



Compartment Review Presentation

Gwinn Forest Management Unit

Compartment 32240

Entry Year 2027

Acreage: 1,303

County: Marquette

Management Area: Suomi Till and Outwash Plain

Stand Examiner: Kyle Gould

Legal Description:

T45N-R28W, Sections 29 & 32.

Identified Planning Goals:

Clearcut stands of aspen, fir, spruce and birch to promote these species. Retention areas will be included within these cuts to promote diversity.

Soil and topography:

Ranging from relatively level creek bottoms, swamp conifer, tag alder, and bog marshlands. Upland stands are only slightly higher than lowland types with rolling to slightly hilly terrain. Logging opportunities are high within this compartment given the soil conditions and level terrain.

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

State ownership here is generally contiguous with private ownership to the east in an adjacent compartment (C-239). Development is very limited with a few seasonal cottages or hunting camps widely distributed. Production of forest products along with recreational activities such as hunting, mushroom & berry picking, trapping, fishing, and snowmobiling make up the land uses here.

Unique Natural Features:

The Flat Rock Creek and its tributaries make up the unique natural features here.

Archeological, Historical, and Cultural Features:

Former "pine days" remnants include old pine stumps, and a network of old railroad grades and spurs. Former notes mention "Ike" Stephenson who was the foremost figure in the pine logging era in this area.

Special Management Designations or Considerations:

Winter harvesting of timber within the lowland types to reduce soil disturbance.

Watershed and Fisheries Considerations:

This compartment contains Flat Rock Creek and headwater reaches of Wild West Creek. Flat Rock Creek and Wild West Creek are designated Type 1 trout streams less than 50-ft wide and have predicted mean July water temperatures of 63.1 and 61.3°F (cold streams), respectively. 300-ft buffers are recommended for Flat Rock Creek and Wild West Creek in riparian areas susceptible to Aspen regeneration. For areas not susceptible to Aspen regeneration, a minimum 100-foot, plus 5 feet per 1% increase in slope, Riparian Management Zone is recommended to protect these areas in accordance with Best Management Practices.

Wildlife Habitat Considerations:

This compartment is found within the Soumi Till and Outwash Management Area, on a Disintegration Moraine in Southwestern Marquette County. The dominant Natural Communities are dry mesic northern forests, poor conifer swamps, and mesic northern forests. This management area offers opportunities to increase diversity and perhaps long-term oak sustainability through underplanting white and red pine. Another priority is to maintain or increase wildlife corridors, especially along riparian corridors. Wildlife management issues in the management area are mast (hard and soft); habitat fragmentation; mature forest conditions; mesic conifer; coarse woody debris; and retention or development of large living and dead standing trees (for cavities). This management area represents approximately ¼ of the oak resource on WUP state forest. The following have been identified as featured species for the Soumi Till and Outwash Management Area: Blackburnian Warbler, Golden-winged Warbler, Kirtland's Warbler, Red Crossbill, Black-backed Woodpecker, Ruffed Grouse, American Marten, White-tailed Deer, Black Bear.

Mineral Resource and Development Concerns and/or Restrictions

Sections 28-32, T45N R28W, Marquette County No known potential exists for commercial oil & gas production in this part of the state. No active sand/gravel operations are known to exist in the area. There may be some potential for production of minor amounts of sand & gravel within the compartment on the upland drumlins, but the compartment may be too far from populated areas (commercial markets) for any aggregate resources to have significant value beyond use for local road

maintenance. No past metallic mineral mining has occurred in this area, but some sparse exploration of State-owned minerals has occurred. There is current metallic mineral leasing activity less than two miles west of the compartment. However, these leases appear to be targeting distinct anomalies in geophysical data, and no obvious similar features appear in the data covering the compartment. There is evidence of an intrusive dike crossing the compartment in the subsurface. Such structures have some potential to host metallic minerals, but there has been minimal exploration of these features in the region. Potential for metallic and/or critical minerals beneath the compartment is considered low at this time.

Vehicle Access:

Country Road CAA (the Flat Rock Road) is the primary access from both the north and southwest. Interior two tracks complete the access network within the compartment but are limited to the NE corner and SE corner of the compartment. A steel I-beam bridge constructed by the DNR is in place over the Flat Rock Creek in the SW1/4 of Section 33, just east of this compartment.

Survey Needs:

No survey needed for this year of entry.

Recreational Facilities and Opportunities:

No recreational facilities exist within this compartment. Recreational opportunities consist of hunting, mushroom & berry picking, trapping, fishing, and snowmobiling.

Fire Protection:

This compartment is just outside the 581 zone dispatch area in the Ishpeming Protection Area. There are few camps in the few and the forest type has low potential for a large fire.

Additional Compartment Information:

The following reports from the Inventory are attached:

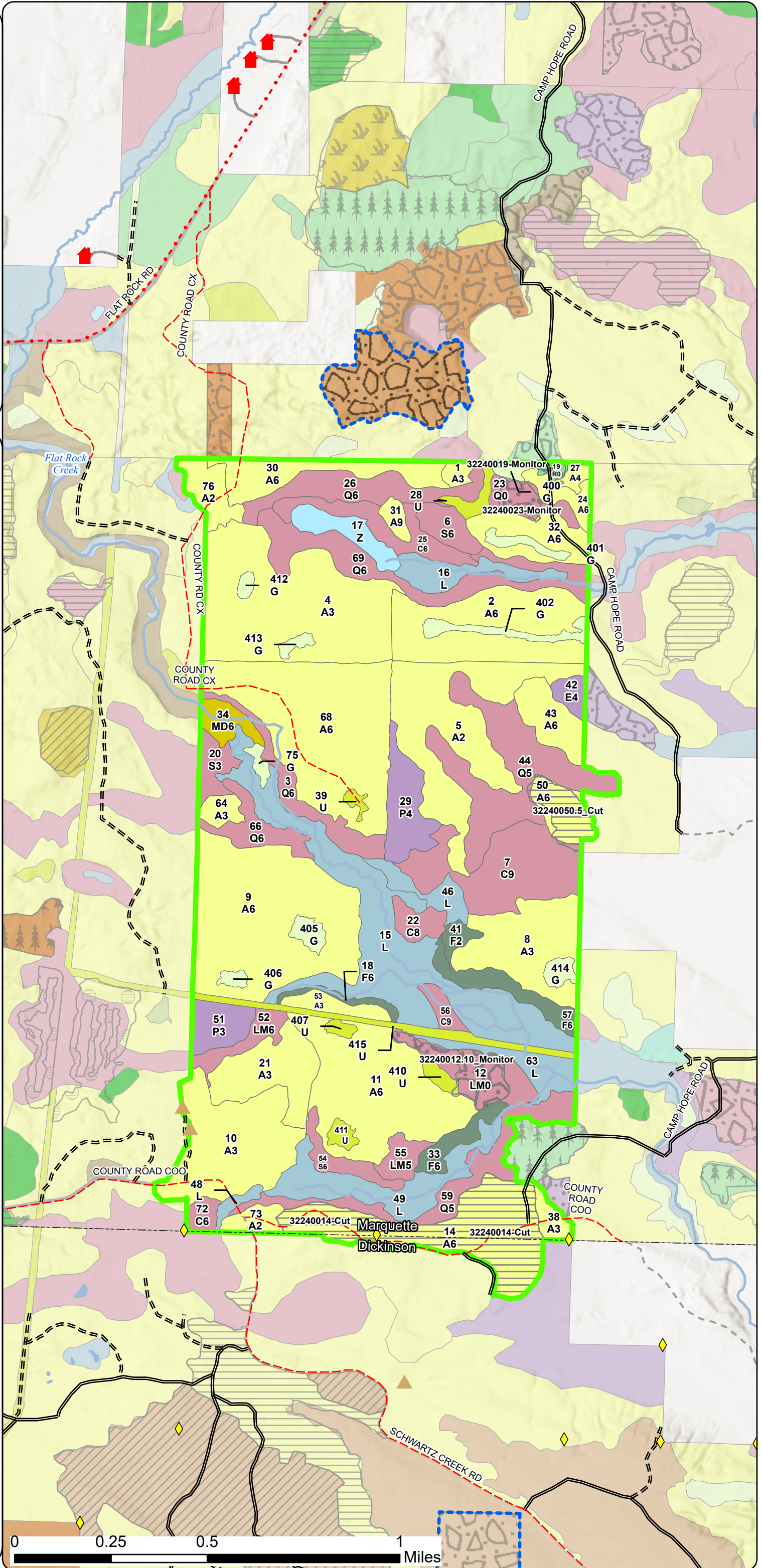
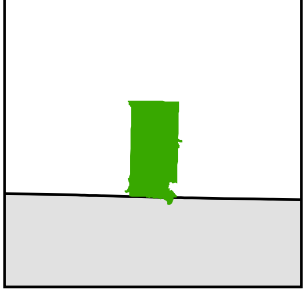
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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: 32240
 T45N R28W Sections 28-32
 County: Marquette
 Unit: Gwinn
 Mgmt. Area: Suomi Till and Outwash Plain
 YOE: 2027
 Acres: 1,303.12 GIS Calculated
 Examiner: Kyle Gould
 Date Exported: 12/15/2025
 Map Phase: Post Review

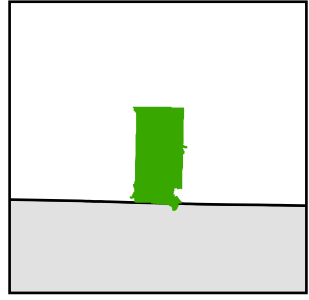


- Survey Grade Corners
- Culvert
- Berm
- Compartment Boundary
- Treatments with Site Conditions
- Clearcut
- Monitoring - Regeneration
- Clearcut
- Strip/Patch Cut
- Thinning
- Planting (tree species)
- Pesticide
- Monitoring - Regeneration
- Monitoring
- 413 - Aspen
- 419 - Mixed Upland Decidous
- 421 - Planted Pines
- 423 - Other Upland Conifers
- 500 - Water
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 613 - Lowland Mixed Forest
- 310 - Herbaceous Openland
- 330 - Low Density Trees
- 622 - Lowland Shrub

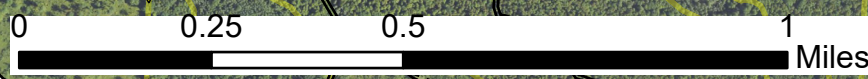
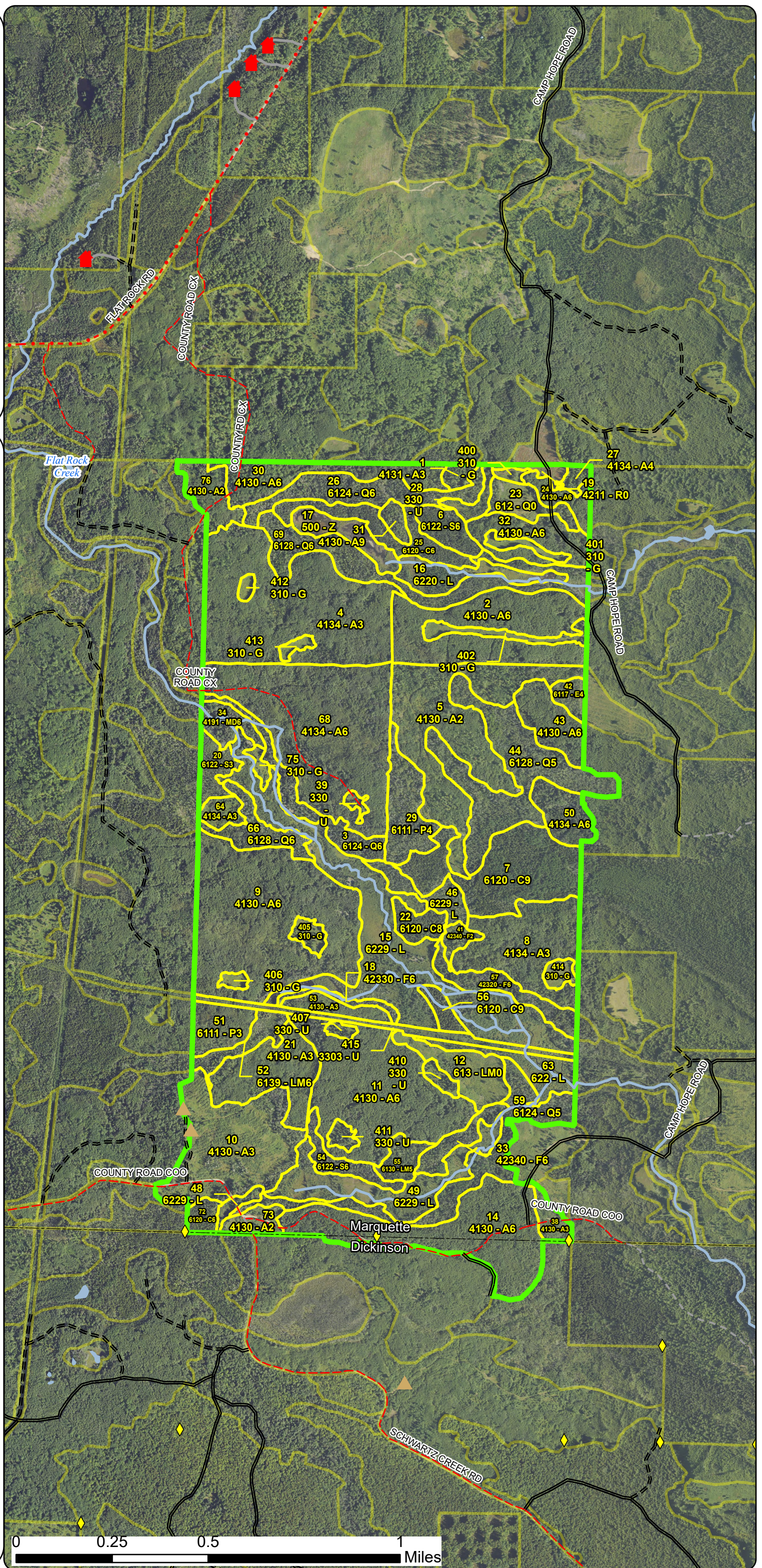
0 0.25 0.5 1 Miles

Stand Boundary Map

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T45N R28W Sections 28-32
County: Marquette
Unit: Gwinn
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YOE: 2027
Acres: 1,303.12 GIS Calculated
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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	62	115	122	352	58	0	12	0	0	4	0	0	0	0	0	0	0	725
Cedar	0	0	0	0	0	0	0	0	0	4	16	0	0	7	4	43	0	0	74
Herbaceous Openland	26	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	26
Low-Density Trees	24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24
Lowland Aspen/Balsam Poplar	0	0	0	0	12	0	0	0	0	0	18	0	0	0	0	0	0	0	30
Lowland Conifers	10	0	0	0	0	0	0	23	33	27	77	0	0	0	0	0	0	0	169
Lowland Deciduous	0	0	0	0	0	0	0	0	5	0	0	0	0	0	0	0	0	0	5
Lowland Mixed Forest	15	0	0	0	7	0	0	0	0	8	0	0	0	0	0	0	0	0	30
Lowland Shrub	147	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	147
Lowland Spruce/Fir	0	0	0	0	0	8	0	0	0	8	8	0	0	0	0	0	0	0	24
Mixed Upland Deciduous	0	0	0	0	0	0	0	8	0	0	0	0	0	0	0	0	0	0	8
Red Pine	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
Upland Spruce/Fir	0	0	0	4	0	12	0	0	0	0	0	12	0	0	0	0	0	0	28
Water	11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	11
Total	236	62	115	126	371	78	0	43	38	47	123	12	0	7	4	43	0	0	1304



Report 2 – Treatment Summary

Gwinn Mgt. Unit
Year of Entry: 2027

Acres of Harvest

Compartment 240
Total Compartment Acres: 1,303

Commercial Harvest - 132
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	66	0	0	0	0	0	0	0	0	66
Total	66	0	0	0	0	0	0	0	0	66

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	66	0	0	0	0	0	21	0	0	87
Next Step	0	0	0	0	0	0	69	0	0	69
Total	66	0	0	0	0	0	89	0	0	156



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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:

14	32240014-Cut	55.0	4130 - Aspen	6	49	51-80	Harvest	Clearcut	413 - Aspen	Planting Record	No
<p><u>Prescription</u> Clearcut with retention. Buffer stream to the north 300 feet. Leave all oak, cedar, hemlock, white pine, red pine. Retain 3-10% of the acreage in an area with sub-merchantable 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</u> aspen</p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition:</u></p> <p><u>Proposed Start Date:</u> 10/01/2027</p>											

Approved Treatments:

12	32240012.10_Monitor	13.3	613 - Lowland Mixed Forest	0	7		Monitoring	Monitoring - Regeneration	6124 - Lowland Spruce-Fir	Planting Record	No
<p><u>Prescription</u> Follow-up treatment with a regeneration survey as provided for in "Work Instruction 2.1 Reforestation".</p> <p><u>Specs:</u> Refer to the most current Regeneration Survey Manual.</p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> spruce, tamarack, fir, cedar, birch, aspen and maple.</p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition:</u></p> <p><u>Proposed Start Date:</u> 10/01/2034</p>											
19	32240019-Monitor	2.3	4211 - Planted Red Pine	0	3	Immature	Monitoring	Monitoring - Regeneration	4211 - Planted Red Pine		No
<p><u>Prescription</u></p> <p><u>Specs:</u></p> <p><u>Next Step</u> ; Monitoring, Artificial Regen (3yr)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Red Pine</p> <p><u>Regen:</u></p> <p><u>Other</u> Percent to Treat = 100%</p> <p><u>Comment:</u></p> <p><u>Site Condition:</u></p> <p><u>Proposed Start Date:</u> 10/01/2024</p>											



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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
23 32240023-Monitor	5.3	612 - Lowland Coniferous Forest	0	1	1-50	Monitoring	Monitoring - Regeneration	612 - Lowland Coniferous Forest	Planting Record	No
<p><u>Prescription</u> <u>Specs:</u></p> <p><u>Next Step</u> <u>Treatments:</u></p> <p><u>Acceptable</u> spruce, tamarack, fir, cedar, aspen. <u>Regen:</u></p> <p><u>Other</u> Percent to Treat = 100% <u>Comment:</u></p> <p><u>Site Condition:</u></p> <p><u>Proposed Start Date:</u> 10/01/2034</p>										
50 32240050.5_Cut	11.2	4134 - Aspen, Spruce/Fir	6	60	Unspecified	Harvest	Clearcut	413 - Aspen	Planting Record	No
<p><u>Prescription</u> Clearcut all trees over 2 inches at DBH leaving only red and white pine, oak and cedar. <u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u></p> <p><u>Acceptable</u> aspen, spruce, fir <u>Regen:</u></p> <p><u>Other</u> Bundle with 32239005 <u>Comment:</u></p> <p><u>Site Condition:</u></p> <p><u>Proposed Start Date:</u> 10/01/2022</p>										

Total Treatment Acreage Proposed: 87.1

Report 4 – Site Conditions

Gwinn Mgt. Unit
Kyle Gould: Examiner

Compartment: 240
Year of Entry: 2027



Availability for Management

Total Acres	Acres Available	Acres Avail		Dominant Site Conditions	Dominant Site Conditions			
		With Condition	Not Available		2G	2H	3J	5E
588	568	0	20	Aspen		4	10	7
74	43	0	32	Cedar			32	
26	26	0	0	Herbaceous Openland				
24	24	0	0	Low-Density Trees				
30	12	0	18	Lowland Aspen/Balsam Poplar	18			
156	32	0	124	Lowland Conifers	47		77	
5	5	0	0	Lowland Deciduous				
28	15	0	13	Lowland Mixed Forest			4	8
142	138	0	4	Lowland Shrub			4	
18	0	0	18	Lowland Spruce/Fir			18	
8	0	0	8	Mixed Upland Deciduous			8	
3	3	0	0	Red Pine				
27	4	0	24	Upland Spruce/Fir			24	
11	11	0	0	Water				
1,140	880		260	Total Forested Acres	65	4	176	15
	77%		23%	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	2G: Too wet (sensitive soils, does not include access issues)	18	5D: Unproductive forest land	Unspecified	Unspecified	Unspecified
Comments: Stand was excluded during last harvest due to wet soils. Also, very little merchantable timber within the stand. Mostly tag alder and bam regen.							
2	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	47	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Drainages exist. Very wet ground.							

Report 4 – Site Conditions

Gwinn Mgt. Unit
Kyle Gould: Examiner

Compartment: 240
Year of Entry: 2027



4	Unavailable	3J: Water quality/BMPs (stream, river, or lake)	62	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Buffer along stream.							
5	Unavailable	3J: Water quality/BMPs (stream, river, or lake)	23	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Buffer along stream.							
6	Unavailable	3J: Water quality/BMPs (stream, river, or lake)	49	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Buffer along wetland and stream.							
7	Unavailable	5E: Long-Term Retention	8	3J: Water quality/BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
Comments:							
8	Unavailable	3J: Water quality/BMPs (stream, river, or lake)	28	5E: Long-Term Retention	Unspecified	Unspecified	Unspecified
Comments:							
9	Unavailable	5E: Long-Term Retention	6	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Wet areas and patches of mature timber left out of the sale area for long term retention purposes. Timber sale 108-16							
10	Unavailable	3J: Water quality/BMPs (stream, river, or lake)	1	5E: Long-Term Retention	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Gwinn Mgt. Unit
Kyle Gould: Examiner

Compartment: 240
Year of Entry: 2027



11	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Red lined out a wet pocket within the timber sale for retention purposes.							
12	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Red lined out a wet pocket within the timber sale for retention purposes.							
14	Unavailable	3J: Water quality/BMPs (stream, river, or lake)	8	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
15	Unavailable	3J: Water quality/BMPs (stream, river, or lake)	8	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Flat Rock Creek flows through the middle of this stand. 300 ft. buffer consumes entire stand.							
16	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Long-term retention for stand 50.							
31	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	4	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

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



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments			
1	4131 - Aspen, Oak	Sapling Well	2.9	16		N/A	Small hilltop coming out of the wetlands to the south. Mix of aspen, red maple, oak, and conifers all around 3" DBH. Was remote called an opening in the previous inventory.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Red Maple		20	Sapling	3		Balsam Fir		Medium	< 5 feet	< 5 feet
Red Oak		20	Sapling/Pole	4	16					
Quaking Aspen		50	Sapling	3	16					
Balsam Fir		5	Sapling	2						
White Spruce		5	Sapling	2						
2	4130 - Aspen	Poletimber Well	50.5	36	1-50	N/A	2024 - stand is moderate quality, pole sized aspen. Overall the stand looks healthy but some areas are in a bit poorer health. There is some spruce and fir mixed in as well. 2014 - Stand was cut in '89. TS# 008-87-01, Wildlife Division created a grass opening (stand #402) from the logging access road.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Quaking Aspen		95	Pole	7	36	Hazelnut (Spp.)		Medium	5 - 10 feet	5 - 10 feet
Balsam Fir		5	Pole/Sapling	5		Balsam Fir		Medium	Variable	Variable
3	6124 - Lowland Spruce-Fir	Poletimber Well	15.1	87	Unspecified	N/A	Riparian corridor along Flat Rock Creek. Many different age classes of conifers throughout. Rock outcrops throughout the stand. Budworm damage throughout the stand. Do not manage, maintain as a buffer along the stream.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Paper Birch		5	Pole	8		Balsam Fir		High	Variable	Variable
Quaking Aspen		17	Log/Pole	12		Quaking Aspen		Low	Variable	Variable
Balsam Fir		20	Pole	8		White Spruce		Low	Variable	Variable
White Spruce		10	Log	14		Black Spruce		Medium	Variable	Variable
Black Spruce		43	Pole	9	87	Tag Alder		Low	5 - 10 feet	5 - 10 feet
Tamarack		5	Log	14						
4	4134 - Aspen, Spruce/Fir	Sapling Well	85.5	27	Immature	N/A	Stand was cut in the summer/fall of 1998. TS#102-97-01. Stand consists of good quality aspen. Clumps of pole sized white spruce and balsam are scattered throughout. Sale notes mentioned 1 stick spruce was left during the timber sale. A few scattered red oak exist in the NW corner of stand. 2 wildlife openings exist within the stand as well. There are some wetter areas in the stand with tag alder but they are small and scattered.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Quaking Aspen		80	Pole	5	27	Red Maple		Low	Variable	Variable
Balsam Fir		15	Pole	8		Balsam Fir		Medium	Variable	Variable
White Spruce		5	Pole	8		Balsam Poplar		Low	Variable	Variable
						Hazelnut (Spp.)		Medium	5 - 10 feet	5 - 10 feet
						Quaking Aspen		Low	Variable	Variable
5	4130 - Aspen	Sapling Medium	62.1	13	Immature	N/A	2024 - nice dense aspen stand. Some large paper birch were left and they are in poor condition. Someas of tag alder exist but should fill in with trees over time. Stand was harvested in 2012: TS#112-07-01. Stand has regenerated back well in most areas.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Paper Birch		8	Log/Pole	10		Tag Alder		Low	Variable	Variable
Quaking Aspen		85	Sapling	1	13	White Spruce		Low	Variable	Variable
Balsam Poplar		5	Sapling	1						
Balsam Fir		2	Sapling	3						



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																															
6	6122 - Black Spruce	Poletimber Well	8.4	97	Unspecified	N/A	Stand of cedar and spruce. Black spruce is smaller diameter. Cedar is decent quality with a mix of poles and logs. The West and SW edge of this stand contains a stream. If harvested stream would need a buffer. There are 2 drains in the stand making it difficult to treat without BMP issues.																																															
<table border="1"> <thead> <tr> <th>Canopy Species</th> <th>% Cover</th> <th>Size Class</th> <th>DBH</th> <th>Age</th> </tr> </thead> <tbody> <tr> <td>Paper Birch</td> <td>5</td> <td>Pole</td> <td>8</td> <td></td> </tr> <tr> <td>White Spruce</td> <td>3</td> <td>Log</td> <td>16</td> <td></td> </tr> <tr> <td>Black Spruce</td> <td>50</td> <td>Pole</td> <td>8</td> <td>97</td> </tr> <tr> <td>Northern White Cedar</td> <td>37</td> <td>Pole</td> <td>9</td> <td></td> </tr> <tr> <td>Tamarack</td> <td>5</td> <td>Log/Pole</td> <td>12</td> <td></td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age		Paper Birch	5	Pole	8		White Spruce	3	Log	16		Black Spruce	50	Pole	8	97	Northern White Cedar	37	Pole	9		Tamarack	5	Log/Pole	12		<table border="1"> <thead> <tr> <th>Sub-Canopy Species</th> <th>Density</th> <th>Avg. Height</th> <th>Size</th> </tr> </thead> <tbody> <tr> <td>Balsam Fir</td> <td>Low</td> <td>Variable</td> <td>Variable</td> </tr> <tr> <td>Tag Alder</td> <td>Low</td> <td>5 - 10 feet</td> <td>5 - 10 feet</td> </tr> <tr> <td>Black Spruce</td> <td>Low</td> <td>Variable</td> <td>Variable</td> </tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	Balsam Fir	Low	Variable	Variable	Tag Alder	Low	5 - 10 feet	5 - 10 feet	Black Spruce	Low	Variable	Variable				
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7	6120 - Lowland Cedar	Sawtimber Well	42.8	144	111-140	N/A	Lowland stand of mature cedar. Stand has pockets of black spruce and tamarack within it as well. This tamarack and spruce could be treated with the next adjacent aspen sale. It is good quality and moderate size. Cedar looks to be decent quality. There is a drain in the west end of the stand that flows west. There may be more.																																															
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8	4134 - Aspen, Spruce/Fir	Sapling Well	36.8	27	Immature	N/A	Stand of decent quality aspen. Some areas are poorer quality than others. Pole sized balsam fir exist throughout the stand. A strip of low ground exists along the North edge of stand and regenerated back nicely with tamarack and black spruce. OI Notes: Stand was commercially cut in summer of 1998 by Minerick Logging, Inc., permit #008-97-01, "Flat Rock Bridge Sale". All cedar and 1 & 2 stick spruce were left. Also operations were restricted to shortwood skidding to protect advance conifer regeneration.																																															
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9	4130 - Aspen	Poletimber Well	89.9	39	51-80	N/A	Stand was cut in '86. TS# 004-79,. Sale filed in Cmpt 241. Stand consists of healthy quaking aspen. Some wet areas exist that contain more balsam poplar, tag alder, smaller diameter trees and a heavier component of balsam fir within the understory. There are some large scattered oak, red pine, and white pine in the stand.																																															
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10	4130 - Aspen	Sapling Well	51.0	9		N/A	2024 - stand has regenerated to aspen pretty well. There are a few thin spots but it will continue to fill in. Stand was harvested in the fall of 2016. TS# 108-16, Toivo's Cookstove. Aspen has started to regenerate back into the stand but in some areas is sparse. Regeneration is poor where heavy fir existed. Do a regeneration survey during the next inventory cycle to see if regen is adequate.																																															
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11	4130 - Aspen	Poletimber Well	64.4	37	51-80	N/A	Stand was cut in '88. TS #18-87-01. Three grass openings were created by Wildlife Division following completion of the sale (stands #407, 410, & 411.). Stand of aspen that appears to be a bit "off-site" with a little dieback present along with hypoxylon. Pockets of balsam fir exist within the understory and overstory. Continue to monitor stand health during inventory. 2024 - A6 Q2 type stand. The aspen is 6-8" DBH with some small pole size spruce and fir mixed in. The opening is are starting to fill in and could be cleared when harvested next.																																															
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments			
12	613 - Lowland Mixed Forest	Unspecified	15.2	7			2024 - stand is filling in. Areas with wetter soils are filling in faster. Areas of high ground are filling in more slowly. The trees established from seed after the harvest are around 1-4 feet tall. Continue to monitor. Stand was cut in the winter of 2016. TS# 108-16, Toivo's Cookstove. Stand contains both high and low ground. Do a regeneration survey during the next inventory cycle to see if regen is adequate.			
14	4130 - Aspen	Poletimber Well	55.0	49	51-80	N/A	2024 - aspen stand is mature and ready for harvest. Stand was cut in 1974-77. Permit #17-74A. Stand consists of good quality aspen. A small patch of aspen decline exists along the compartment line on the south end but very minimal. Consider harvesting in the next YOE.			
		Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
		Quaking Aspen	97	Pole/Sapling	7	49	Balsam Fir	Medium	Variable	Variable
		Bigtooth Aspen	3	Pole	8		Hazelnut (Spp.)	Medium	5 - 10 feet	5 - 10 feet
15	6229 - Mixed Lowland Shrub	None	82.0			No	Stand is a riparian buffer or corridor along the Flat Rock Creek. Scattered trees in some areas.			
		Sub-Canopy Species	Density	Avg. Height	Size					
		Tag Alder	Medium	5 - 10 feet	5 - 10 feet					
16	6220 - Alder/Willow	None	13.0			No	Lowland area with scattered trees. Plenty of tag alder and some cedar on the edge			
17	500 - Water	None	10.9			No	Area of open water. Drains and intermittent streams flow in from the surrounding stands.			
18	42330 - Upland Fir	Poletimber Well	3.5	40	51-80	N/A	A small stand that was left along the riparian edge. Heavy budworm damage. Many different aged balsam within the stand. Stand should be coded as long term retention.			
		Canopy Species	% Cover	Size Class	DBH	Age				
		Balsam Fir	75		8	40				
		White Spruce	25		11					
19	4211 - Planted Red Pine	Unspecified	3.0	3	Immature		2024 - planted red pine trees are about 1foot tall. Stand harvested in the winter of 2021 under sale number 116-16 Camp Hope combo. Holli Forest products cut sale in winter little soil disturbance noted during harvest. Planted Spring 2023.			
		Sub-Canopy Species	Density	Avg. Height	Size					
		Red Pine	Full	< 5 feet	< 5 feet					
20	6122 - Black Spruce	Sapling Well	7.9	40	1-50	N/A	Very wet ground with a mix of both merchantable and non-merchantable timber. Stand consists of individual larger spruce with a mix of deciduous trees. Overall I decided to type the stand out younger due to only a couple patches of merchantable timber within it. I can discern a flowage within the center of the stand that runs to the East. A small patch of young aspen exists in the NW corner of the stand that was cut with the adjacent compartment 20+ years ago. Consider harvesting a small area of the West side of this stand if the adjacent stand get's prescribed in the future.			
		Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
		Paper Birch	2	Log/Pole	10		Tag Alder	Full	5 - 10 feet	5 - 10 feet
		Quaking Aspen	10	Sapling	4		White Pine	Low	Variable	Variable
		Balsam Poplar	10	Pole/Sapling	6		Black Spruce	High	Variable	Variable
		Balsam Fir	10	Pole/Sapling	5		Balsam Fir	High	Variable	Variable
		White Spruce	10	Log/Pole	10		Tamarack	Low	Variable	Variable
		Black Spruce	58	Sapling/Pole	4	40				



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																									
21	4130 - Aspen	Sapling Well	26.5	16	Immature	N/A	OPIC - FMD: Harvested in '09. TS #113-07. Stand consists of fully stocked and healthy looking aspen.																																																									
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22	6120 - Lowland Cedar	Sawtimber Medium	6.8	129	Unspecified	N/A	2024 - poor cedar stand. Agree with previous comments. There is a small tributary to flat rock creek east of the stand. Stand of very poor quality cedar in wet ground. Cedar is declining due to very wet ground. Most of the cedar is "cow-horn". Tops are dying out. A small rock knob exists in the SW corner of the stand.																																																									
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23	612 - Lowland Coniferous Forest	Unspecified	9.5	1	1-50		OI notes: An old east-west railroad grade used in the "pine days" is located in this stand. It connects with Kates Grade several miles to the east. 2024 - stand was harvested and is regenerating to lowland conifer with some deciduous.																																																									
24	4130 - Aspen	Poletimber Well	7.0	39	51-80	N/A	Stand was cut between '83-'86. TS# 10-83-01. Nice quality stand of aspen. Looks healthy.																																																									
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25	6120 - Lowland Cedar	Poletimber Well	16.3	97	1-50	N/A	Lowland stand that surrounds what is locally known as Scarffe's Creek (according to OI notes). Easternmost part of stand contains drainages that head north to south. Do not cut due to stream corridor and BMP issues.																																																									
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26	6124 - Lowland Spruce-Fir	Poletimber Well	22.5	65	Unspecified	N/A	Very wet stand with numerous seeps and flowages within it would make for BMP issues if cut. Various ages of tamarack and black spruce due to low stocking and wet conditions. Aspen within the stand is falling apart. Heavy tag alder and balsam fir within the understory. Balm and paper birch are scattered throughout the stand. Patches of fully stocked, merchantable timber are scattered. Budworm damage is extensive on the balsam and white spruce.																																																									
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27	4134 - Aspen, Spruce/Fir	Poletimber Poor	2.7	40	1-50	N/A	Rocky stand. Was previously unforested but is dense enough to be a forested stand now. Mixed of aspen, red maple, and fir mostly with some others.																																																		
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28	330 - Low-Density Trees	None	4.2			No	Lowland stand. Wet conditions with tag alder. Low density of mixed species trees. A drain runs through the stand.																																																		
29	6111 - Lowland Balsam Poplar	Poletimber Poor	18.0	97	Unspecified	N/A	2024 - very poor quality stand. Not much merchantable timber. Heavy understory of tag alder. Most timber is dead or dying. Very wet soil conditions. Stand was originally part of stand 5 but was omitted during t-sale prep. due to wet ground and low volume. Stand consists of lowland deciduous and conifer. Stand is very poor quality. Some areas consist of thick tag alder with young balsam fir and balm regeneration. Do not harvest the stand due to wet ground and low volume issues.																																																		
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30	4130 - Aspen	Poletimber Well	21.8	31	1-50	N/A	Harvested in 1993-94. TS# 4-90-01. Nice stand of big tooth and quaking aspen. Stand slopes down to wetland edge. Large red oak scattered throughout the stand. A few red oak sapling exist within the understory.																																																		
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31	4130 - Aspen	Sawtimber Well	3.5	93	51-80	N/A	Small island of over mature aspen within a black spruce swamp. Stand contains a mix of species, all of which are in poorer condition due to age. Paper birch is falling apart. Budworm damage on the fir and white spruce.																																																		
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32	4130 - Aspen	Poletimber Well	17.7	36	1-50	N/A	Stand of decent quality aspen with pockets of conifer throughout.																																																		
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33	42340 - Upland Spruce/Fir	Poletimber Well	8.0	40	1-50	N/A	A buffer strip of timber that was left as a riparian corridor against the wetland edge. Stand consists of older aspen with pockets of younger balsam fir. Scattered white spruce and a patch of cedar exists to the north. Balsam and white spruce has been hit hard by budworm.																																											
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34	4191 - Mixed Upland Deciduous with Conifer	Poletimber Well	7.6	65	81-110	N/A	OI notes say this stand is part of the riparian stream corridor of the Flat Rock Creek. I would concur with this statement. Stand consists of older timber that is falling apart. A thick understory of balsam will take over as the overstory continues to decline. The Flat Rock Creek flows through the middle of the stand. Large boulders in parts of the stand. A few large white and red pine along the stream edge. Do not harvest. Maintain as a buffer along stream edge.																																											
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38	4130 - Aspen	Sapling Well	5.3	9	51-80	N/A	Stand was harvested in the fall of 2016. TS# 108-16, Toivo's Cookstove. 2024 - stand has regenerated well fully stocked aspen with spruce and fir mixed in.																																											
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39	330 - Low-Density Trees	None	1.5			No	OPIC - FMD: Located in the SESW of Sec 29. OI Stand Year Origin was																																											
41	42340 - Upland Spruce/Fir	Sapling Medium	3.6	27	Immature	N/A	2024 - stand is filling in with mostly fir. Thick in spots and sparse in others. Fir looks healthy for the most part. 2014 - Stand was cut at the same time as the stand to the east. Stand is poorly stocked but is filling in with balsam fir and black spruce. The lowland part of the stand is fully stocked. Upland part is poorly stocked but should fill in within the next 10 years.																																											
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42	6117 - Lowland Deciduous, Mixed Coniferous	Poletimber Poor	4.6	70	1-50	N/A	Lowland stand of mixed species. Very wet ground. Most of the canopy species listed are in tough shape except for the cedar. Stand contains very low volume and is very wet, do not manage.																																																																	
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43	4130 - Aspen	Poletimber Well	14.6	37	51-80	N/A	Stand was cut in 1988. TS# 4-86-02. Stand of good quality aspen. Stand is in good condition.																																																																	
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44	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Medium	47.1	97	Unspecified	N/A	2024 - agree with prvious comments. Wet soils and very little merchantable timber. 2014 - Lowland stand with a mix of conifer and deciduous. Stand is very wet with thick pockets of tag alder throughout. Black spruce and tamarack are of small diameter. Balm and white spruce are in tough shape. Budworm damage on the spruce and balsam. Do not manage this stand.																																																																	
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46	6229 - Mixed Lowland Shrub	None	9.0			No	2024 - Lowland stand with a high water table. Most merchantable trees are dying or dead. Merchantable timber scattered throughout the stand but not much volume. Majority of the stand consists of regeneration is tag alder and other shrubs.																																																																	
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48	6229 - Mixed Lowland Shrub	None	2.8			No	Contains tributary to flat rock creek. Flows from stand 72 going east. East side of the road has scattered trees.																																																																	
49	6229 - Mixed Lowland Shrub	None	28.7			No	2024 - tributary of flat rock creek is withing the stand. Tag alder and low density trees are found throughout the stand. There are several beaver dams that have changed the levels in areas in the past. OPIC - FMD: Riprarian buffer for small tributary creek to the Flat Rock Creek. Potential biodiversity mgt area, - see Cmpt Header for comments.																																																																	



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50	4134 - Aspen, Spruce/Fir	Poletimber Well	12.0	60	Unspecified	N/A	Stand is currently under contract. TS# 32-009-23 Fraidy Frog Aspen and Spruce. OI notes say the stand was cut sometime in the '60's and then was hit hard by budworm in the '80's which may explain the heavy balsam fir within the understory. Stand consists of poorly stocked aspen with a very heavy component of small diameter balsam fir within the understory. Prescribe this stand for harvest when the adjacent stand to the East get's harvested in the adjacent compartment.																																												
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51	6111 - Lowland Balsam Poplar	Sapling Well	11.5	39	Unspecified	N/A	Was cut in '86. TS #004-79-01, Sale filed in Cmpt 241. Stand consists of low ground bam and aspen of decent quality. High stems per acre. Pockets of tag alder exist here and there.																																												
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52	6139 - Mixed Lowland Forest	Poletimber Well	8.3	80	Unspecified	N/A	Riparian corridor that was left as a buffer during the last timber sale harvest. Wet ground and a mix of lowland species with tag alder understory. Ash is dying out.																																												
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54	6122 - Black Spruce	Poletimber Well	8.0	82	Unspecified	N/A	Buffer strip left along the stream edge after last harvest occurred. Stand of mature balsam and black spruce with scattered paper birch. Paper birch is declining. Heavy budworm damage on balsam. Consider treating with stand 11.																																												
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55	6130 - Fir, Aspen, Maple	Poletimber Medium	6.7	37	Unspecified	N/A	Stand was cut in '88, the same time as stand 11 to the north. This stand however is wet and the regeneration is smaller and more patchy. Stand is poorly stocked due to wet ground. Areas of tag alder and dogwood exist.																																																													
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56	6120 - Lowland Cedar	Sawtimber Well	4.4	133	111-140	N/A	Island of cedar of poorer quality. A fair amount of cow-horned cedar and short trees. Wet areas exist within the stand. Wet areas are heavy to tag alder. Flowages exist within the stand but are hard to discern through the snow.																																																													
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57	42320 - Upland Spruce	Poletimber Well	12.3	101	Unspecified	N/A	Stand of older timber that was left as a buffer along the stream edge. Stand consists of black spruce mixed with other conifer and deciduous. Rocky areas exist within the stand. East part of the stand is low ground. Timber is in fairly good condition.																																																													
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59	6124 - Lowland Spruce-Fir	Poletimber Medium	30.1	96	Unspecified	N/A	Thin strip of conifer along the stream which acts as a buffer. Mostly lowland species but some upland species along south edge. Some large pine and aspen along the edge. Stand contains mixed ages and densities on the spruce and balsam. Stand took a hit from spruce budworm. Do not manage. Keep as a buffer.																																																													
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63	622 - Lowland Shrub	None	11.7			No	A former grass opening that is filling in tag alder and some scattered trees.																																																													
64	4134 - Aspen, Spruce/Fir	Sapling Well	4.9	16	Immature	N/A	Stand was cut in 2009. TS #32-113-07-01. Stand is regenerating back after the cut. The stand is filling in with a mix of conifer where the aspen is thin. The aspen is somewhat stunted due to the wet ground conditions.																																																													
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66	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Well	11.8	85	Unspecified	N/A	Stand of black spruce and cedar with scattered quaking aspen and paper birch. Most of the stand is a buffer that was left along the Flat Rock Creek. Black spruce is decent quality.																																																
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68	4134 - Aspen, Spruce/Fir	Poletimber Well	86.1	35	1-50	N/A	Stand was cut in winter of '90-'91. TS# 009-87-01. Stand consists of good quality aspen. Pockets of low ground exist throughout the stand.																																																
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69	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Well	32.7	70	1-50	N/A	Stand is the buffer along the wetland to the north. Mix of lowland species. Moderate tag alder in the understory. Aspen is oversized and falling out. The west end of the stand is heavier to deciduous trees and the east end is more conifer. Intermittent drains in spots flowing north to the wetland																																																
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72	6120 - Lowland Cedar	Poletimber Well	4.2	84	Unspecified	N/A	Stand of pole sized cedar with scattered tamarack and black spruce. A small stream flows through the central part of the stand. only a small portion of the stand is far enough from the stream to treat.																																																
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73	4130 - Aspen	Sapling Medium	6.1	9		N/A	Stand was harvested in the fall of 2016. TS# 108-16, Toivo's Cookstove. The aspen came back well in most spots but there are a few things patches. The thin areas are filling in with other species like fire and red maple.																																																
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75	310 - Herbaceous Openland	None	2.2			No	Small opening on the edge of Flat Rock Creek																																																



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																				
76	4130 - Aspen	Sapling Medium	11.4	13	Immature	N/A	Harvested in 2012: TS# 112-07-01. All the oak was left. Aspen is regenerating back nicely. Stand is fully stocked. A few scattered red oak and a couple of clumps of 3-4" balsam that was left after the cut.																																				
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400	310 - Herbaceous Openland	None	1.6			No	OI Notes: FTP #W31-135. Was contract disked, dragged, seeded (rye/clover mix), & fertilized in Sept 1984.2024 - opening has filled in very little. One small aspen clone in the center																																				
401	310 - Herbaceous Openland	None	3.5			No	OI Notes: FTP #W31-221. Skid trail from commercial timber sale #8-87 was disked & seeded on 6/10/91, and east end was then bermed.2024 - stand is still very open with some raspberry patches.																																				
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402	310 - Herbaceous Openland	None	6.7			No	2024 - stand is still very open with minimal aspen and fir encroachment on the edges. 2014 - OI Notes: FTP #W31-221. Logging road following a commercial harvest was widened by 1/2 chain on each side and landing at west end was expanded to 1 acre. After rock raking, these were then disked & seeded by Wildlife Division. Disking & seeding done on 6/10/1991. Then east end was bermed. In hindsight, now in 2005, this design may not be desirable due to the long, nearly 1/4 mile line of vision. Perhaps a winding or curved opening would have been better. We could still break up this long sight by planting patches of conifer at strategic spots along the course of the opening. A slight hill exists about midway which helps to shorten the sight somewhat.																																				
405	310 - Herbaceous Openland	None	3.7			No	OI Notes: FTP #W31-175 Was disked & seeded to grasses & legumes in Sept of 1989 following completion of commercial timber sale. This was a landing site used during logging. Note: roads were also disked & seeded, then bermed to block public vehicle traffic.2024 - opening is starting to fill in with scattered trees, mostly red pine.																																				
406	310 - Herbaceous Openland	None	1.8			No	OI Notes: FTP #W31-175 Was disked & seeded to grasses & legumes in Sept of 1989 following completion of commercial timber sale. This was a landing site used during logging. Note: roads were also disked & seeded, then bermed to block public vehicle traffic.2024 - about half the opening is filled with raspberry.																																				
407	330 - Low-Density Trees	None	1.7			No	Opening is filling in with red pine, balsam fir and black spruce. Stand is borderline between non-forested and forested.																																				
410	330 - Low-Density Trees	None	2.9			No	2024 - stand is filling in with fir and white spruce. It is nearly sense enough to be considered forested.OI Notes: FTP W31-182. Rock raked, disked, herbicided, & seeded in 1989 by Wildlife Division following a commercial timber sale cut in 1988. Trail roads were disked & seeded too, and then bermed.																																				



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
411	330 - Low-Density Trees	None	2.7			No	OI Notes: FTP W31-182. Rock raked, disked, & seeded in 1989 by Wildlife Division following a commercial timber sale cut in summer of 1990. Was herbicided in June of 1991. Trail roads were disked & seeded also, then bermed.2024 - Opening is filling in slowly with fir. Nearly an F4 type stand.
412	310 - Herbaceous Openland	None	1.5			No	OI Notes: Grass opening made from trails & landing of completed commercial timber sale cut in 1998. FTP #W31-411. Stand was stumped, disked, & seeded in Fall of 2000 by Wildlife Division. Raspberry and grass within the opening.
413	310 - Herbaceous Openland	None	1.9			No	OI Notes: Grass opening made from trails & landing of completed commercial timber sale cut in 1998. FTP #W31-411. Stand was stumped, disked, & seeded in Fall of 2000 by Wildlife Division.2024 - a few small conifer trees in the opening and small Raspberry patches. Very open
414	310 - Herbaceous Openland	None	3.3			No	2024 - stand is still quite open. Very few trees encroaching. OI Notes: FTP #W31-408. Was stumped, disked, & seeded in July of 2000 by Wildlife Division. Stand 8 was commercially cut prior to this in 1998.
415	3303 - Mixed Low Density Trees	None	11.1			No	2024 - some areas are mostly stocked with trees but most of the strip is still open. The wetter areas have fairly dense tag alder and higher ground areas are most open.OI Notes: This stand was the cleared ELF row from 1985 to 2005 and is now being de-commissioned for military use and will revert back to a natural state.