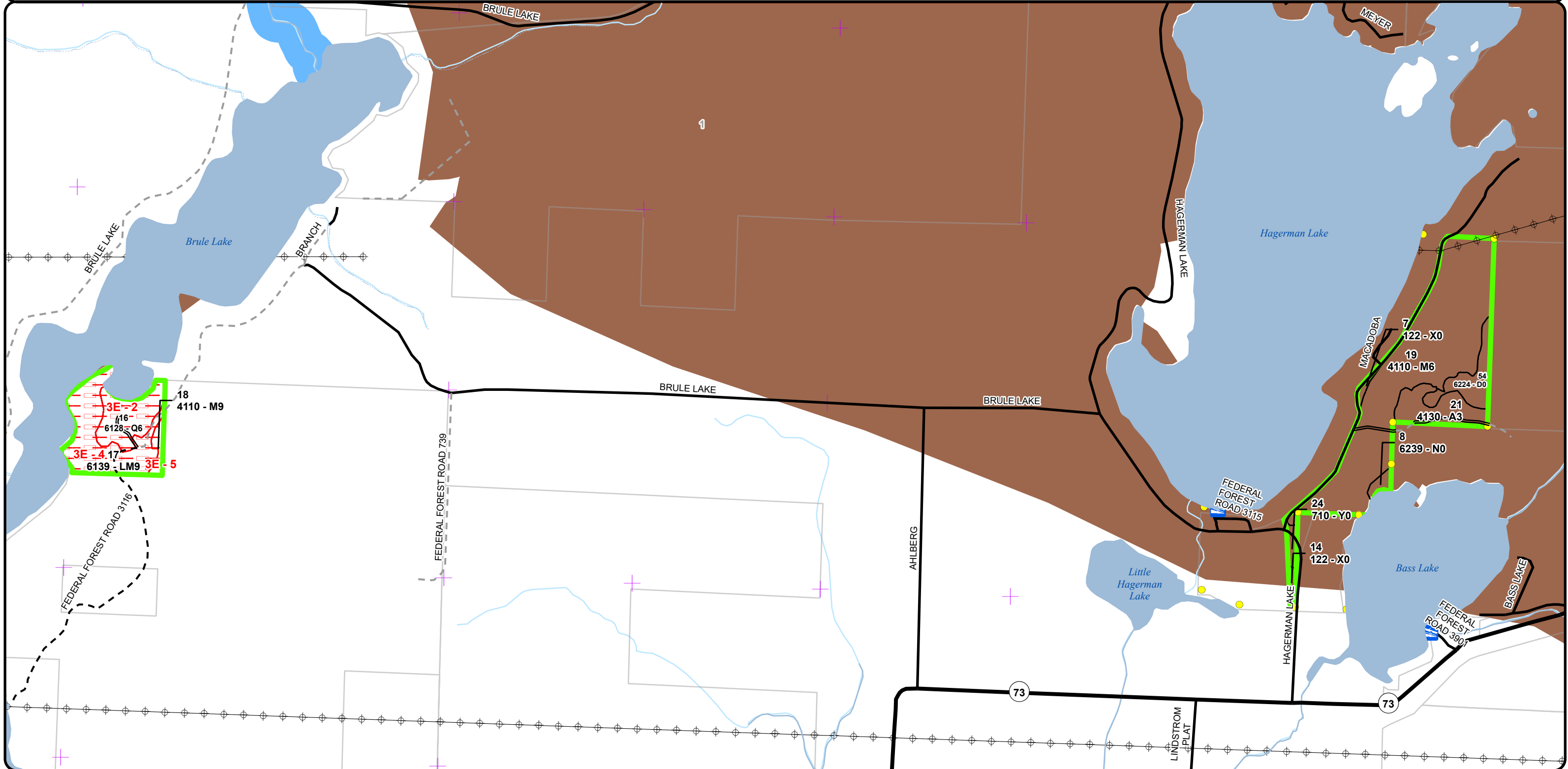
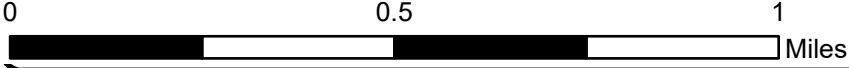


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 Map Revised: 04/15/2024  
 Map Phase: Web Post

- Boating Access Site
- Survey Grade Corners
- Remunemented Section Corners
- DNR - Secondary Forest Road
- Federal / State Highway
- Federal / State / County - Paved Road
- Federal / State - Dirt / Gravel Road
- Private - Dirt / Gravel Road

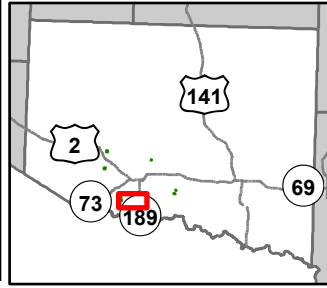
- Intermittent Stream
- Island in Lake or River
- Lake/Pond
- Perennial River
- Lakes and Rivers
- Powerline
- Compartment Boundary
- Counties

- Unavailable
- 3E: Easement / lease, non-military (e.g.- Consumers Power red pine, etc)
- Stand Boundaries
- Cold Water Streams
- High Priority Trout Stream Buffer
- Deer Winter Range



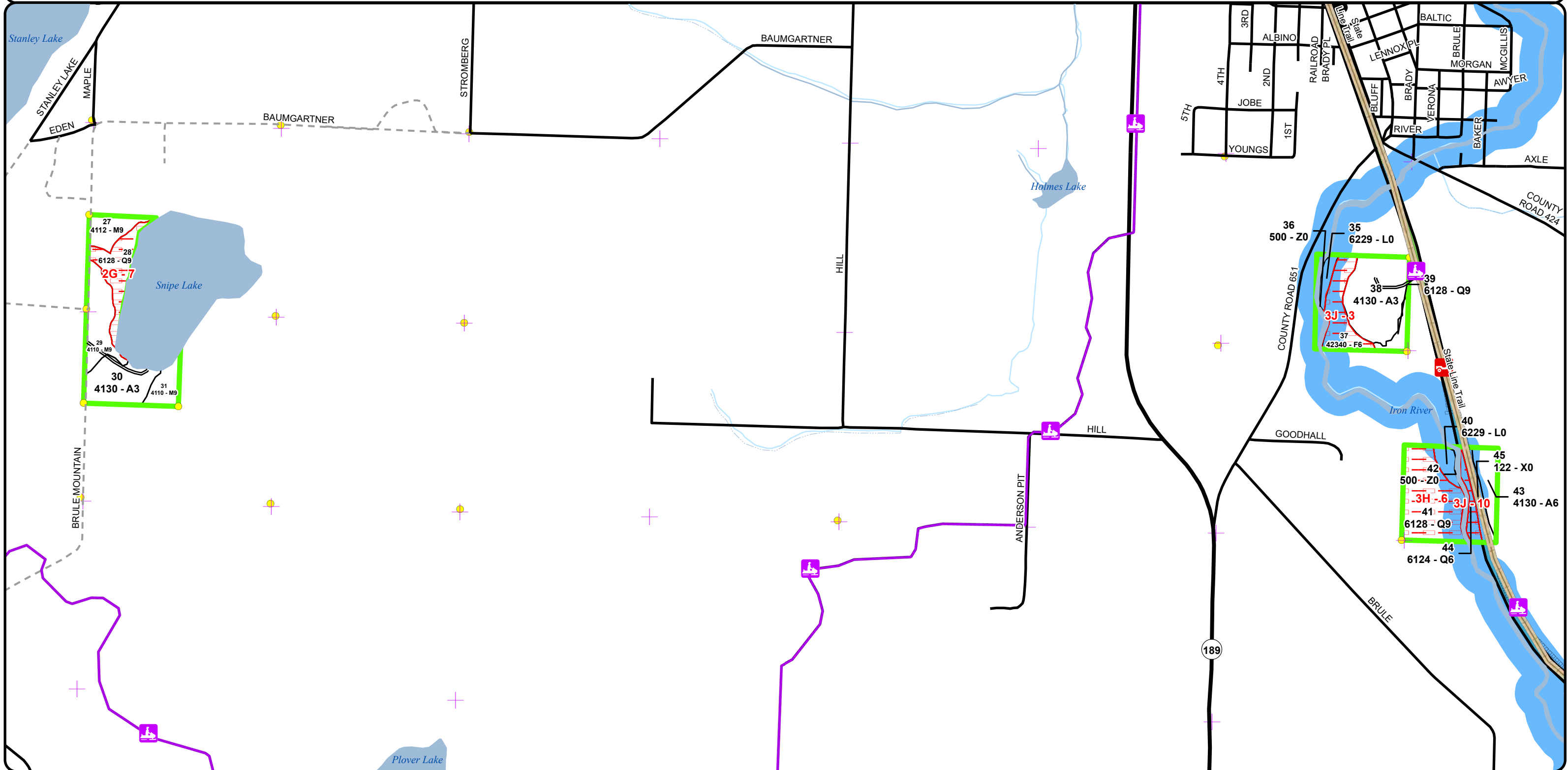
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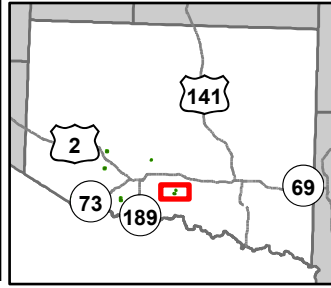
- Boating Access Site
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- Designated ORV Routes
- Designated Snowmobile Trails
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- Intermittent Stream
- Lake/Pond
- Perennial River
- Lakes and Rivers
- Pipeline
- Compartment Boundary

- Counties
- SCA
- Unavailable
- 2G: Too wet (sensitive soils, does not include access issues)
- 3J: Water quality / BMPs (stream, river, or lake)
- Stand Boundaries
- Cold Water Streams
- High Priority Trout Stream Buffer
- Trail - Trail Corridor

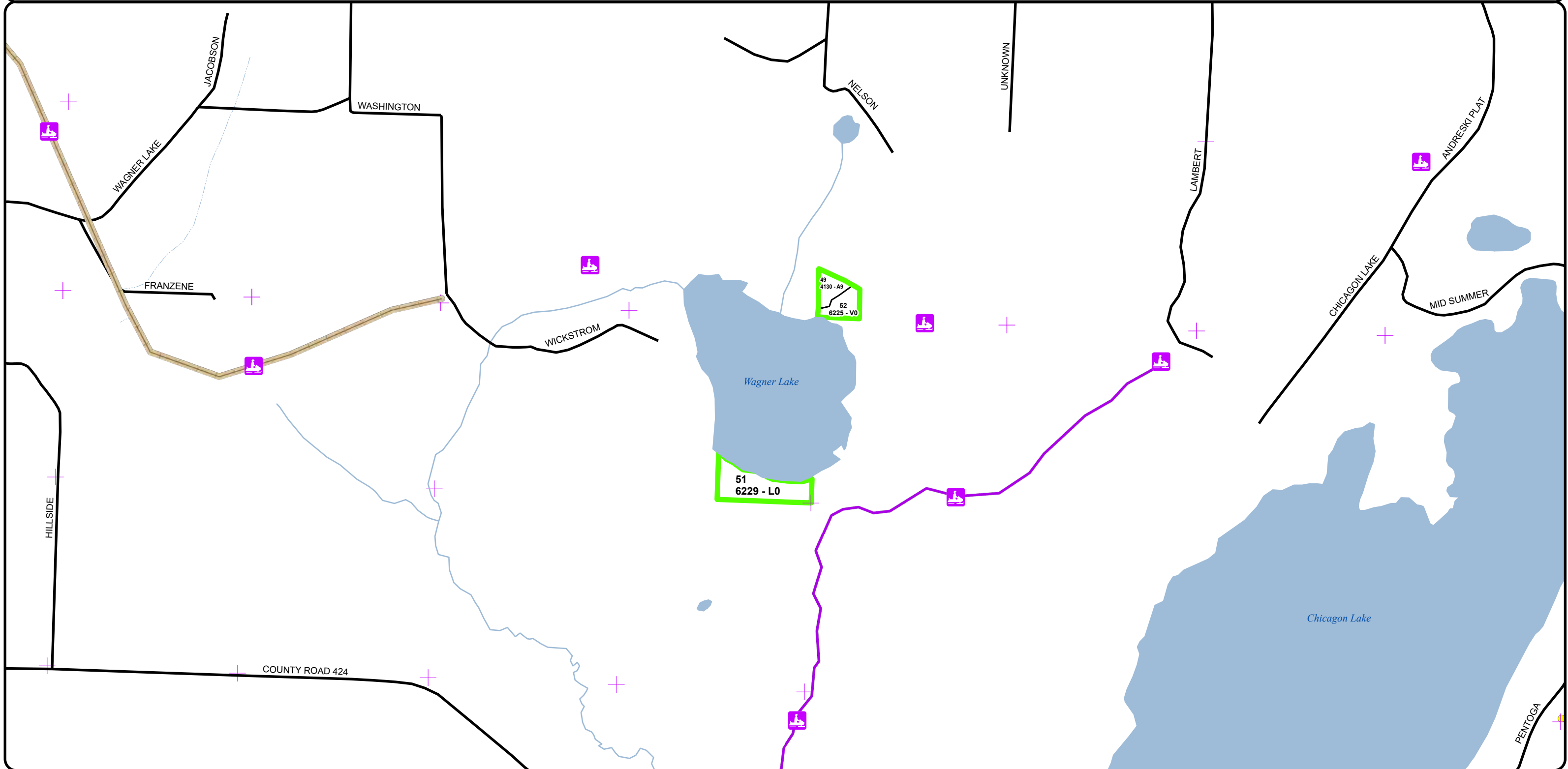


Special Conservation Areas  
& Site Conditions Map

Compartment: 12195  
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- Designated Snowmobile Trails
- Federal / State / County - Paved Road
- Intermittent Stream
- Lake/Pond
- Perennial River
- Lakes and Rivers
- Compartment Boundary
- Counties
- Stand Boundaries



Report 1 – Total Acres by Cover Type and Age Class



Age Class

	Non-Forest	0-9	10-19	20-29	30-39	40-49	50-59	60-69	70-79	80-89	90-99	100-109	110-119	120-129	130-139	140-149	150+	Uneven-Aged	Total
Aspen	0	12	33	0	0	6	0	3	0	8	0	0	0	0	0	0	0	0	62
Bog	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
Cedar	0	0	0	0	0	0	0	0	0	0	0	22	0	0	0	0	0	0	22
Lowland Conifers	0	0	0	0	0	0	13	0	22	13	19	2	0	0	0	0	0	0	69
Lowland Mixed Forest	0	0	0	0	0	0	0	0	22	0	0	0	0	0	0	0	0	0	22
Lowland Shrub	17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17
Marsh	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
Mixed Upland Deciduous	0	0	0	0	0	0	0	0	0	0	8	0	0	0	0	0	0	0	8
Natural Mixed Pines	0	0	0	0	0	0	0	0	0	0	20	0	0	0	0	0	0	0	20
Northern Hardwood	0	0	0	0	0	0	0	0	0	2	98	0	0	0	0	0	0	0	100
Sand, Soil	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
Treed Bog	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9
Upland Spruce/Fir	0	0	0	0	10	0	0	0	0	0	0	0	0	0	0	0	0	0	10
Urban	12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12
Water	11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	11
<b>Total</b>	<b>57</b>	<b>12</b>	<b>33</b>	<b>0</b>	<b>10</b>	<b>6</b>	<b>13</b>	<b>3</b>	<b>44</b>	<b>23</b>	<b>145</b>	<b>24</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>370</b>



# Report 2 – Treatment Summary

Crystal Falls Mgt. Unit  
Year of Entry: 2026

Compartment 195  
Total Compartment Acres: 371

## Acres of Harvest

Commercial Harvest -  
Harvests with Site Condition - 0  
Next Step Harvest - 0  
Habitat Cut - 0

### Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	0	0	0	0	0	0	20	0	0	20
<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>20</b>	<b>0</b>	<b>0</b>	<b>20</b>



S t a n d	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
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**Approved Treatments:**

6	12195006-Monitor	17.0	42290 - Natural Mixed Pine	Sawtimber Well	94	51-80	Monitoring	Natural Regen (Re-Inventory)	429 - Mixed Upland Conifers	Even-Aged	No
<p><u>Prescription</u></p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> aspen, jack pine, spruce and balsam, white birch sprouts, maple sprouts, red and white pine seedlings.</p> <p><u>Regen:</u></p> <p><u>Other</u> Percent to Treat = 100%</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2024</p>											
6	12195006-Monitor	2.9	42290 - Natural Mixed Pine	Sawtimber Well	94	51-80	Monitoring	Natural Regen (Re-Inventory)	429 - Mixed Upland Conifers	Even-Aged	No
<p><u>Prescription</u></p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> aspen, jack pine, spruce and balsam, white birch sprouts, maple sprouts, red and white pine seedlings.</p> <p><u>Regen:</u></p> <p><u>Other</u> Percent to Treat = 100%</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2024</p>											
6	12195006-Monitor	17.0	42290 - Natural Mixed Pine	Sawtimber Well	94	51-80	Monitoring	Natural Regen (Re-Inventory)	429 - Mixed Upland Conifers	Even-Aged	No
<p><u>Prescription</u></p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> aspen, spruce and balsam, birch sprouts all pines (seedlings),maple sprouts</p> <p><u>Regen:</u></p> <p><u>Other</u> Percent to Treat = 100%</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2024</p>											





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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
<b>6 12195006-Monitor</b>	2.9	42290 - Natural Mixed Pine	Sawtimber Well	94	51-80	Monitoring	Natural Regen (Re-Inventory)	429 - Mixed Upland Conifers	Even-Aged	No
<p><u>Prescription</u></p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> aspen, spruce and balsam, birch sprouts all pines (seedlings),maple sprouts</p> <p><u>Regen:</u></p> <p><u>Other</u> Percent to Treat = 100%</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2024</p>										

**Total Treatment** 19.9  
**Acreage Proposed:**

## Report 4 – Site Conditions

Crystal Falls Mgt. Unit  
Tyler Ritchie : Examiner

Compartment: 195  
Year of Entry: 2026

### Availability for Management

Total Acres	Acres Available	Acres Avail		Dominant Site Conditions	Dominant Site Conditions			
		With Condition	Not Available		2G	3E	3H	3J
62	54	0	8	Aspen		8		0
4	4	0	0	Bog				
22	0	0	22	Cedar		13		9
69	6	0	63	Lowland Conifers	11	13	21	18
22	0	0	22	Lowland Mixed Forest		22		
17	17	0	0	Lowland Shrub				0
2	2	0	0	Marsh				
8	0	0	8	Mixed Upland Deciduous		8		
20	20	0	0	Natural Mixed Pines				
100	98	0	2	Northern Hardwood		2		
2	2	0	0	Sand, Soil				
9	9	0	0	Treed Bog				
10	0	0	10	Upland Spruce/Fir				10
12	12	0	0	Urban				
11	11	0	0	Water				0
371	235		135	Total Forested Acres	11	66	21	37
	63%		36%	Relative Percent				

*\*Due to limitations in the current Site Conditions Analysis tool, all nonforested acres are considered available. Future development will enable analysis of nonforested types.*

Site No.	Dominant Site Cond Availability	Dominant Site Condition	Acres	Other Site Condition	Other Site Condition	Other Site Condition	Other Site Condition
1	Unavailable	3E: Easement / lease, non-military (e.g.- Consumers Power red pine, etc)	21	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Undivided interest, need to obtain permission.							
2	Unavailable	3E: Easement / lease, non-military (e.g.- Consumers Power red pine, etc)	13	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							

## Report 4 – Site Conditions

Crystal Falls Mgt. Unit

Tyler Ritchie : Examiner

Compartment: 195

Year of Entry: 2026

3	<b>Unavailable</b>	3J: Water quality / BMPs (stream, river, or lake)	10	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> undiv interest							
4	<b>Unavailable</b>	3E: Easement / lease, non- military (e.g.- Consumers Power red pine, etc)	22	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
5	<b>Unavailable</b>	3E: Easement / lease, non- military (e.g.- Consumers Power red pine, etc)	2	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
6	<b>Unavailable</b>	3H: Deer Wintering Area - habitat is incompatible with harvest at this time	22	2B: Unknown if access through adjacent landowner(s) is possible	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
7	<b>Unavailable</b>	2G: Too wet (sensitive soils, does not include access issues)	11	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
8	<b>Unavailable</b>	3E: Easement / lease, non- military (e.g.- Consumers Power red pine, etc)	8	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							

**Report 4 – Site Conditions**

Crystal Falls Mgt. Unit

Tyler Ritchie : Examiner

Compartment: 195

Year of Entry: 2026

9	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	10	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
10	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	3	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
14	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	14	3E: Easement / lease, non-military (e.g.- Consumers Power red pine, etc)	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Buffer and swamp with considerable cedar							

Mgt. Unit

Compartment: #Type!

Year of Entry:



### Report 5 – PROPOSED SPECIAL CONSERVATION AREA\* (SCA) DETAILS

\* This is a partial list of SCAs for this compartment. Not included are those areas identified under other Department initiatives (Natural Rivers, Deer Wintering Areas, etc.). Those will be identified in separate, future map and report products.

SCA Name	SCA Category	Detail Type	Recommendation	Acres
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Comments
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**Report 6 – EXISTING SPECIAL CONSERVATION AREA DETAILS**

\* This is a list of SCA's for this compartment along with a 1/4 mile buffer surrounding the compartment. Refer to the Special Conservation Area Map for locations of the below listed Conservation Areas.

ERA = Ecological Reference Area  
HCVA = High Conservation Value Area  
SCA = Special Conservation Area

Conservation Area	Type	Description
SCA	Cold Water Lake	A coldwater lake has temperature and dissolved oxygen conditions that allow naturally-reproduced or stocked trout populations and those of other coldwater fish species to persist from year to year. Suitable conditions for coldwater fishes may occur in Michigan lakes if they are relatively deep, have substantial groundwater inflows, or are located in colder (northern) areas of the state. Such lakes are established by Director's action and designated as trout resources by Fisheries Order 200.
SCA	Cold Water Stream	A coldwater stream has temperature and dissolved oxygen conditions that allow naturally-reproduced or stocked trout populations and those of other coldwater fish species (e.g., slimy sculpin) to persist from year to year. Coldwater streams in Michigan typically provide these conditions due to substantial contributions of groundwater to their stream flows. Such streams are established by Director's action and designated as trout resources by Fisheries Order 210.
SCA	Habitat Area	An area that provide some specific need for the life cycle of wildlife species, including State Wildlife Areas and Waterfowl Production Areas, deer wintering complexes in lowland conifer communities, grassland openings and savannas. Habitat areas are distinct from critical habitat designated for recovery of endangered or threatened species (such as Kirtland's warbler or piping plover areas) in that they are more general in nature, are not primarily associated with threatened or endangered species, and are not covered by species recovery plans that are developed in cooperation with Federal agencies.
SCA	Riparian Area	A transitional area between aquatic and terrestrial ecosystems in which the terrestrial ecosystem influences the aquatic ecosystem and vice-versa. Because of the unique conditions adjacent to lakes, streams and open water wetlands, riparian areas harbor a high diversity of plants and wildlife. Riparian communities are ecologically and socially significant in their effects on water quality and quantity, as well as aesthetics, habitat, bank stability, timber production, and their contribution to overall biodiversity.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																														
1	122 - Road/Parking Lot	Nonstocked	2.0			No	Amvets Highway and Trail																																														
2	6124 - Lowland Spruce-Fir	Sawtimber Well	2.9	90	51-80	N/A	Buffer for Iron River																																														
<table border="1"> <thead> <tr> <th>Canopy Species</th> <th>% Cover</th> <th>Size Class</th> <th>DBH</th> <th>Age</th> </tr> </thead> <tbody> <tr> <td>Balsam Fir</td> <td>30</td> <td>Log/Pole</td> <td>10</td> <td></td> </tr> <tr> <td>Tamarack</td> <td>30</td> <td>Log/Pole</td> <td>10</td> <td></td> </tr> <tr> <td>Paper Birch</td> <td>5</td> <td>Log/Pole</td> <td>10</td> <td></td> </tr> <tr> <td>White Pine</td> <td>5</td> <td>Log/Pole</td> <td>10</td> <td></td> </tr> <tr> <td>Black Spruce</td> <td>30</td> <td>Log/Pole</td> <td>10</td> <td>90</td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age	Balsam Fir	30	Log/Pole	10		Tamarack	30	Log/Pole	10		Paper Birch	5	Log/Pole	10		White Pine	5	Log/Pole	10		Black Spruce	30	Log/Pole	10	90	<table border="1"> <thead> <tr> <th>Sub-Canopy Species</th> <th>Density</th> <th>Avg. Height</th> <th>Size</th> </tr> </thead> <tbody> <tr> <td>Tag Alder</td> <td>Medium</td> <td>5 - 10 feet</td> <td>Tall Shrub</td> </tr> <tr> <td>Black Spruce</td> <td>Low</td> <td>Variable</td> <td>Sapling</td> </tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	Tag Alder	Medium	5 - 10 feet	Tall Shrub	Black Spruce	Low	Variable	Sapling								
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Black Spruce	Low	Variable	Sapling																																																		
3	500 - Water	Nonstocked	2.2			No	Iron River																																														
4	6124 - Lowland Spruce-Fir	Poletimber Medium	10.3	87	51-80	N/A	river buffer corridor																																														
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5	122 - Road/Parking Lot	Nonstocked	1.8			No	Amvets Highway and Trail																																														
6	42290 - Natural Mixed Pine	Sawtimber Well	20.4	94	51-80	N/A	aspen is regeneration and fully stocked in areas that the canopy is open. under the red and white pine there is no regeneration.																																														
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7	122 - Road/Parking Lot	Nonstocked	1.1	0		No																																															
8	6239 - Mixed Emergent Wetland	Nonstocked	1.7		Unspecified	No																																															



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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**9** 6128 - Lowland Coniferous, Mixed Deciduous Poletimber Well 2.4 95 81-110 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Paper Birch	5	Log/Pole	10		Black Spruce	Low	< 5 feet	Sapling
Black Spruce	30	Pole/Log	8	95	Tag Alder	Low	5 - 10 feet	Tall Shrub
Tamarack	10	Pole/Log	8		Balsam Fir	Low	< 5 feet	Sapling
Quaking Aspen	15	Log/Pole	10					
Balsam Fir	10	Pole/Log	8					
Northern White Cedar	20	Pole/Log	8					
Black Ash	10	Pole	6					

**10** 500 - Water Nonstocked 3.6 No Stream running into Iron River

**11** 4136 - Aspen, Mixed Conifer Sawtimber Well 7.7 86 81-110 N/A Could be harvested. Undivided interest on parcel.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Black Cherry	5	Pole/Log	8		Balsam Fir	High	Variable	Sapling
White Pine	5	Log/XLog	16		Black Spruce	Low	Variable	Sapling
Paper Birch	10	Log/Pole	12					
Quaking Aspen	50	Log	14	86				
Red Maple	5	Log/Pole	12					
White Spruce	5	Log	14					
Northern White Cedar	15	Log/Pole	10					
Sugar Maple	5	Log/Pole	12					

**12** 122 - Road/Parking Lot Nonstocked 1.7 No Christianson Trail which is undivided interest

**13** 6120 - Lowland Cedar Sawtimber Well 22.0 109 51-80 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Paper Birch	5	Log/Pole	10		Balsam Fir	Low	Variable	Sapling
Balsam Fir	10	Log/Pole	10		Black Spruce	Low	Variable	Sapling
Quaking Aspen	15	Log	10		Tag Alder	Medium	5 - 10 feet	Tall Shrub
Black Spruce	15	Pole/Log	8		Tamarack	Low	Variable	Sapling
Northern White Cedar	50	Log/Pole	12	109				
Black Cherry	5	Pole/Log	8					

**14** 122 - Road/Parking Lot Nonstocked 0.8 0 Unspecified No





Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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**15** 6128 - Lowland Coniferous, Mixed Deciduous Poletimber Well 2.4 100 51-80 N/A This is river buffer for the Iron River

Canopy Species	% Cover	Size Class	DBH	Age
Tamarack	10	Log/Pole	10	
Balsam Fir	15	Pole/Log	8	
Red Maple	5	Pole/Log	8	
Black Spruce	20	Pole/Log	8	
Paper Birch	5	Log/Pole	10	20
Black Ash	5	Pole	6	
Quaking Aspen	5	Log	14	
Northern White Cedar	35	Log/Pole	12	100

Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	Low	Variable	Sapling
Tag Alder	Medium	5 - 10 feet	Tall Shrub

**16** 6128 - Lowland Coniferous, Mixed Deciduous Poletimber Well 12.7 50 51-80 N/A cabin present

Canopy Species	% Cover	Size Class	DBH	Age
Yellow Birch	5	Log/Pole	12	
Black Spruce	20	Pole/Log	8	
White Pine	3	Log	14	
Tamarack	2	Log/Pole	10	
Northern White Cedar	20	Log/Pole	12	80
Paper Birch	3	Log/Pole	12	
Balsam Fir	25	Log/Pole	10	50
Red Maple	2	Pole/Log	8	
Black Ash	20	Pole/Log	8	

Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	Low	Variable	Sapling
Tag Alder	Low	Variable	Tall Shrub
Black Spruce	Low	Variable	Sapling

**17** 6139 - Mixed Lowland Forest Sawtimber Well 22.2 76 81-110 N/A

Canopy Species	% Cover	Size Class	DBH	Age
Paper Birch	3	Log/Pole	10	
Black Ash	12	Log/Pole	12	
Yellow Birch	2	Log/Pole	10	
Red Pine	2	Log	16	
White Spruce	15	Log	14	
Quaking Aspen	20	Log	14	76
Black Cherry	3	Pole/Log	8	
Red Maple	13	Log/Pole	10	
White Pine	2	Log	16	
Balsam Fir	20	Log/Pole	10	
Northern White Cedar	3	Log/Pole	10	
Tamarack	5	Log/Pole	10	

Sub-Canopy Species	Density	Avg. Height	Size
Tag Alder	Low	5 - 10 feet	Tall Shrub
White Spruce	Low	Variable	Sapling
Balsam Fir	Low	Variable	Sapling



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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<b>18</b>	4110 - Sugar Maple Association	Sawtimber Well	2.2	85	111-140	N/A																															
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Balsam Fir	10	Pole	8																																		

<b>19</b>	4110 - Sugar Maple Association	Poletimber Well	74.9	95	81-110	N/A	Regen present and lots of deer use.																																													
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<b>21</b>	4130 - Aspen	Sapling Well	11.5	5	Immature	N/A																																					
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size																																			
Balsam Fir	5	Sapling	2		Sugar Maple	Medium	< 5 feet	Sapling																																			
Red Maple	10	Sapling	1		Hazelnut (Spp.)	Medium	5 - 10 feet	Tall Shrub																																			
Quaking Aspen	85	Sapling	1	5																																							

<b>24</b>	710 - Sand, Soil	Nonstocked	2.3			No	
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<b>27</b>	4112 - Maple, Beech, Cherry Association	Sawtimber Well	5.9	95	81-110	N/A																																																							
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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**28** 6128 - Lowland Coniferous, Mixed Deciduous Sawtimber Well 10.8 94 51-80 N/A Along Snipe Lake

Canopy Species	% Cover	Size Class	DBH	Age
Black Spruce	30	Log/Pole	10	94
Northern White Cedar	5	Log/Pole	12	
White Pine	5	Log/XLog	16	
Hemlock	5	Log	14	
Yellow Birch	5	Log/Pole	10	
Black Ash	10	Pole	8	
Balsam Fir	15	Log/Pole	10	
Red Maple	5	Pole	6	
Tamarack	20	Log/Pole	10	

Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	Low	Variable	Sapling

**29** 4110 - Sugar Maple Association Sawtimber Well 11.4 95 81-110 N/A road to snipe lake boat access

Canopy Species	% Cover	Size Class	DBH	Age
Basswood	7	Log/Pole	10	
Yellow Birch	5	Log/Pole	10	
Ironwood	2	Pole	6	
Sugar Maple	83	Log/Pole	10	95
Quaking Aspen	3	Log/Pole	10	

Sub-Canopy Species	Density	Avg. Height	Size
Glossy Buckthorn	Low	< 5 feet	Tall Shrub
Ironwood	Medium	< 5 feet	Sapling

**30** 4130 - Aspen Sapling Well 12.6 17 Immature N/A

Canopy Species	% Cover	Size Class	DBH	Age
Black Cherry	2	Sapling/Pole	4	
Bigtooth Aspen	20	Sapling	2	
White Spruce	5	Sapling/Pole	4	
Quaking Aspen	60	Sapling	2	17
Hemlock	5	Sapling/Pole	4	
Balsam Fir	5	Sapling/Pole	4	
American Elm	3	Sapling/Pole	4	

**31** 4110 - Sugar Maple Association Sawtimber Well 5.5 98 81-110 N/A

Canopy Species	% Cover	Size Class	DBH	Age
Sugar Maple	80	Log/Pole	10	98
Yellow Birch	5	Log/Pole	12	
Hemlock	5	Log	16	
Basswood	10	Log	14	

Sub-Canopy Species	Density	Avg. Height	Size
Ironwood	Low	Variable	Sapling



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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**34** 4199 - Other Mixed Upland Deciduous Sawtimber Well 8.3 96 51-80 N/A unidv interest.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	2	Pole/Log	8		Hazelnut (American)	Low	< 5 feet	Tall Shrub
Red Maple	5	Pole/Log	8		Japanese Barberry	Medium	< 5 feet	Tall Shrub
Black Ash	2	Pole/Log	8		Glossy Buckthorn	Medium	< 5 feet	Tall Shrub
Sugar Maple	10	Pole/Log	8		Choke Cherry	Low	Variable	Sapling
White Spruce	2	Log/Pole	10					
Basswood	5	Log/Pole	10					
Black Cherry	30	Pole/Sapling	6	96				
Quaking Aspen	20	Log	14					
Paper Birch	10	Log/Pole	12					
Apple (sp.)	2	Pole	8					
Balsam Poplar	5	Pole/Log	8					
American Elm	2	Log	10					
Northern White Cedar	5	Log/Pole	10					

**35** 6229 - Mixed lowland shrub Nonstocked 2.3 No

**36** 500 - Water Nonstocked 3.2 No Iron River

**37** 42340 - Upland Spruce/Fir Poletimber Well 10.1 36 81-110 N/A Buffer along Iron River

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Black Cherry	5	Pole	6		Honeysuckle (sp.)	Low	Variable	Tall Shrub
Hemlock	5	Log/Pole	10		White Spruce	Low	Variable	Sapling
Quaking Aspen	10	Log	12		White Pine	Low	Variable	Sapling
Balsam Fir	30	Pole	6		Japanese Barberry	Low	Variable	Tall Shrub
White Spruce	35	Pole	6	36	Balsam Fir	Low	Variable	Sapling
American Elm	5	Log/Pole	10		Glossy Buckthorn	Medium	Variable	Tall Shrub
Northern White Cedar	10	Pole	8					

**38** 4130 - Aspen Sapling Well 20.6 16 Immature N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen	80	Sapling	2	16	Japanese Barberry	Medium	Variable	Tall Shrub
Balsam Fir	10	Pole/Sapling	6		Glossy Buckthorn	High	Variable	Tall Shrub
Black Cherry	5	Pole/Sapling	6					
White Spruce	5	Pole/Sapling	6					

This stand was cut and the buckthorn that inundated the stand was cut also, and has sprouted with a vengeance because it was not treated as was originally planned. The aspen has been regenerated and it will be interesting to see what happens.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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**39** 6128 - Lowland Coniferous, Mixed Deciduous Sawtimber Well 3.0 92 51-80 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Tamarack	10	Log/Pole	10		Balsam Fir	Low	Variable	Sapling
Red Maple	5	Pole/Log	8		Tag Alder	Low	5 - 10 feet	Tall Shrub
Paper Birch	3	Log/Pole	10		Black Spruce	Low	Variable	Sapling
Quaking Aspen	10	Log/Pole	10					
Northern White Cedar	35	Log/Pole	10	92				
Balsam Fir	20	Log/Pole	10					
American Elm	2	Log/Pole	10					
Black Spruce	15	Pole/Log	8					

**40** 6229 - Mixed lowland shrub Nonstocked 2.7 No has Iron river running through

**41** 6128 - Lowland Coniferous, Mixed Deciduous Sawtimber Well 21.5 79 81-110 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Tamarack	10	Log/Pole	10		Balsam Fir	Low	Variable	Sapling
Quaking Aspen	25	Log	14		Tag Alder	Medium	5 - 10 feet	Tall Shrub
Balsam Fir	15	Log/Pole	10		Black Spruce	Low	Variable	Sapling
Northern White Cedar	35	Log/Pole	10	79				
Black Spruce	10	Log/Pole	10					
Paper Birch	5	Log/Pole	10					

**42** 500 - Water Nonstocked 2.3 No Iron River

**43** 4130 - Aspen Poletimber Well 6.1 41 51-80 N/A Aspen stand with a few conifers and Buckthorn mixed in.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Black Cherry	2	Pole/Sapling	5		Balsam Fir	Low	Variable	Sapling
Quaking Aspen	90	Pole/Sapling	5	41	Glossy Buckthorn	Full	Variable	Tall Shrub
Balsam Fir	8	Pole/Sapling	5					

**44** 6124 - Lowland Spruce-Fir Poletimber Well 3.1 83 51-80 N/A Buffer between the Iron River and the recreation grade

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Black Spruce	30	Pole	8	83	Tag Alder	Medium	5 - 10 feet	Tall Shrub
Paper Birch	10	Log/Pole	10					
Quaking Aspen	15	Log	14					
Balsam Fir	30	Pole	6					
White Spruce	5	Log	10					
Northern White Cedar	10	Log	14					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																									
45	122 - Road/Parking Lot	Nonstocked	4.3			No	Trail																									
49	4130 - Aspen	Sawtimber Well	3.3	60	81-110	N/A																										
<table border="1"> <thead> <tr> <th>Canopy Species</th> <th>% Cover</th> <th>Size Class</th> <th>DBH</th> <th>Age</th> </tr> </thead> <tbody> <tr> <td>White Spruce</td> <td>5</td> <td>Pole</td> <td>6</td> <td></td> </tr> <tr> <td>Quaking Aspen</td> <td>85</td> <td>Log</td> <td>14</td> <td>60</td> </tr> <tr> <td>Black Cherry</td> <td>5</td> <td>Pole</td> <td>6</td> <td></td> </tr> <tr> <td>Red Maple</td> <td>5</td> <td>Pole</td> <td>6</td> <td></td> </tr> </tbody> </table>								Canopy Species	% Cover	Size Class	DBH	Age	White Spruce	5	Pole	6		Quaking Aspen	85	Log	14	60	Black Cherry	5	Pole	6		Red Maple	5	Pole	6	
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51	6229 - Mixed lowland shrub	Nonstocked	11.8			No																										
52	6225 - Bog	Nonstocked	4.0		Immature	No																										
54	6224 - Treed Bog	Nonstocked	8.7		Immature	No	There is heavy deer use here.																									