



Compartment Review Presentation

Crystal Falls Forest Management Unit

Compartment 12130

Entry Year 2026

Acreage: 2,047

County Iron

Management Area: Way Dam Complex

Stand Examiner: Eric Brolin

Legal Description:

T45N, R34W, Sec. 4, 5, 9; T46N, R34W, Sec. 18-22, 27, 28, 32 & 33

Identified Planning Goals:

This is not contiguous ownership but mostly surrounded by industrial land so is accessible. It is a deeryard and highly used by deer and hunters. It has a large component of hardwood and a mixture of swamp and conifer (spruce and balsam) stands. Most parcels are accessible due to harvesting both by us and others. A continuous harvest of hardwood mixed with occasional aspen or conifer stands is the goal.

Soil and topography:

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

As mentioned above, this is broken ownership but is accessible and harvestable. We do have some easements and good relationships with industry in this area. This is a fairly remote area but during deer hunting season has much activity. Cable lake has a fishing access and is used a fair amount.

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:

The Compartment is a deer yard.

Watershed and Fisheries Considerations:

Wildlife Habitat Considerations:

This compartment lies in the heart of the Cable Lake-Porter Lake Deer wintering complex. Much of this compartment has been harvested in the last 35 years and much of the thermal cover was removed. It is critical to keep the conifer in the upland and lowlands and to offer some relief in transition zones from snowfall. Hemlock and Cedar are the most valuable tree species for providing excellent winter cover for deer. Hardwood stands that have a pine or hemlock component should be protected.

Mineral Resource and Development Concerns and/or Restrictions

Surface sediments consist of an end moraine of coarse-textured till. There is insufficient data to determine the glacial drift thickness. The Precambrian Michigamme Formation subcrops below the glacial drift. The Michigamme does not have a current economic use. Abandoned iron mines are located ten miles to the southeast. This compartment was not previously leased for metallic exploration, but potential may exist. Gravel pits are located in this area and there is good potential. There is no economic oil and gas production in the UP.

Vehicle Access:

As mentioned, we have easements to some areas and there is a road system in this compartment largely due to industry but gives access to our land also. Fair gravel roads go throughout, and fair to good dirt roads give access also.

Survey Needs:

Because of the scattered parcels there will probably be a need for some survey use.

Recreational Facilities and Opportunities:

The Cable Lake Boat landing is in this compartment.

Fire Protection:

Even though these parcels are scattered the road systems that are due to others, mostly, present good access should there be a fire.

Additional Compartment Information:

Moose and wolves have been seen in this compartment along with deer etc.

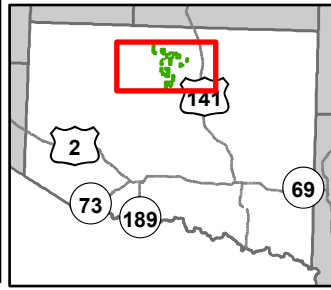
The following reports from the Inventory are attached:

- 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**

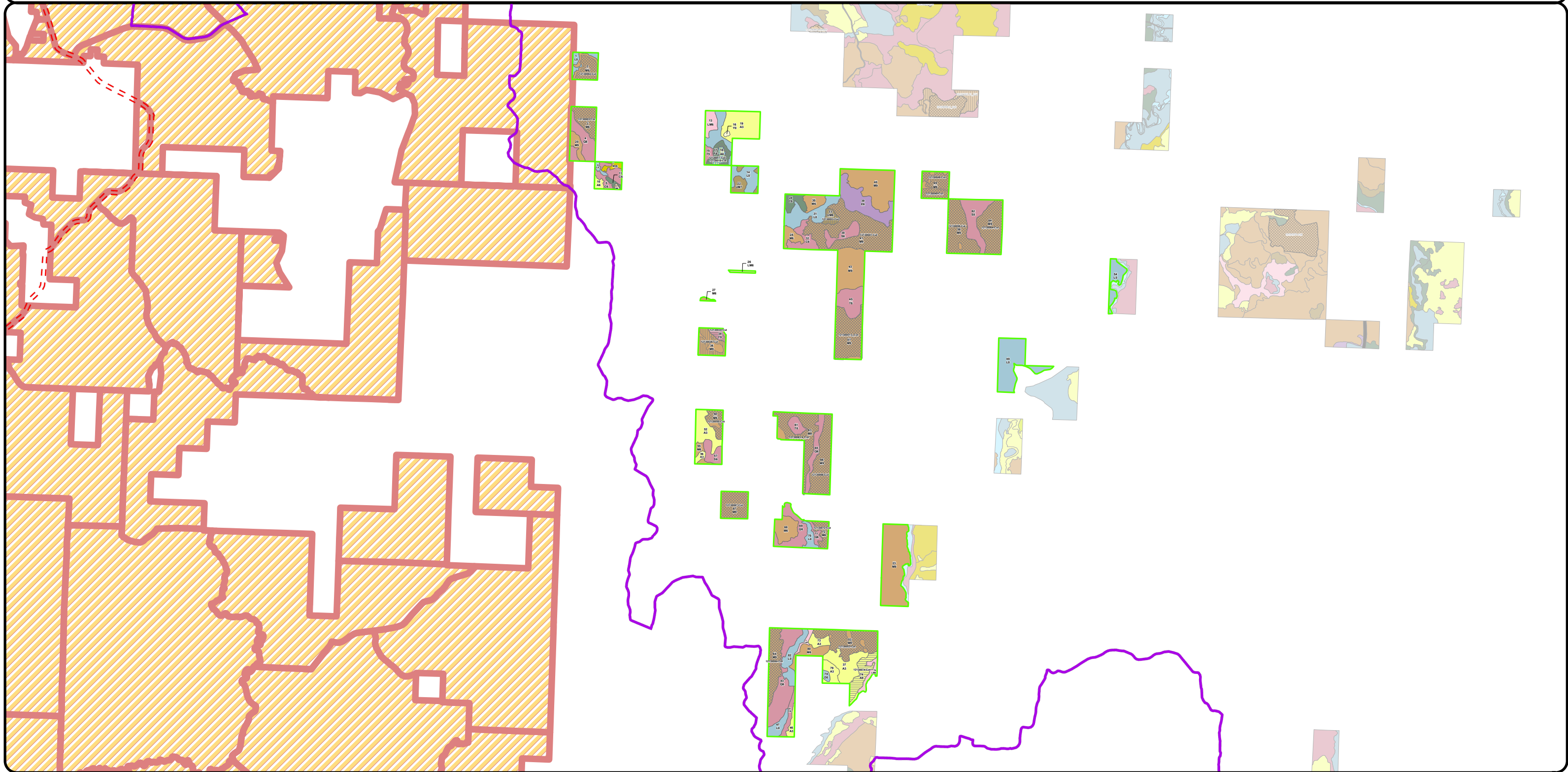
Cover Type & Treatments Map



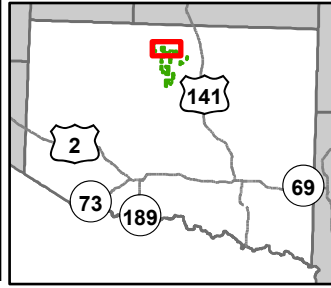
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 YOE: 2026
 Acres: 2047.5 GIS Calculated
 Examiner: Eric Brolin
 Map Revised: 04/15/2024
 Map Phase: Web Post



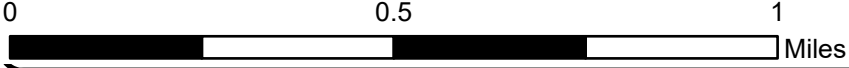
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|----------------------------------|------------------------------|---------------------------------|
| == Designated ORV Routes | Shelter Wood (w/Reserves) | 611 - Lowland Deciduous Forest |
| — Designated Snowmobile Trails | 411 - Northern Hardwood | 612 - Lowland Coniferous Forest |
| □ Compartment Boundary | 413 - Aspen Types | 613 - Lowland Mixed Forest |
| ▨ Selection (Group, Single Tree) | 419 - Mixed Upland Deciduous | 622 - Lowland Shrub |
| ▨ Clearcut (w/Reserves) | 423 - Other Upland Conifers | 710 - Sand/Soil |
| ▨ Seed Tree (w/Reserves) | 430 - Upland Mixed Forest | |



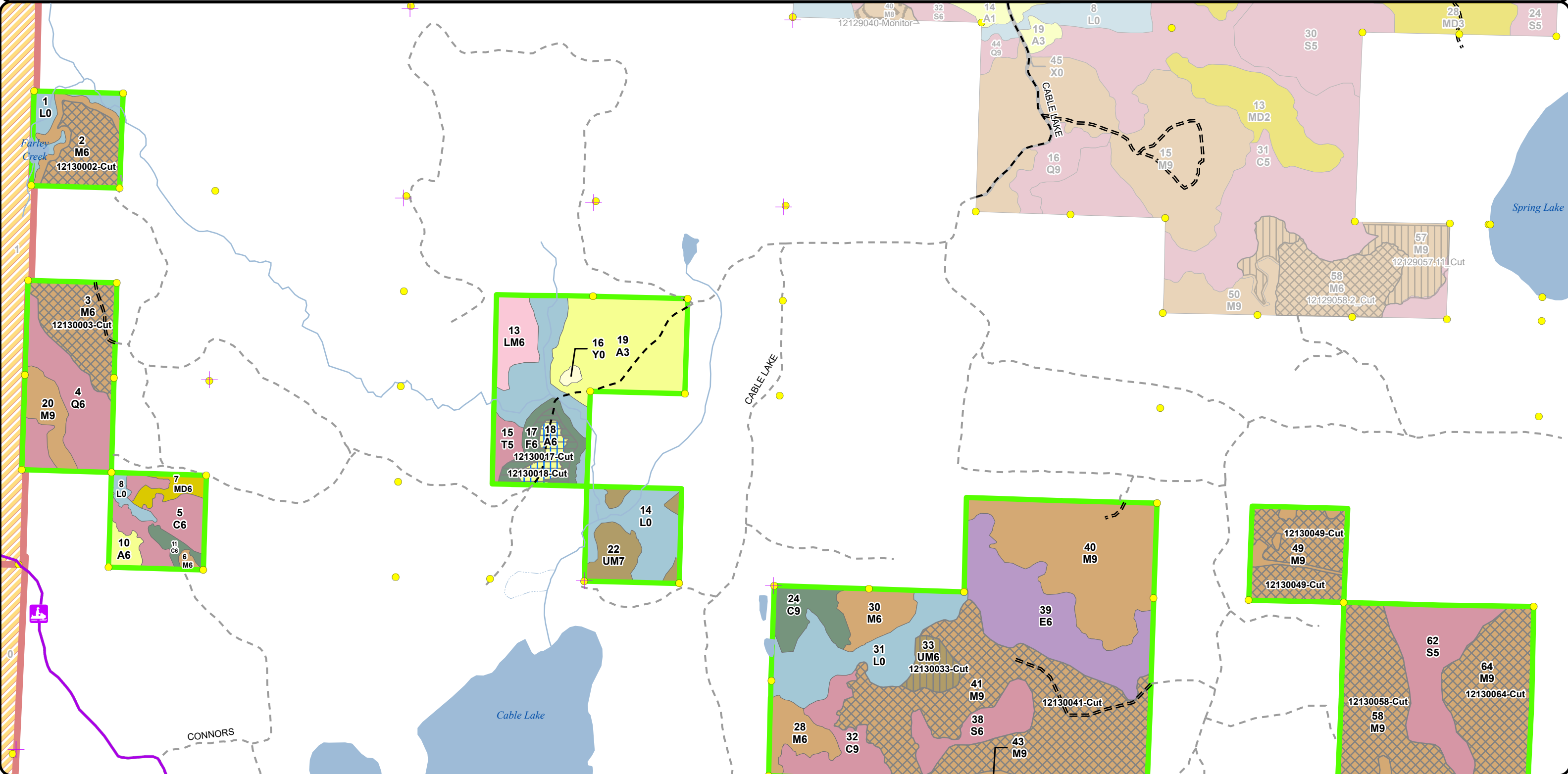
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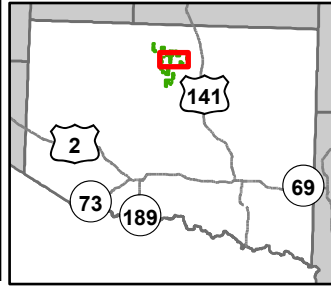
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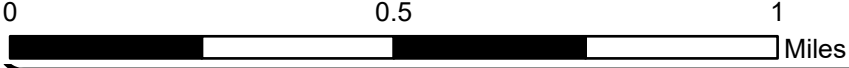
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|--|----------------------------------|--------------------------------|-----------------------------------|
| ● Survey Grade Corners | — Intermittent Stream | ▨ Clearcut (w/Reserves) | ■ 430 - Upland Mixed Forest |
| ✚ Remonumented Section Corners | — Lake/Pond | ▩ Seed Tree (w/Reserves) | ■ 611 - Lowland Deciduous Forest |
| 🚙 Snowmobile Trails | — Perennial River | ▨ Shelter Wood (w/Reserves) | ■ 612 - Lowland Coniferous Forest |
| — Designated Snowmobile Trails | ■ Lakes and Rivers | ■ 411 - Northern Hardwood | ■ 613 - Lowland Mixed Forest |
| == DNR - Forest Access Route | ▭ Compartment Boundary | ■ 413 - Aspen Types | ■ 622 - Lowland Shrub |
| - - - Federal / State - Dirt / Gravel Road | ▭ Counties | ■ 419 - Mixed Upland Deciduous | ■ 710 - Sand/Soil |
| - - - Private - Dirt / Gravel Road | ▨ Selection (Group, Single Tree) | ■ 423 - Other Upland Conifers | |



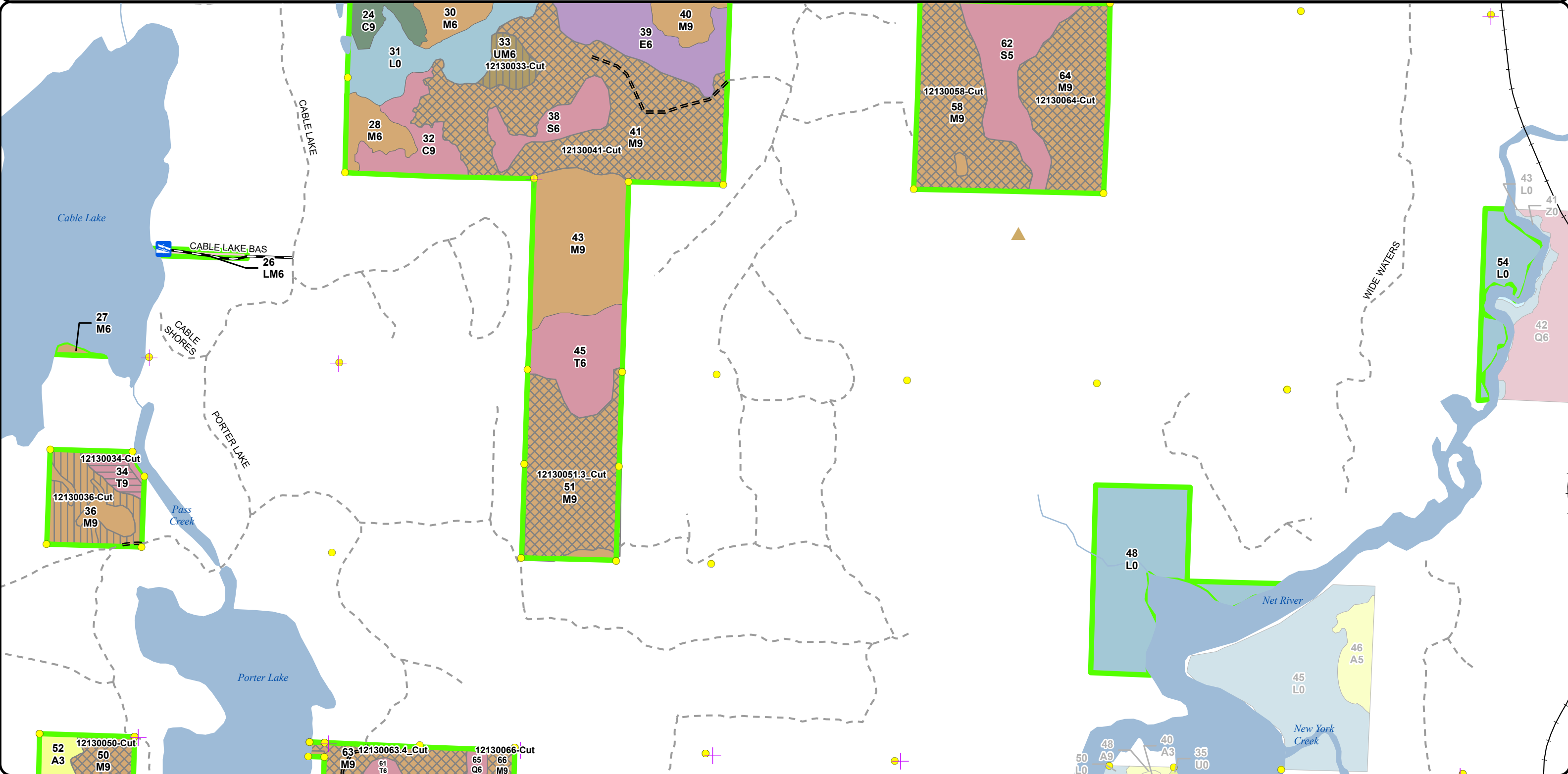
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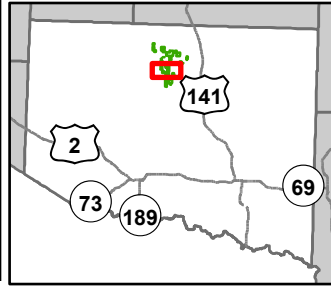
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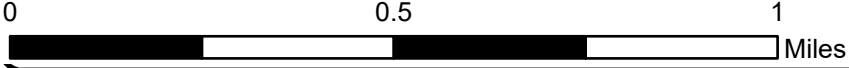
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| Berms | DNR - Forest Access Route | Compartment Boundary | 423 - Other Upland Conifers |
| Boating Access Site | Private - Dirt / Gravel Road | Counties | 430 - Upland Mixed Forest |
| Survey Grade Corners | Active Railroads | Selection (Group, Single Tree) | 611 - Lowland Deciduous Forest |
| Remonumented Section Corners | Island in Lake or River | Clearcut (w/Reserves) | 612 - Lowland Coniferous Forest |
| DNR - Primary Forest Road | Lake/Pond | Shelter Wood (w/Reserves) | 613 - Lowland Mixed Forest |
| DNR - Secondary Forest Road | Perennial River | 411 - Northern Hardwood | 622 - Lowland Shrub |
| | Lakes and Rivers | 413 - Aspen Types | |



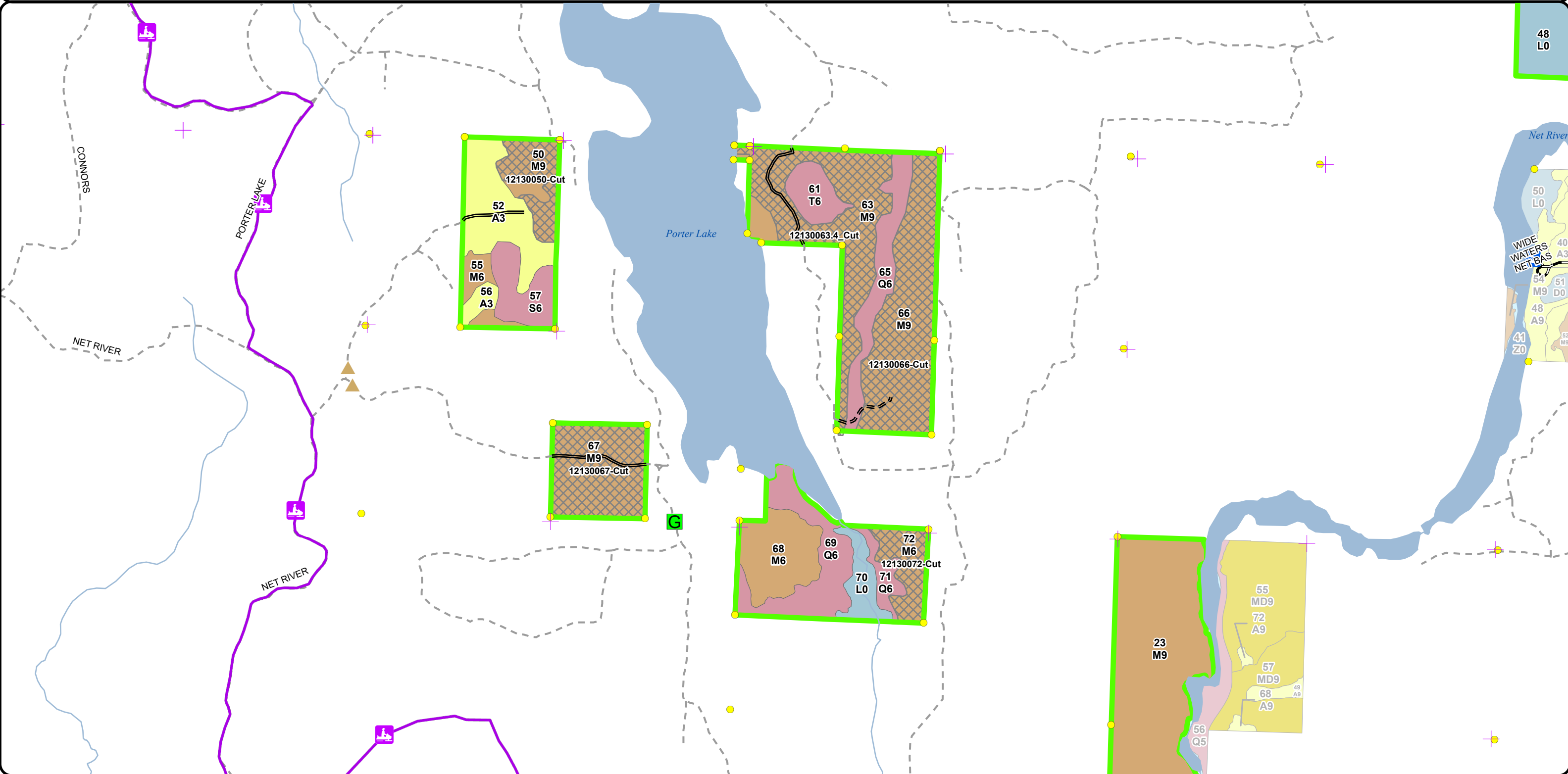
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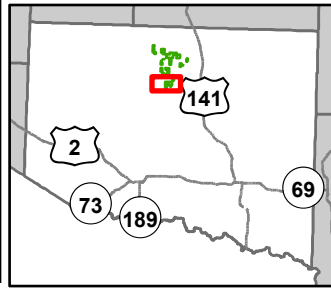
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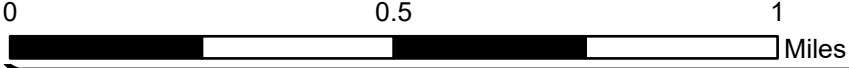
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| Berms | Snowmobile Trails | Private - Dirt / Gravel Road | Selection (Group, Single Tree) |
| Gate | Designated Snowmobile Trails | Lake/Pond | 411 - Northern Hardwood |
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| | | Counties | |



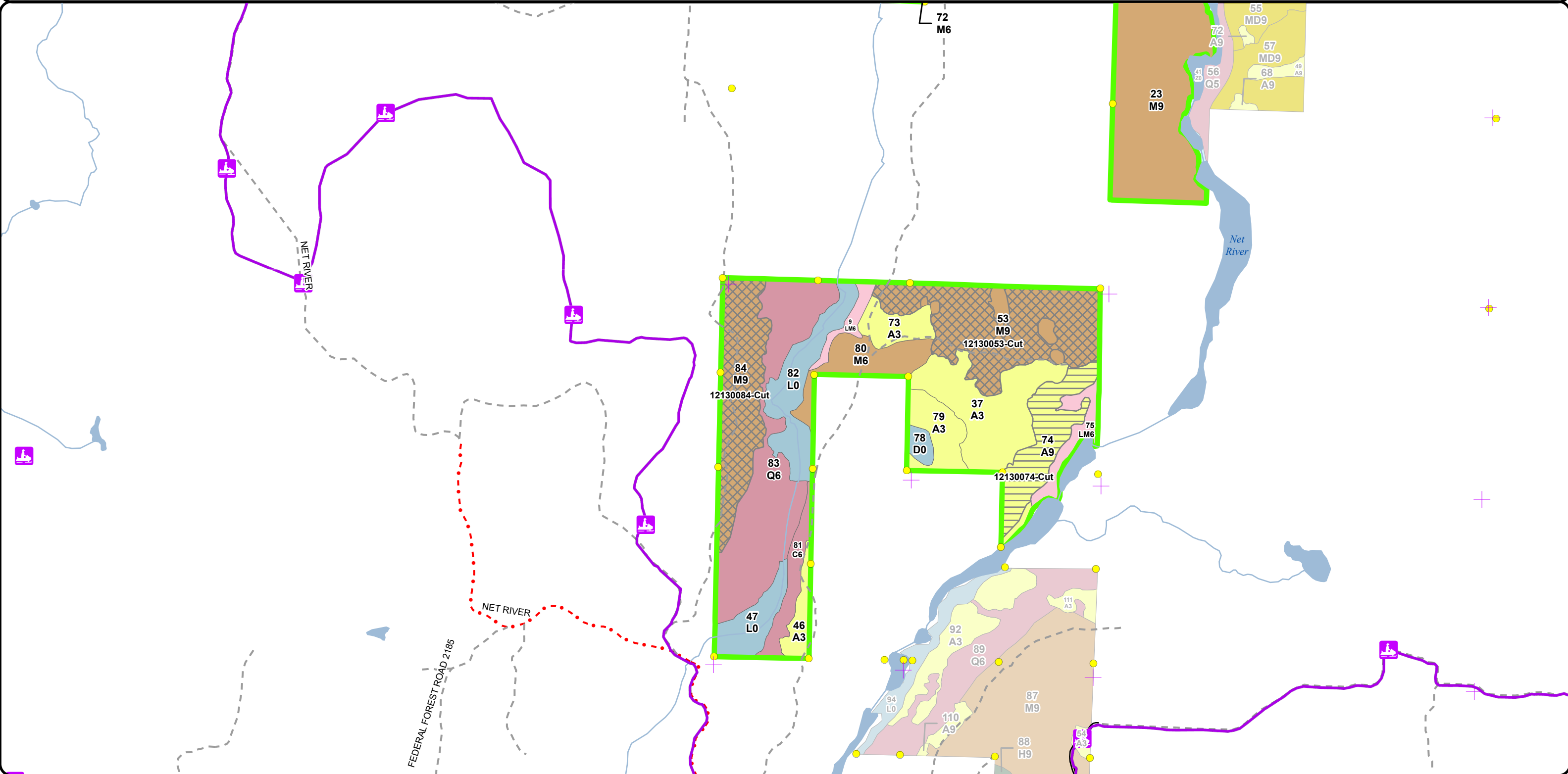
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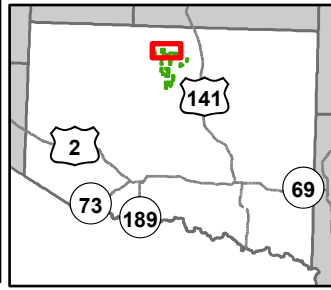
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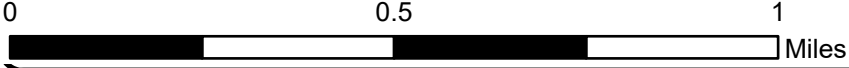
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| — DNR - Secondary Forest Road | ▭ Counties | ■ 622 - Lowland Shrub |
| — County - Gravel Road | ▭ Selection (Group, Single Tree) | |
| — Private - Dirt / Gravel Road | ▭ Clearcut (w/Reserves) | |



Stand Boundary Map



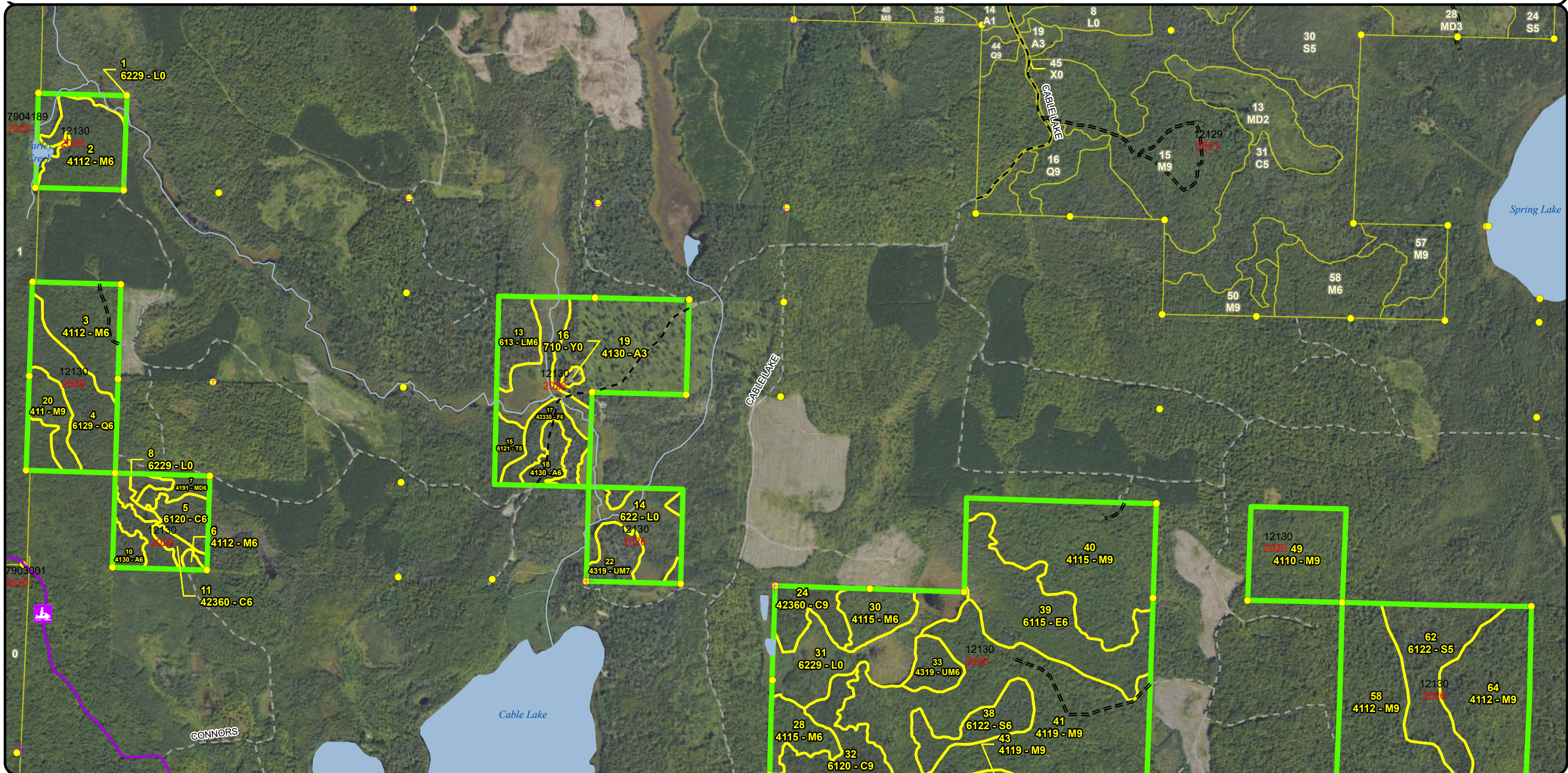
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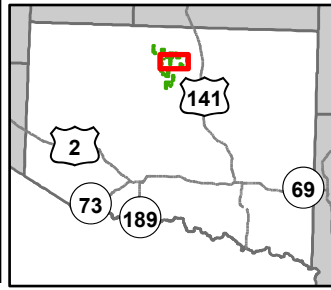
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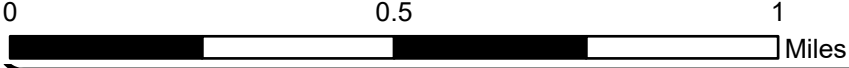
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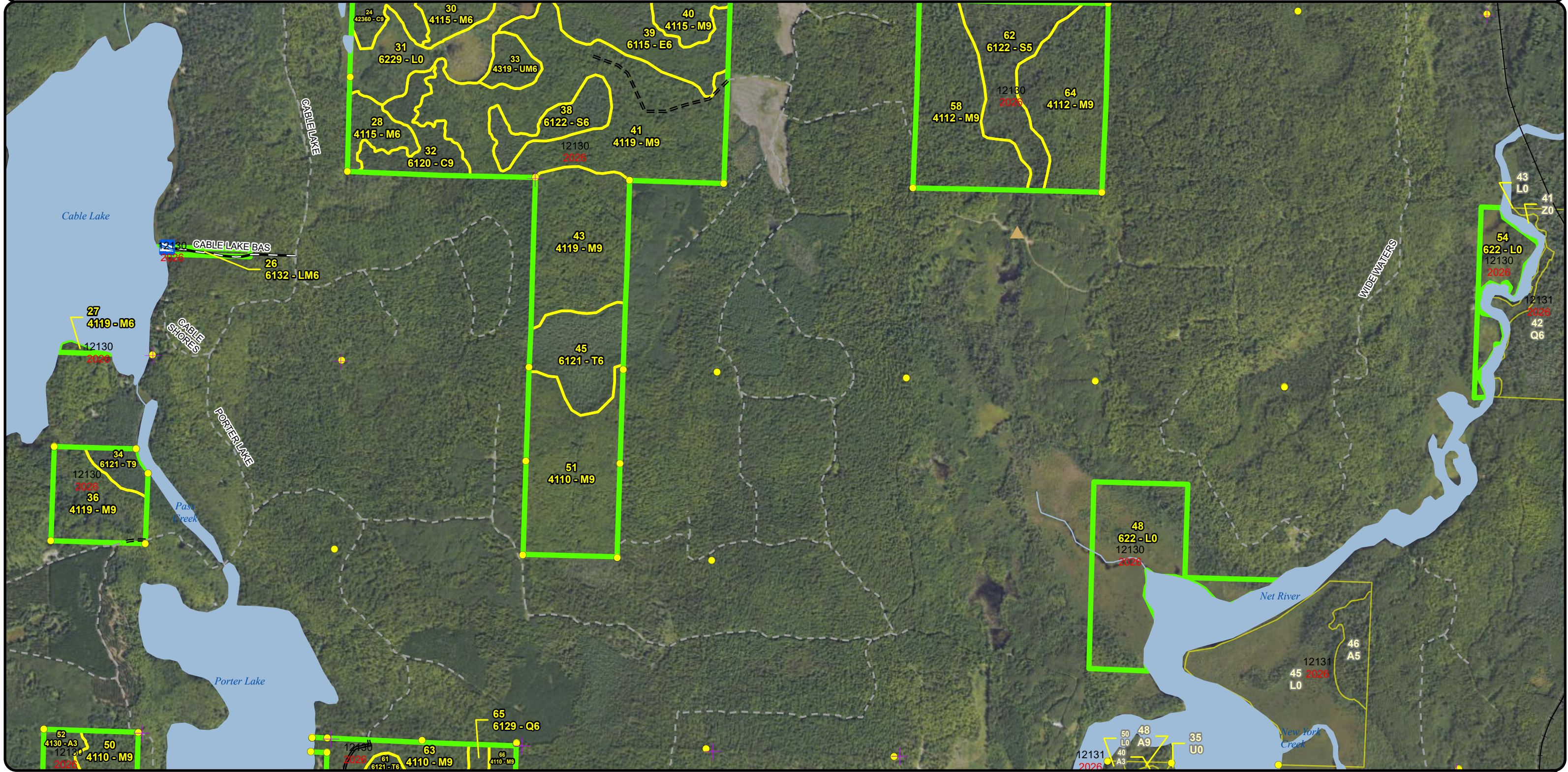
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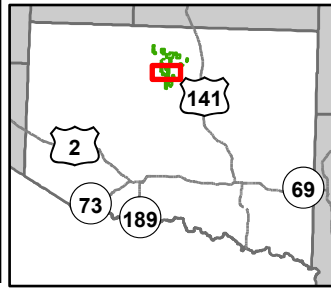
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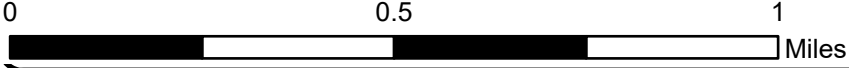
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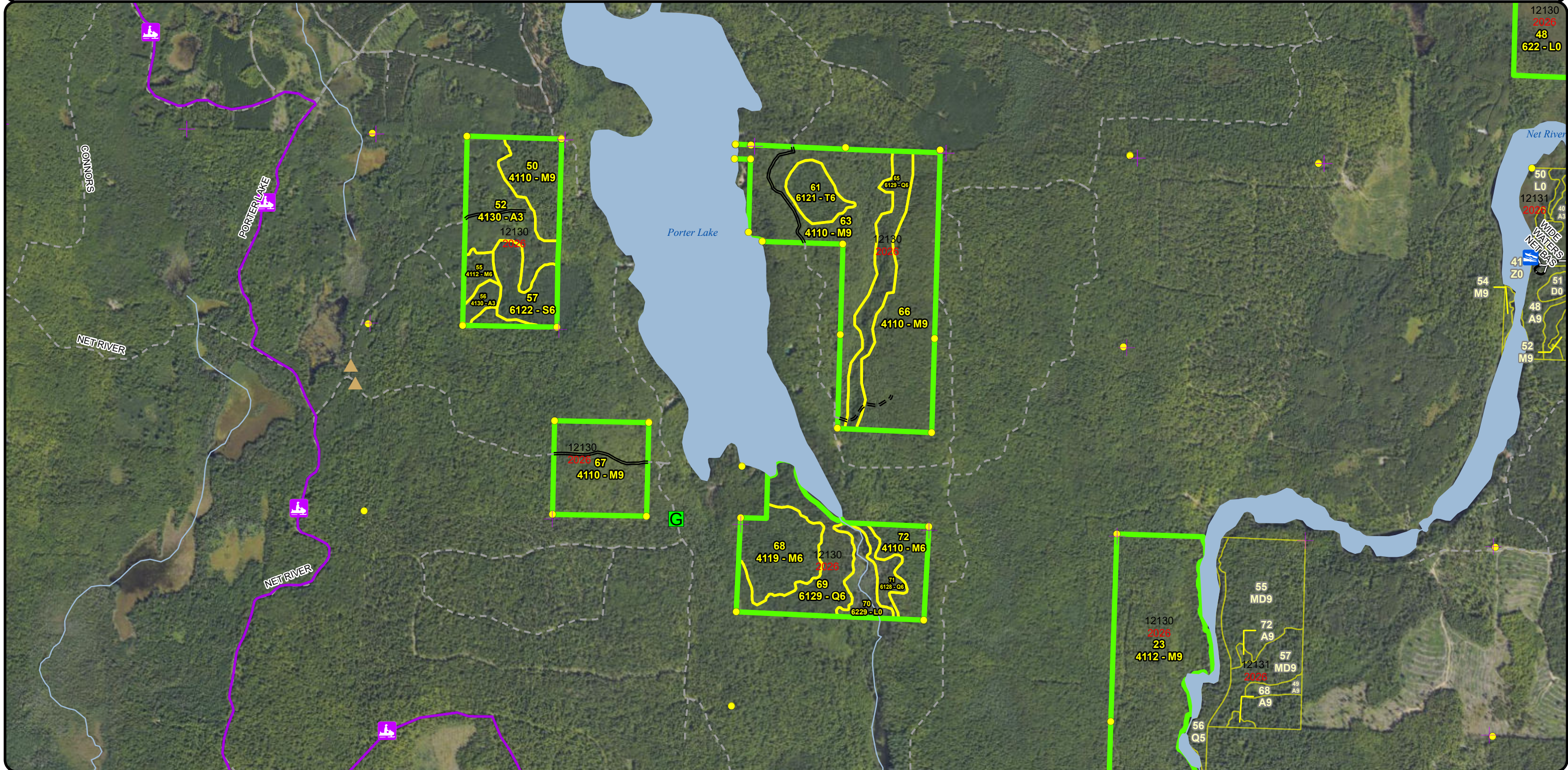
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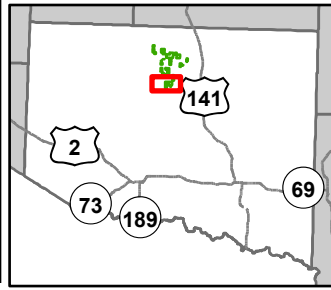
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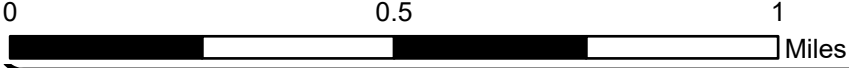
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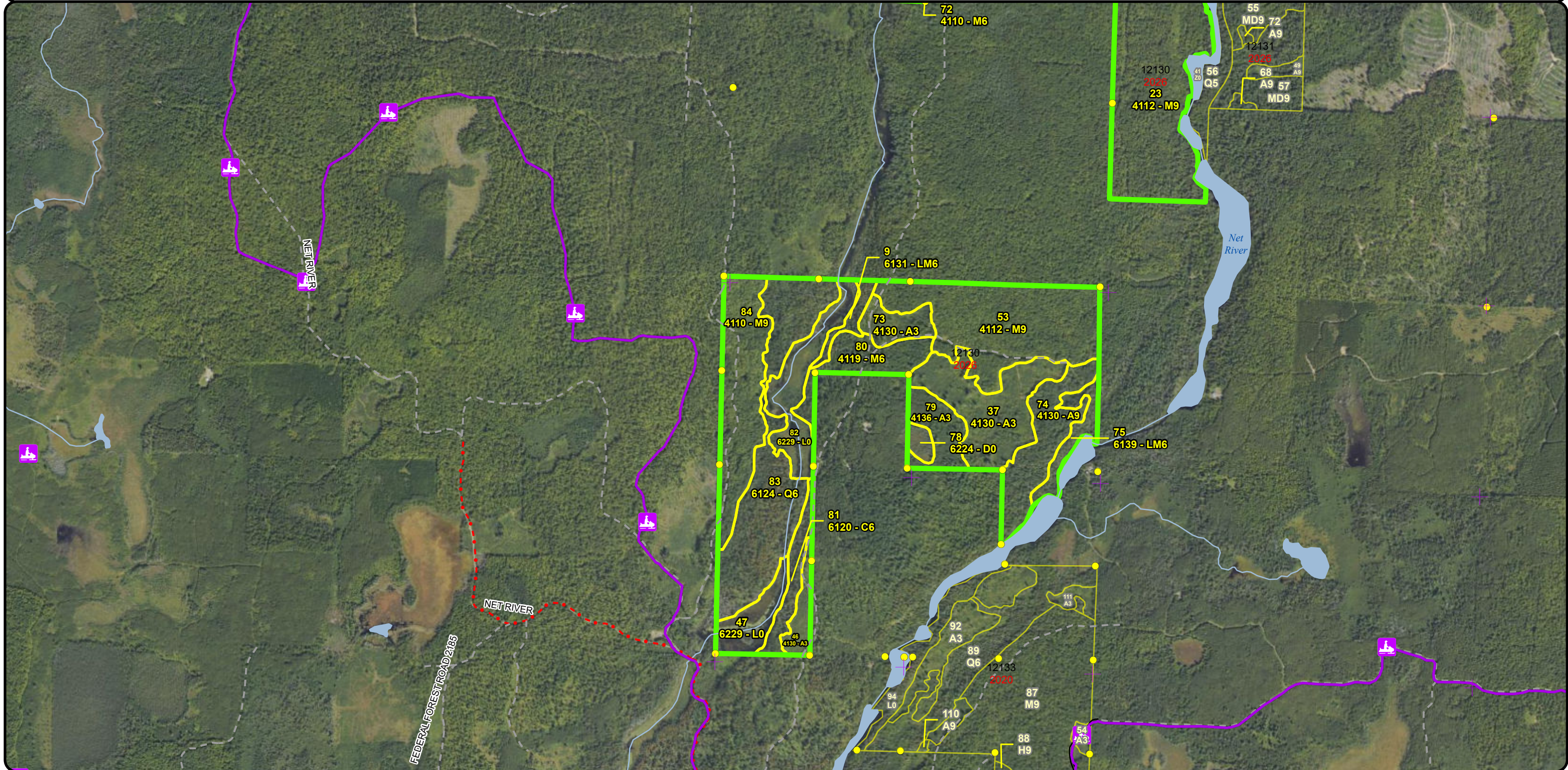
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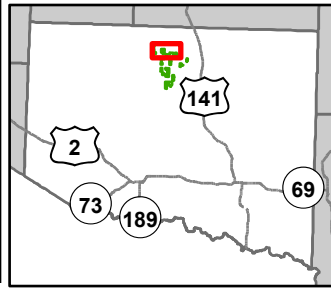
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Special Conservation Areas & Site Conditions Map

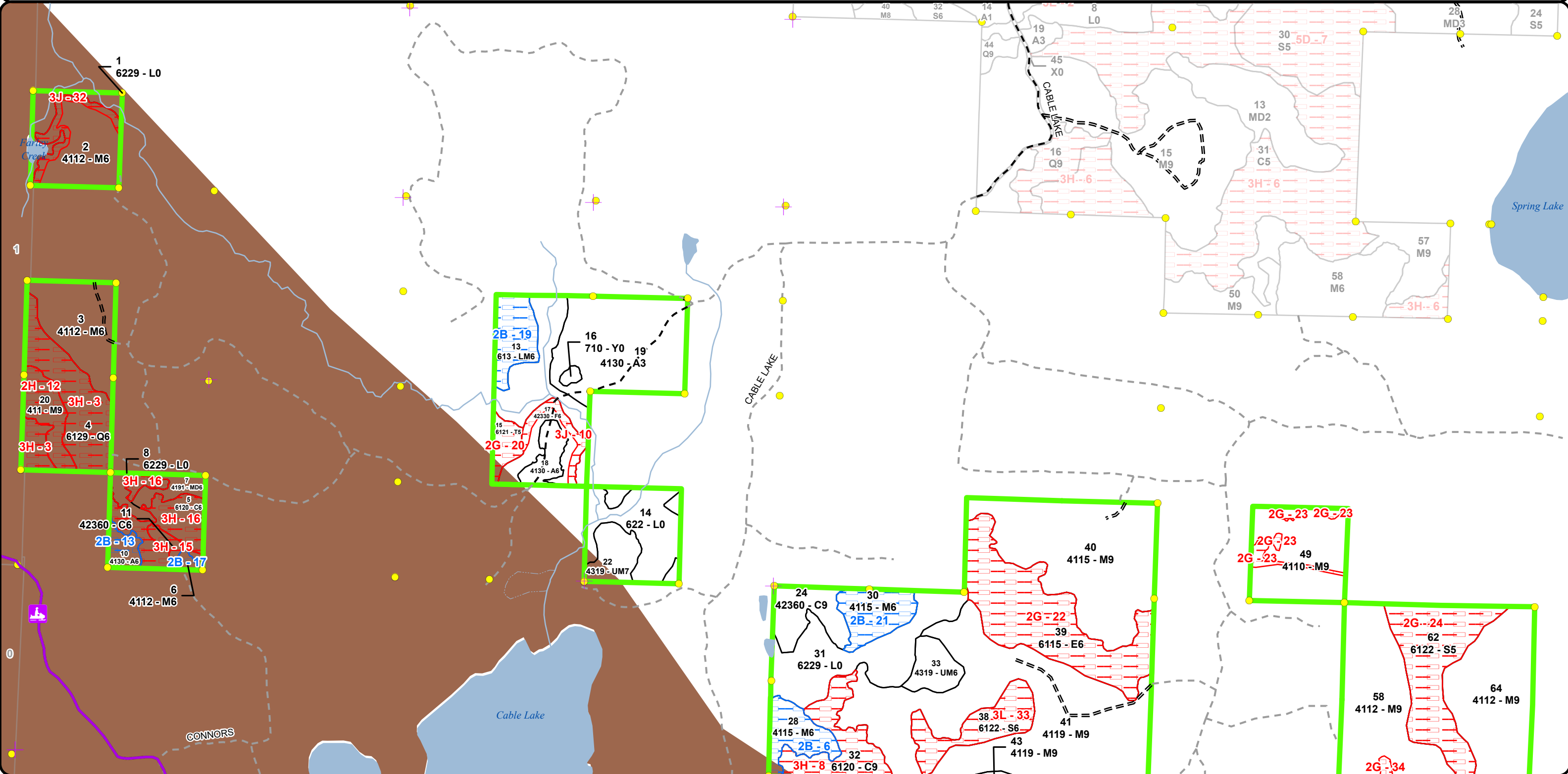
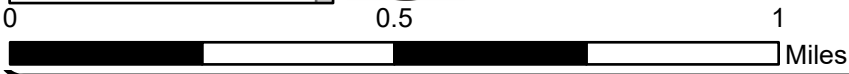


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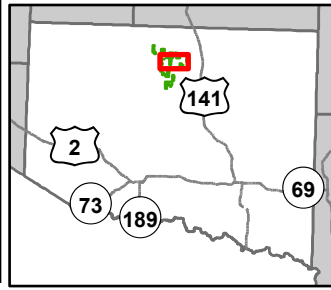
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- Intermittent Stream
- Lake/Pond
- Perennial River
- Lakes and Rivers
- Compartment Boundary
- Counties
- Available w/ Constraints

- Unavailable
- 2G: Too wet (sensitive soils, does not include access issues)
- 2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)
- 3J: Water quality / BMPs (stream, river, or lake)
- 3L: Other wildlife concerns
- Stand Boundaries
- Deer Winter Range



Special Conservation Areas & Site Conditions Map

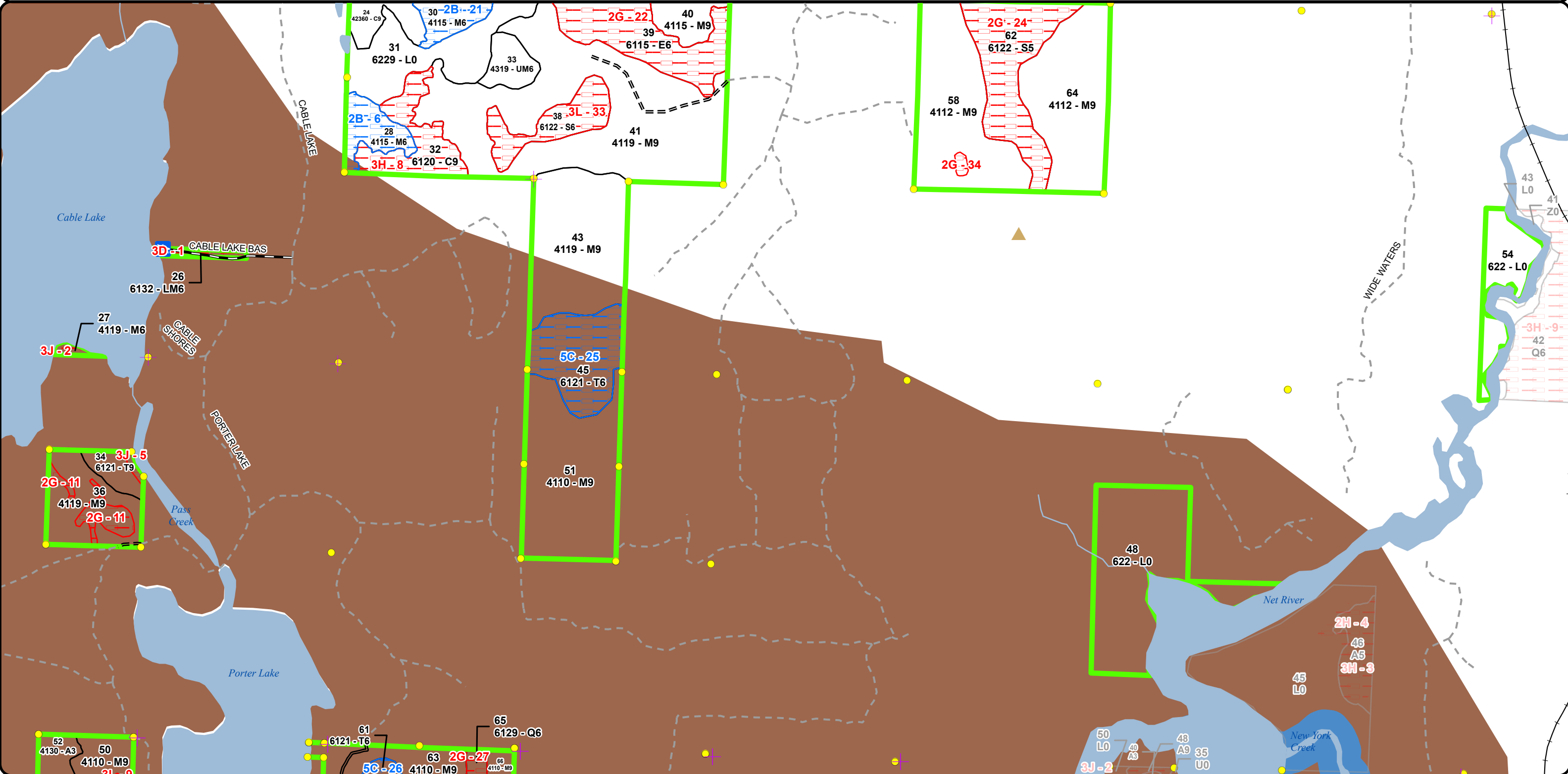
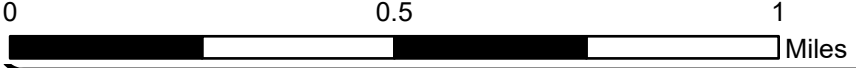


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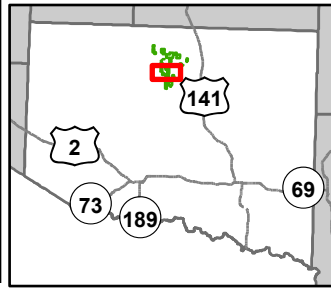
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- Lakes and Rivers
- Compartment Boundary
- Counties
- Available w/ Constraints
- Unavailable

- 5C: Delay treatment for age/size class diversity or exceptional site quality
- 2G: Too wet (sensitive soils, does not include access issues)
- 3D: Recreational / Scenic values
- 3J: Water quality / BMPs (stream, river, or lake)
- 3L: Other wildlife concerns
- Stand Boundaries
- Cold Water Streams
- High Priority Trout Stream Buffer
- Deer Winter Range



**Special Conservation Areas
& Site Conditions Map**



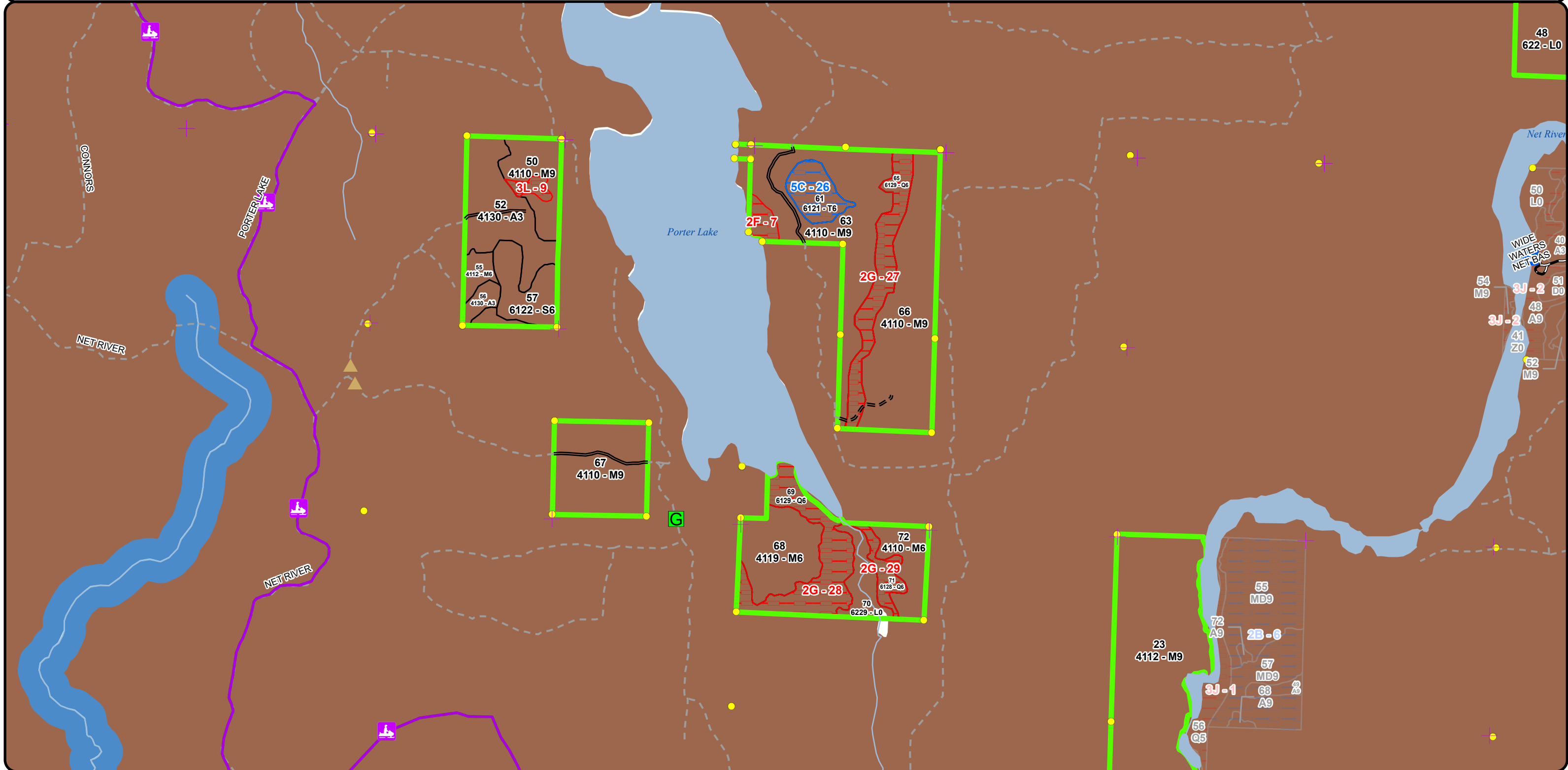
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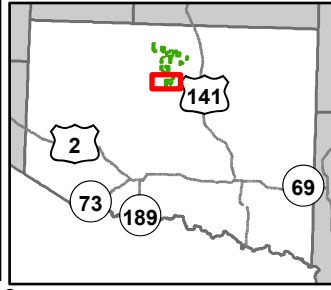
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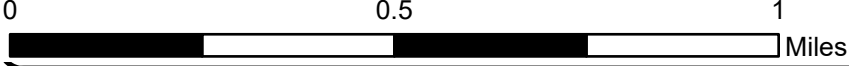
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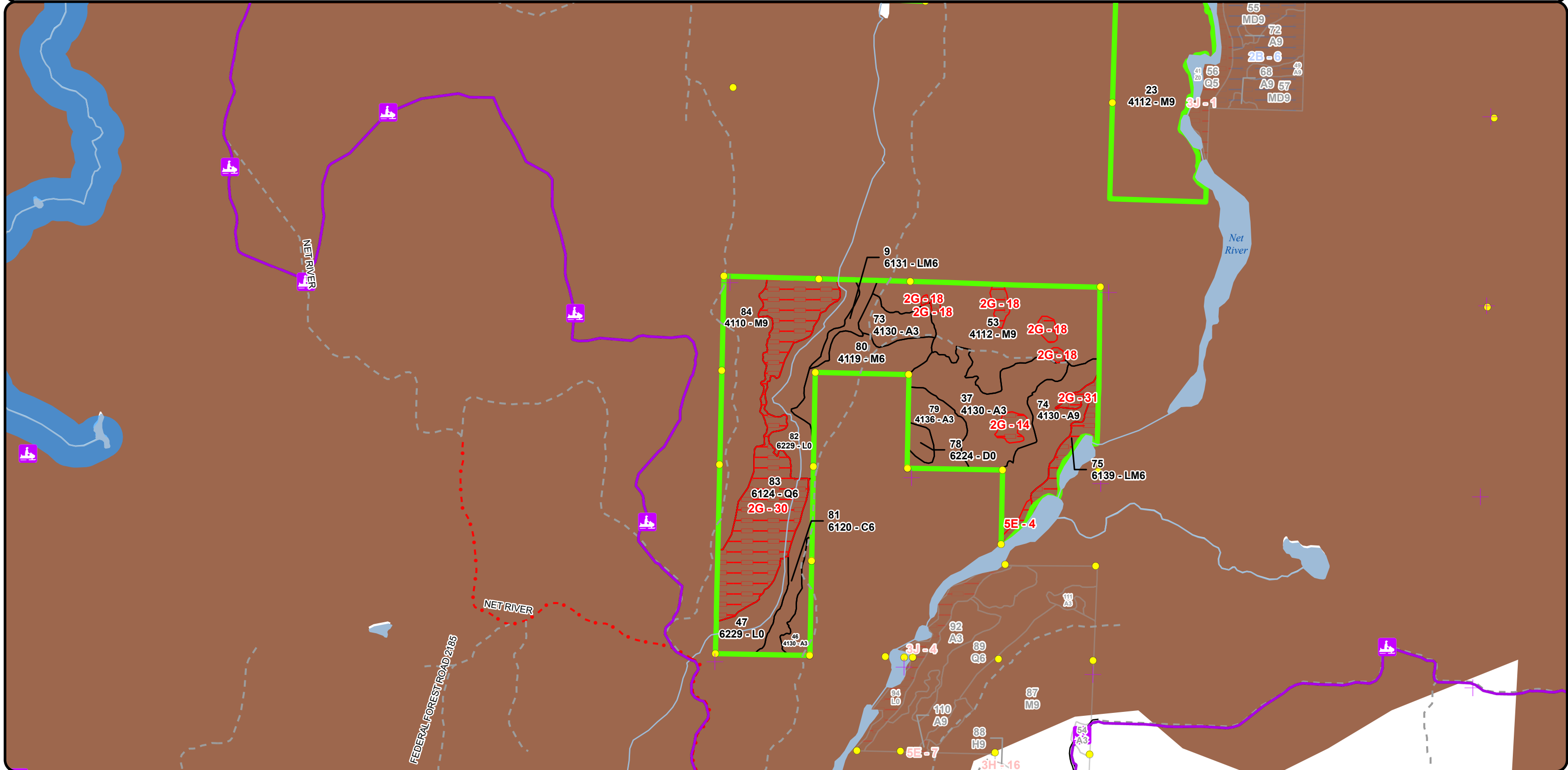


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- Compartment Boundary
- Counties
- Unavailable

- 5E: Long-Term Retention
- Stand Boundaries
- Cold Water Streams
- High Priority Trout Stream Buffer
- Deer Winter Range

2G: Too wet (sensitive soils, does not include access issues)



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	112	36	14	0	0	8	0	34	0	0	0	0	0	0	0	0	0	204
Cedar	0	0	0	0	0	0	0	0	0	0	73	0	0	0	0	0	0	0	72
Lowland Conifers	0	0	0	0	0	0	0	0	0	37	56	63	0	0	0	0	0	0	156
Lowland Deciduous	0	0	0	0	0	0	0	0	0	0	57	0	0	0	0	0	0	0	57
Lowland Mixed Forest	0	0	0	0	0	0	0	0	0	14	15	3	0	0	0	0	0	0	32
Lowland Shrub	245	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	245
Lowland Spruce/Fir	0	0	0	0	0	0	0	0	17	0	61	0	0	0	0	0	0	0	78
Mixed Upland Deciduous	0	0	0	0	0	0	0	0	6	0	0	0	0	0	0	0	0	0	6
Northern Hardwood	0	0	0	0	0	0	0	0	19	126	841	0	0	0	0	0	0	108	1094
Sand, Soil	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Tamarack	0	0	0	0	0	0	0	0	0	17	42	0	0	0	0	0	0	0	59
Treed Bog	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
Upland Mixed Forest	0	0	0	0	0	0	0	0	10	15	0	0	0	0	0	0	0	0	25
Upland Spruce/Fir	0	0	0	0	0	0	0	14	0	0	0	0	0	0	0	0	0	0	14
Total	250	112	36	14	0	0	8	14	86	209	1145	66	0	0	0	0	0	108	2047



Report 2 – Treatment Summary

Crystal Falls Mgt. Unit
Year of Entry: 2026

Acres of Harvest

Compartment 130
Total Compartment Acres: 2,047

Commercial Harvest - 775
Harvests with Site Condition - 0
Next Step Harvest - 0
Habitat Cut - 0

Cover Type by Harvest Method

	Clearcut	Selection	Patch Clearcut	Seed Tree	Shelterwood	Thinning	Overstory Removal	Salvage	Other	Total Acres
Aspen	27	0	0	8	0	0	0	0	0	35
Northern Hardwood	0	692	0	0	23	0	0	0	0	715
Tamarack	7	0	0	0	0	0	0	0	0	7
Upland Mixed Forest	0	0	0	0	10	0	0	0	0	10
Upland Spruce/Fir	8	0	0	0	0	0	0	0	0	8
Total	42	692	0	8	33	0	0	0	0	775

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	775	0	0	0	0	0	0	0	0	775
Next Step	0	0	0	0	0	0	775	0	0	775
Total	775	0	0	0	0	0	775	0	0	1549



Stand Name	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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Proposed Treatments:

2	12130002-Cut	21.4	4112 - Maple, Beech, Cherry Association	Poletimber Well	90	111-140	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven-Aged	No
<p><u>Prescription Specs:</u> Mark stand to 60 - 80 BA. Focus on improving quality, releasing crop trees, and re-open or create canopy gaps to encourage northern hardwood regeneration. Remove all merchantable balsam fir. Leave some large future snag trees for wildlife. Leave cedar, hemlock, pine, and white spruce if present. Leave at least one birch and black cherry per acre while marking. Favor species diversity while marking.</p> <p><u>Next Step Treatments:</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Acceptable Regen:</u> Any combination of the original stands overstory species prior to harvest.</p> <p><u>Other Comment:</u> Thin a bit heavier to encourage new hardwood regeneration which is lacking at this time. Winter cutting spec for deer wintering area.</p> <p><u>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /2025</p>											
3	12130003-Cut	28.9	4112 - Maple, Beech, Cherry Association	Poletimber Well	90	111-140	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven-Aged	No
<p><u>Prescription Specs:</u> Mark stand to 70 - 90 BA. Focus on improving quality and re-open or create canopy gaps to encourage northern hardwood regeneration and success. Leave some large future snag trees for wildlife. Leave all conifer and birch. Favor species diversity while marking.</p> <p><u>Next Step Treatments:</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Acceptable Regen:</u> Any combination of the original stands overstory species prior to harvest.</p> <p><u>Other Comment:</u> Winter cutting spec for deer wintering area.</p> <p><u>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /2025</p>											
17	12130017-Cut	8.0	42330 - Upland Fir	Poletimber Well	65	Unspecified	Harvest	Clearcut with Retention	4319 - Mixed Upland Forest	Even-Aged	No
<p><u>Prescription Specs:</u> Harvest to a 2" spec to promote conifer regeneration and help to expand the adjacent interior aspen stand. Mark to leave a few healthy spruce and/or black cherry per acre if present. Leave cedar, hemlock, and pine.</p> <p><u>Next Step Treatments:</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Acceptable Regen:</u> Any combination of the original stands overstory species prior to harvest.</p> <p><u>Other Comment:</u> Long term retention is included in the open lowland buffer which will help protect water quality.</p> <p><u>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /2025</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
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18	12130018-Cut	7.7	4130 - Aspen	Poletimber Well	52	81-110	Harvest	Seed Tree	413 - Aspen	Even-Aged	No
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Prescription Harvest to a 2" spec to promote aspen regeneration and expand the aspen stand along the borders. Leave cedar, hemlock, and pine. In combination with leave species, mark to leave approximately one black cherry or paper birch per acre if present.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Any combination of the original stands overstory species prior to harvest.

Regen:

Other

Comment:

Site Condition

Proposed Start Date: 10/1 /2025

33	12130033-Cut	9.9	4319 - Mixed Upland Forest	Poletimber Well	78	81-110	Harvest	Shelterwood with Retention	4319 - Mixed Upland Forest	Two-Aged	No
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Prescription Harvest merchantable trees to promote regeneration. Leave cedar, hemlock, pine, and yellow birch. In combination with leave species, mark to leave healthy, long lived, trees while maintaining a residual cover of 40 - 50 BA across the stand.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Any combination of the original stands overstory species prior to harvest.

Regen:

Other

Comment:

Site Condition

Proposed Start Date: 10/1 /2025

34	12130034-Cut	7.2	6121 - Tamarack	Sawtimber Well	90	111-140	Harvest	Clearcut with Retention	612 - Lowland Coniferous Forest	Even-Aged	No
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Prescription Harvest to a 2" spec to promote lowland conifer regeneration. Leave cedar, hemlock, red pine, and white pine.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Any combination of the original stands overstory species prior to harvest.

Regen:

Other

Comment:

Site Condition

Proposed Start Date: 10/1 /2025



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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
36 12130036-Cut	22.8	4119 - Mixed Northern Hardwoods	Sawtimber Well	95	111-140	Harvest	Shelterwood with Retention	4319 - Mixed Upland Forest	Two-Aged	No
<p><u>Prescription</u> Harvest merchantable trees to promote hardwood and conifer regeneration. Leave cedar, hemlock, pine, black cherry, and yellow birch. In combination with leave species, mark to leave healthy hardwood and/or conifer species while maintaining a residual cover of 40-50 BA average across the stand.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u> Any combination of the original stands overstory species prior to harvest.</p> <p><u>Other Comment:</u> Buffer and/or exclude any slopes, drainages, or low ground. Approximate treatment line is updated to show this but will change some during field prep. Most fir is declining and needs to be regenerated. A 2" spec will help to remove dense understory competition and allow new regeneration of mixed/mid-tolerant hardwood and conifer species. Winter cutting spec for deer wintering area.</p> <p><u>Site Condition</u></p> <p>Proposed Start Date: 10/1 /2025</p>										
41 12130041-Cut	128.5	4119 - Mixed Northern Hardwoods	Sawtimber Well	95	141-170	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven-Aged	No
<p><u>Prescription</u> Mark stand to 70 - 90 BA. Focus on improving quality, releasing crop trees, and re-open or create canopy gaps to encourage northern hardwood regeneration. Remove all merchantable spruce/fir. Leave some large future snag trees for wildlife. Leave cedar, hemlock, and pine if present. Leave at least a couple of healthy black cherry per acre if present while marking. Favor species diversity while marking.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u> Any combination of the original stands overstory species prior to harvest.</p> <p><u>Other Comment:</u></p> <p><u>Site Condition</u></p> <p>Proposed Start Date: 10/1 /2025</p>										
49 12130049-Cut	35.0	4110 - Sugar Maple Association	Sawtimber Well	90	111-140	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven-Aged	No
<p><u>Prescription</u> Mark stand to 70 - 90 BA. Focus on improving quality, releasing crop trees, and re-open or create canopy gaps to encourage northern hardwood regeneration. Remove all merchantable spruce/fir. Leave some large future snag trees for wildlife. Leave cedar, hemlock, and pine if present. Favor species diversity while marking.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u> Any combination of the original stands overstory species prior to harvest.</p> <p><u>Other Comment:</u> Exclude drainage running E/W across the stand at least one full tree length from lowland ground edge. Exclude and/or buffer any dense hemlock areas. See treatment layer for approximate locations. Include small patch of black spruce in the far NW corner to regenerate area.</p> <p><u>Site Condition</u></p> <p>Proposed Start Date: 10/1 /2025</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
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50	12130050-Cut	16.4	4110 - Sugar Maple Association	Sawtimber Well	95	111-140	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven-Aged	No
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Prescription Specs: Mark stand to 70 - 90 BA. Focus on improving quality, releasing crop trees, and re-open or create canopy gaps to encourage northern hardwood regeneration and success. Leave some large future snag trees for wildlife. Leave all conifer and yellow birch if present. Favor species diversity while marking.

Next Step Treatments: Monitoring, Natural Regen (Re-Inventory)

Acceptable Regen: Any combination of the original stands overstory species prior to harvest.

Other Comment: Exclude dense hemlock in the center of this stand. See treatment line for approximate location. Winter cutting spec for deer wintering area.

Site Condition

Proposed Start Date: 10/1 /2025

53	12130053-Cut	61.4	4112 - Maple, Beech, Cherry Association	Sawtimber Well	97	111-140	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven-Aged	No
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Prescription Specs: Mark stand to 70 - 90 BA. Focus on improving quality, releasing crop trees, and re-open or create canopy gaps to encourage northern hardwood regeneration. Leave some large future snag trees for wildlife. Leave all conifer. Favor species diversity while marking.

Next Step Treatments: Monitoring, Natural Regen (Re-Inventory)

Acceptable Regen: Any combination of the original stands overstory species prior to harvest.

Other Comment: Exclude and/or appropriately buffer to keep tops out of any low depressions within the stand, approximate areas have been excluded from this treatment and will be verified during sale prep. Winter cutting spec for deer wintering area.

Site Condition

Proposed Start Date: 10/1 /2025

58	12130058-Cut	60.5	4112 - Maple, Beech, Cherry Association	Sawtimber Well	95	111-140	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven-Aged	No
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Prescription Specs: Mark stand to 70 - 90 BA. Focus on improving quality, releasing crop trees, and re-open or create canopy gaps to encourage northern hardwood regeneration. Remove all merchantable spruce/fir. Leave some large future snag trees for wildlife. Leave cedar, hemlock, and pine if present. Favor species diversity while marking.

Next Step Treatments: Monitoring, Natural Regen (Re-Inventory)

Acceptable Regen: Any combination of the original stands overstory species prior to harvest.

Other Comment:

Site Condition

Proposed Start Date: 10/1 /2025



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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
64 12130064-Cut	56.2	4112 - Maple, Beech, Cherry Association	Sawtimber Well	95	141-170	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven-Aged	No
<p><u>Prescription Specs:</u> Mark stand to 70 - 90 BA. Focus on improving quality, releasing crop trees, and re-open or create canopy gaps to encourage northern hardwood regeneration. Remove all merchantable spruce/fir. Leave some large future snag trees for wildlife. Leave cedar, hemlock, and pine if present. Leave most birch and black cherry if present while marking unless needed for operability. Favor species diversity while marking.</p> <p><u>Next Step Treatments:</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Acceptable Regen:</u> Any combination of the original stands overstory species prior to harvest.</p> <p><u>Other Comment:</u></p> <p><u>Site Condition</u></p> <p>Proposed Start Date: 10/1 /2025</p>										
66 12130066-Cut	62.8	4110 - Sugar Maple Association	Sawtimber Well	80	111-140	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven-Aged	No
<p><u>Prescription Specs:</u> Mark stand to 70 - 90 BA. Focus on improving quality, releasing crop trees, and re-open or create canopy gaps to encourage northern hardwood regeneration. Leave some large future snag trees for wildlife. Leave all conifer and yellow birch. Favor species diversity while marking.</p> <p><u>Next Step Treatments:</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Acceptable Regen:</u> Any combination of the original stands overstory species prior to harvest.</p> <p><u>Other Comment:</u> Winter cutting spec for deer wintering area.</p> <p><u>Site Condition</u></p> <p>Proposed Start Date: 10/1 /2025</p>										
67 12130067-Cut	39.4	4110 - Sugar Maple Association	Sawtimber Well	95	111-140	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven-Aged	No
<p><u>Prescription Specs:</u> Mark stand to 70 - 90 BA. Focus on improving quality, releasing crop trees, and re-open or create canopy gaps to encourage northern hardwood regeneration. Maintain good hardwood size class diversity. Leave some large future snag trees for wildlife. Leave all conifer. Leave most birch and black cherry if present while marking unless needed for operability. Favor species diversity while marking.</p> <p><u>Next Step Treatments:</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Acceptable Regen:</u> Any combination of the original stands overstory species prior to harvest.</p> <p><u>Other Comment:</u> Winter cutting spec for deer wintering area.</p> <p><u>Site Condition</u></p> <p>Proposed Start Date: 10/1 /2025</p>										



Stand Name	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
72	12130072-Cut	15.1	4110 - Sugar Maple Association	Poletimber Well	90	111-140	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven-Aged	No
<p><u>Prescription</u> Mark stand to 60 - 80 BA. Focus on improving quality and releasing crop trees to encourage northern hardwood / white pine regeneration and success. Leave some large future snag trees for wildlife. Leave all conifer and black cherry if present. Favor species diversity while marking.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u> Any combination of the original stands overstory species prior to harvest.</p> <p><u>Other Comment:</u> Winter cutting spec for deer wintering area.</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2025</p>											
74	12130074-Cut	26.8	4130 - Aspen	Sawtimber Well	72	111-140	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
<p><u>Prescription</u> Harvest merchantable trees to promote aspen and conifer regeneration. Retention should include a diverse mix of species and large diameter, forked crown aspen. Mark to leave approximately one healthy hardwood tree per acre if present. Leave all conifer.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u> Any combination of the original stands overstory species prior to harvest.</p> <p><u>Other Comment:</u> Long term retention along river will likely expand during sale prep due to slope/operations and possible low exclusion in the north 1/3 of stand. Winter cutting spec for deer wintering area.</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2025</p>											
84	12130084-Cut	43.0	4110 - Sugar Maple Association	Sawtimber Well	97	111-140	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven-Aged	No
<p><u>Prescription</u> Mark stand to 70 - 90 BA. Focus on improving quality, releasing crop trees, and re-open or create canopy gaps to encourage northern hardwood regeneration. Leave some large future snag trees for wildlife. Leave all conifer. Leave most birch and black cherry if present while marking unless needed for operability. Favor species diversity while marking.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u> Any combination of the original stands overstory species prior to harvest.</p> <p><u>Other Comment:</u> Possible vernal ponds areas and/or drainages may need to be excluded from management. Determine during field prep. Winter cutting spec for deer wintering area.</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2025</p>											

Approved Treatments:

51	12130051.3_Cut	67.2	4110 - Sugar Maple Association	Sawtimber Well	90	111-140	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven-Aged	No
<p><u>Prescription</u> thin to 60 - 90 BA, removing high risk, damaged, or trees impacted by disease or stress. do not cut cedar, hemlock, red or white pine, oak or elm.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u> northern hardwood</p> <p><u>Other Comment:</u></p> <p><u>Site Condition</u></p>											



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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Proposed Start Date: 10/1 /2015

63	12130063.4_C ut	56.4	4110 - Sugar Maple Association	Sawtimber Well	80	111- 140	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven- Aged	No
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Prescription Thin to 60 - 90 BA. remove high risk, damaged or trees impacted by disease or stress. do not cut hemlock, cedar, red or white pine, or
Specs: elm.

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable northern hardwoods

Regen:

Other

Comment:

Site Condition

Proposed Start Date: 10/1 /2015

Total Treatment 774.6
Acreage Proposed:

Report 4 – Site Conditions

Crystal Falls Mgt. Unit
Eric Brolin : Examiner

Compartment: 130
Year of Entry: 2026

Availability for Management

Total Acres	Acres Available	Acres Avail With Condition	Acres Not Available
203	193	5	5

Dominant Site Conditions

	Total Acres	Acres Available	Acres Avail With Condition	Acres Not Available	Dominant Site Conditions												
					2B	5C	2F	2G	2H	3D	3H	3J	3L	5E			
203	193	5	5		Aspen	5			3								2
72	26	0	46		Cedar							46					
156	0	0	156		Lowland Conifers				122			34					
57	0	0	57		Lowland Deciduous				57								
32	5	14	13		Lowland Mixed Forest	14			10		3						
245	245	0	0		Lowland Shrub												
78	17	0	61		Lowland Spruce/Fir				42							19	
6	6	0	0		Mixed Upland Deciduous												
1095	1017	30	48		Northern Hardwood	30		5	20	12			9	3			
1	1	0	0		Sand, Soil												
60	7	45	7		Tamarack		45		6				1				
4	4	0	0		Treed Bog												
25	25	0	0		Upland Mixed Forest												
13	8	0	5		Upland Spruce/Fir								5				
2,047	1,554	94	399		Total Forested Acres	49	45	5	261	12	3	80	15	22		2	
	76%	5%	19%		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	3D: Recreational / Scenic values	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
2	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Lakeside strip across private.							

Report 4 – Site Conditions

Crystal Falls Mgt. Unit

Eric Brolin : Examiner

Compartment: 130

Year of Entry: 2026

3	Unavailable	3H: Deer Wintering Area - habitat is incompatible with harvest at this time	34	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Dense cedar in deer wintering area. Cedar canopy and understory is too dense to operate without causing significant damage to cedar resource.							
4	Unavailable	5E: Long-Term Retention	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Long term retention for Stand 74.							
5	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	1	5E: Long-Term Retention	Unspecified	Unspecified	Unspecified
Comments: 100' river buffer. Long term retention for Stand 34.							
6	Available	2B: Unknown if access through adjacent landowner(s) is possible	13	Unspecified	Unspecified	Unspecified	Unspecified
Comments: This stand is difficult to access. Will evaluate access across lowland from the east during sale prep. Access from the west would require a new road across private. Only a narrow ATV trail exists now.							
7	Unavailable	2F: Too steep	5	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
Comments: Dense slope of large hemlock going down to the lake.							
8	Unavailable	3H: Deer Wintering Area - habitat is incompatible with harvest at this time	22	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Dense cedar in deer wintering area.							

Report 4 – Site Conditions

Crystal Falls Mgt. Unit
Eric Brolin : Examiner

Compartment: 130
Year of Entry: 2026

9	Unavailable	3L: Other wildlife concerns	3	2G: Too wet (sensitive soils, does not include access issues)	Unspecified	Unspecified	Unspecified
Comments: Patch of dense, large diameter hemlock with some low ground areas.							
10	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	5	5E: Long-Term Retention	Unspecified	Unspecified	Unspecified
Comments: 100' buffer along open lowland edges to protect water quality. Long term retention for Stand 17.							
11	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	8	2F: Too steep	5E: Long-Term Retention	Unspecified	Unspecified
Comments: Approximate areas with wet drainages and/or steep slopes that are inoperable. Long term retention for Stand 36.							
12	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	12	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Could not find access for operations into this stand. Will evaluate during adjacent site prep for access to manage.							
13	Available	2B: Unknown if access through adjacent landowner(s) is possible	5	2E: Road needed	Unspecified	Unspecified	Unspecified
Comments: No good access into this area. Small stand that has very far access.							
14	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	3	5E: Long-Term Retention	Unspecified	Unspecified	Unspecified
Comments: Area of lower ground. Long term retention for Stand 37.							

Report 4 – Site Conditions

Crystal Falls Mgt. Unit

Eric Brolin : Examiner

Compartment: 130

Year of Entry: 2026

15	Unavailable	3H: Deer Wintering Area - habitat is incompatible with harvest at this time	4	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Dense cedar in deer wintering area.							
16	Unavailable	3H: Deer Wintering Area - habitat is incompatible with harvest at this time	20	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Dense cedar in deer wintering area.							
17	Available	2B: Unknown if access through adjacent landowner(s) is possible	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Small stand with too far of access to be managed.							
18	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	6	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Evaluate during prep. Approximate areas of vernal ponds and/or cedar/hemlock exclusions.							
19	Available	2B: Unknown if access through adjacent landowner(s) is possible	14	2E: Road needed	Unspecified	Unspecified	Unspecified
Comments: No access without new road across private. Mostly wet ground.							

Report 4 – Site Conditions

Crystal Falls Mgt. Unit

Eric Brolin : Examiner

Compartment: 130

Year of Entry: 2026

20	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	6	5A: Not able to obtain desirable regeneration	Unspecified	Unspecified	Unspecified
Comments: Sparse, flooded tamarack ground.							
21	Available	2B: Unknown if access through adjacent landowner(s) is possible	15	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Access crosses water and requires new road building through private young planted red pine. Stand is marked but was removed from past sale due to issues getting cut.							
22	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	57	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Mainly flooded black ash drainage with very saturated ground.							
23	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	5	3L: Other wildlife concerns	Unspecified	Unspecified	Unspecified
Comments: Approximate dense hemlock exclusions and/or lowland drainage.							
24	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	42	5A: Not able to obtain desirable regeneration	Unspecified	Unspecified	Unspecified
Comments: Numerous drainages and humps across area. Sparse stocking across a lot of the stand.							

Report 4 – Site Conditions

Crystal Falls Mgt. Unit

Eric Brolin : Examiner

Compartment: 130

Year of Entry: 2026

25	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	34	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Stand should be manageable. Reevaluate next YOE when adjacent hardwood stand to the north will be thinned.							
26	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	11	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Stand can be managed. Wait until next YOE until adjacent surrounding sale is cut.							
27	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	22	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Low, saturated drainage way running between two hardwood elevation rises.							
28	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	30	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
Comments: Saturated ground with drainages bordering waterway.							
29	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	7	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Saturated sparse ground bordering waterway.							

Report 4 – Site Conditions

Crystal Falls Mgt. Unit

Eric Brolin : Examiner

Compartment: 130

Year of Entry: 2026

30	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	63	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Sparse low ground with steep slope running away from the river into the adjacent hardwood stand.							
31	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	10	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
Comments: Low flooded ground bordering river.							
32	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	7	Unspecified	Unspecified	Unspecified	Unspecified
Comments: 100' buffer along lowland edge. Denser to conifer, transition ground to lowland.							
33	Unavailable	3L: Other wildlife concerns	19	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Leave for moose and marten cover/habitat.							
34	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Denser to conifer with lower ground, exclude from hardwood thinning.							

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



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	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.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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1 6229 - Mixed lowland shrub Nonstocked 9.2 Unspecified No

2 4112 - Maple, Beech, Cherry Association Poletimber Well 28.1 90 111-140 N/A

Large diameter poor quality hardwood with moderate quality poles filling in. Black cherry is showing some decline.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	4	Pole	8		White Spruce	Low	< 5 feet	Sapling
Sugar Maple	64	Log/Pole	12	90	Balsam Fir	Low	< 5 feet	Sapling
Paper Birch	1	Pole	8		Red Maple	Low	Variable	Sapling
Yellow Birch	2	Log	14		Sugar Maple	Low	Variable	Sapling
Red Maple	8	Log	14					
White Pine	1	Log/XLog	16					
Northern White Cedar	2	XLog	18					
Black Cherry	12	Log/Pole	13					
Hemlock	2	Log/Pole	14					
White Spruce	4	Log/Pole	10					

3 4112 - Maple, Beech, Cherry Association Poletimber Well 28.9 90 111-140 N/A

Good quality hardwood log stand. Saplings are abundant in older canopy gaps otherwise stunted with denser canopy. 110 130 110 120 130 Average of 120 BA.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Spruce	5	Log/Pole	14		Black Cherry	Full	< 5 feet	Seeding
Yellow Birch	4	Log/Pole	13		Sugar Maple	Low	Variable	Sapling
Sugar Maple	65	Log/Pole	12	90	Black Cherry	Medium	Variable	Sapling
Hemlock	2	Log	14		Red Maple	Low	Variable	Sapling
Red Maple	10	Log	14					
Black Cherry	12	Log/Pole	12					
Northern White Cedar	2	Log	15					

4 6129 - Mixed Coniferous Lowland Forest Poletimber Well 33.9 96 81-110 N/A

Very wet ground with drainages. Cedar is abundant in areas and poles are topped by other species across the stand.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Tamarack	7	Log/Pole	10		Northern White Cedar	Medium	Variable	Pole
Black Cherry	2	Pole/Log	8		Balsam Fir	Medium	Variable	Sapling
Black Spruce	25	Pole	8		Black Ash	Low	Variable	Sapling
Northern White Cedar	46	Log/Pole	13	96				
Balsam Fir	3	Pole/Sapling	6					
Paper Birch	10	Pole	7					
Red Maple	5	Pole/Sapling	7					
Yellow Birch	2	Log/Pole	13					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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5	6120 - Lowland Cedar	Poletimber Well	20.1	96	111-140	N/A	Mainly dense cedar with low drainages.
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Northern White Cedar		78	Log/Pole	12	96	Tag Alder	
Black Ash		2	Pole	8		Northern White Cedar	
Hemlock		5	Log	14		Black Spruce	
Yellow Birch		5	Log	14		Balsam Fir	
Black Spruce		10	Pole	8			
						Density	
						Avg. Height	
						Size	

6	4112 - Maple, Beech, Cherry Association	Poletimber Well	1.3	95	111-140	N/A	Poor quality dense hardwood poles.
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Sugar Maple		45	Pole/Log	9	95	Balsam Fir	
Red Maple		44	Pole/Log	9			
Northern White Cedar		3	Log	15			
Black Cherry		5	Pole/Log	9			
Yellow Birch		3	Log	16			
						Density	
						Avg. Height	
						Size	

7	4191 - Mixed Upland Deciduous with Conifer	Poletimber Well	6.1	72	81-110	N/A	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Hemlock		5	Pole/Log	10		Balsam Fir	
Sugar Maple		20	Log/Pole	10	72		
Black Cherry		10	Pole/Log	10			
Red Maple		10	Pole/Log	10			
Paper Birch		15	Pole/Log	10			
White Spruce		5	Pole/Log	10			
Northern White Cedar		10	Pole/Log	10			
Yellow Birch		10	Pole/Log	10			
Quaking Aspen		15	Pole/Log	10			
						Density	
						Avg. Height	
						Size	

8	6229 - Mixed lowland shrub	Nonstocked	3.4		Unspecified	No	
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9	6131 - Hemlock, White Pine, Maple, Birch	Poletimber Well	5.0	96	81-110	N/A	Slope to river with saturated ground. Older, declining trees.
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
White Spruce		5	Log	11		Black Spruce	
Red Maple		20	Pole/Log	9		Balsam Fir	
Paper Birch		35	Log/Pole	10	96		
Black Spruce		10	Pole	8	96		
Northern White Cedar		15	Log/Pole	10	96		
White Pine		5	XLog	18			
Balsam Fir		10	Pole/Sapling	7			
						Density	
						Avg. Height	
						Size	



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																									
10	4130 - Aspen	Poletimber Well	5.3	75	81-110	N/A	Very FAR access from anywhere.																																																									
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11	42360 - Upland Cedar	Poletimber Well	3.7	96	111-140	N/A	Small elevation ridge dominated by large diameter cedar. Hardwood poles filling in the gaps.																																																									
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13	613 - Lowland Mixed Forest	Poletimber Well	13.8	85	51-80	N/A	Appears to be mainly low ground flooded conifer with a few aspen/pine elevation rises. No access into stand.																																																									
14	622 - Lowland Shrub	Nonstocked	49.4			No	Flooded lowland with drainages and streams.																																																									
15	6121 - Tamarack	Poletimber Medium	6.1	84	51-80	N/A	Very sparse, flooded flat dense to tamarack with alder in the understory.																																																									
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16	710 - Sand, Soil	Nonstocked	1.3		Unspecified	No	Gravel pit/camp site																																																									



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																							
17	42330 - Upland Fir	Poletimber Well	13.5	65	Unspecified	N/A	Dense, declining spruce/fir with other species scattered in. A small patch of black spruce found in the far SW corner.																																																							
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18	4130 - Aspen	Poletimber Well	7.7	52	81-110	N/A	Aspen pole stand. Poor site quality with dead/declining patches of fir and understory fir.																																																							
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19	4130 - Aspen	Sapling Well	53.6	6	1-50	N/A	Aspen sapling stand with scattered residual pine. Some patchy stocking areas but overall 75%+. Uncut buffer along the west lowland edge contains mature trees and thick dead/declining fir.																																																							
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20	411 - Northern Hardwood	Sawtimber Well	12.1	95	111-140	N/A	Appears to be dense hardwoods. Could not find an access that would work for management. Will evaluate during adjacent prep for a good access point across lowland conifer if possible.																																																							
22	4319 - Mixed Upland Forest	Sawtimber Poor	14.9	86	1-50	N/A	Stand has fallen apart from age. Approximately 10 BA of overmatured, declining aspen evenly scattered across area. Large white pine and mature black spruce are sparsely scattered within. Understory contains a mix of blowdown and dense conifer saplings. Access across probably numerous small private landowners.																																																							
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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23	4112 - Maple, Beech, Cherry Association	Sawtimber Well	108.3	94	81-110	N/A	Poor to moderate quality hardwood log stand. Most of the understory has fully stocked mixed cherry/sugar maple saplings. Lower flats along the river start seeing more cedar/hemlock, usually not until close to the banks. Most of the slope along the river side can be managed. Average around 110 BA.																																																													
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24	42360 - Upland Cedar	Sawtimber Well	15.4	95	111-140	N/A	Cedar is evenly distributed across the stand topped by paper birch canopy in a lot of areas. Most fir is dead and down. Could not operate in this stand without causing significant damage to cedar resource.																																												
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26	6132 - Mixed Lowland Forest with Cedar	Poletimber Well	2.9	105	81-110	N/A	Cable Lake boat launch parcel. Large cedar with mixed species.																																																					
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27	4119 - Mixed Northern Hardwoods	Poletimber Well	1.9	95	81-110	N/A	Small strip along lake across private. Can not access or manage.
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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	4115 - Y.Birch, Hemlock NH	Poletimber Well	13.3	95	111-140	N/A	Stand was marked. Difficult access into stand. Could not sell with this part of the sale so it was removed.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Hemlock	10	Log/Pole	12		White Pine	Low	Variable	Seeding
Sugar Maple	40	Pole/Log	10	95	Balsam Fir	Low	Variable	Seeding
Red Maple	20	Pole/Log	10					
Balsam Fir	10	Pole/Log	10					
White Spruce	5	Pole/Log	10					
Northern White Cedar	5	Log/Pole	12					
Yellow Birch	10	Pole/Log	10					

30	4115 - Y.Birch, Hemlock NH	Poletimber Well	15.0	95	111-140	N/A	This stand was marked and removed from a sale due to difficult access and not able to sell the sale with this stand. Access from the west across low areas then from the north creating a new road through private planted red pine.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Hemlock	20	Log/Pole	12		Balsam Fir	Low	Variable	Sapling
White Spruce	5	Log/Pole	12		White Spruce	Low	Variable	Sapling
Sugar Maple	35	Log/Pole	10	95				
Black Cherry	15	Log/Pole	10					
Red Maple	25	Log	10					

31	6229 - Mixed lowland shrub	Nonstocked	39.6			No	Flooded lowland with patches of conifer.
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32	6120 - Lowland Cedar	Sawtimber Well	22.2	95	111-140	N/A	Mainly dense cedar. Nice black spruce canopy growing over cedar in most areas.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Black Spruce	15	Pole/Log	9	95	Balsam Fir	Low	Variable	Seeding
Yellow Birch	2	Pole/Log	9		Black Spruce	Low	Variable	Seeding
Hemlock	5	XLog/Log	18		White Pine	Low	Variable	Seeding
Paper Birch	3	Log/Pole	10		Hemlock	Low	Variable	Sapling
Red Maple	3	Log/Pole	10		Northern White Cedar	Medium	Variable	Pole
Northern White Cedar	70	Log/Pole	12	95				
Balsam Fir	2	Pole/Sapling	7					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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33	4319 - Mixed Upland Forest	Poletimber Well	9.9	78	81-110	N/A	Diverse patch of lower ground. A fair amount of hemlock saplings in the understory.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Pine	3	XLog	24		Northern White Cedar	Trace	< 5 feet	Seeding
Hemlock	5	XLog/Log	18		Black Spruce	Low	Variable	Sapling
Black Ash	5	Pole/Sapling	7	78	Black Cherry	Low	Variable	Sapling
Yellow Birch	8	Pole/Log	9		Hemlock	Medium	< 5 feet	Seeding
Northern White Cedar	7	Log	12					
Red Maple	40	Pole/Log	9	78				
Black Spruce	12	Pole	8					
Black Cherry	2	Pole	8					
White Spruce	10	Log/Pole	11					
Balsam Fir	5	Pole	8					
Paper Birch	3	Pole/Log	9					

34	6121 - Tamarack	Sawtimber Well	8.4	90	111-140	N/A	Lowland conifer flat with very nice black spruce and tamarack. Good, operable ground within. Tamarack is showing a decline with a few individual black spruce speckled in showing mortality.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Northern White Cedar	3	Log/Pole	13		Red Maple	Low	Variable	Sapling
Red Pine	1	Log	12		Black Spruce	Low	Variable	Sapling
Tamarack	64	Log/Pole	10	90	Balsam Fir	Low	Variable	Sapling
White Pine	7	Log/Pole/XLog	14					
Black Spruce	25	Pole	8	90				

36	4119 - Mixed Northern Hardwoods	Sawtimber Well	31.0	95	111-140	N/A	Dense hardwood mix heavy to red maple. Poor to moderate quality at best. Elevation humps, slopes, ravines/drainages, and low patches will need to be excluded from future management. A web of spruce fir snakes around in this stand. Most of the conifer ground is patchy with larger pole size trees starting to decline. The dense hardwood understory is heavy to fir, most merchantable size to large sapling size. Average hardwood areas are near 140 BA.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Paper Birch	5	Log/Pole	12		Balsam Fir	Medium	Variable	Sapling
Balsam Fir	10	Pole/Sapling	7		Sugar Maple	Medium	Variable	Sapling
Northern White Cedar	2	Log	14		Balsam Fir	Medium	Variable	Pole
Hemlock	3	Log	14					
Red Maple	41	Log/Pole	11	95				
Black Spruce	3	Pole	8					
Yellow Birch	3	Log	16					
White Spruce	2	Pole/Log	8					
Sugar Maple	25	Log/Pole	11	95				
Quaking Aspen	4	Log/Pole	12					
Black Cherry	2	Pole/Log	9					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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37	4130 - Aspen	Sapling Well	40.0	8	Immature	N/A	Dense aspen saplings with a good mix of red maple/black cherry. Scattered larger black cherry and white pine across the stand. Stand cut under 3 G's Salvage 120791401.
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Canopy Species	% Cover	Size Class	DBH	Age
Black Cherry	5	Pole/Log	9	
Red Maple	16	Sapling	1	
Balsam Fir	2	Sapling	3	
White Pine	2	XLog	22	
Quaking Aspen	75	Sapling	2	8

38	6122 - Black Spruce	Poletimber Well	18.8	95	81-110	N/A	Nice black spruce pole stand with good ground. A small patch in the center contains some mixed hardwood within. Hemlock saplings are abundant across stand, especially along the edges.
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Canopy Species	% Cover	Size Class	DBH	Age
White Pine	4	XLog	22	
Hemlock	10	Log/XLog	16	
Balsam Fir	2	Pole	8	
Yellow Birch	3	Log/Pole	11	
Northern White Cedar	3	Log/Pole	12	
Black Ash	2	Pole	7	95
Sugar Maple	2	Log/Pole	10	
Black Cherry	2	Pole/Log	9	
Red Maple	10	Pole/Log	9	
Black Spruce	62	Pole	9	95

Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	Low	Variable	Sapling
White Pine	Low	Variable	Sapling
Hemlock	Medium	Variable	Sapling
Black Spruce	Medium	Variable	Sapling

39	6115 - Lowland Ash	Poletimber Well	57.2	95	51-80	N/A	Almost pure black ash. Some larger trees mainly pole size and some larger saplings. Flat, saturated black ash drainage.
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Canopy Species	% Cover	Size Class	DBH	Age
Northern White Cedar	7	Log	12	87
Tamarack	2	Log/Pole	10	
White Pine	2	Log	16	
Black Ash	77	Pole/Log/Sap	8	95
Black Spruce	5	Pole/Log	8	
Hemlock	2	Log	16	
Balsam Fir	5	Pole/Sapling	7	

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

40	4115 - Y.Birch, Hemlock NH	Sawtimber Well	76.4	95	81-110	N/A	Fairly sparse overstory in most areas. Some patches are dense with pole sized diameter trees with larger hemlock and yellow birch scatted across the stand. Very, very, very thick fir with hardwood saplings in the understory make it hard to even walk through.
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Canopy Species	% Cover	Size Class	DBH	Age
Northern White Cedar	3	Log	12	
Red Maple	40	Pole/Log/XLog	8	95
Sugar Maple	20	Log/Pole	12	95
Yellow Birch	19	Log	15	
Hemlock	15	Log/Pole/XLog	16	
Balsam Fir	3	Pole/Sapling	7	

Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple	Low	Variable	Seeding
Red Maple	Low	Variable	Seeding
Balsam Fir	Full	Variable	Sapling
Hemlock	Low	< 5 feet	Sapling
Black Cherry	Low	Variable	Sapling



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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41	4119 - Mixed Northern Hardwoods	Sawtimber Well	128.5	95	141-170	N/A	Moderate quality hardwood log stand. Some understory saplings in areas but canopy is to dense to allow regeneration to become established. Access from the SW or best from the east. 160 140 170 120 130 170 Average of 145 BA.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
White Spruce	5	Log/Pole	12			White Spruce	Low	Variable	Sapling	
Red Maple	15	Log/Pole	12			Sugar Maple	Medium	Variable	Sapling	
White Pine	2	Log/Pole	12			Balsam Fir	Low	Variable	Sapling	
Hemlock	8	Log/XLog	16			White Pine	Medium	Variable	Sapling	
Northern White Cedar	2	Log/Pole	12			Black Cherry	Medium	Variable	Sapling	
Black Cherry	20	Log/Pole	12			Red Maple	Low	Variable	Sapling	
Sugar Maple	42	Log/Pole	12	95		Hemlock	Trace	< 5 feet	Sapling	
White Ash	1	XLog/Log	18							
Yellow Birch	5	Log/Pole	12							

43	4119 - Mixed Northern Hardwoods	Sawtimber Well	59.6	95	81-110	N/A	Good quality maple log stand. Most areas have a near fully stocked understory of hardwood saplings. BA is a bit light and canopies still have room to grow. 110 90 100 100 90 Average under 100 BA.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Red Maple	7	Log/Pole	12			Red Maple	Low	Variable	Sapling	
Yellow Birch	5	Log/Pole	12			Black Cherry	Medium	Variable	Sapling	
White Spruce	5	Log/Pole	12			Hemlock	Trace	< 5 feet	Sapling	
Northern White Cedar	2	Log/Pole	12			Sugar Maple	Medium	Variable	Sapling	
Hemlock	8	Log/XLog	16			Balsam Fir	Low	Variable	Sapling	
White Pine	2	Log/Pole	12			White Pine	Medium	Variable	Sapling	
Sugar Maple	65	Log/Pole	12	95						
White Ash	1	XLog/Log	18							
Black Cherry	5	Log/Pole	12							

45	6121 - Tamarack	Poletimber Well	33.9	95	51-80	N/A	Did not enter stand. Imagery and edge view appears to be a nice tamarack stand. South edge is against a current sale. Reevaluate next YOY, confirm age, and manage as the hardwood along the north edge (Stand 41) should be ready to manage.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Hemlock	3	Log	16	95		Black Spruce	Low	Variable	Sapling	
Tamarack	80	Log/Pole	10	95		Balsam Fir	Low	Variable	Sapling	
Black Spruce	14	Pole	8							
White Pine	1	Log	15							
Northern White Cedar	2	Log/Pole	10	95						

46	4130 - Aspen	Sapling Well	7.7	8	Immature	N/A	BMP buffer/retention left - mature aspen, pine, spruce/fir. cut portion is A3. cut in winter 2016			
Canopy Species		% Cover	Size Class	DBH	Age					
Quaking Aspen	90	Sapling	2	8						
Balsam Fir	10	Sapling	4							



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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47	6229 - Mixed lowland shrub	Nonstocked	13.7			No	open bog, marsh
		Sub-Canopy Species		Density	Avg. Height	Size	
		Alder		Medium		Tall Shrub	
		Labrador Tea		Medium		Tall Shrub	
		Cattail spp.		Medium		Non-Wood	
		Balsam Fir		Trace		Sapling	
		Black Spruce		Trace		Seeding	
		Black Willow		Medium		Tall Shrub	
		Swamp Laurel		Medium		Tall Shrub	
		Tamarack		Trace		Sapling	

48	622 - Lowland Shrub	Nonstocked	70.9		Unspecified	No	tag alder and open marsh
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49	4110 - Sugar Maple Association	Sawtimber Well	39.8	90	111-140	N/A	Good quality hardwood stand. Some areas with dense canopy have an open understory, otherwise old gaps and areas have well established hardwood regeneration. A drainage cuts across E/W and should be excluded from future management. 170 120 140 130 150 Average of 140 BA.
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Canopy Species	% Cover	Size Class	DBH	Age
Black Cherry	3	Log	12	
Black Ash	2	Pole/Log	8	
Sugar Maple	75	Log/Pole	12	90
Red Maple	4	Log/Pole	13	
Yellow Birch	4	Log/Pole/XLog	13	
Basswood	2	Log	15	
Northern White Cedar	2	Log	12	
Hemlock	8	Log/XLog	16	

Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple	Medium	Variable	Sapling
White Spruce	Low	Variable	Sapling
Black Cherry	Low	Variable	Sapling

50	4110 - Sugar Maple Association	Sawtimber Well	19.4	95	111-140	N/A	Good quality maple log stand. Dense hemlock exclusion in the center. Good hardwood saplings are abundant in the N/S but patchier to non-existent in the center. Access road in the far NE corner comes onto state land. 140 120 110 140 Average of 130 BA.
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Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	5	Log/Pole	13	
Yellow Birch	3	Log/XLog	14	
Northern White Cedar	2	Log	14	
Hemlock	10	XLog/Log	20	
Sugar Maple	80	Log/Pole	13	95

Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	Low	Variable	Sapling
Black Cherry	Low	Variable	Sapling
Sugar Maple	High	Variable	Sapling
White Spruce	Low	Variable	Sapling

51	4110 - Sugar Maple Association	Sawtimber Well	68.7	90	111-140	N/A	
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Canopy Species	% Cover	Size Class	DBH	Age
Sugar Maple	75	Log/Pole	12	90
Red Maple	5	Log/Pole	12	
Yellow Birch	5	Log/Pole	12	
Hemlock	10	Log/Pole	16	
Basswood	5	Log/Pole	14	

Sub-Canopy Species	Density	Avg. Height	Size
White Spruce	Low	< 5 feet	Sapling
Leatherwood	Low	Variable	Tall Shrub
Balsam Fir	Low	< 5 feet	Sapling
Sugar Maple	Low	< 5 feet	Sapling



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																																						
52	4130 - Aspen	Sapling Well	31.5	16	Immature	N/A	Dense aspen sapling stand. Patch in the center is fully growing in with mixed conifer saplings. Roads across stand are completely grown in.																																																																						
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53	4112 - Maple, Beech, Cherry Association	Sawtimber Well	67.0	97	111-140	N/A	Moderate quality hardwood stand with a lot of larger poor quality mixed in. Fairly open understory with not much hardwood regeneration at this time. A few hemlock pockets and/or vernal ponds may be excluded from future management. 110 130 120 160 130 Average of 130 BA.																																																																						
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54	622 - Lowland Shrub	Nonstocked	22.4		Unspecified	No	Buffer along Net River																																																																						
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56	4130 - Aspen	Sapling Well	4.2	16	Immature	N/A	Aspen sapling stand. Access roads to this stand are very grown in from the NW.																																																																						
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments	
57	6122 - Black Spruce	Poletimber Well	16.7	76	81-110	N/A	Looks like a nice lowland conifer stand that can be managed. Access to this stand is very difficult. It should be held until an adjacent stand is managed. Reevaluate next YOE, confirm age, manage.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Black Ash		10	Pole	6		Black Spruce		
White Pine		5	Pole	8		Balsam Fir		
Black Spruce		55	Pole/Sapling	6	76	Tag Alder		
Balsam Fir		20	Pole	6				
Tamarack		10	Pole	8				
58	4112 - Maple, Beech, Cherry Association	Sawtimber Well	61.6	95	111-140	N/A	Good quality hardwood stand with well established understory of hardwood saplings. Most old canopy gaps have grown in mostly and have more sapling success. Some sparser areas within but mostly pretty dense stocking. 90 120 160 100 130 Average of 120 BA.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Black Cherry		4	Log/Pole	11		Red Maple		
White Pine		3	XLog/Log	18		Sugar Maple		
White Spruce		2	Log/Pole	10				
Sugar Maple		75	Pole/Log	10	95			
Yellow Birch		5	Log/Pole	13				
Northern White Cedar		1	Log	12				
Red Maple		10	Log	14				
61	6121 - Tamarack	Poletimber Well	11.4	80	51-80	N/A	Nice lowland conifer stand heavy to tamarack. Surrounded by current sale. Reevaluate next YOE for harvest after the current sale is complete.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
White Pine		2	Log	16		White Pine		
Yellow Birch		3	Log/Pole	11		Black Spruce		
Balsam Fir		8	Pole/Sapling	7		Balsam Fir		
Tamarack		65	Pole/Log	9	80			
Black Spruce		12	Pole/Log	8				
Hemlock		10	Log	14				
62	6122 - Black Spruce	Poletimber Medium	42.2	95	51-80	N/A	Scattered large black spruce is declining and most fir is dead and down. Lots of blowdown with thick brush and alder. Appears to be a lot of small elevation humps with numerous seeps and drainages created. Possible some small black spruce patches to manage in the NW area, will be determined during adjacent prep.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Northern White Cedar		5	Log/Pole	12	96	Red Maple		
Balsam Fir		14	Pole/Sapling	7		Tamarack		
Tamarack		5	Log/Pole	10		Tag Alder		
Yellow Birch		3	Pole/Log	9		Balsam Fir		
Black Spruce		70	Pole/Log	9	95			
White Spruce		3	Log/Pole	10				



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																									
63	4110 - Sugar Maple Association	Sawtimber Well	63.4	80	111-140	N/A	Hardwood log stand currently under contract. Old gaps across area have dense sugar maple saplings.																																																									
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Sugar Maple	Medium	Variable	Sapling																																																													
64	4112 - Maple, Beech, Cherry Association	Sawtimber Well	56.2	95	141-170	N/A	At least 2/3 of this stand has very dense hardwood stocking with an open understory containing a mat of sugar maple seedlings. The south 1/3 or so of this stand has a bit sparser canopy with some aspen speckled in and 2"-3" fir in the understory. Small veins and patches of mixed aspen along the far west edge should be managed now. 230 200 110 150 Average near 170 BA, a bit lower in the far south 1/3 of the stand.																																																									
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65	6129 - Mixed Coniferous Lowland Forest	Poletimber Well	22.1	90	81-110	N/A	Low drainage swale with conifer. It does not appear to have running water but is very saturated.																																																									
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66	4110 - Sugar Maple Association	Sawtimber Well	62.8	80	111-140	N/A	Good quality hardwood log stand heavy to sugar maple. Some rolling terrain across area. Could access from SW across low swale or from the East with private access and a poorer drained woods road.																																																									
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67	4110 - Sugar Maple Association	Sawtimber Well	39.4	95	111-140	N/A	Good quality northern hardwood stand. Diverse size range of sugar maple from well established saplings to XL logs. A few smaller dense hemlock patches found within. Access can be from the west off the snowmobile trail (berm road) or from the east through private and a gate. 90 130 170 120 130 Average of 130 BA.																																																																		
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68	4119 - Mixed Northern Hardwoods	Poletimber Well	26.9	97	81-110	N/A	Moderate quality mixed hardwoods. Even scattered hemlock and large diameter yellow birch are found across the stand. Understory is fully stocked with hardwood saplings. Reevaluate next YOE, allow saplings to grow into canopy gaps and become more dominant. Access from the west on an old skid trail up/down a more difficult slope.																																																																		
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69	6129 - Mixed Coniferous Lowland Forest	Poletimber Well	30.3	89	111-140	N/A	Low ravine from the west drains into lowland flat and Porter Creek. Very saturated ground with tamarack and alder mixed in across the area with multiple drainages.																																																																		
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70	6229 - Mixed lowland shrub	Nonstocked	10.8		Unspecified	No	Porter Creek and associated lowlands - tag alder with scattered lowland conifer																																																																		



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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71 6128 - Lowland Coniferous, Mixed Deciduous Poletimber Well 6.8 89 81-110 N/A Fairly sparse, diverse, lowland mix.

Canopy Species	% Cover	Size Class	DBH	Age
Hemlock	5	Log	16	
Yellow Birch	5	Log/Pole	12	
Black Ash	5	Pole	7	
Balsam Poplar	5	Log/Pole	12	
Black Cherry	5	Log/Pole	11	
Balsam Fir	10	Pole/Sapling	7	
Black Spruce	25	Pole	8	89
Northern White Cedar	20	Log/Pole	12	
White Pine	10	Log/Pole/XLog	18	
Tamarack	10	Log/Pole	12	

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

72 4110 - Sugar Maple Association Poletimber Well 15.1 90 111-140 N/A

Large pole to small sawlog sized hardwood stand. Fairly good quality stems. Veins of mature aspen mixed in run along the west edge and should be managed. The only access point would be in the far NE corner. This would still require a trail through private and access up a short slope. The remaining slope down the east line is too steep to operate up/down. 140 120 110 100 130 Average of 120 BA.

Canopy Species	% Cover	Size Class	DBH	Age
White Pine	4	XLog/Log	18	
Red Maple	10	Pole/Log	8	
Sugar Maple	79	Log/Pole	10	90
Black Cherry	2	Log/Pole	12	
Quaking Aspen	5	Log	10	

Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	Low	Variable	Sapling
White Pine	Medium	Variable	Sapling
White Spruce	Low	Variable	Sapling
Sugar Maple	Medium	Variable	Sapling

73 4130 - Aspen Sapling Well 10.5 8 Immature N/A

Dense aspen saplings with a good mix of red maple/black cherry. Scattered larger black cherry and white pine across the stand.

Stand cut under 3 G's Salvage 120791401.

Canopy Species	% Cover	Size Class	DBH	Age
Black Cherry	5	Pole/Log	9	
White Pine	2	XLog	22	
Balsam Fir	2	Sapling	3	
Red Maple	16	Sapling	1	
Quaking Aspen	75	Sapling	2	8

74 4130 - Aspen Sawtimber Well 28.5 72 111-140 N/A

Older mature aspen showing some decline, especially in paper birch. Most of the fir is dead and down.

Canopy Species	% Cover	Size Class	DBH	Age
Balsam Fir	5	Pole	8	72
White Spruce	3	Log/Pole	10	72
Red Maple	4	Pole/Log	9	72
Paper Birch	10	Pole/Log	9	72
Quaking Aspen	75	Log/Pole	11	72
White Pine	3	XLog	22	

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



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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75 6139 - Mixed Lowland Forest Poletimber Well 10.4 95 81-110 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	10	Pole/Log	9		Red Maple	Low	Variable	Sapling
Tamarack	3	Log/Pole	10		Black Spruce	Low	Variable	Sapling
Black Spruce	7	Pole/Log	8	95	Balsam Fir	Low	Variable	Sapling
Black Ash	5	Pole/Log	8					
Paper Birch	30	Log/Pole	10	95				
Balsam Fir	25	Pole/Sapling	7					
Balsam Poplar	5	Log	14					
Northern White Cedar	15	Pole/Log	9	95				

78 6224 - Treed Bog Nonstocked 3.6 No Stunted sparse conifer bog.

Sub-Canopy Species	Density	Avg. Height	Size
White Pine	Trace		Sapling
Tamarack	Medium		Sapling
Black Spruce	Medium		Sapling

79 4136 - Aspen, Mixed Conifer Sapling Well 14.1 22 Immature N/A Dense aspen sapling stand. Dense patch of fir in the center and a lot of scattered large diameter white pine across the area.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	5	Sapling	2		Quaking Aspen	Medium	Variable	Sapling
White Pine	8	Log/XLog	17	112	Balsam Fir	Medium	Variable	Sapling
Black Cherry	10	Sapling	2	22	White Pine	Low	Variable	Sapling
Balsam Fir	12	Sapling/Pole	3	22				
Quaking Aspen	65	Sapling	3	22				

80 4119 - Mixed Northern Hardwoods Poletimber Well 19.1 70 81-110 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Spruce	3	Log	10		Sugar Maple	Low	Variable	Sapling
White Pine	5	XLog/Log	20		Red Maple	Medium	Variable	Sapling
Paper Birch	7	Pole	6		Quaking Aspen	Low	Variable	Sapling
Quaking Aspen	5	Log	11					
Red Maple	22	Pole/Log	8					
Balsam Fir	5	Pole	7					
Sugar Maple	40	Pole/Log	8	70				
Black Cherry	3	Log/Pole	12					
Quaking Aspen	10	Sapling	3	22				

It appears that all aspen was cut out with last harvest. Canopy is too dense in most areas for aspen success. The far west 1/4 and some open canopy patches have these aspen saplings, otherwise this is more of a hardwood pole sized stand. Basal area in the east still too low for thinning, even sparser in the west with more aspen saplings.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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81 6120 - Lowland Cedar Poletimber Well 11.1 96 81-110 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Pine	5	Log	18	96	Balsam Fir	Low	Variable	Sapling
Balsam Fir	10	Pole/Log	10	96	Black Spruce	Low	Variable	Sapling
Northern White Cedar	55	Pole/Log	10	96				
Paper Birch	10	Pole/Log	12	96				
Black Spruce	20	Pole/Log	12	96				

82 6229 - Mixed lowland shrub Nonstocked 25.2 No

Sub-Canopy Species	Density	Avg. Height	Size
Tamarack	Trace		Sapling
Alder	Medium		Tall Shrub
Balsam Fir	Trace		Sapling
Labrador Tea	Medium		Tall Shrub
Swamp Laurel	Medium		Tall Shrub
Black Spruce	Trace		Seeding
Black Willow	Medium		Tall Shrub
Cattail spp.	Medium		Non-Wood

83 6124 - Lowland Spruce-Fir Poletimber Well 63.1 104 81-110 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Paper Birch	30	Pole	10	104	White Spruce	Low	< 5 feet	Sapling
Quaking Aspen	10	Log	14	104	Balsam Fir	Low	< 5 feet	Sapling
Black Spruce	10	Pole	8	104				
Balsam Fir	25	Pole	8	104				
White Spruce	25	Pole	10	104				

Very sparse canopy with thick conifer sapling, blowdown, and low ground especially along the west edge. More mature aspen along the east side would fall within the river buffer. Difficult stand to manage with low ground, drainages, and slope coming west out of the area.

84 4110 - Sugar Maple Association Sawtimber Well 43.0 97 111-140 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Paper Birch	2	Pole/Log	9		Sugar Maple	Medium	Variable	Seeding
Red Maple	5	Log/Pole	13		Black Cherry	Low	Variable	Sapling
White Pine	2	XLog	20		Balsam Fir	Low	Variable	Sapling
Yellow Birch	3	Log/Pole	13	97	White Spruce	Low	Variable	Sapling
Black Cherry	8	Log/Pole	12	97				
White Spruce	2	Log/Pole	10					
Quaking Aspen	2	Pole/Sapling	5					
Sugar Maple	75	Log/Pole	12	97				
Northern White Cedar	1	Log	15					

The south 1/3 is pretty poor quality hardwoods, the north 2/3 increase in quality a bit with the elevation rise. Ranges from very dense areas to sparser areas across the stand. 130 90 180 130 110 80 Average of 120 BA.