



# Compartment Review Presentation

Crystal Falls Forest Management Unit

Compartment 12062

Entry Year 2027

Acreage: 2,073

County: Dickinson

Management Area: Ralph Moraine

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**Stand Examiner:** Deb Goupell

**Legal Description:**

T42N R28W Sec 9, 10, 15-17

**Identified Planning Goals:**

Manage for a sustainable yield in all forested cover types with aspen being prescribed for cut at age 50, per Management Area guidelines.

**Soil and topography:**

Fine sandy loams and rock outcrops for most of the uplands. Lowlands are Carbondale/Cathro/Waucedah mucks.

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

There are a number of private landowners within and adjacent to this compartment. It is heavily used for hunting, trapping and ATV riding.

**Unique Natural Features:**

Two branches of the Skunk Creek flow through this compartment.

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

None noted

**Special Management Designations or Considerations:**

This has been a historic deer wintering area.

**Watershed and Fisheries Considerations:**

Protect branches of Skunk Creek and East Branch Skunk Creek (Designated Trout Streams) with a 300 foot buffer for areas susceptible to Aspen regeneration. For areas not susceptible to Aspen regeneration, a minimum 100 feet, plus 5 feet per 1% increase in slope, riparian management zone is recommended to protect riparian areas in accordance with Best Management Practices. There are also wetland areas within this compartment (<https://www.mcgi.state.mi.us/wetlands/mcgiMap.html#>) If any treatments are near a wetland area, best management practices should be incorporated which include a 100' buffer. Streams, regardless of their size or frequency of flow, are connected to downstream waters and strongly influence their function. Additionally, wetlands and open waters in riparian areas and floodplains are physically, chemically, and biologically integrated with rivers via functions that improve downstream water quality. These systems act as effective buffers to protect downstream waters from pollution and are essential components of river food webs. BMP's should be implemented to control sediment sources from adjacent uplands. Fine sediments such as silt and sand negatively affect natural reproduction of fish, decrease the diversity of aquatic invertebrate and fish taxa, and result in lower overall fish populations.

**Wildlife Habitat Considerations:**

This compartment in part of a historic deer wintering complex so white-tailed deer was selected as a featured species. Maintenance and enhancement of conifer species to provide thermal cover, travel corridors, and dispersal through uplands to obtain forage will be critical. Maintenance of forest openings and mast producing trees and shrubs is very important for both deer and bear. Maintaining the integrity of lowland conifers, lowland hardwoods, riparian corridors, vernal pools and drainages will provide for necessary black bear habitat. Mature forest conditions that provide nesting and foraging habitat for northern goshawk will be part of this compartment's management. Incorporating smaller aspen stands, increased age-class diversity, and adequate conifer as a stand component will enhance this compartment for grouse and woodcock.

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

No known potential exists for commercial oil & gas production in this part of the state. The closest known active sand/gravel pit is less than two miles south, and two miles southeast is a quarry mining Randville dolomite. There is some good potential for development of gravel within the compartment on the uplands, but the glacial sediments also appear to be clay-rich. Furthermore, the compartment might be too far from populated areas (commercial markets) for any aggregate resources present to have much value beyond use by the county road commission or DNR for local road maintenance.

Significant past metallic mineral exploration test drilling was completed within and in the immediate vicinity of the compartment. Evidence from test drilling and geophysical data indicate the presence of iron-bearing formations beneath the compartment, but any ore deposits may be too deep and/or too low grade to be economical to mine. The setting is also suitable for the occurrence of other metallic and critical minerals, but there has been no identified legitimate prospects and no leasing activity in the area involving State-owned mineral rights within the past 15 years. Potential for future production of metallic minerals from within the compartment is considered low at this time

**Vehicle Access:**

Skunk Creek Rd on the south boundary; poor dirt roads or trails access most of the rest of the compartment.

**Survey Needs:**

Yes

**Recreational Facilities and Opportunities:**

Stream fishing, hunting, trapping, ATV riding, dispersed camping available in this compartment.

**Fire Protection:**

Felch protection area.

**Additional Compartment Information:**

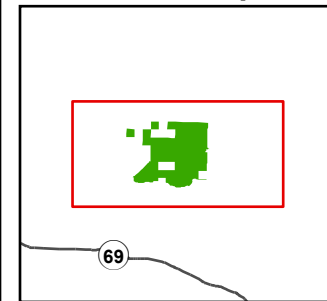
The following reports from the Inventory are attached:

- 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



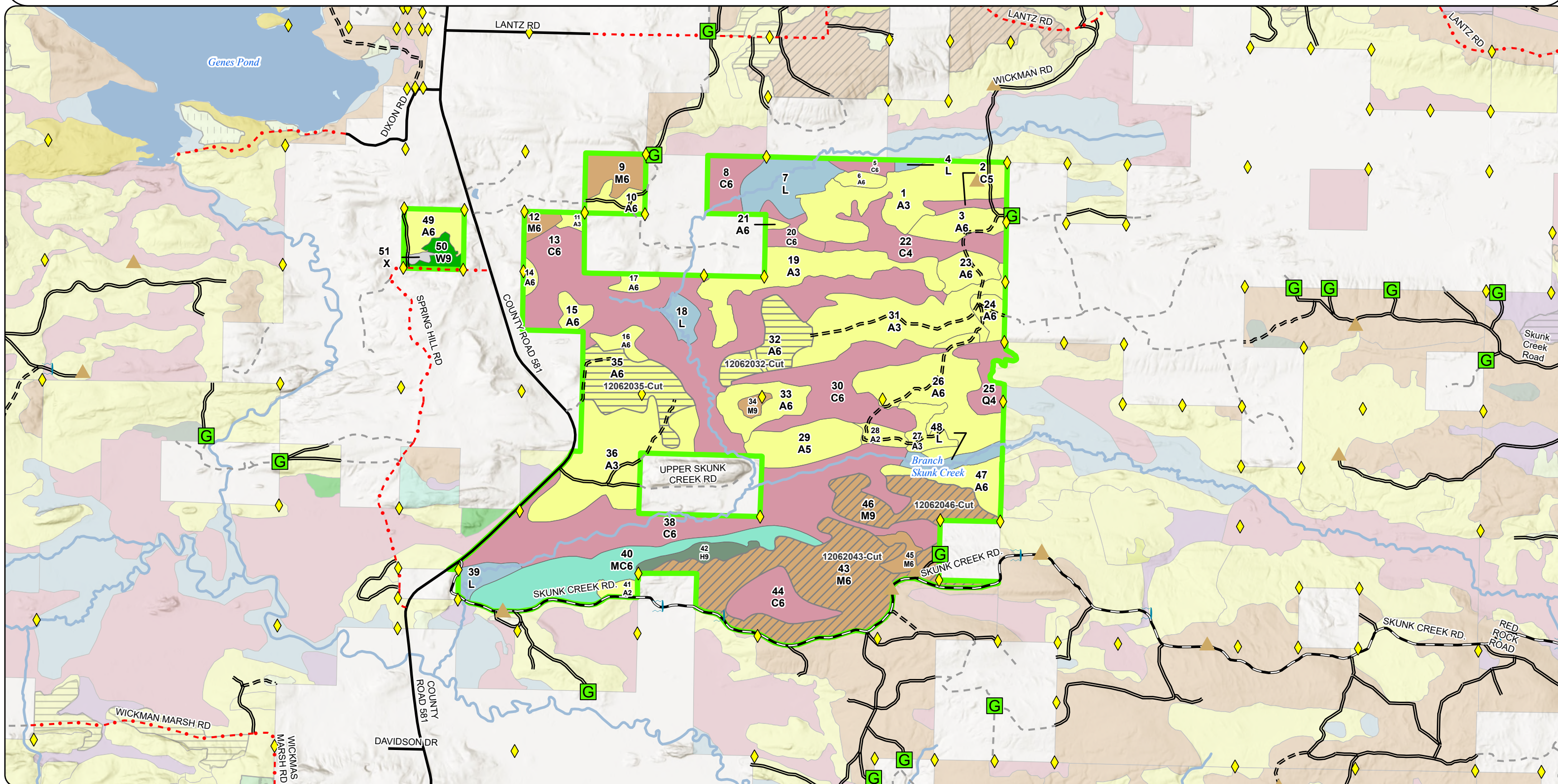
Compartment: 12062  
T42N R28W Sec 8-10, 15-17  
County: Dickinson  
Unit: Crystal Falls  
Mgmt. Area: Ralph Moraine  
YOE: 2027  
Acres: 2,073 GIS Calculated  
Examiner: Deb Goupell  
Date Exported: 11/14/2025  
Map Phase: Post Review

0 0.5 1 Miles

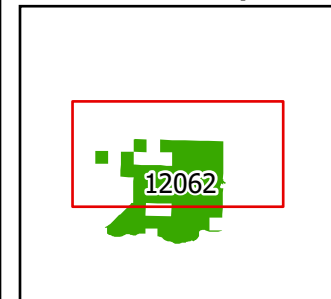
- Survey Grade Corners
- Berm
- Gate
- Culvert
- DNR - Primary Forest Road
- DNR - Secondary Forest Road
- DNR - Forest Access Route

- Federal / State / County - Paved Road
- County - Gravel Road
- Private - Dirt / Gravel Road
- Streams
- Lakes and Rivers
- Compartment Boundary
- Clearcut
- Thinning

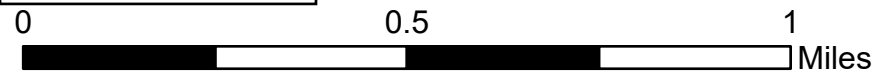
- 411 - Northern Hardwood
- 413 - Aspen
- 422 - Natural Pines
- 423 - Other Upland Conifers
- 429 - Mixed Upland Conifers
- 612 - Lowland Coniferous Forest
- 110 - Low Intensity Urban
- 622 - Lowland Shrub



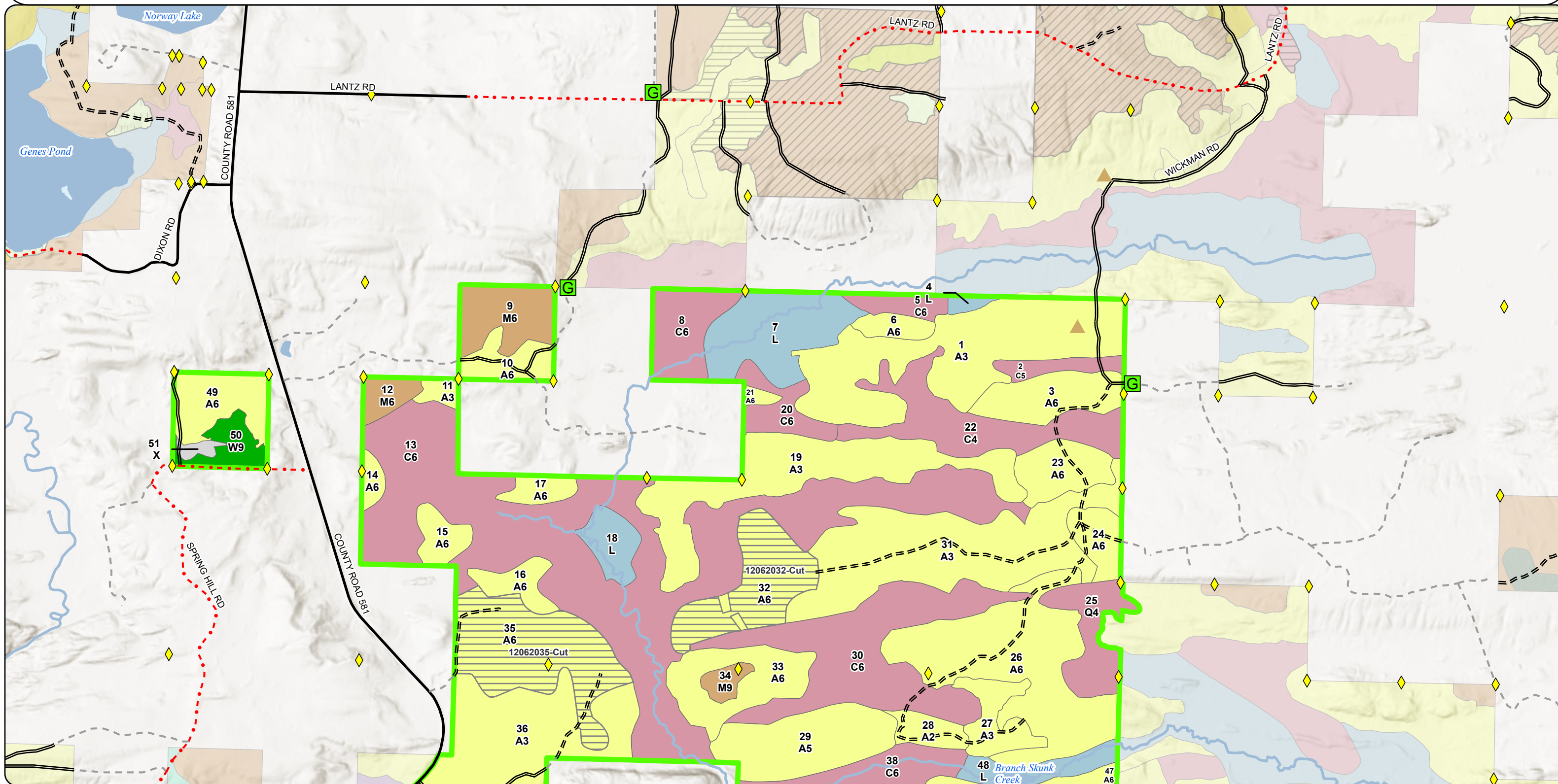
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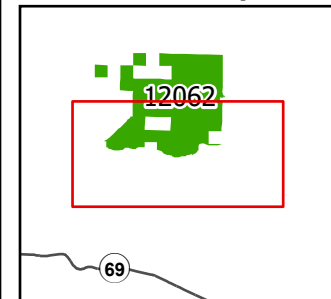
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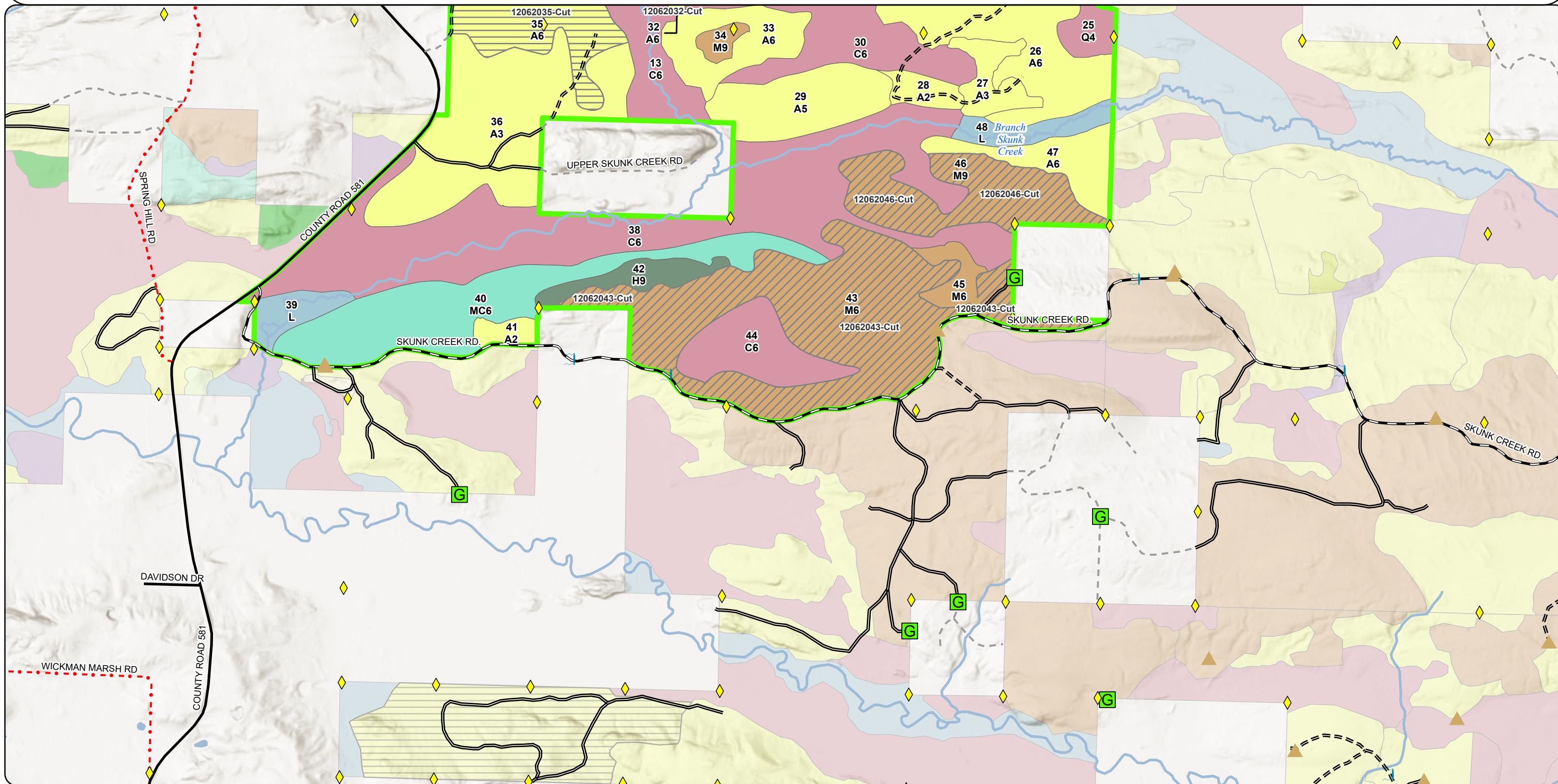


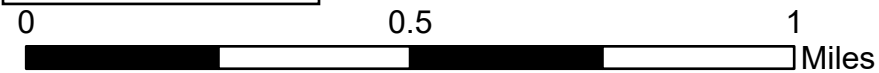
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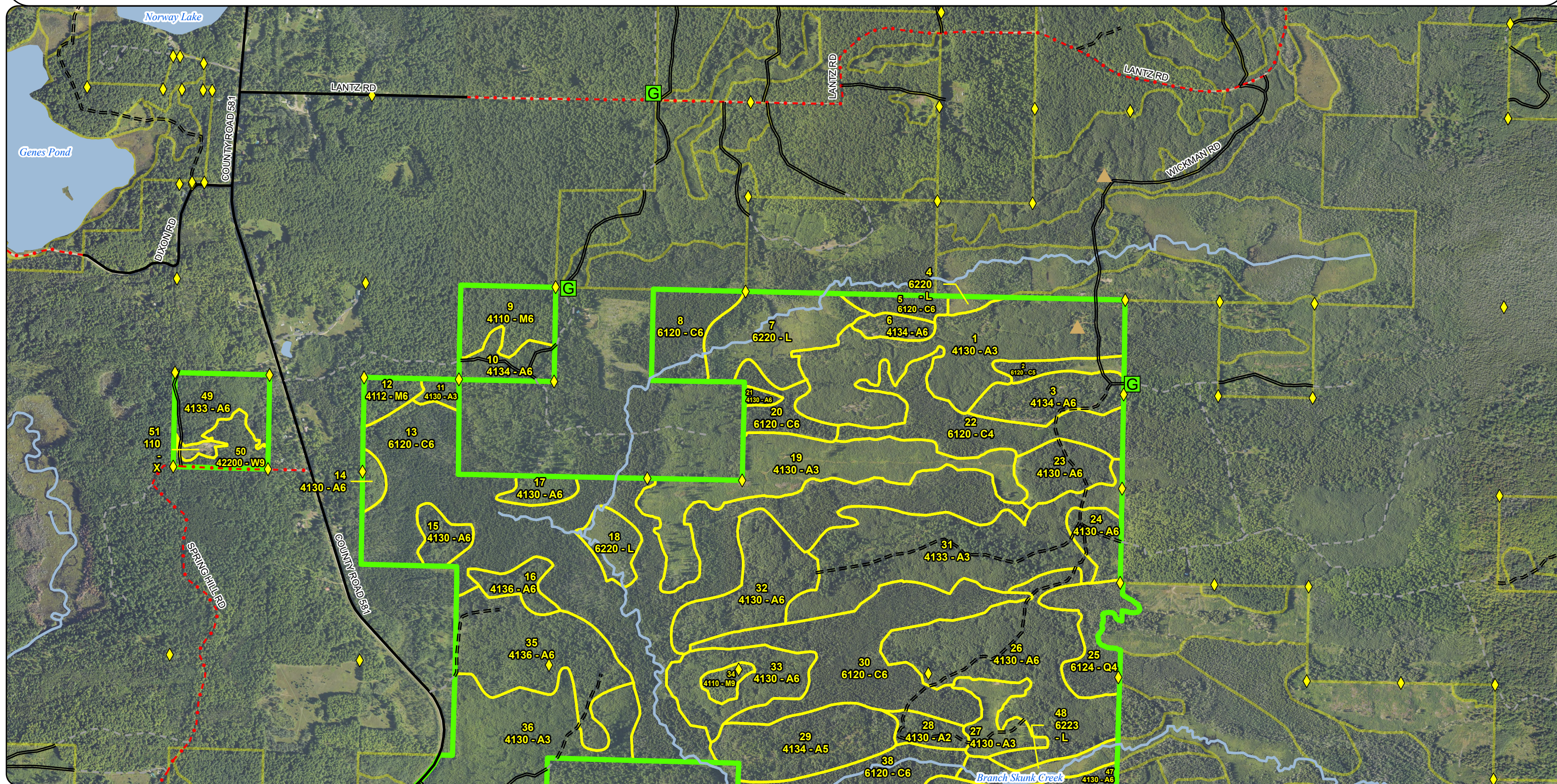
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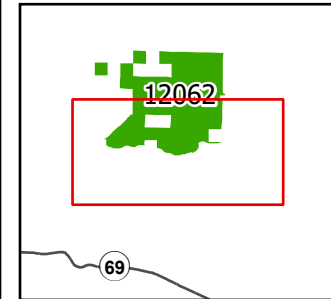


- |   |                             |  |                                       |
|---|-----------------------------|--|---------------------------------------|
|  | Survey Grade Corners        |   | Federal / State / County - Paved Road |
|  | Berm                        |   | County - Gravel Road                  |
|  | Gate                        |   | Private - Dirt / Gravel Road          |
|   |                             |   | Streams                               |
|  | DNR - Secondary Forest Road |   | Lakes and Rivers                      |
|  | DNR - Forest Access Route   |  | Compartment Boundary                  |

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# Stand Boundary Map



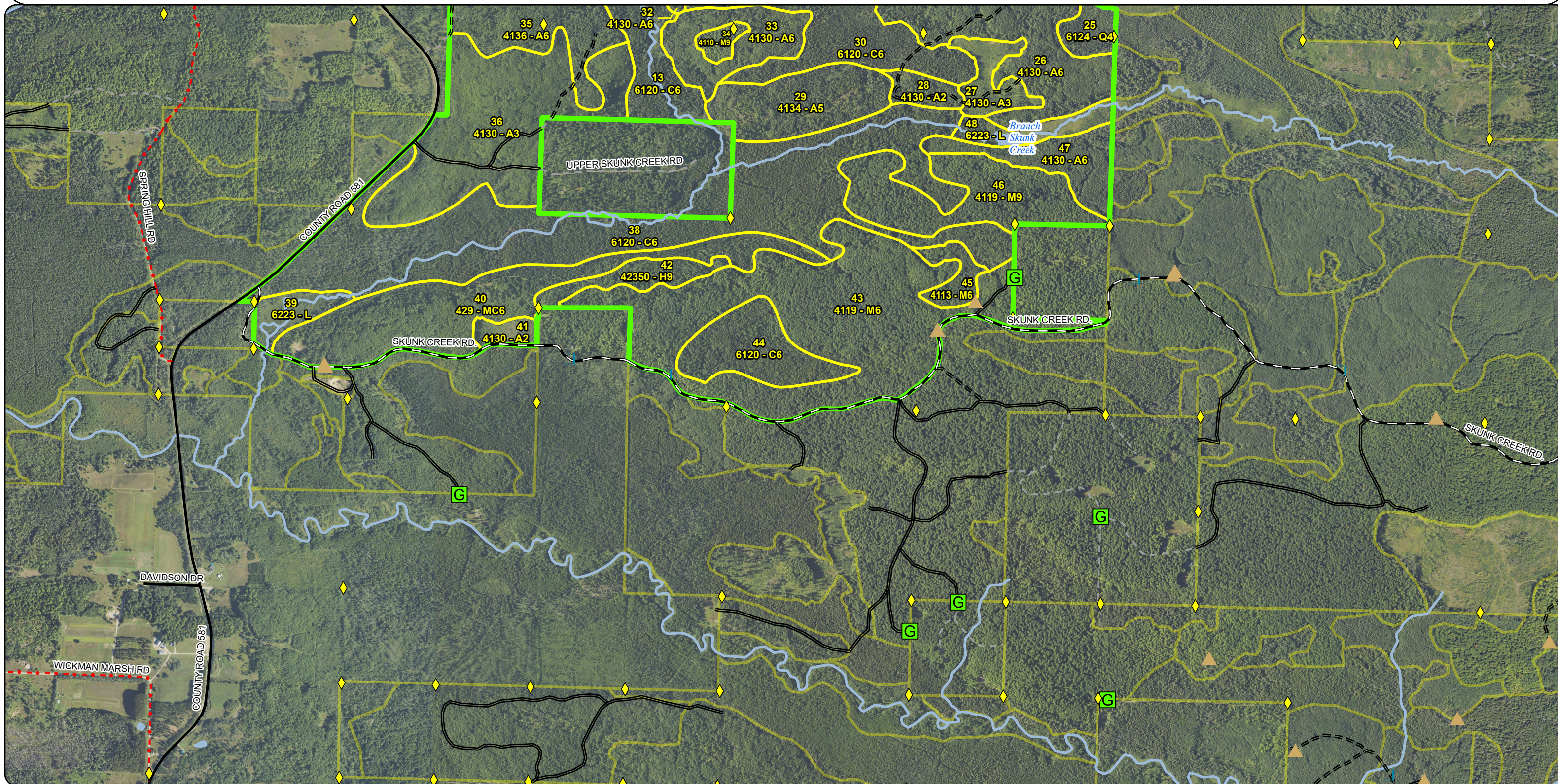
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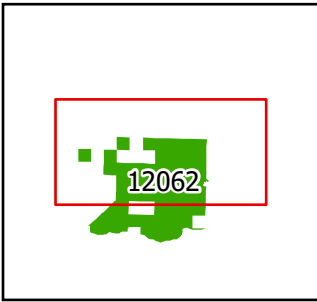
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# Special Conservation Areas & Site Conditions Map

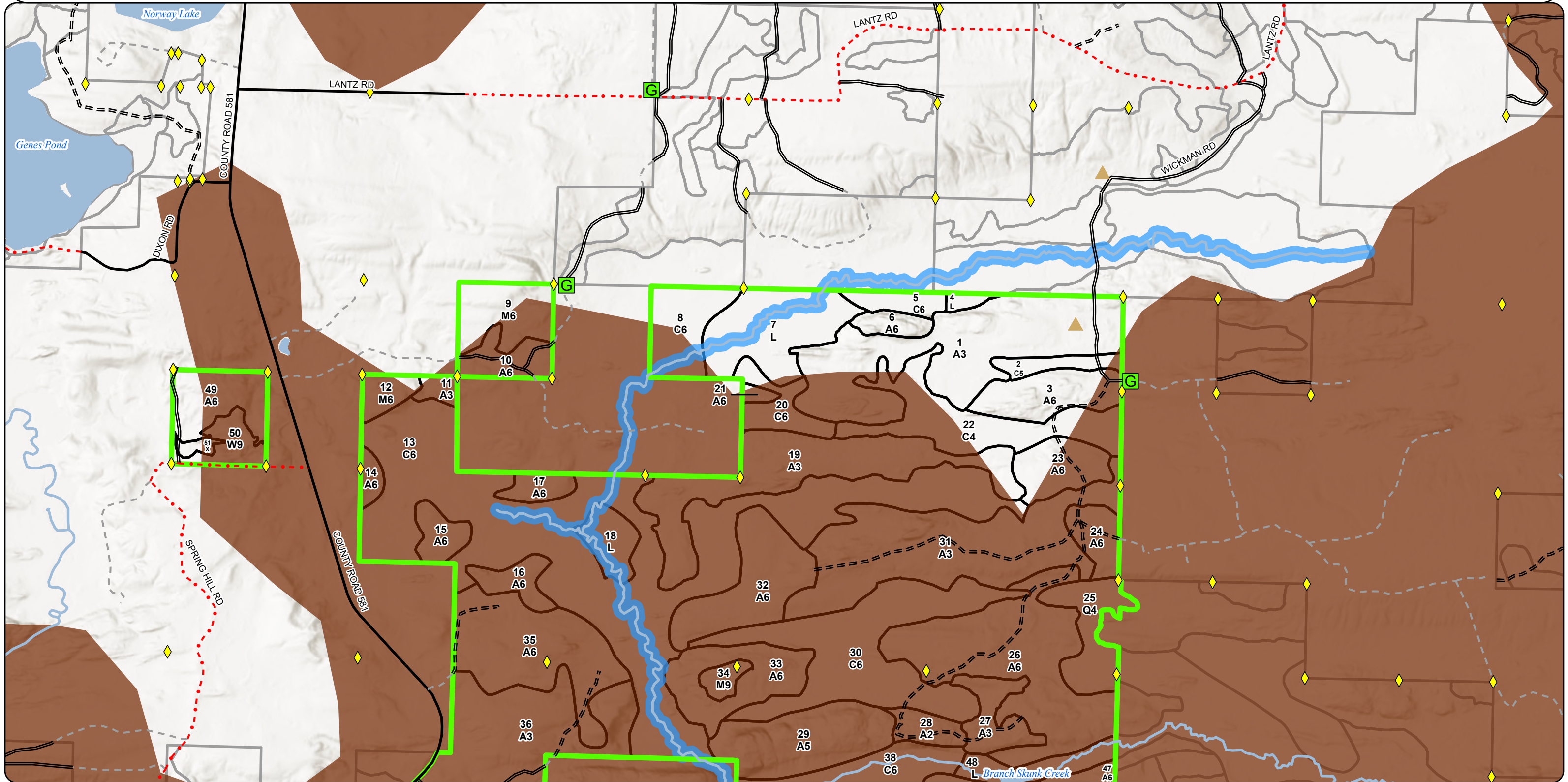
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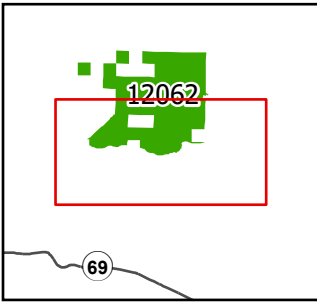
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- Stand Boundaries
- Cold Water Streams
- High Priority Trout Stream Buffer
- Deer Winter Range



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# 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	97	104	404	109	45	105	0	0	0	2	0	0	0	0	0	0	0	865
Cedar	0	0	0	0	0	0	0	0	0	0	141	262	278	0	0	0	0	0	681
Hemlock	0	0	0	0	0	0	0	0	0	0	0	0	17	0	0	0	0	0	17
Lowland Conifers	0	0	0	0	0	0	0	0	0	0	25	0	0	0	0	0	0	0	25
Lowland Shrub	90	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	90
Northern Hardwood	0	0	0	0	0	11	0	0	0	0	0	238	0	0	0	0	0	40	289
Upland Conifers	0	0	0	0	91	0	0	0	0	0	0	0	0	0	0	0	0	0	90
Urban	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
White Pine	0	0	0	0	0	0	0	0	0	0	13	0	0	0	0	0	0	0	12
Total	93	97	104	404	200	56	105	0	0	0	181	500	295	0	0	0	0	40	2072



## Report 2 – Treatment Summary

Crystal Falls Mgt. Unit  
Year of Entry: 2027

Acres of Harvest

Compartment 62  
Total Compartment Acres: 2,073

Commercial Harvest - 447  
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	104	0	0	0	0	0	0	0	0	104
Northern Hardwood	0	0	0	0	0	238	0	0	0	238
Total	104	0	0	0	0	238	0	0	0	342

### Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	342	0	0	0	0	0	0	0	0	342
Next Step	0	0	0	0	0	0	104	0	0	104
Total	342	0	0	0	0	0	104	0	0	446



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:**

<b>32</b>	<b>12062032-Cut</b>	40.8	4130 - Aspen	6	50	Unspec ified	Harvest	Clearcut	413 - Aspen	Planting Record	No
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Prescription Final harvest all stems " and up. Retain all cedar, white/red pine, clumps of submerchantable conifer where available. Corridor of conifer will be left as retention (shown in treatment).

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable aspen, mixed hardwood, mixed softwood

Regen:

Other

Comment:

Site Condition:

Proposed Start Date: 10/01/2026

<b>35</b>	<b>12062035-Cut</b>	62.8	4136 - Aspen, Mixed Conifer	6	50	Unspec ified	Harvest	Clearcut	413 - Aspen	Planting Record	No
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Prescription Final harvest all stems 3" and greater except cedar, white/red pine, hemlock. Red pine pocket will be kept as retention as well as conifer in the northwest corner. Retain clumps of live submerchantable conifer where available.

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable aspen, mixed softwood, mixed hardwood

Regen:

Other

Comment:

Site Condition:

Proposed Start Date: 10/01/2026

<b>43</b>	<b>12062043-Cut</b>	176.6	4119 - Mixed Northern Hardwoods	6	101	111- 140	Harvest	Thinning	411 - Northern Hardwood	Planting Record	No
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Prescription Thin to 70 BA following Compleat Marker. Retain some representation of minor species. No cedar, pine, hemlock, conifer will be cut. WLD requests this be a winter only harvest to feed deer.

Next Step

Treatments:

Acceptable mixed hardwood, mixed softwood

Regen:

Other

Be mindful of vernal ponds keeping 70% canopy cover

Comment:

Site Condition:

Proposed Start Date: 10/01/2026



Standard

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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46	12062046-Cut	61.8	4119 - Mixed Northern Hardwoods	9	102	111- 140	Harvest	Thinning	411 - Northern Hardwood	Planting Record	No
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Prescription Thin to 70 BA following Compleat Marker. Retain some representation of minor species. No cedar, pine, hemlock, conifer will be cut.

Specs:

Next Step

Treatments:

Acceptable mixed hardwood,mixed softwood

Regen:

Other

Comment:

Site Condition:

Proposed Start Date: 10/01/2026

Total Treatment 342  
Acreage Proposed:



Availability for Management

Total	Acres	Acres Avail	Acres	Dominant Site Conditions				
Acres	Available	With Condition	Not Available		3H	3J	3L	5E
766	757	0	9	Aspen	3		2	4
669	93	0	576	Cedar	567	9		
17	17	0	0	Hemlock				
25	25	0	0	Lowland Conifers				
90	90	0	0	Lowland Shrub				
289	289	0	0	Northern Hardwood				
90	91	0	0	Upland Conifers				
3	3	0	0	Urban				
12	13	0	0	White Pine				
1,962	1,377		586	Total Forested Acres	570	9	2	4
	70%		30%	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	Dominant Site Availability	Dominant Site Condition	Acres	Other Site Condition	Other Site Condition	Other Site Condition	Other Site Condition
1	Unavailable		3J: Water quality/BMPs (stream, river, or lake)	9	5A: Not able to obtain desirable regeneration	Unspecified	Unspecified	Unspecified
Comments:								
2	Unavailable		3H: Deer Wintering Area - habitat is incompatible with harvest at this time	200	5A: Not able to obtain desirable regeneration	Unspecified	Unspecified	Unspecified
Comments:								
6	Unavailable		5E: Long-Term Retention	4	Unspecified	Unspecified	Unspecified	Unspecified
Comments:								

## Report 4 – Site Conditions



7	Unavailable	3H: Deer Wintering Area - habitat is incompatible with harvest at this time	370	5A: Not able to obtain desirable regeneration	Unspecified	Unspecified	Unspecified
Comments:							
8	Unavailable	3L: Other wildlife concerns	2	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	Unspecified	Unspecified	Unspecified
Comments: Need to harvest through cedar to access this stand; water draining along east edge of this stand northerly. Low volume to capture for roadwork necessary to access. Other possibility is to access through private							

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
Comments				



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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																							
9	4110 - Sugar Maple Association	Poletimber Well	25.5	101	81-110	N/A	Private Access TS cut 2010. State received this 40 in 1993 in an exchange. White ash & ironwood very thick in east half, where BAs are more around 110																																																							
<table><tr><th>Canopy Species</th><th>% Cover</th><th>Size Class</th><th>DBH</th><th>Age</th></tr><tr><td>Sugar Maple</td><td>60</td><td>Log/Pole</td><td>13</td><td>101</td></tr><tr><td>Red Maple</td><td>1</td><td>Log/Pole</td><td>10</td><td></td></tr><tr><td>Basswood</td><td>37</td><td>Log/Pole</td><td>12</td><td></td></tr><tr><td>Paper Birch</td><td>2</td><td>Log/Pole</td><td>11</td><td></td></tr></table>		Canopy Species	% Cover	Size Class	DBH	Age		Sugar Maple	60	Log/Pole	13	101	Red Maple	1	Log/Pole	10		Basswood	37	Log/Pole	12		Paper Birch	2	Log/Pole	11		<table><tr><th>Sub-Canopy Species</th><th>Density</th><th>Avg. Height</th><th>Size</th></tr><tr><td>White Ash</td><td>High</td><td>10 - 20 feet</td><td>10 - 20 feet</td></tr><tr><td>Ironwood</td><td>Medium</td><td>Variable</td><td>Variable</td></tr></table>				Sub-Canopy Species	Density	Avg. Height	Size	White Ash	High	10 - 20 feet	10 - 20 feet	Ironwood	Medium	Variable	Variable																			
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10	4134 - Aspen, Spruce/Fir	Poletimber Well	14.7	33	Immature	N/A	Cut 1992; State received this 40 in 1993 in trade																																																							
<table><tr><th>Canopy Species</th><th>% Cover</th><th>Size Class</th><th>DBH</th><th>Age</th></tr><tr><td>Quaking Aspen</td><td>70</td><td>Pole/Sapling</td><td>5</td><td>33</td></tr><tr><td>Balsam Fir</td><td>10</td><td>Pole/Sapling</td><td>6</td><td></td></tr><tr><td>White Spruce</td><td>10</td><td>Pole/Sapling</td><td>6</td><td></td></tr><tr><td>Black Cherry</td><td>5</td><td>Sapling/Pole</td><td>4</td><td></td></tr><tr><td>Ironwood</td><td>5</td><td>Pole/Sapling</td><td>5</td><td></td></tr></table>		Canopy Species	% Cover	Size Class	DBH	Age		Quaking Aspen	70	Pole/Sapling	5	33	Balsam Fir	10	Pole/Sapling	6		White Spruce	10	Pole/Sapling	6		Black Cherry	5	Sapling/Pole	4		Ironwood	5	Pole/Sapling	5		<table><tr><th>Sub-Canopy Species</th><th>Density</th><th>Avg. Height</th><th>Size</th></tr><tr><td>Hazelnut (Spp.)</td><td>High</td><td>5 - 10 feet</td><td>5 - 10 feet</td></tr></table>				Sub-Canopy Species	Density	Avg. Height	Size	Hazelnut (Spp.)	High	5 - 10 feet	5 - 10 feet																		
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12	4112 - Maple, Beech, Cherry Association	Poletimber Well	8.7	101	81-110	N/A	Big bowl in center of stand. Some impressive sugar maple relics. White pine super canopy. South edge of stand has more conifer/pine/birch. Very heavy browse. White birch is falling out.																																																							
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13	6120 - Lowland Cedar	Poletimber Well	243.7	115	Unspecified	N/A	Cedar dbhs range all over. Larger diameters on stand perimeters. Very wet stand.																																																							
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14	4130 - Aspen	Poletimber Well	4.9	34	Immature	N/A	Stanton Line TS cut 1991. Stand is moving into pole size																																																							
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																															
28	4130 - Aspen	Sapling Medium	9.7	29	Immature	N/A	Upper Skunk Ck Club TS cut 1996; top of a knob. aspen thinner on top than edges and east end of stand																																																															
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29	4134 - Aspen, Spruce/Fir	Poletimber Medium	44.6	46	Unspecified	N/A	East Br. Skunk Ck TS cut 1979. This stand is on a rock; north facing slope has more conifer 2-6" dbh; top of rock is very scattered trees mostly less than 5"dbh. South and east of rock is thicker to aspen. Not easily accessible -- great retreat for bear/deer. Some mortality in conifer from SBW . Traces of black cherry on rock top and black spruce on north facing slope 1"dbh.																																																															
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30	6120 - Lowland Cedar	Poletimber Well	84.4	94	81-110	N/A	This stand is very wet.																																																															
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31	4133 - Aspen, Mixed Pine	Sapling Well	98.5	25	51-80	N/A	Pine Ridge TS cut 2000. White pine regen good near seed sources but browsed hard. Bedrock ridges run east/west																																																															
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32	4130 - Aspen	Poletimber Well	42.1	50	Unspecified	N/A	Very brushy (hazel, rasp) stand. Ready for cut																																																															
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																														
33	4130 - Aspen	Poletimber Well	33.2	29	Immature	N/A	Upper Skunk Ck Club TS cut 1996. Very wet access along trail from east Moving into pole class, dbh range 3-6". Some white pine left in far southwest																														
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34	4110 - Sugar Maple Association	Sawtimber Well	5.6	96	81-110	N/A	Too small to manage until aspen is cut. White pine seedlings are browsed hard																														
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35	4136 - Aspen, Mixed Conifer	Poletimber Well	62.8	50	Unspecified	N/A	some rocky knobs have smaller dbh aspen and trace cherry. Far south tip has ~3acres of RP/WP on rock knob. Several ridges run parallel E/W.Fair amount of blowdown on west and north where conifer was thickest (SBW mortality in conjunction with blowdown)																														
<table><tr><th>Canopy Species</th><th>% Cover</th><th>Size Class</th><th>DBH</th><th>Age</th></tr><tr><td>Quaking Aspen</td><td>75</td><td>Pole/Log</td><td>9</td><td>50</td></tr><tr><td>Balsam Fir</td><td>5</td><td>Pole</td><td>8</td><td></td></tr><tr><td>White Spruce</td><td>10</td><td>Pole</td><td>8</td><td></td></tr><tr><td>White Pine</td><td>5</td><td>Log/XLog</td><td>16</td><td></td></tr><tr><td>Red Pine</td><td>5</td><td>Log</td><td>14</td><td></td></tr></table>								Canopy Species	% Cover	Size Class	DBH	Age	Quaking Aspen	75	Pole/Log	9	50	Balsam Fir	5	Pole	8		White Spruce	10	Pole	8		White Pine	5	Log/XLog	16		Red Pine	5	Log	14	
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Balsam Fir	Low	Variable	Variable																																		
38	6120 - Lowland Cedar	Poletimber Well	208.7	100	Unspecified	N/A	Wide range of cedar diameters.																														
<table><tr><th>Canopy Species</th><th>% Cover</th><th>Size Class</th><th>DBH</th><th>Age</th></tr><tr><td>Balsam Poplar</td><td>5</td><td>Log/Pole</td><td>12</td><td></td></tr><tr><td>Black Spruce</td><td>10</td><td>Pole</td><td>7</td><td></td></tr><tr><td>Northern White Cedar</td><td>75</td><td>Log/Pole</td><td>10</td><td>100</td></tr><tr><td>Tamarack</td><td>10</td><td>Pole</td><td>7</td><td></td></tr></table>								Canopy Species	% Cover	Size Class	DBH	Age	Balsam Poplar	5	Log/Pole	12		Black Spruce	10	Pole	7		Northern White Cedar	75	Log/Pole	10	100	Tamarack	10	Pole	7						
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39	6223 - Inundated Shrub Swamp	None	14.1			No	OPIC - FMD: OI Stand Year Origin was																														



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																						
40	429 - Mixed Upland Conifers	Poletimber Well	90.5	33	Immature	N/A	Skunk Ck Rd TS cut 1992. The conifer makes up most of the east and north half. White pine is very bushy. Trace bits of cedar																																						
<table><tr><th>Canopy Species</th><th>% Cover</th><th>Size Class</th><th>DBH</th><th>Age</th></tr><tr><td>Quaking Aspen</td><td>40</td><td>Pole/Sapling</td><td>6</td><td>33</td></tr><tr><td>Balsam Fir</td><td>15</td><td>Pole/Sapling</td><td>6</td><td></td></tr><tr><td>White Spruce</td><td>30</td><td>Pole/Sapling</td><td>7</td><td></td></tr><tr><td>Tamarack</td><td>5</td><td>Sapling</td><td>4</td><td></td></tr><tr><td>White Pine</td><td>10</td><td>Pole</td><td>8</td><td></td></tr></table>								Canopy Species	% Cover	Size Class	DBH	Age	Quaking Aspen	40	Pole/Sapling	6	33	Balsam Fir	15	Pole/Sapling	6		White Spruce	30	Pole/Sapling	7		Tamarack	5	Sapling	4		White Pine	10	Pole	8									
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41	4130 - Aspen	Sapling Medium	7.3	5	Immature	N/A	Stand is on a rock knob facing south. Skunk Creek Scraps TS cut 2020. Trees 5-10 feet tall																																						
<table><tr><th>Canopy Species</th><th>% Cover</th><th>Size Class</th><th>DBH</th><th>Age</th></tr><tr><td>Red Maple</td><td>10</td><td>Sapling</td><td>1</td><td></td></tr><tr><td>Quaking Aspen</td><td>85</td><td>Sapling</td><td>1</td><td>5</td></tr><tr><td>Balsam Poplar</td><td>5</td><td>Sapling</td><td>1</td><td></td></tr></table>								Canopy Species	% Cover	Size Class	DBH	Age	Red Maple	10	Sapling	1		Quaking Aspen	85	Sapling	1	5	Balsam Poplar	5	Sapling	1																			
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42	42350 - Upland Hemlock	Sawtimber Well	16.7	115	111-140	N/A	White pine heavy on east end but scattered throughout. Thick hemlock over west half. Very rocky. Half of stand unharvestable as it's on a cliff face. Lots of deer use.																																						
<table><tr><th>Canopy Species</th><th>% Cover</th><th>Size Class</th><th>DBH</th><th>Age</th></tr><tr><td>Red Maple</td><td>5</td><td>Pole</td><td>9</td><td></td></tr><tr><td>Yellow Birch</td><td>5</td><td>Log/Pole</td><td>11</td><td></td></tr><tr><td>Northern White Cedar</td><td>5</td><td>Pole</td><td>9</td><td></td></tr><tr><td>White Pine</td><td>25</td><td>Log/XLog</td><td>16</td><td></td></tr><tr><td>Hemlock</td><td>60</td><td>Log/Pole</td><td>11</td><td>115</td></tr></table>								Canopy Species	% Cover	Size Class	DBH	Age	Red Maple	5	Pole	9		Yellow Birch	5	Log/Pole	11		Northern White Cedar	5	Pole	9		White Pine	25	Log/XLog	16		Hemlock	60	Log/Pole	11	115								
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43	4119 - Mixed Northern Hardwoods	Poletimber Well	176.8	101	111-140	N/A	BAs do not, for the most part, indicate urgent need to thin, however there does seem to be some use for sanitation (cracks, splits). Ironwood saps heavier n north. Everything just above snow is browsed very hard. YB and Black ash are more in the wetter depressions, red maple more on north end. Bed and bank on east end.																																						
<table><tr><th>Canopy Species</th><th>% Cover</th><th>Size Class</th><th>DBH</th><th>Age</th></tr><tr><td>Sugar Maple</td><td>45</td><td>Log/Pole</td><td>12</td><td>101</td></tr><tr><td>Red Maple</td><td>15</td><td>Pole</td><td>9</td><td></td></tr><tr><td>Yellow Birch</td><td>5</td><td>Log/Pole</td><td>11</td><td></td></tr><tr><td>Basswood</td><td>25</td><td>Log/Pole</td><td>12</td><td></td></tr><tr><td>Hemlock</td><td>10</td><td>Pole/Log</td><td>9</td><td></td></tr></table> <table><tr><th>Sub-Canopy Species</th><th>Density</th><th>Avg. Height</th><th>Size</th></tr><tr><td>Ironwood</td><td>Medium</td><td>Variable</td><td>Variable</td></tr></table>								Canopy Species	% Cover	Size Class	DBH	Age	Sugar Maple	45	Log/Pole	12	101	Red Maple	15	Pole	9		Yellow Birch	5	Log/Pole	11		Basswood	25	Log/Pole	12		Hemlock	10	Pole/Log	9		Sub-Canopy Species	Density	Avg. Height	Size	Ironwood	Medium	Variable	Variable
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Ironwood	Medium	Variable	Variable																																										
44	6120 - Lowland Cedar	Poletimber Well	37.5	104		N/A	Hungry Deer TS cut 1996; aspen, balm of gilead, birch, maple, spruce, & fir were cut if over 4 sticks. Good overstory cover of cedar. Hemlock on north side of this stand																																						
<table><tr><th>Canopy Species</th><th>% Cover</th><th>Size Class</th><th>DBH</th><th>Age</th></tr><tr><td>Yellow Birch</td><td>7</td><td>Log/Pole</td><td>10</td><td></td></tr><tr><td>Northern White Cedar</td><td>70</td><td>Log/Pole</td><td>12</td><td>104</td></tr><tr><td>Hemlock</td><td>20</td><td>Log</td><td>14</td><td></td></tr><tr><td>Black Ash</td><td>3</td><td>Pole</td><td>8</td><td></td></tr></table> <table><tr><th>Sub-Canopy Species</th><th>Density</th><th>Avg. Height</th><th>Size</th></tr><tr><td>Quaking Aspen</td><td>Low</td><td>10 - 20 feet</td><td>10 - 20 feet</td></tr></table>								Canopy Species	% Cover	Size Class	DBH	Age	Yellow Birch	7	Log/Pole	10		Northern White Cedar	70	Log/Pole	12	104	Hemlock	20	Log	14		Black Ash	3	Pole	8		Sub-Canopy Species	Density	Avg. Height	Size	Quaking Aspen	Low	10 - 20 feet	10 - 20 feet					
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																			
45	4113 - R.Maple, Conifer	Poletimber Well	10.9	48	1-50	N/A	Most of stems are multi-stemmed. Conifer pocket in south central with a trace of cedar is wetter.																																			
<table><tr><th>Canopy Species</th><th>% Cover</th><th>Size Class</th><th>DBH</th><th>Age</th></tr><tr><td>Sugar Maple</td><td>20</td><td>Sapling/Pole</td><td>4</td><td>48</td></tr><tr><td>Red Maple</td><td>55</td><td>Pole/Sapling</td><td>7</td><td>48</td></tr><tr><td>Quaking Aspen</td><td>5</td><td>Pole</td><td>6</td><td></td></tr><tr><td>Balsam Fir</td><td>15</td><td>Pole/Sapling</td><td>6</td><td></td></tr><tr><td>Northern White Cedar</td><td>5</td><td>Pole/Log</td><td>9</td><td></td></tr></table>								Canopy Species	% Cover	Size Class	DBH	Age	Sugar Maple	20	Sapling/Pole	4	48	Red Maple	55	Pole/Sapling	7	48	Quaking Aspen	5	Pole	6		Balsam Fir	15	Pole/Sapling	6		Northern White Cedar	5	Pole/Log	9						
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46	4119 - Mixed Northern Hardwoods	Sawtimber Well	61.6	102	111-140	N/A	Allinger TS cut 2008. Much of the hemlock is half dead or snags. Only fair quality hardwood stand. A few white pine.																																			
<table><tr><th>Canopy Species</th><th>% Cover</th><th>Size Class</th><th>DBH</th><th>Age</th></tr><tr><td>Sugar Maple</td><td>54</td><td>Log/Pole</td><td>12</td><td>102</td></tr><tr><td>Red Maple</td><td>20</td><td>Log/Pole</td><td>10</td><td></td></tr><tr><td>Yellow Birch</td><td>5</td><td>Log/Pole</td><td>11</td><td></td></tr><tr><td>Basswood</td><td>15</td><td>Log/Pole</td><td>12</td><td></td></tr><tr><td>Northern White Cedar</td><td>1</td><td>Log/Pole</td><td>10</td><td></td></tr><tr><td>Hemlock</td><td>5</td><td>Log/Pole</td><td>10</td><td></td></tr></table>								Canopy Species	% Cover	Size Class	DBH	Age	Sugar Maple	54	Log/Pole	12	102	Red Maple	20	Log/Pole	10		Yellow Birch	5	Log/Pole	11		Basswood	15	Log/Pole	12		Northern White Cedar	1	Log/Pole	10		Hemlock	5	Log/Pole	10	
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47	4130 - Aspen	Poletimber Well	28.0	34	Immature	N/A	Skunk Ck Trail TS cut 1991. Far west finger is scattered cherry, balsam, spruce, hazel. Most of the conifer is directly on north of stand along Skunk Creek.																																			
<table><tr><th>Canopy Species</th><th>% Cover</th><th>Size Class</th><th>DBH</th><th>Age</th></tr><tr><td>Quaking Aspen</td><td>90</td><td>Pole/Sapling</td><td>6</td><td>34</td></tr><tr><td>Balsam Fir</td><td>5</td><td>Pole</td><td>6</td><td></td></tr><tr><td>White Spruce</td><td>5</td><td>Pole/Sapling</td><td>6</td><td></td></tr></table>								Canopy Species	% Cover	Size Class	DBH	Age	Quaking Aspen	90	Pole/Sapling	6	34	Balsam Fir	5	Pole	6		White Spruce	5	Pole/Sapling	6																
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White Spruce	Low	Variable	Variable																																							
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48	6223 - Inundated Shrub Swamp	None	15.0			No																																				
49	4133 - Aspen, Mixed Pine	Poletimber Well	24.7	32	Immature	N/A	Stand Year Origin was 1993. White pine regen heavy in west. RP/WP super canopy dominant on west line.																																			
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50	42200 - Natural White Pine	Sawtimber Well	12.5	90	81-110	N/A	Harvested 2012 with "Spring Hill Select" sale #12-080-10-01.																																			
<table><tr><th>Canopy Species</th><th>% Cover</th><th>Size Class</th><th>DBH</th><th>Age</th></tr><tr><td>White Pine</td><td>60</td><td>Log</td><td>16</td><td>90</td></tr><tr><td>Red Pine</td><td>40</td><td>Log</td><td>14</td><td></td></tr></table>								Canopy Species	% Cover	Size Class	DBH	Age	White Pine	60	Log	16	90	Red Pine	40	Log	14																					
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51	110 - Low Intensity Urban	None	2.7			No	OPIC - FMD: SCHOOL FOREST GRAVEL PIT.																																			