



Compartment Review Presentation

Gwinn Forest Management Unit

Compartment 32240

Entry Year: 2027

Acreage: 1,283

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 Suomi 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 1/4 of the oak resource on WUP state forest. The following have been identified as featured species for the Suomi 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:**

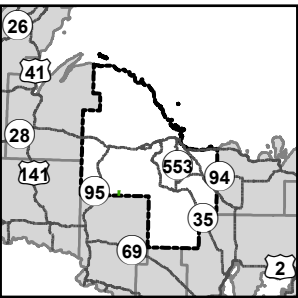
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

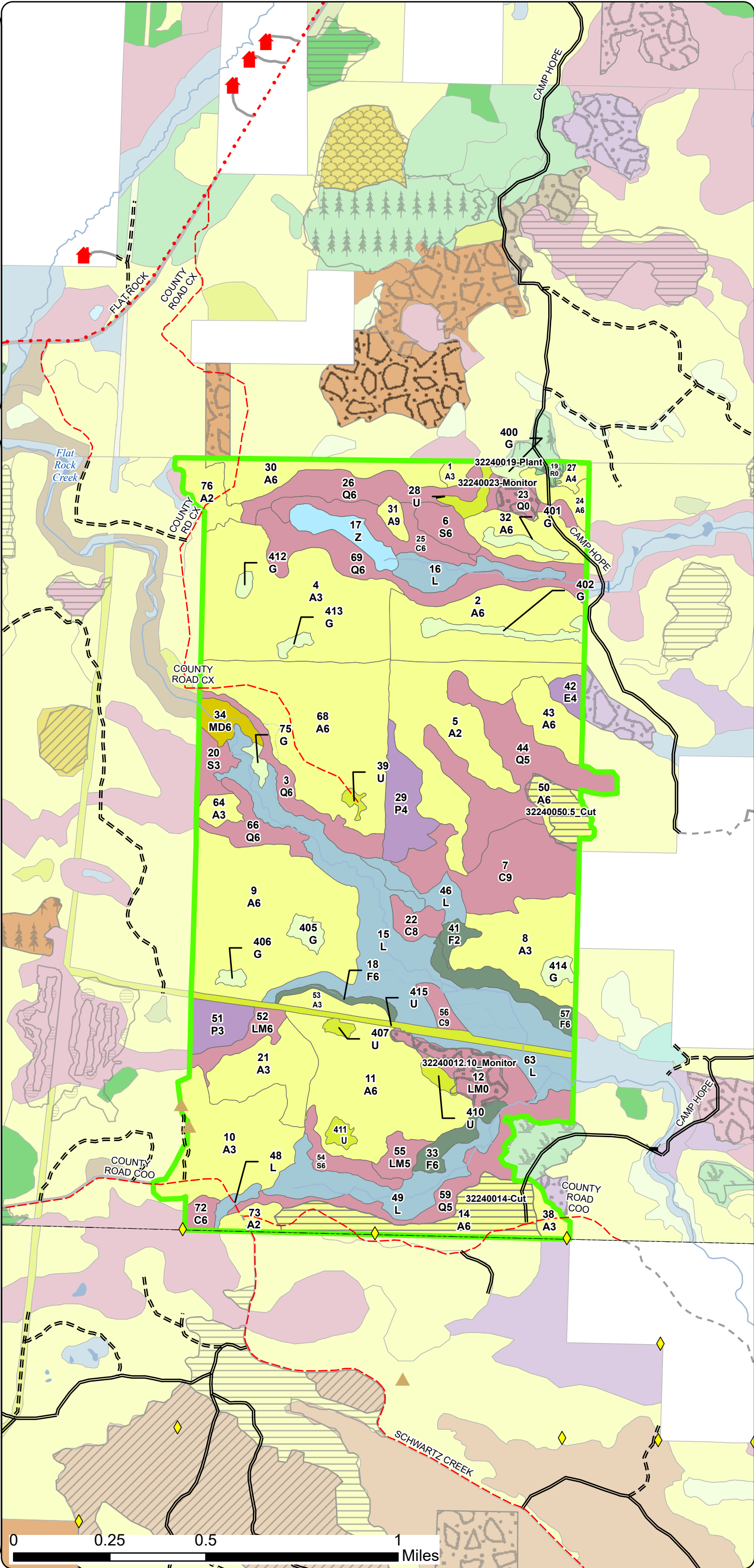
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

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: 1,283.14 GIS Calculated
Examiner: Kyle Gould
Date Exported: 08/19/2025
Map Phase: Web Post

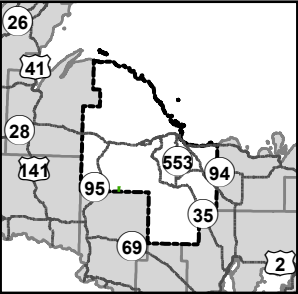


- Survey Grade Corners
- Cabin
- Berms
- Bridges
- Culvert
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- County - Gravel Road
- County - Dirt Road (Seasonal)
- Private - Paved Road
- Private - Dirt / Gravel Road
- Intermittent Stream
- Perennial River
- Lakes and Rivers
- Counties
- Compartment Boundary
- Treatments with Site Conditions
- Clearcut
- Planting (tree species)
- Monitoring - Regeneration
- Clearcut
- Strip/Patch Cut
- Thinning
- Site Prep
- Planting (tree species)
- Pesticide
- Monitoring - Regeneration
- Monitoring
- 413 - Aspen
- 419 - Mixed Upland Deciduous
- 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

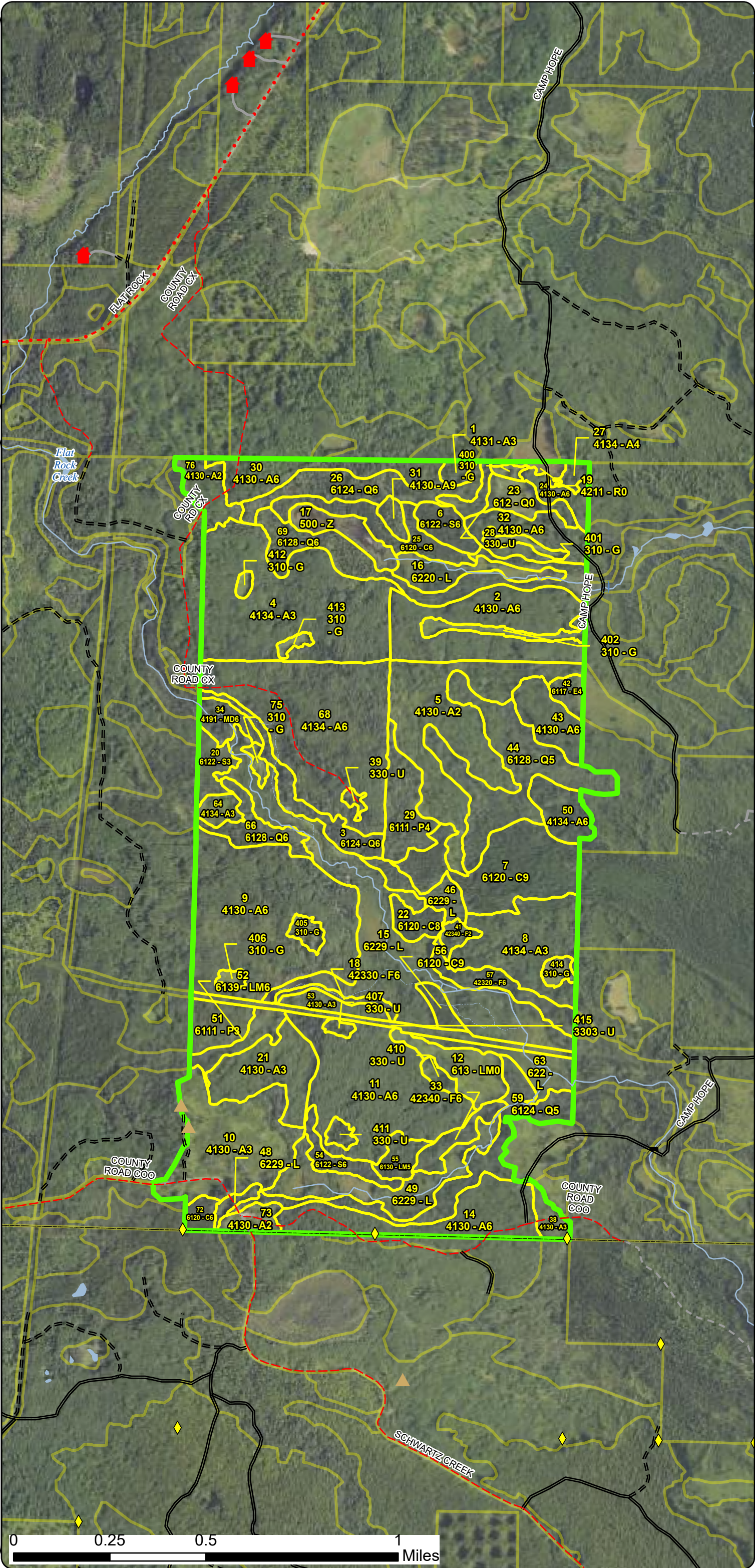


Stand Boundary Map

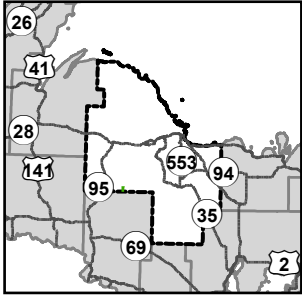
Compartment: 32240
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














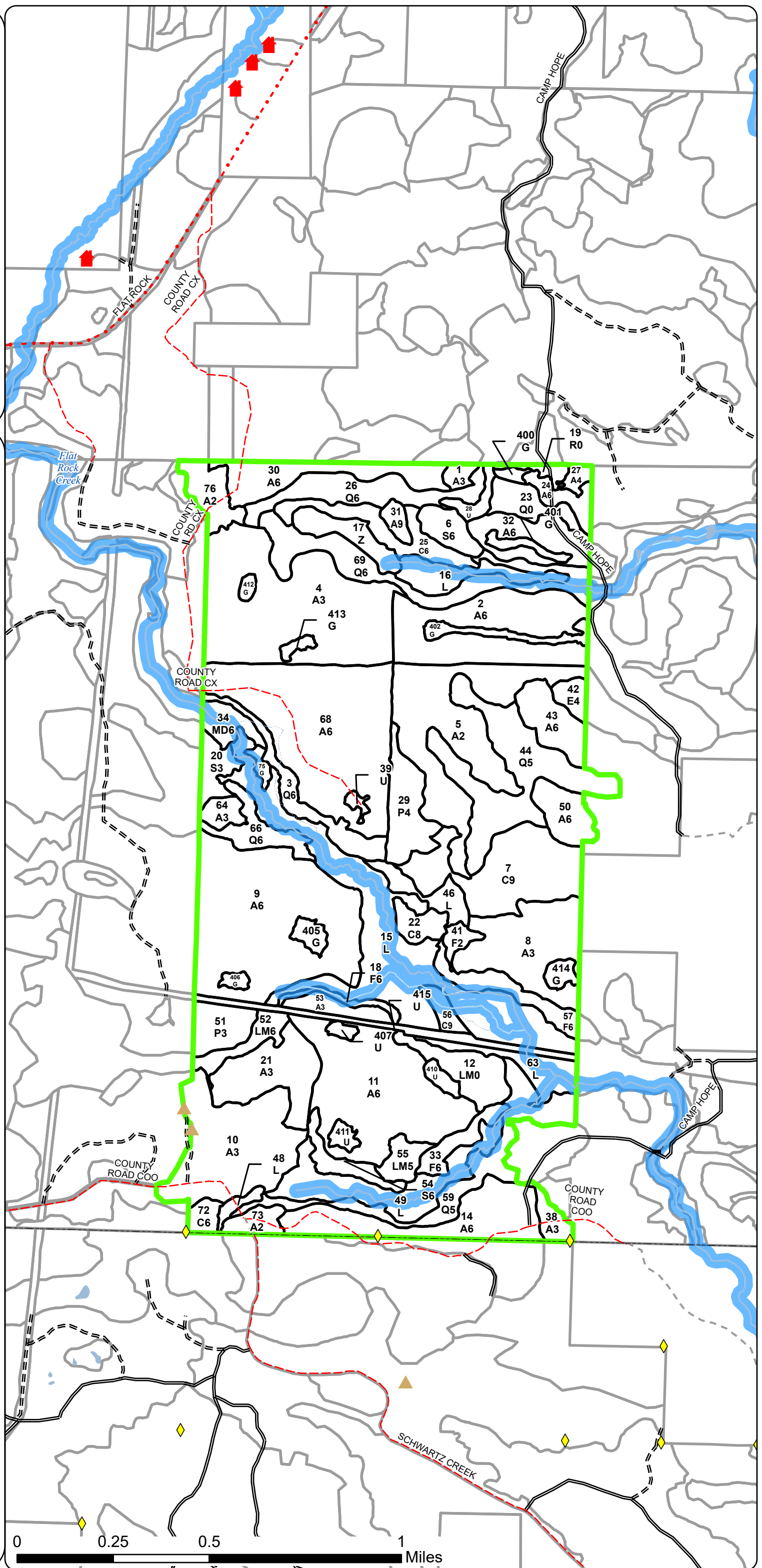
- Survey Grade Corners
- Cabin
- Berms
- Bridges
- Culvert
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- County - Gravel Road
- County - Dirt Road (Seasonal)
- Private - Paved Road
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- Perennial River
- Lakes and Rivers
- Counties
- Compartment Boundary
- Stand Outline
- 413 - Aspen
- 419 - Mixed Upland Deciduous
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-  Perennial River
-  Lakes and Rivers
-  Counties
-  Compartment Boundary
-  Stand Boundaries
-  Cold Water Streams
-  High Priority Trout Stream Buffer



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	38	0	12	0	0	4	0	0	0	0	0	0	0	705
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	5	0	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	58	0	43	38	47	123	12	0	7	4	43	0	0	1284



Report 2 – Treatment Summary

Gwinn Mgt. Unit
Year of Entry: 2027

Acres of Harvest

Compartment 240
Total Compartment Acres: 1,283

Commercial Harvest - 92
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		46	0	0	0	0	0	0	0	0	46
	Total	46	0	0	0	0	0	0	0	0	46

Proposed and Next Step Treatments by Method

		Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current		46	0	2	0	0	0	19	0	0	67
Next Step		0	0	0	0	0	0	51	0	0	51
	Total	46	0	2	0	0	0	69	0	0	118



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

14	32240014-Cut	35.0	4130 - Aspen	6	49	51-80	Harvest	Clearcut	413 - Aspen	Planting Record	No
<u>Prescription</u> Clearcut with retention. Buffer stream to the north 300 feet. Leave all oak, cedar, hemlock, white pine, red pine. <u>Specs:</u> <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u> <u>Acceptable</u> aspen <u>Regen:</u> <u>Other</u> <u>Comment:</u> <u>Site Condition:</u> <u>Proposed Start Date:</u> 10/01/2027											

Approved Treatments:

12	32240012.10_Monitor	13.3	613 - Lowland Mixed Forest	0	7		Monitoring	Monitoring - Regeneration	6124 - Lowland Spruce-Fir	Planting Record	No
<u>Prescription</u> Follow-up treatment with a regeneration survey as provided for in "Work Instruction 2.1 Reforestation". <u>Specs:</u> Refer to the most current Regeneration Survey Manual. <u>Next Step</u> <u>Treatments:</u> <u>Acceptable</u> spruce, tamarack, fir, cedar, birch, aspen and maple. <u>Regen:</u> <u>Other</u> <u>Comment:</u> <u>Site Condition:</u> <u>Proposed Start Date:</u> 10/01/2034											
19	32240019-Plant	2.3	4211 - Planted Red Pine	0	3	Immature	Planting	Planting (tree species)	4211 - Planted Red Pine	Planting Record	No
<u>Prescription</u> Replant at 200 trees per acre. <u>Specs:</u> <u>Next Step</u> Monitoring, Artificial Regen; Monitoring, Artificial Regen (3yr) <u>Treatments:</u> <u>Acceptable</u> Red Pine <u>Regen:</u> <u>Other</u> Percent to Treat = 100% <u>Comment:</u> <u>Site Condition:</u> <u>Proposed Start Date:</u> 10/01/2024											

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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
<u>Prescription</u> <u>Specs:</u> <u>Next Step</u> <u>Treatments:</u> <u>Acceptable</u> spruce, tamarack, fir, cedar, aspen. <u>Regen:</u> <u>Other</u> Percent to Treat = 100% <u>Comment:</u> <u>Site Condition:</u> <u>Proposed Start Date:</u> 10/01/2034										
50 32240050.5_Cut	11.2	4134 - Aspen, Spruce/Fir	6	60	Unspecified	Harvest	Clearcut	413 - Aspen	Planting Record	No
<u>Prescription</u> Clearcut all trees over 2 inches at DBH leaving only red and white pine, oak and cedar. <u>Specs:</u> <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u> <u>Acceptable</u> aspen, spruce, fir <u>Regen:</u> <u>Other</u> Bundle with 32239005 <u>Comment:</u> <u>Site Condition:</u> <u>Proposed Start Date:</u> 10/01/2022										

Total Treatment 67.1
Acreage Proposed:



Availability for Management

Total Acres	Acres Available	Acres Available <i>With Condition</i>	Acres Not Available	Dominant Site Conditions				
					2G	2H	3J	5E
568	548	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				
1,120	860		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 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



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



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
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
Balsam Fir		5	Log	2		Balsam Fir		Medium	< 5 feet	< 5 feet
Red Oak		20	Pole	4	16					
Red Maple		20	Log	3						
White Spruce		5	Log	2						
Quaking Aspen		50	Log	3	16					
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
Balsam Fir		5	Sapling	5		Hazelnut (Spp.)		Medium	5 - 10 feet	5 - 10 feet
Quaking Aspen		95	Seedling	7	36	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
Balsam Fir		20	Seedling	8		Balsam Fir		High	Variable	Variable
Black Spruce		43	Seedling	9	87	Quaking Aspen		Low	Variable	Variable
Tamarack		5		14		White Spruce		Low	Variable	Variable
Quaking Aspen		17		12		Tag Alder		Low	5 - 10 feet	5 - 10 feet
Paper Birch		5	Seedling	8		Black Spruce		Medium	Variable	Variable
White Spruce		10		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
Balsam Fir		15	Seedling	8		Hazelnut (Spp.)		Medium	5 - 10 feet	5 - 10 feet
White Spruce		5	Seedling	8		Balsam Poplar		Low	Variable	Variable
Quaking Aspen		80	Seedling	5	27	Balsam Fir		Medium	Variable	Variable
						Quaking Aspen		Low	Variable	Variable
						Red Maple		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
Balsam Fir		2	Log	3		White Spruce		Low	Variable	Variable
Balsam Poplar		5	Log	1		Tag Alder		Low	Variable	Variable
Paper Birch		8		10						
Quaking Aspen		85	Log	1	13					



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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	35.0	49	51-80	N/A	2024 - aspen stand is mature and ready for harvestStand 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 YOY.																																																															
<table><tr><th>Canopy Species</th><th>% Cover</th><th>Size Class</th><th>DBH</th><th>Age</th><th>Sub-Canopy Species</th><th>Density</th><th>Avg. Height</th><th>Size</th></tr><tr><td>Bigtooth Aspen</td><td>3</td><td>Seedling</td><td>8</td><td></td><td>Balsam Fir</td><td>Medium</td><td>Variable</td><td>Variable</td></tr><tr><td>Quaking Aspen</td><td>97</td><td>Sapling</td><td>7</td><td>49</td><td>Hazelnut (Spp.)</td><td>Medium</td><td>5 - 10 feet</td><td>5 - 10 feet</td></tr></table>								Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size	Bigtooth Aspen	3	Seedling	8		Balsam Fir	Medium	Variable	Variable	Quaking Aspen	97	Sapling	7	49	Hazelnut (Spp.)	Medium	5 - 10 feet	5 - 10 feet																																				
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Quaking Aspen	97	Sapling	7	49	Hazelnut (Spp.)	Medium	5 - 10 feet	5 - 10 feet																																																														
15	6229 - Mixed Lowland Shrub	None	82.0			No	Stand is a riprian buffer or corridor along the Flat Rock Creek. Scattered trees in some areas.																																																															
<table><tr><th>Sub-Canopy Species</th><th>Density</th><th>Avg. Height</th><th>Size</th></tr><tr><td>Tag Alder</td><td>Medium</td><td>5 - 10 feet</td><td>5 - 10 feet</td></tr></table>								Sub-Canopy Species	Density	Avg. Height	Size	Tag Alder	Medium	5 - 10 feet	5 - 10 feet																																																							
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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.																																																															
<table><tr><th>Canopy Species</th><th>% Cover</th><th>Size Class</th><th>DBH</th><th>Age</th></tr><tr><td>White Spruce</td><td>25</td><td></td><td>11</td><td></td></tr><tr><td>Balsam Fir</td><td>75</td><td></td><td>8</td><td>40</td></tr></table>								Canopy Species	% Cover	Size Class	DBH	Age	White Spruce	25		11		Balsam Fir	75		8	40																																																
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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.																																																															
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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.																																																															
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																			
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 ot 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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Balsam Fir	Full	>20 feet	>20 feet																																																							
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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							OI Notes: Stand was commercially cut in 1989 by Minerick Logging, Inc., permit #008-87-01, "Camp Hope Road Block". Note that a permanent corrugated galvanized metal 36 inch diameter by 20 foot long culvert was installed on Scarffe's Creek on the Camp Hope Road as a condition of this sale. Access into the sale was from the east off the Camp Hope Rd, and as a post sale treatment, Wildlife Division created a grass opening (stand #401) from the logging access road.																																																			



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments				
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.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Northern White Cedar		2		14		Hazelnut (Spp.)		Medium	5 - 10 feet	5 - 10 feet	
Balsam Poplar		15		10		Tag Alder		Low	5 - 10 feet	5 - 10 feet	
Quaking Aspen		20		12	75	Balsam Fir		Medium	Variable	Variable	
White Spruce		15		12							
Balsam Fir		48	Seedling	8	40						
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.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
White Spruce		16		14		Balsam Fir		Full	10 - 20 feet	10 - 20 feet	
Red Maple		20	Seedling	8		Tag Alder		Low	5 - 10 feet	5 - 10 feet	
Quaking Aspen		20		14		Balsam Poplar		Low	Variable	Variable	
Tamarack		3		5							
Balsam Fir		20	Seedling	8	65						
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.				
Canopy Species		% Cover	Size Class	DBH	Age						
Red Maple		3	Log	2	9						
White Spruce		2	Log	2							
Balsam Fir		10	Log	2	9						
Quaking Aspen		85	Log	3	9						
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.				
Canopy Species		% Cover	Size Class	DBH	Age						
Black Spruce		55		3	27						
Quaking Aspen		15	Pole	4							
Balsam Fir		30		3	27						





Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
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.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Balsam Fir	25	Sapling	5		Balsam Fir	Full		>20 feet	>20 feet
Northern White Cedar	2	Seedling	7						
Quaking Aspen	73	Seedling	8	60					
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.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Balsam Poplar	65		6	39	Tag Alder	Low		5 - 10 feet	5 - 10 feet
Quaking Aspen	35		6		White Spruce	Low		Variable	Variable
					Balsam Fir	Medium		5 - 10 feet	5 - 10 feet
					Quaking Aspen	Medium		10 - 20 feet	10 - 20 feet
					Hazelnut (Spp.)	Low		5 - 10 feet	5 - 10 feet
					Balsam Poplar	Medium		10 - 20 feet	10 - 20 feet
					Red Osier Dogwood	Low		5 - 10 feet	5 - 10 feet
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.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Paper Birch	15		8	80	Balsam Fir	Medium		5 - 10 feet	5 - 10 feet
Balsam Fir	15		6		Tag Alder	Medium		5 - 10 feet	5 - 10 feet
Balsam Poplar	20		8						
Black Ash	10		6						
Northern White Cedar	15		11						
Black Spruce	25		7	80					
53	4130 - Aspen	Sapling Well	6.8	16	Immature	N/A	Cut in '09. TS# 113-07. Stand consists of good quality aspen regeneration. Fully stocked stand. A few scattered balsam fir exist.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Balsam Fir	2	Log	4		Quaking Aspen	Medium		Variable	Variable
Quaking Aspen	98		2	16					
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.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Black Spruce	85		10	82	Tag Alder	Low		5 - 10 feet	5 - 10 feet
Paper Birch	5		10		Balsam Fir	Medium		Variable	Variable
Balsam Fir	10	Seedling	8						



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
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.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Quaking Aspen	38	Pole	4	37	Balsam Fir	Low		Variable	Variable
White Spruce	10	Log	3		Tag Alder	Medium		5 - 10 feet	5 - 10 feet
Balsam Poplar	10	Log	3		Red Osier Dogwood	Low		5 - 10 feet	5 - 10 feet
Tamarack	2	Log	3						
Balsam Fir	25	Sapling	5						
Black Spruce	15		6						
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.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Northern White Cedar	100		14	133	Balsam Fir	Low		Variable	Variable
					Tag Alder	Medium	5 - 10 feet	5 - 10 feet	
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.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
White Spruce	15		14		Black Spruce	Medium		Variable	Variable
White Pine	5		18		Jack Pine	Low		Variable	Variable
Balsam Poplar	2	Seedling	8		Balsam Fir	Medium		Variable	Variable
Northern White Cedar	5		14						
Black Spruce	65	Seedling	9	101					
Paper Birch	8	Seedling	8						
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.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Paper Birch	4	Seedling	8		White Spruce	Low		Variable	Variable
Balsam Fir	37	Seedling	8	96	Balsam Fir	High		Variable	Variable
White Spruce	10		12		Black Spruce	Medium		Variable	Variable
White Pine	1		20		Tag Alder	Medium		5 - 10 feet	5 - 10 feet
Red Maple	5		10						
Northern White Cedar	3	Seedling	8						
Quaking Aspen	3		12						
Black Spruce	37	Seedling	8	96					
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 theaspen is thin. The aspen is somewhat stunted due to the wet ground conditions.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Black Spruce	15	Log	1		Tag Alder	Medium		5 - 10 feet	5 - 10 feet
Quaking Aspen	75		2	16	Balsam Fir	Low		Variable	Variable
Balsam Fir	10		2						



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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.																																	
<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>28</td><td></td><td>2</td><td></td></tr><tr><td>Balsam Fir</td><td>2</td><td>Log</td><td>4</td><td></td></tr><tr><td>Quaking Aspen</td><td>70</td><td></td><td>3</td><td>13</td></tr></table>		Canopy Species	% Cover	Size Class	DBH	Age		Balsam Poplar	28		2		Balsam Fir	2	Log	4		Quaking Aspen	70		3	13	<table><tr><th>Sub-Canopy Species</th><th>Density</th><th>Avg. Height</th><th>Size</th></tr><tr><td>Witch Hazel</td><td>Medium</td><td>5 - 10 feet</td><td>5 - 10 feet</td></tr><tr><td>Balsam Fir</td><td>Low</td><td>< 5 feet</td><td>< 5 feet</td></tr><tr><td>Quaking Aspen</td><td>Low</td><td>< 5 feet</td><td>< 5 feet</td></tr></table>		Sub-Canopy Species	Density	Avg. Height	Size	Witch Hazel	Medium	5 - 10 feet	5 - 10 feet	Balsam Fir	Low	< 5 feet	< 5 feet	Quaking Aspen	Low	< 5 feet	< 5 feet
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400	310 - Herbaceous Openland	None	1.6			No																																		
401	310 - Herbaceous Openland	None	3.5			No																																		
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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.																																	
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.																																	



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
412	310 - Herbaceous Openland	None	1.5			No	<p>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.</p> <p>Raspberry and grass within the opening.</p>
413	310 - Herbaceous Openland	None	1.9			No	<p>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</p>
414	310 - Herbaceous Openland	None	3.3			No	<p>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.</p>
415	3303 - Mixed Low Density Trees	None	11.1			No	<p>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.</p>