

# Compartment Review Presentation

Newberry Forest Management Unit

Compartment 42069

Entry Year: 2027

Acreage: 2,050

County: Chippewa

Management Area: Grand Marais Moraine Complex

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**Stand Examiner:** Matt Payment

## **Legal Description:**

T48N R6W Sections 3, 4 & 5

T49N R6W Sections 27, 33 & 34

## **Identified Planning Goals:**

Maintain or improve the forest health and productivity through limited timber management while simultaneously protecting the unique natural communities found within the compartment. Increase age class and structural diversity in forested upland stands. Through any management, care should be taken to maintain the integrity of the sensitive communities associated with the patterned fen complex within the compartment.

## **Soil and topography:**

Lowland peat soils and muck soils dominate the compartment. Forested cover types on these lowland soils are mainly treed bogs, sub-merchantable, low quality cedar, and some open bogs. Subtle ridges and higher ground within the compartment are comprised of sand or sand loams producing forested cover types of mixed deciduous, white birch, white pine, red pine and black spruce. The topography of the compartment is primarily level, low ground with slight ridges in the eastern portions of the compartment and areas of higher ground along the western reaches of the compartment.

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

The compartment is entirely State owned. The compartment is bordered by private property to the east and to the north. The western boundary is bordered primarily by two large private land holdings, the Hiawatha Club and the Maranatha Preserve (wildlife preserve). To the south of the compartment lies the Tahquamenon Falls State Park. Land use and development are substantial to the east of the compartment with many small private parcels containing either permanent or seasonal residences along Lake Superior. Land use and development to the north is increasing with the parceling and sale of many private properties. The lands to the west and south of the compartment should see very little development with the State Park and the wildlife preserve. Due to the lowland nature and "inaccessibility" of the compartment, land use within the compartment boundaries will remain minimal.

## **Unique Natural Features:**

MNFI has documented a Patterned Fen within sections 33, 34, and 3, 4 of the compartment, and lists a number of unique plants associated with the Patterned Fen. There is the potential for various wildlife such as osprey, moose, eagle and Blanding's turtle. There's also the potential for unique plants such as yellow pitcher plant, English sundew, black crowberry and a host of others. Black Creek flows through the compartment and out to Lake Superior.

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

The Bureau of History does not list any records of historical features within the compartment. There are no concerns for this compartment.

## **Special Management Designations or Considerations:**

Most of the compartment is a large complex of unique communities and features associated with the Patterned Fen. Those stands comprising the patterned fen and adjacent area have been designated as a Special Conservation Area (SCA). Possible effects on this system should be carefully considered when management activities take place.

## **Watershed and Fisheries Considerations:**

Fisheries Concerns: Black Creek, Clark's Creek, and O'Brien's Creek are located within this compartment. O'Brien's Creek is listed as a Type-1 designated trout stream, while Black Creek and Clark's Creek are not. Stand 1 near O'Brien's Creek has the appropriate minimum 100-foot riparian management zone (RMZ) applied. Stand 10 treatment covers Clark's Creek, so a minimum 100 foot, plus 5 feet per 1% increase in slope, RMZ should be applied to in accordance with BMP's near surface water.

## **Wildlife Habitat Considerations:**

Compartment 69 lies in northern Chippewa County along Lake Superior and is in the Grand Marais Moraine Complex

Management Area. This compartment is dominated by bogs, marshes and lowland brush with a medium component of swamp conifers and scattered fir, birch and aspen stands. Approximately 1/4 to 1/3 of the compartment consists of wildlife purchased lands. Harvested stands have similar species diversity and thus maintaining as much structural and species diversity as possible and remaining trees will provide food sources, nest and den trees, and improve stand diversity. Wildlife species potentially using this compartment include white-tailed deer, moose, black bear, gray wolves, grouse, and mink. Featured species include Blackburnian warbler, black throated blue warbler, American marten, Kirtland's warbler, red crossbill, spruce grouse, ruffed grouse and white-tailed deer.

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

Sections 27, 33, & 34, T49N R6W and sections 3-5, T48N R6W, Chippewa County.

Surface sediments consist of lacustrine sand and gravel and peat and muck. There is insufficient data to determine the glacial drift thickness (~ 100-300 feet). The Precambrian Jacobsville Sandstone subcrops below the glacial drift. The Jacobsville was used as a building stone in the past. There may be some minor sand and gravel pits in Section 22, and there may be some potential within the compartment. There is no economic oil and gas production in the UP.

### **Vehicle Access:**

The compartment is located one mile south of Paradise, west of M-123. The main access to the general vicinity of the compartment is via Highway M-123 to the east. Preacher Lakes Road approaches the compartment from the northwest but is gated at the private property. Vehicle access to the actual compartment is limited to those with permission to cross private land. There is some ORV activity in the southwestern portion of the compartment, coming from the adjacent private land. During winter months, access can be via the groomed snowmobile trail.

### **Survey Needs:**

Survey needs are dependent on access issues. If access is gained and timber management occurs, the following corners are needed: W1/16, SW1/16 and S1/16 of Section 27; 1/4 corner between Sec 27 and 34; the N1/16, Center, and S1/16 of Section 34; These survey needs will be prioritized once it is certain whether or not access can be acquired.

### **Recreational Facilities and Opportunities:**

The Paradise-Raco snowmobile trail (trail #8) runs through the eastern most part of the compartment. Other recreational opportunities are limited due to access through private land, but would include hunting, hiking, and wildlife viewing.

### **Fire Protection:**

The Whitefish Zone Dispatch Area touches the northern and northwestern portions of this compartment. This area will have long response times and lowland conifers may make suppression activities difficult. Due to the presence of the patterned fen and associated sensitive soils, Minimal Impact Suppression Tactic (MIST) should be implemented when suppressing wildfires in the majority of the compartment.

### **Additional Compartment Information:**

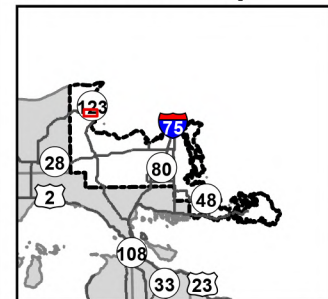
#### **The following reports from the Inventory are attached:**

- 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



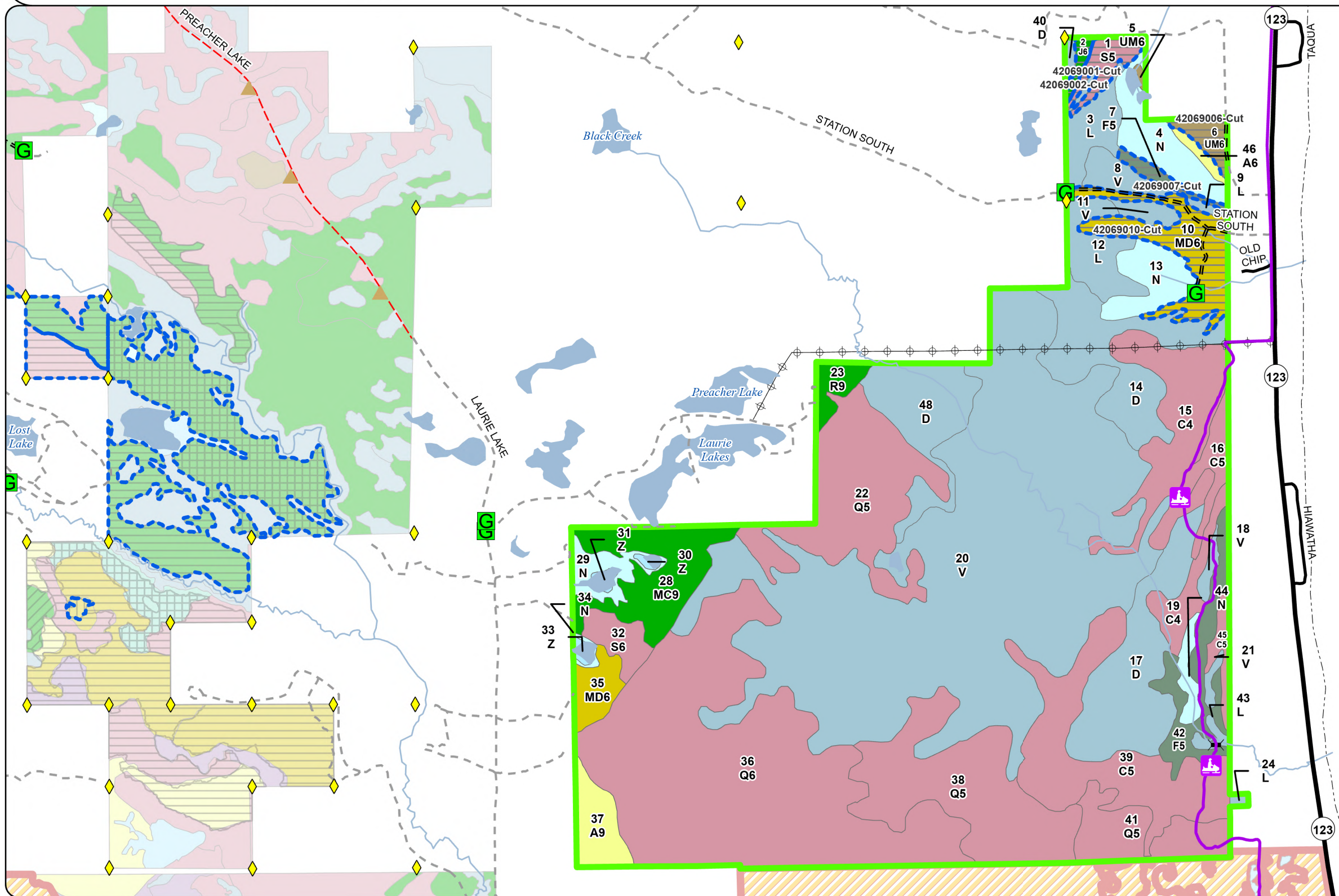
Compartment: 42069  
T49N R06W Sec. 32-34, 27  
T48N R06W Sec. 03-05  
County: Chippewa  
Unit: Newberry  
Mgmt. Area: Grand Marais Moraine Complex  
YOE: 2027  
Acres: 2,050 GIS Calculated  
Examiner: Matt Payment  
Date Exported: 08/19/2025  
Map Phase: Web Post

- Survey Grade Corners
- Berms
- Gate
- Bridges
- Designated Snowmobile Trails
- DNR - Forest Access Route

- Federal / State Highway
- Federal / State / County - Paved Road
- County - Dirt Road (Seasonal)
- Private - Dirt / Gravel Road
- Perennial River
- Powerline
- Lakes and Rivers

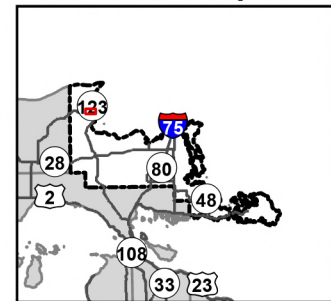
- Counties
- Compartment Boundary
- Clearcut
- Treatments with Site Conditions
- 413 - Aspen
- 419 - Mixed Upland Deciduous
- 422 - Natural Pines

- 423 - Other Upland Conifers
- 430 - Upland Mixed Forest
- 500 - Water
- 612 - Lowland Coniferous Forest
- 622 - Lowland Shrub
- 623 - Emergent Wetland





# Cover Type & Treatments Map



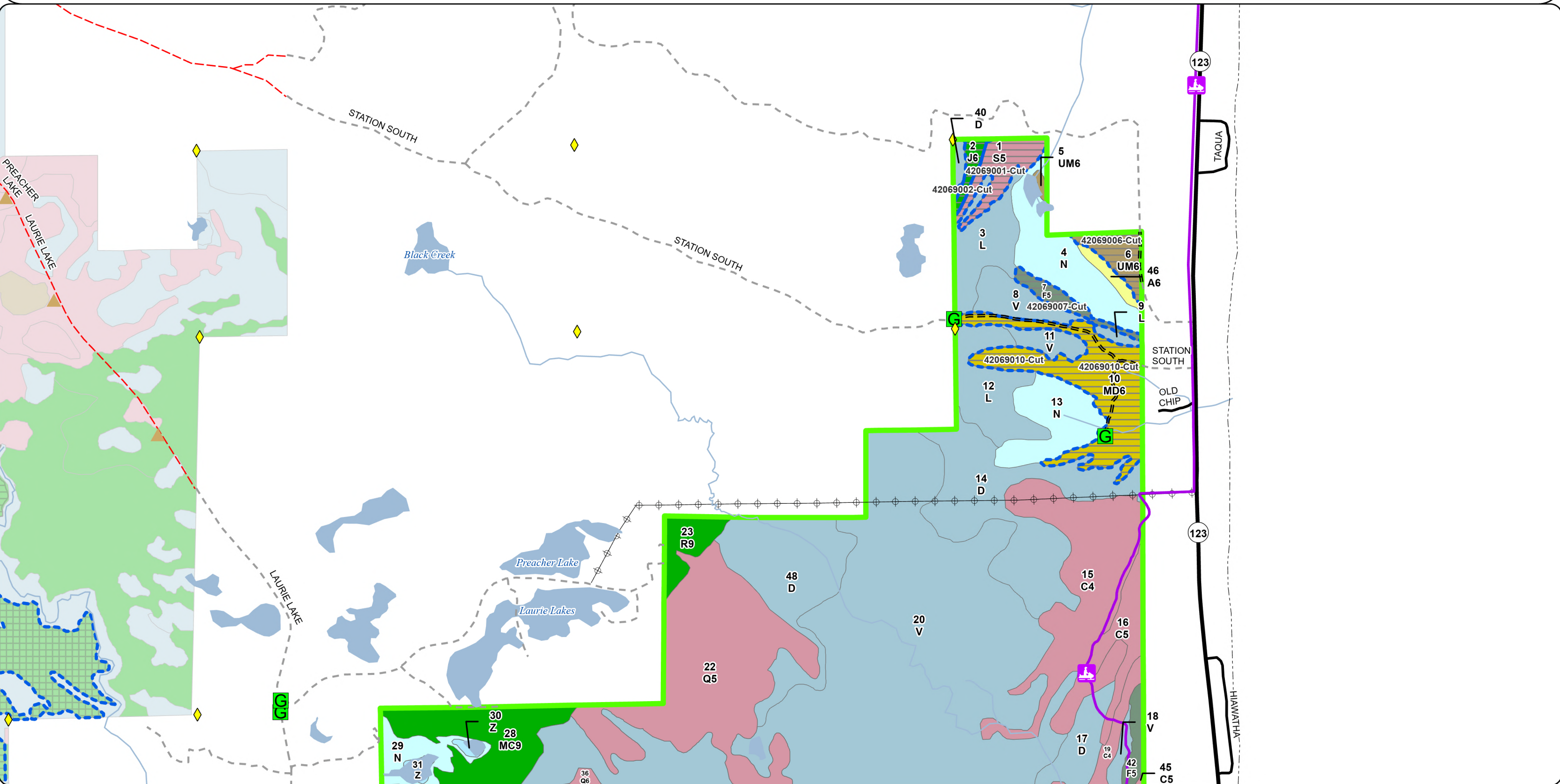
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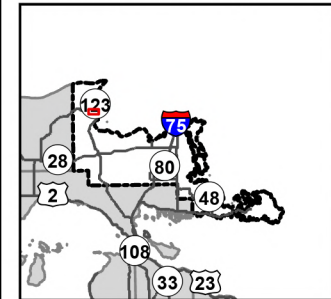
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0.5

1

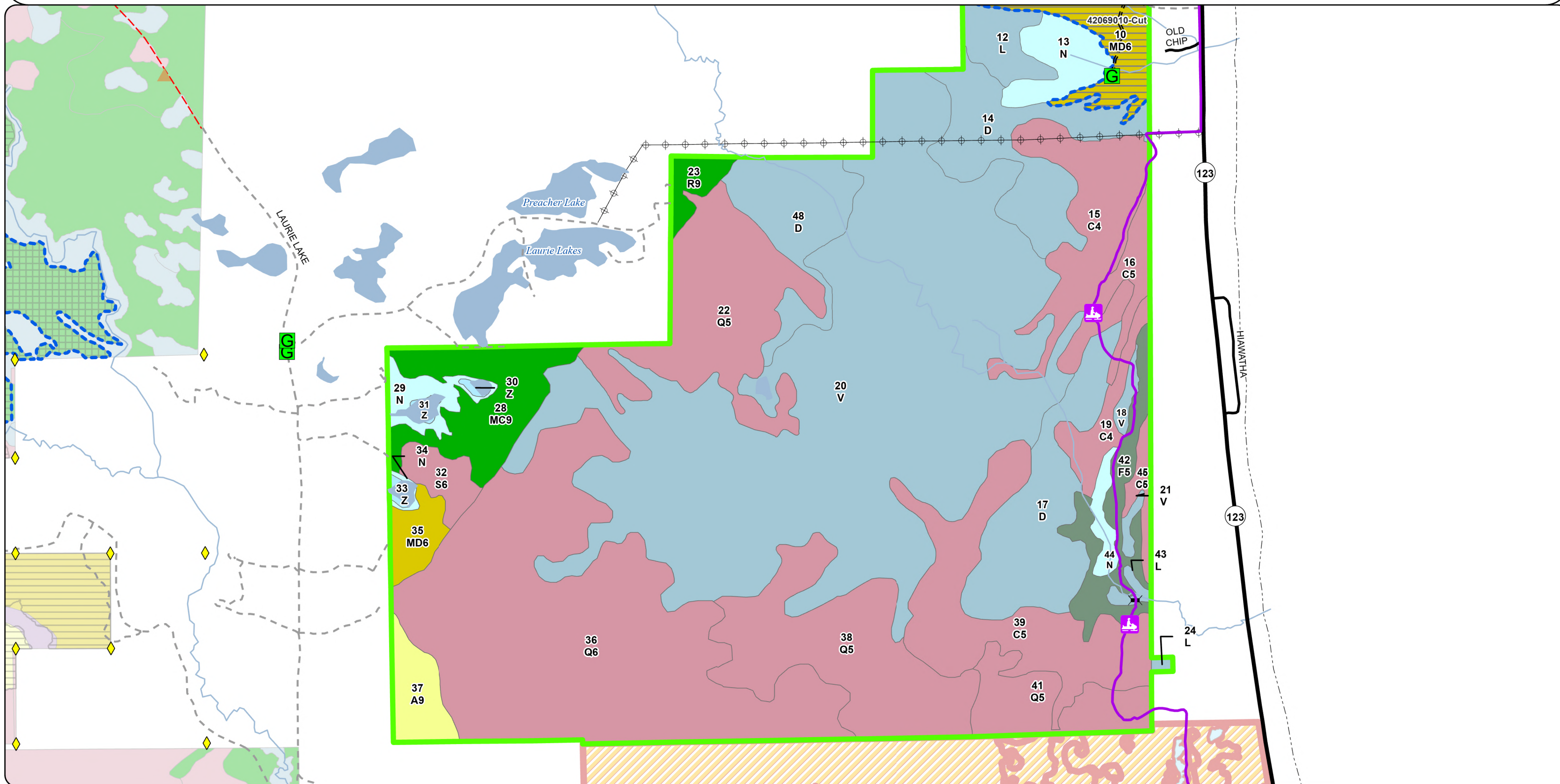
Miles

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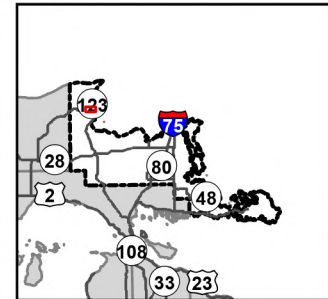
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# Stand Boundary Map



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T48N R06W Sec. 03-05  
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0.5

1

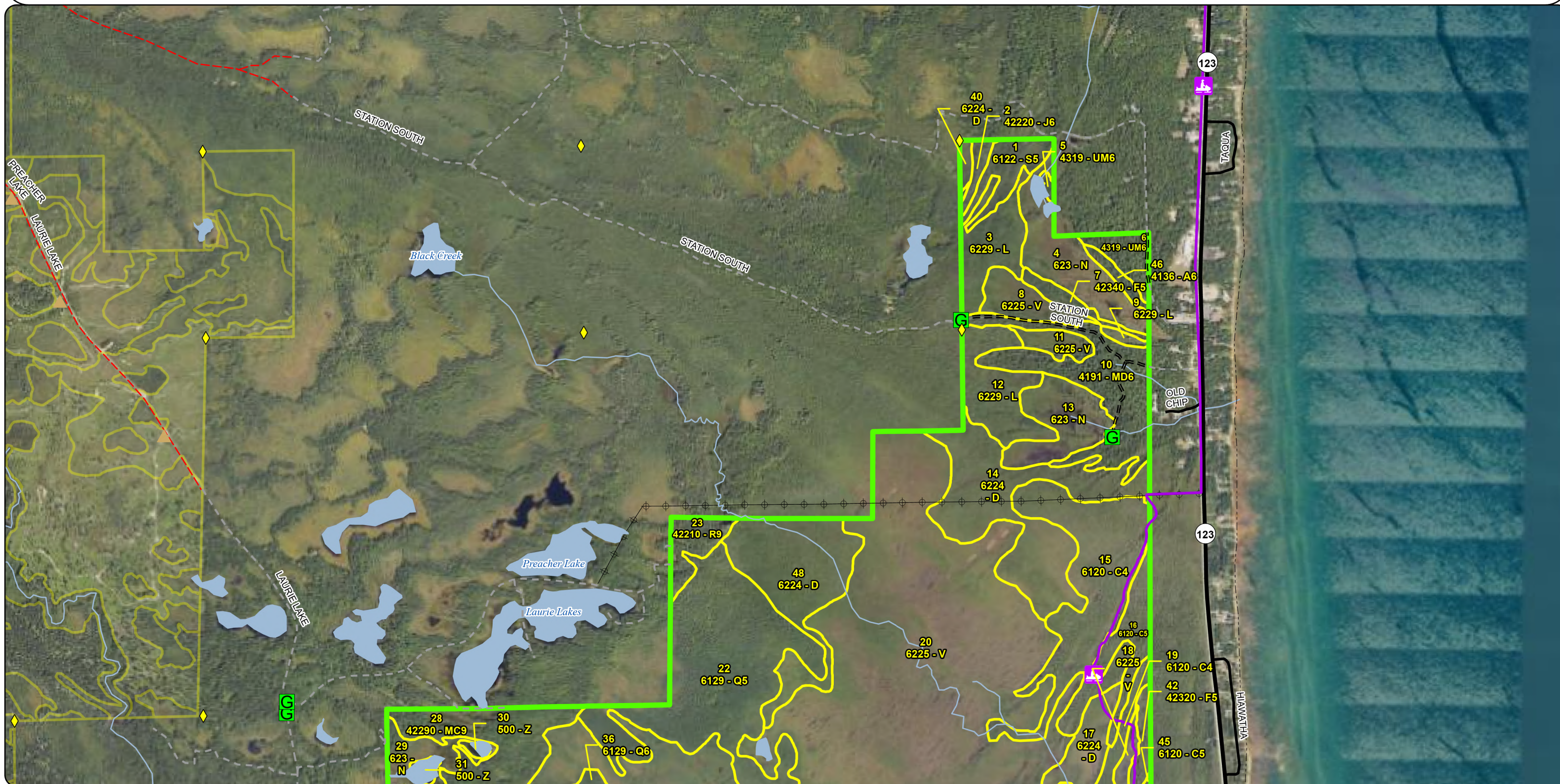
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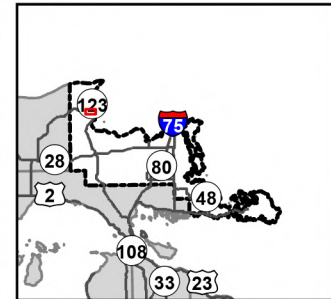
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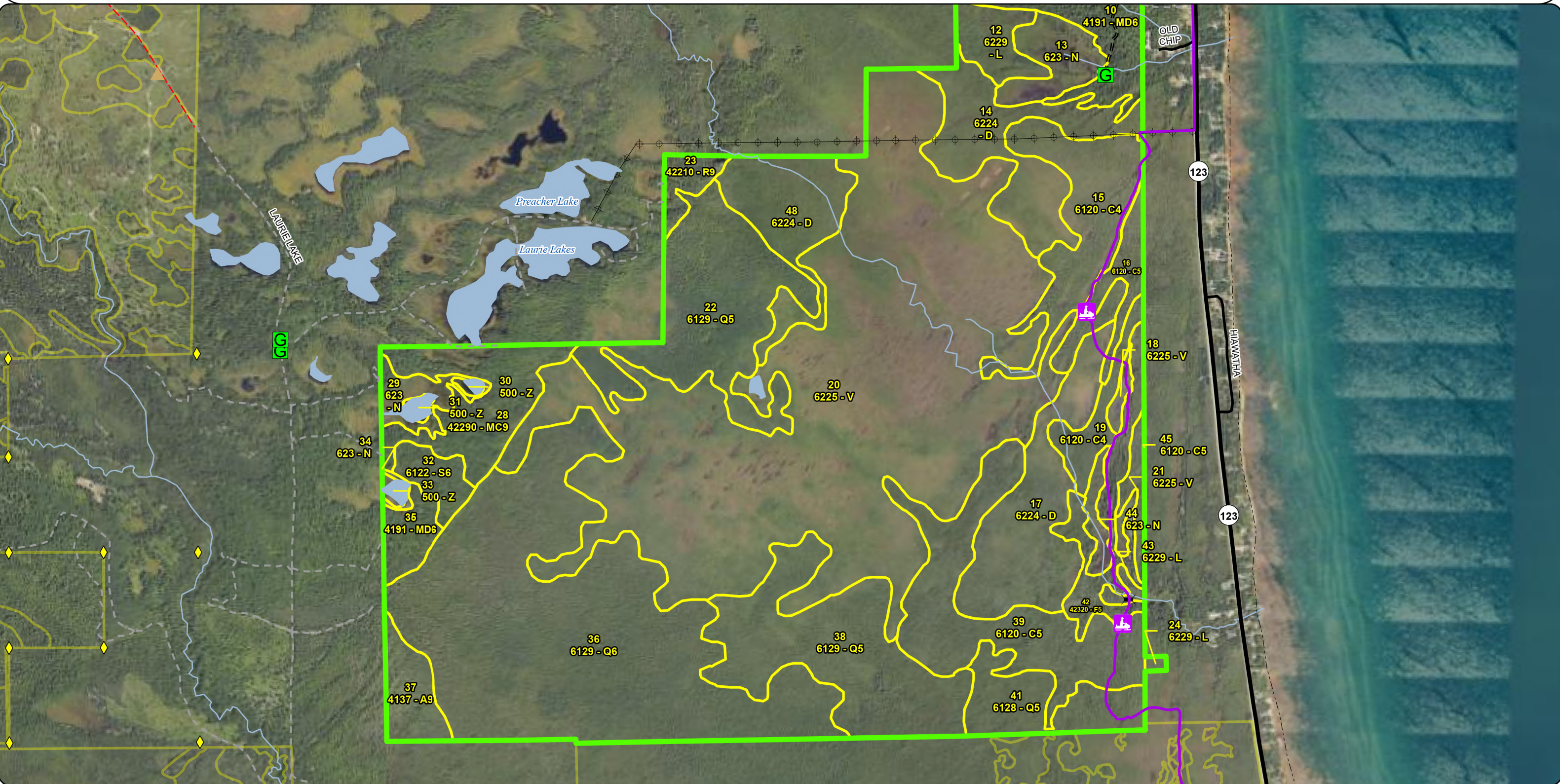
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**Special Conservation Areas  
& Site Conditions Map**

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0.5

1

Miles



Survey Grade Corners



Berms



Gate



Designated Snowmobile Trails



DNR - Forest Access Route



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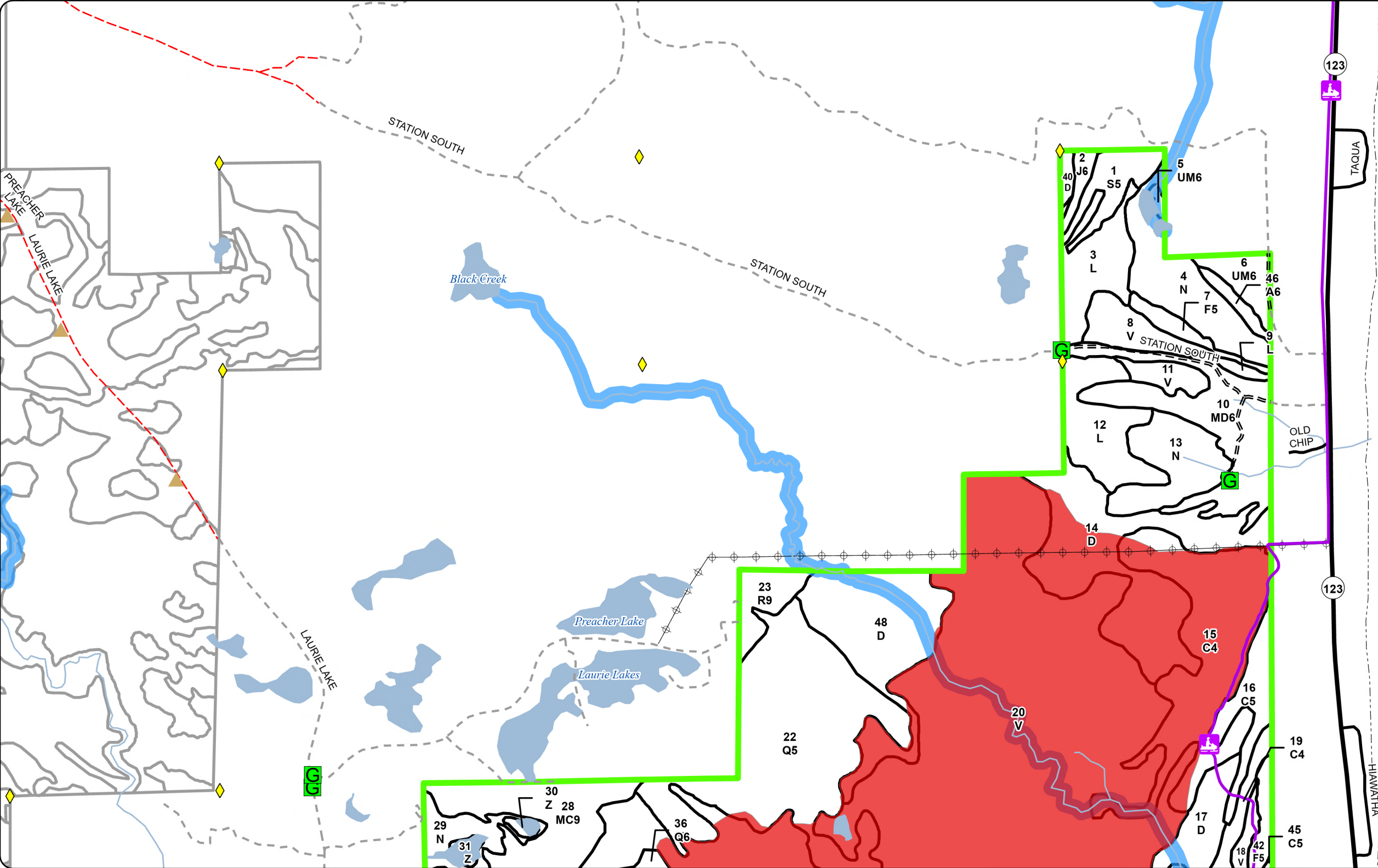
Compartment Boundary

Stand Boundaries

Ecological Reference Areas

Cold Water Streams

High Priority Trout Stream Buffer





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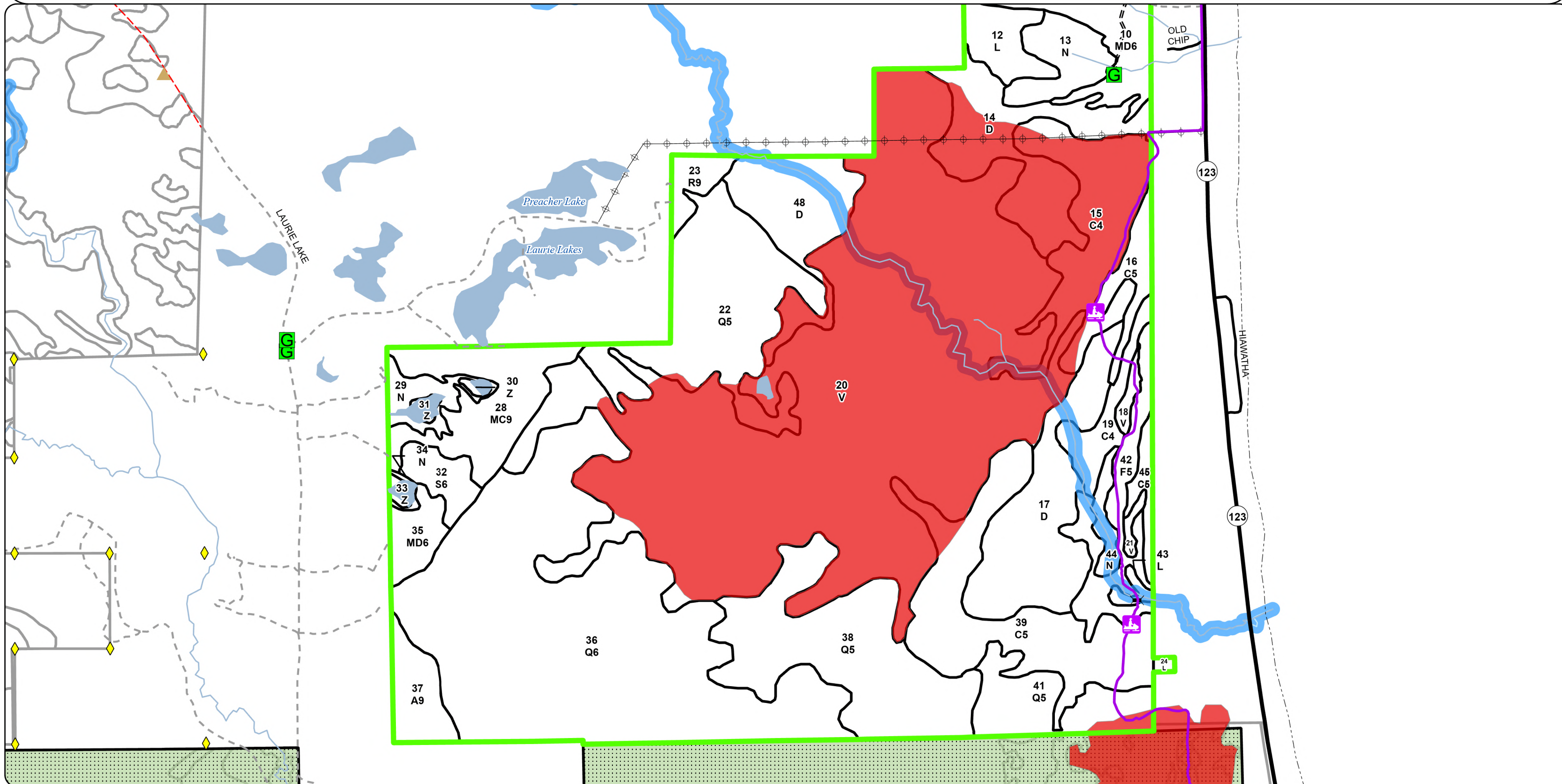


0 0.5 1 Miles

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- Compartment Boundary
- Stand Boundaries
- Ecological Reference Areas
- SCA
- Cold Water Streams
- High Priority Trout Stream Buffer
- Recreational/Scenic Value Area



# Report 1 – Total Acres by Cover Type and Age Class

	Age Class																		Total
	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	
Aspen	0	0	0	0	0	0	0	0	0	24	0	4	0	0	0	0	0	0	28
Bog	615	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	615
Cedar	0	0	0	0	0	0	0	0	0	16	104	102	0	0	0	0	0	0	222
Jack Pine	0	0	0	0	0	0	0	0	0	0	0	4	0	0	0	0	0	0	4
Lowland Conifers	0	0	0	0	0	0	0	0	0	118	440	43	0	0	0	0	0	0	601
Lowland Shrub	59	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	59
Lowland Spruce/Fir	0	0	0	0	0	0	0	0	0	14	16	0	0	0	0	0	0	0	30
Marsh	85	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	84
Mixed Upland Deciduous	0	0	0	0	0	0	0	0	48	17	0	0	0	0	0	0	0	0	65
Natural Mixed Pines	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	58	58
Red Pine	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12	12
Treed Bog	209	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	209
Upland Mixed Forest	0	0	0	0	0	0	0	0	12	0	0	0	0	0	0	0	0	0	12
Upland Spruce/Fir	0	0	0	0	0	0	0	0	44	0	0	0	0	0	0	0	0	0	44
Water	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7
Total	975	0	0	0	0	0	0	0	104	189	560	153	0	0	0	0	0	70	2050



## Report 2 – Treatment Summary

Newberry Mgt. Unit

Year of Entry: 2027

Acres of Harvest

Compartment 69

Total Compartment Acres: 2,050

Commercial Harvest -

Harvests with Site Condition - 168

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
Jack Pine	4	0	0	0	0	0	0	0	0	4
Lowland Spruce/Fir	14	0	0	0	0	0	0	0	0	14
Mixed Upland Deciduous	48	0	0	0	0	0	0	0	0	48
Upland Mixed Forest	10	0	0	0	0	0	0	0	0	10
Upland Spruce/Fir	7	0	0	0	0	0	0	0	0	7
<b>Total</b>	<b>83</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>83</b>

### Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	83	0	0	0	0	0	0	0	0	83
Next Step	0	4	0	0	0	0	83	0	0	88
<b>Total</b>	<b>83</b>	<b>4</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>83</b>	<b>0</b>	<b>0</b>	<b>171</b>

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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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**Proposed Treatments:**

<b>1</b>	<b>42069001-Cut</b>	14.4	6122 - Black Spruce	5	80	51-80	Harvest	Clearcut	6122 - Black Spruce	Planting Record	No
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Prescription Clearcut with reserves. Retain 3% of stand acreage in a retention pocket. Leave 1 per 2 acre of white pine and spruce, birch, red maple in the red line.

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

Acceptable black spruce with a lowland conifer mix  
Regen:

Other  
Comment:

Site Condition: Survey Needed

Proposed Start Date: 10/01/2026

<b>2</b>	<b>42069002-Cut</b>	4.1	42220 - Natural Jack Pine	6	105	51-80	Harvest	Clearcut	4222 - Natural Jack Pine	Planting Record	No
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Prescription Clearcut. Remove all jack pine, and spruce. Small acreage, no retention needed. Leave a few white pine and spruce along edges  
Specs:

Next Step SitePrep, Scarification; Monitoring, Natural Regen (Intermediate)  
Treatments:

Acceptable Jack Pine with spruce  
Regen:

Other  
Comment:

Site Condition: Survey Needed

Proposed Start Date: 10/01/2026

<b>6</b>	<b>42069006-Cut</b>	10.3	4319 - Mixed Upland Forest	6	76	81-110	Harvest	Clearcut	4319 - Mixed Upland Forest	Planting Record	No
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Prescription Clearcut, no retention. Small acreage. Leave all supercanopy white pine. Leave aspen in red line and leave all hemlock  
Specs:

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

Acceptable Mixed upland with aspen  
Regen:

Other  
Comment:

Site Condition: Survey Needed

Proposed Start Date: 10/01/2026

<b>7</b>	<b>42069007-Cut</b>	6.5	42340 - Upland Spruce/Fir	5	75	51-80	Harvest	Clearcut	42330 - Upland Fir	Planting Record	No
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Prescription Clearcut, no retention. Small acreage. Leave white pine over 22".  
Specs:

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

Acceptable Mix of upland conifers with deciduous component  
Regen:

Other  
Comment:

Site Condition: Survey Needed

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
10 42069010-Cut	48.1	4191 - Mixed Upland Deciduous with Conifer	6	76	111-140	Harvest	Clearcut	4199 - Other Mixed Upland Deciduous	Planting Record	No
<u>Prescription</u> Clearcut with retention. Harvest all species except red oak and red pine. Retain a component of large diameter white pine and all hemlock. <u>Specs:</u> Standard BMP 100-foot RMZ between the clearcut treatment and surface water (Clark's Creek and the adjacent wetland) <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u> <u>Acceptable</u> mixed upland deciduous species with a conifer component. <u>Regen:</u> <u>Other</u> <u>Comment:</u> <u>Site Condition:</u> Survey Needed <u>Proposed Start Date:</u> 10/01/2026										

Total Treatment 83.4  
Acreage Proposed:



Availability for Management

Total Acres	Acres Available	Acres Available With Condition	Acres Not Available
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Dominant Site Conditions

Acres	Available	<i>With Condition</i>	Not Available		2B	2I	2A	3A	3B	3L	5D
28	0	28	0	Aspen	24	4					
595	28	0	566	Bog				478		89	
222	10	0	212	Cedar				72	119	22	
4	0	4	0	Jack Pine		4					
600	0	0	600	Lowland Conifers			69	3		488	40
59	59	0	0	Lowland Shrub							
30	0	30	0	Lowland Spruce/Fir	16	14					
84	85	0	0	Marsh							
65	0	65	0	Mixed Upland Deciduous	17	48					
58	0	58	0	Natural Mixed Pines	58						
12	0	0	12	Red Pine			12				
207	0	0	207	Treed Bog				41			167
11	0	11	0	Upland Mixed Forest		11					
44	0	7	38	Upland Spruce/Fir		7			38		
7	7	0	0	Water							
2,027	188	203	1,636	Total Forested Acres	115	88	82	593	157	598	207
	9%	10%	81%	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	Available	2I: Survey needed	88	2B: Unknown if access through adjacent landowner(s) is possible	Unspecified	Unspecified	Unspecified	Unspecified
Comments:								
2	Available	2B: Unknown if access through adjacent landowner(s) is possible	115	Unspecified	Unspecified	Unspecified	Unspecified	Unspecified
Comments:								

# Report 4 – Site Conditions

Newberry Mgt. Unit  
Matt Payment: Examiner

Compartment: 69  
Year of Entry: 2027



3	Unavailable	2A: Adjacent landowner denied access	82	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
4	Unavailable	3B: Threatened, endangered, and special concern species	70	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
5	Unavailable	3B: Threatened, endangered, and special concern species	38	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
6	Unavailable	3A: Conservation values incompatible with harvest at this time	593	Unspecified	Unspecified	Unspecified	Unspecified
Comments: ERA							
7	Unavailable	5D: Unproductive forest land	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
8	Unavailable	3A: Conservation values incompatible with harvest at this time	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments: ERA							

# Report 4 – Site Conditions

Newberry Mgt. Unit  
Matt Payment: Examiner

Compartment: 69  
Year of Entry: 2027



9	Unavailable	5D: Unproductive forest land	225	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
10	Unavailable	3L: Other wildlife concerns	598	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Habitat considerations.							
11	Unavailable	3B: Threatened, endangered, and special concern species	19	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
12	Unavailable	3B: Threatened, endangered, and special concern species	14	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
13	Unavailable	3B: Threatened, endangered, and special concern species	16	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
15	Unavailable	3A: Conservation values incompatible with harvest at this time	0	Unspecified	Unspecified	Unspecified	Unspecified
Comments: ERA							



# Report 4 – Site Conditions

Newberry Mgt. Unit  
Matt Payment: Examiner

Compartment: 69  
Year of Entry: 2027



18	Unavailable	3A: Conservation values incompatible with harvest at this time	0	Unspecified	Unspecified	Unspecified	Unspecified
Comments: ERA							
19	Unavailable	3A: Conservation values incompatible with harvest at this time	0	Unspecified	Unspecified	Unspecified	Unspecified
Comments: ERA							
20	Unavailable	3A: Conservation values incompatible with harvest at this time	0	Unspecified	Unspecified	Unspecified	Unspecified
Comments: ERA							
21	Unavailable	3A: Conservation values incompatible with harvest at this time	0	Unspecified	Unspecified	Unspecified	Unspecified
Comments: ERA							
22	Unavailable	3A: Conservation values incompatible with harvest at this time	0	Unspecified	Unspecified	Unspecified	Unspecified
Comments: ERA							

# Report 4 – Site Conditions

Newberry Mgt. Unit  
Matt Payment: Examiner

Compartment: 69  
Year of Entry: 2027



23	Unavailable	3A: Conservation values incompatible with harvest at this time	0	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> ERA							
24	Unavailable	3A: Conservation values incompatible with harvest at this time	0	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> ERA							
25	Unavailable	3A: Conservation values incompatible with harvest at this time	0	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> ERA							
26	Unavailable	3A: Conservation values incompatible with harvest at this time	0	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> ERA							

Mgt. Unit

Compartment: #Type!

Year of Entry:

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

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

SCA Name	SCA Category	Detail Type	Recommendation	Acres
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Comments
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
1	6122 - Black Spruce	Poletimber Medium	14.4	80	51-80	N/A	Small diameter spruce stand. Some white birch and red maple along the east edge. Pockets of sapling size spruce. Only access is through private to the north. Stand is healthy. Kinross-Dawson complex of soils.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
White Pine	5		9		Black Spruce	Low		Variable	Variable
Black Spruce	95	Seedling	6	80	Tag Alder	Medium		5 - 10 feet	5 - 10 feet
2	42220 - Natural Jack Pine	Poletimber Well	4.1	105	51-80	N/A	Small ridge of mature jack pine intermixed with adjacent spruce stand. Nice tall, jack pine. Jack pine is mature. Access could be a problem. Deer Park-Kinross complex		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Jack Pine	95		9	105	Black Spruce	Low		Variable	Variable
Black Spruce	5	Seedling	7		Balsam Fir	Medium		Variable	Variable
3	6229 - Mixed Lowland Shrub	None	23.3			No	Markey and Carbondale mucks		
4	623 - Emergent Wetland	None	33.1			No	Beaver marsh. Pondered areas. Old wood duck boxes along the edges.		
5	4319 - Mixed Upland Forest	Poletimber Well	1.3	76	81-110	N/A	Large diameter white pine over lower quality red maple, white birch, spruce and balsam. Similar to stand 10 without the pockets of birch. Access is questionable across various land owners. Very small acreage. Limiting factors. Halfaday sands.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Paper Birch	20	Seedling	8		Red Maple	Medium		10 - 20 feet	10 - 20 feet
Red Maple	30		9	76	Balsam Fir	High		Variable	Variable
Quaking Aspen	5		10						
White Spruce	20		9						
Balsam Fir	15	Seedling	8						
White Pine	10		12						
6	4319 - Mixed Upland Forest	Poletimber Well	10.3	76	81-110	N/A	Large diameter white pine over lower quality red maple, white birch, spruce and balsam. Similar to stand 10 without the pockets of birch. Access is questionable (whitefish township schools).		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
White Pine	10		12		Balsam Fir	High		Variable	Variable
Quaking Aspen	5		10		Red Maple	Medium		10 - 20 feet	10 - 20 feet
Balsam Fir	15	Seedling	8						
Red Maple	30		9	76					
White Spruce	20		9						
Paper Birch	20	Seedling	8						
7	42340 - Upland Spruce/Fir	Poletimber Medium	6.5	75	51-80	N/A	Narrow ridge of small diameter black spruce, balsam, red maple and white birch with a thick F3 understory.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Quaking Aspen	5	Seedling	7		Paper Birch	Medium		10 - 20 feet	10 - 20 feet
White Pine	5		9		Balsam Fir	High		>20 feet	>20 feet
Paper Birch	25	Sapling	7		Red Maple	Medium		>20 feet	>20 feet
Balsam Fir	20	Sapling	6		Black Spruce	Medium		>20 feet	>20 feet
Red Maple	5	Seedling	7						
Black Spruce	40	Seedling	7	75					

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																												
8	6225 - Bog	None	13.8			No	Open bog. Histosols and Aquents																																																												
9	6229 - Mixed Lowland Shrub	None	2.1			No	Open bog. Histosols and Aquents																																																												
10	4191 - Mixed Upland Deciduous with Conifer	Poletimber Well	48.1	76	111-140	N/A	Mixed stand of maple, white birch, spruce, balsam, white pine, red pine, some red oak and some hemlock. Primarily red maple, medium to low quality. Pockets of high BA of white birch with many dead tops. Mortality in the white birch throughout the stand. Access could be possible via snowmobile trail off of M-123 across private land.																																																												
<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>10</td><td></td><td>16</td><td></td></tr><tr><td>Balsam Fir</td><td>5</td><td>Seedling</td><td>8</td><td></td></tr><tr><td>Red Maple</td><td>43</td><td></td><td>9</td><td>76</td></tr><tr><td>Red Oak</td><td>10</td><td></td><td>10</td><td></td></tr><tr><td>White Spruce</td><td>2</td><td></td><td>12</td><td></td></tr><tr><td>Quaking Aspen</td><td>5</td><td></td><td>10</td><td></td></tr><tr><td>Paper Birch</td><td>20</td><td>Seedling</td><td>8</td><td></td></tr><tr><td colspan="5"></td></tr></table>		Canopy Species	% Cover	Size Class	DBH	Age		White Pine	10		16		Balsam Fir	5	Seedling	8		Red Maple	43		9	76	Red Oak	10		10		White Spruce	2		12		Quaking Aspen	5		10		Paper Birch	20	Seedling	8							<table><tr><th>Sub-Canopy Species</th><th>Density</th><th>Avg. Height</th><th>Size</th></tr><tr><td>Balsam Fir</td><td>High</td><td>Variable</td><td>Variable</td></tr><tr><td>Red Maple</td><td>Medium</td><td>10 - 20 feet</td><td>10 - 20 feet</td></tr><tr><td>Paper Birch</td><td>Low</td><td>10 - 20 feet</td><td>10 - 20 feet</td></tr></table>		Sub-Canopy Species	Density	Avg. Height	Size	Balsam Fir	High	Variable	Variable	Red Maple	Medium	10 - 20 feet	10 - 20 feet	Paper Birch	Low	10 - 20 feet	10 - 20 feet		
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11	6225 - Bog	None	7.5			No	Open bog. Histosols and Aquents																																																												
12	6229 - Mixed Lowland Shrub	None	28.2			No	Open lowland shrubs with some sparse trees scattered throughout. Markey and Carbondale mucks																																																												
13	623 - Emergent Wetland	None	26.3			No	Open marsh with areas of tag alder. Lots of water																																																												
14	6224 - Treed Bog	None	71.9			No	Patterned Fen association/adjacency. MNFI comments are included in the compartment file and some notes included with stand 20. Small spruce and cedar throughout. Trees are stunted and a good percentage of mortality. More cedar in northern portion and more spruce in the southern portion. Markey and Carbondale muck soils.																																																												
15	6120 - Lowland Cedar	Poletimber Poor	75.1	95	1-50	N/A	SCA - Patterned Fen association/adjacency. MNFI comments are included in the compartment file and some notes are included with stand 20. Many areas with dead cedar or dead tops. Some areas are mainly a C3. Fingers of cedar out within the treed bog. Markey and Carbondale muck soils.																																																												
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16	6120 - Lowland Cedar	Poletimber Medium	16.3	87	1-50	N/A	Lower areas are more of a C3. Very slight ridges of thicker cedar. Lots of cedar with dead tops. Scattered black spruce. Snowmobile trail runs north-south through stand. Markey and Carbondale muck soils.																																																												
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17	6224 - Treed Bog	None	80.0			No	Patterned Fen association/adjacency. MNFI comments are included in the compartment file and some notes are included with stand 20. Small spruce and cedar throughout. More cedar in northern portion and more spruce in the southern portion. Markey and Carbondale muck soils.																																																												

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments				
18	6225 - Bog	None	4.2			No	Stand is adjacent to Patterned Fen, possible buffer or inclusion in the complex. Markey-Kinross-Au Gres soil complex.				
19	6120 - Lowland Cedar	Poletimber Poor	19.0	95	1-50	N/A	Many areas with dead cedar or dead tops. Some areas are mainly a C3. Fingers of cedar out within the treed bog. Markey and Carbondale muck soils.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Northern White Cedar		100	Sapling	6	95	Northern White Cedar		High	5 - 10 feet	5 - 10 feet	
20	6225 - Bog	None	586.5			No	ERA - Patterned Fen complex. Large open wetland complex. Series of small water holes and areas of "drier" ground situated in a NE-SW pattern. Field survey with MNFI (Josh Cohen) determined the area to be a Patterned Fen since last inventory. Discussion with MNFI (Josh Cohen) determined that the patterning from the documented patterned fen south of Section 3 extends into sections 3,4, 33 and 34. The survey that documented the patterned fen to the south was limited to the Tahquamenon Falls State Park boundary. Markey and Carbondale muck soils.				
21	6225 - Bog	None	2.8			No	SCA - stand is adjacent to Patterned Fen area, possible buffer/inclusion to the complex. Markey-Kinross-Au Gres soil complex.				
22	6129 - Mixed Coniferous Lowland Forest	Poletimber Medium	111.2	91	51-80	N/A	SCA = Patterned fen association/adjacency. MNFI comments are included in the compartment file and some notes are included with stand 20. Markey and Carbondale muck soils. BA and quality are better in western portions of the stand.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size		
Tamarack		15	Seedling	6		Northern White Cedar	Medium	5 - 10 feet	5 - 10 feet		
Northern White Cedar		40	Sapling	6		Black Spruce	Medium	Variable	Variable		
Red Maple		2	Seedling	6							
Black Spruce		40	Seedling	7	91						
White Pine		3		10							
23	42210 - Natural Red Pine	Sawtimber Well	12.2	120	81-110	N/A	Natural red pine stand along ridges. Primarily red pine with jack pine and white pine throughout. Understory is fairly open. No access. Blocked off by gated/fenced private sanctuary. Deer park-Kinross soil complex.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size		
Black Spruce		5	Seedling	8		Balsam Fir	Medium	Variable	Variable		
Jack Pine		10		9	90	Red Maple	Medium	10 - 20 feet	10 - 20 feet		
Red Pine		65		14	120	Black Spruce	Low	10 - 20 feet	10 - 20 feet		
White Pine		20		11							
24	6229 - Mixed Lowland Shrub	None	1.4			No	Parcel up for disposal. Small acreage low wet ground.				
28	42290 - Natural Mixed Pine	Sawtimber Well	58.4	160	111-140	N/A	Ridges of natural white pine and red pine with a mix of white birch, spruce, maple and some red oak. Cedar along the edges of the lower ground. Mostly a red pine stand. Pockets of white birch and red maple. Rolling ridges.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size		
Red Pine		40		12	160	Balsam Fir	Medium	Variable	Variable		
White Pine		35		12		Black Spruce	Medium	10 - 20 feet	10 - 20 feet		
Red Oak		15		9							
Black Spruce		10	Seedling	8							



Stand	Level 4 Cover Type	Size	Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
29	623 - Emergent Wetland	None	15.2				No	Marsh/bog surrounding the small lakes. Dawson and Loxley peats.		
30	500 - Water	None	1.5				No	small marsh/bog lakes		
31	500 - Water	None	2.6				No	small marsh/bog lakes		
32	6122 - Black Spruce	Poletimber Well	16.0	95	81-110		N/A	Nice quality spruce stand. Cedar, red maple and tamarack. Some white pine. Scattered white birch on edges. Access is a problem. Kinross-Wainola soil complex.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Black Spruce		70	Seedling	8	95	Black Spruce		Low	10 - 20 feet	10 - 20 feet
Red Maple		10	Seedling	6						
White Pine		15		12						
Hemlock		5	Seedling	9						
33	500 - Water	None	2.5				No	small marsh/bog lakes		
34	623 - Emergent Wetland	None	1.5				No	Marsh/bog surrounding the small lakes. Dawson and Loxley peats.		
35	4191 - Mixed Upland Deciduous with Conifer	Poletimber Well	16.9	87	81-110		N/A	White birch, red maple, large diameter white pine, some spruce and balsam. Scattered hemlock mainly in lower areas. Some mortality in white birch. Access through private. Deer park-Kinross soil complex.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Black Spruce		5	Seedling	7		Red Maple		Medium	10 - 20 feet	10 - 20 feet
White Pine		10		9		Balsam Fir		High	Variable	Variable
Paper Birch		40	Seedling	8	87	Hemlock		Low	Variable	Variable
Red Maple		30	Seedling	8		White Pine		Low	5 - 10 feet	5 - 10 feet
Quaking Aspen		5		9						
Hemlock		10		9						
36	6129 - Mixed Coniferous Lowland Forest	Poletimber Well	329.0	91	51-80		N/A	Patterned fen association/adjacency. MNFI notes are included in the compartment comments and some notes are included with stand 20. Large acreage, wet mixed conifer stand. Cedar, spruce and tamarack. Pockets of solid cedar (C6) within the stand. Lots of blowdown in areas. Markey and Carbondale muck soils.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Tamarack		30	Seedling	8		Black Spruce		Low	10 - 20 feet	10 - 20 feet
Northern White Cedar		20	Seedling	7						
Red Maple		10	Seedling	7						
Black Spruce		40	Seedling	8	91					
37	4137 - Aspen, Birch	Sawtimber Well	23.5	89	81-110		N/A	Old, mature aspen stand with mortality in the aspen throughout. Some white birch mortality. Thick understory of balsam. Pockets of solid white birch. Access is questionable through a gated private club.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Balsam Fir		7	Seedling	8		Balsam Fir		Full	10 - 20 feet	10 - 20 feet
Paper Birch		25		9						
Red Maple		10	Seedling	9						
Quaking Aspen		58		10	89					

Stand	Level 4 Cover Type	Size	Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																			
38	6129 - Mixed Coniferous Lowland Forest	Poletimber	Medium	118.2	87	51-80	N/A	SCA - stand is adjacent to Patterned Fen, possible buffer/inclusion to the complex. Lower basal area than stand 36 but same species (spruce, cedar and tamarack). Wet, mixed conifer stand. Lots of blowdown in areas.																																			
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39	6120 - Lowland Cedar	Poletimber	Medium	101.9	100	51-80	N/A	SCA - stand is adjacent to Patterned Fen, possible buffer/inclusion to the complex. Wet ground, poor quality cedar. Scattered pockets of black spruce. Dead tops and mortality throughout stand.																																			
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40	6224 - Treed Bog	None		2.5			No	Scattered, small diameter stunted spruce.																																			
41	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber	Medium	43.4	100		N/A	SCA - northern reaches of a documented Patterned Fen complex to the south of the compartment. Also adjacency to documented patterned fen to the west. Treed bog filling in with stunted cedar and tamarack.																																			
<table><tr><th>Canopy Species</th><th>% Cover</th><th>Size Class</th><th>DBH</th><th>Age</th></tr><tr><td>Northern White Cedar</td><td>20</td><td>Sapling</td><td>5</td><td></td></tr><tr><td>White Pine</td><td>2</td><td></td><td>10</td><td></td></tr><tr><td>Paper Birch</td><td>10</td><td>Sapling</td><td>5</td><td></td></tr><tr><td>Yellow Birch</td><td>5</td><td>Sapling</td><td>6</td><td></td></tr><tr><td>Black Spruce</td><td>38</td><td>Sapling</td><td>5</td><td>100</td></tr><tr><td>Red Maple</td><td>10</td><td>Sapling</td><td>5</td><td></td></tr></table>				Canopy Species	% Cover	Size Class	DBH		Age	Northern White Cedar	20	Sapling	5		White Pine	2		10		Paper Birch	10	Sapling	5		Yellow Birch	5	Sapling	6		Black Spruce	38	Sapling	5	100	Red Maple	10	Sapling	5					
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42	42320 - Upland Spruce	Poletimber	Medium	37.7	79	51-80	N/A	SCA - stand is adjacent to Patterned Fen area, possible buffer. Small, open ridges of mainly spruce and scattered larger white pine. Pockets of higher BA of spruce. Snowmobile trail runs through stand.																																			
<table><tr><th>Canopy Species</th><th>% Cover</th><th>Size Class</th><th>DBH</th><th>Age</th></tr><tr><td>Black Spruce</td><td>85</td><td>Seedling</td><td>8</td><td>79</td></tr><tr><td>Northern White Cedar</td><td>5</td><td>Seedling</td><td>7</td><td></td></tr><tr><td>White Pine</td><td>10</td><td></td><td>10</td><td></td></tr></table>				Canopy Species	% Cover	Size Class	DBH		Age	Black Spruce	85	Seedling	8	79	Northern White Cedar	5	Seedling	7		White Pine	10		10		<table><tr><th>Sub-Canopy Species</th><th>Density</th><th>Avg. Height</th><th>Size</th></tr><tr><td>Black Spruce</td><td>Medium</td><td>Variable</td><td>Variable</td></tr></table>				Sub-Canopy Species	Density	Avg. Height	Size	Black Spruce	Medium	Variable	Variable							
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43	6229 - Mixed Lowland Shrub	None		3.6			No	SCA - stand is adjacent to Patterned Fen area, possible buffer/inclusion to the complex. Black Creek flows through stand.																																			
44	623 - Emergent Wetland	None		8.4			No	SCA - stand is adjacent to Patterned Fen area, possible buffer/inclusion to the complex. Beaver activity.																																			
45	6120 - Lowland Cedar	Poletimber	Medium	9.5	95	Unspecified	N/A	SCA - stand is adjacent to Patterned Fen area. Low wet ground mainly spruce and cedar.																																			
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments			
46	4136 - Aspen, Mixed Conifer	Poletimber Well	4.1	101	81-110	N/A	Small acreage of mature aspen along the edge of a marsh. Red maple, large diameter white pine and scattered white birch, balsam and a few red oak. Access is questionable (Whitefish Township School property).			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Red Maple		10	Seedling	9		Red Maple		Medium	5 - 10 feet	5 - 10 feet
Bigtooth Aspen		65		11	101	Balsam Fir		Full	Variable	Variable
Paper Birch		4	Seedling	8						
Balsam Fir		5	Seedling	7						
White Spruce		3		10						
White Pine		10		16						
Hemlock		3		12						
48	6224 - Treed Bog	None	54.4			No	SCA - Patterned Fen association/adjacency. MNFI comments are included in the compartment file and some notes are included with stand 20. Small spruce and cedar throughout. More cedar in northern portion and more spruce in the southern portion.			