

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 it's 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; course 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 CountyNo 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.

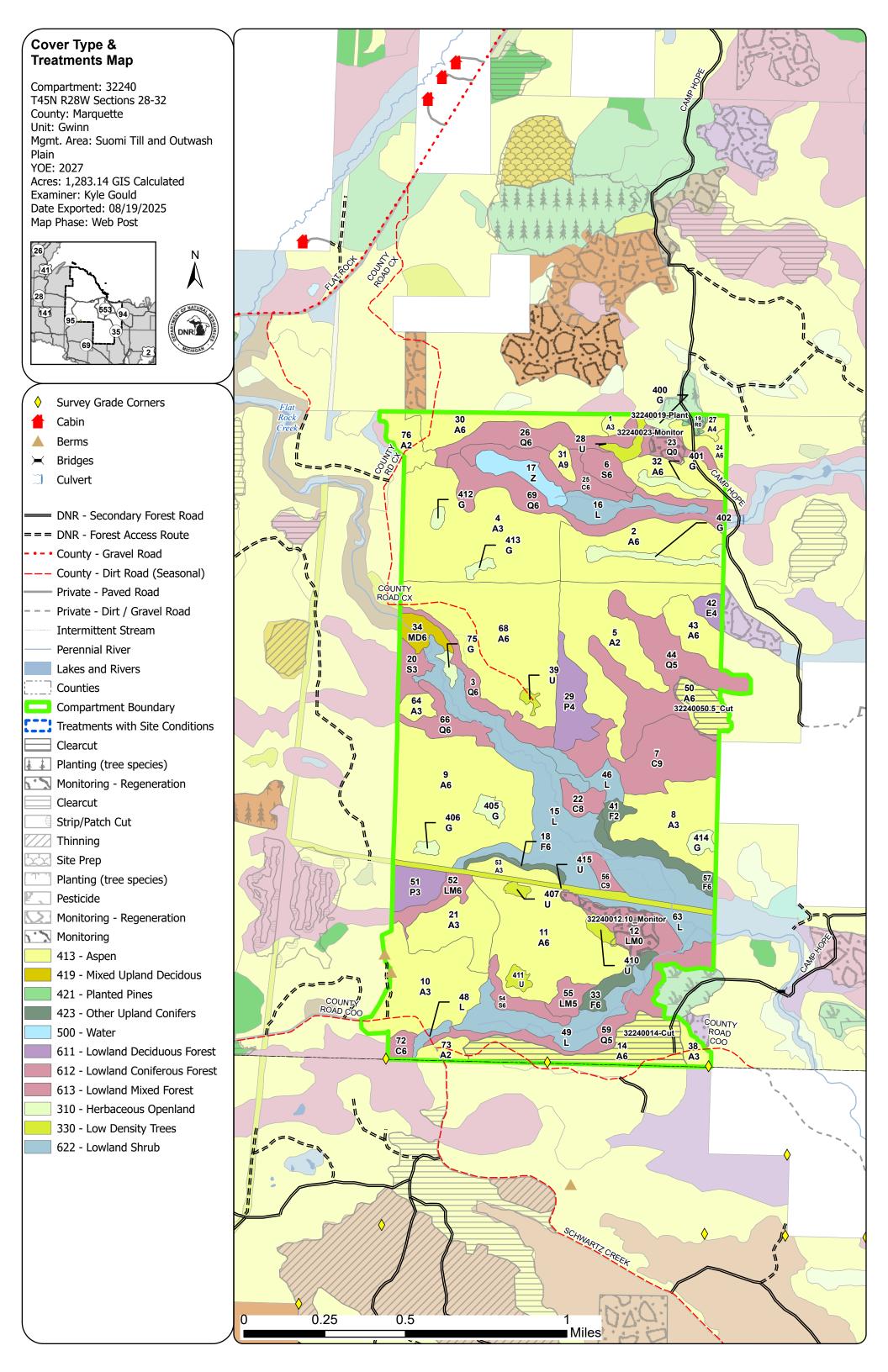
Additional Compartment Information:

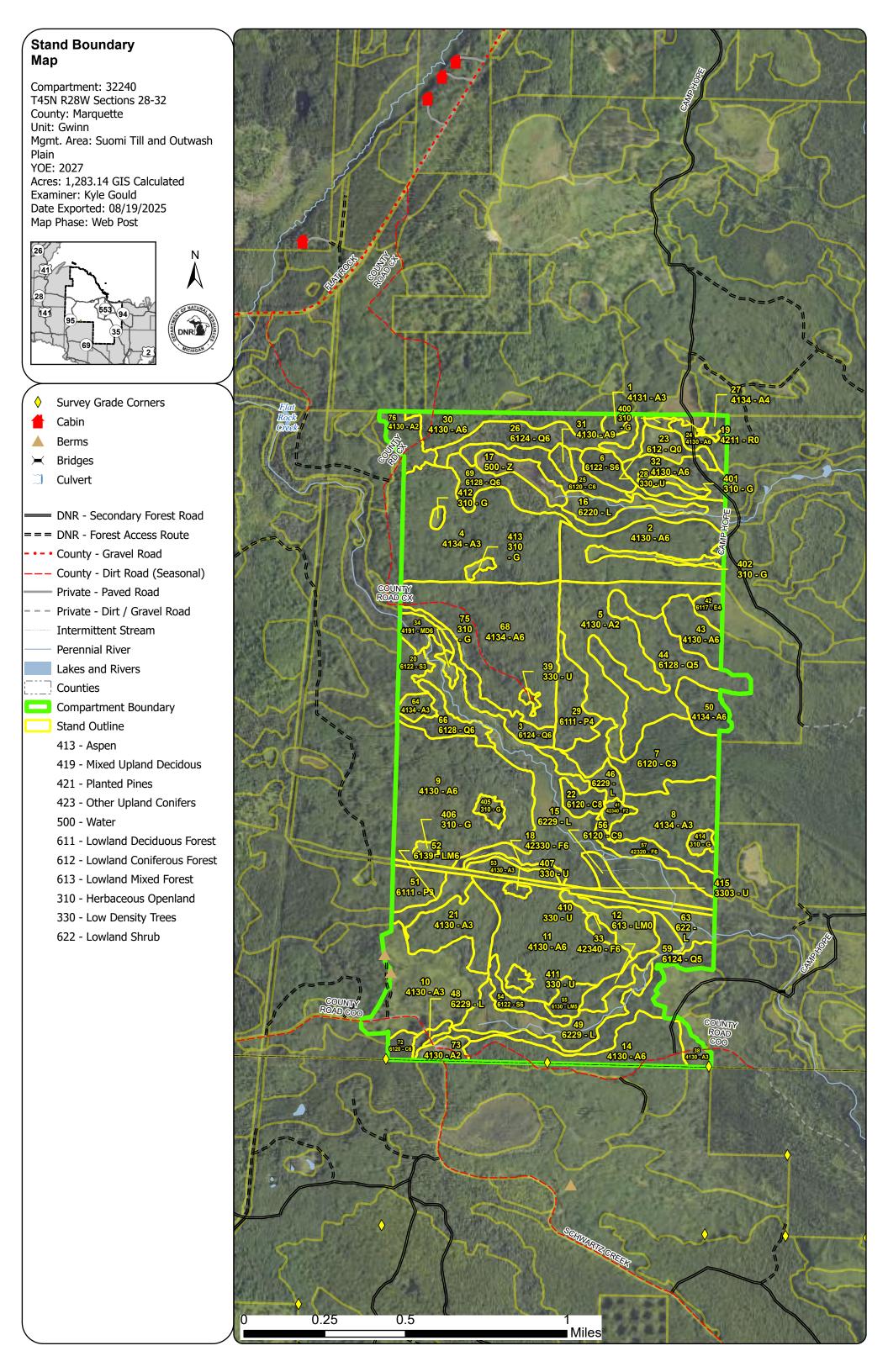
The following reports from the Inventory are attached:

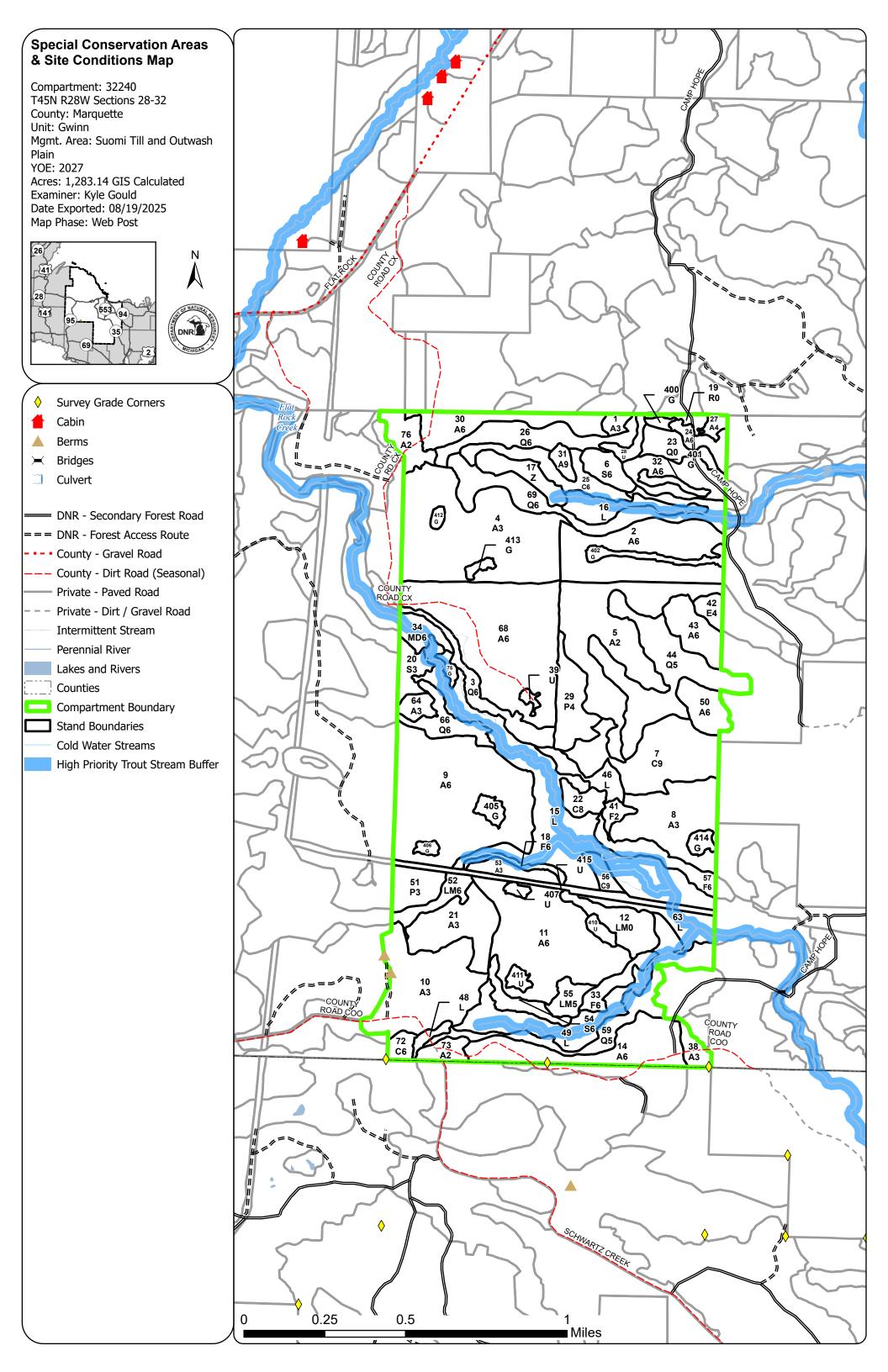
Total Acres by Cover Type and Age Class
Cover Type by Harvest Method
Proposed Treatments – No Limiting Factors
Proposed Treatments – With Limiting Factors
Stand Details (Forested and Nonforested)
Dedicated and Proposed Special Conservation Areas
Site Condition Details

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







Kyle Gould: Examiner

Gwinn Mgt. Unit

Compartment 240 Year of Entry 2027



Age Class

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	Į gor		8° / §						/ \$ / ⁸				7a,					\$ June	LOS LOS
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	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	58	0	43	38	47	123	12	0	7	4	43	0	0	1284



Report 2 – Treatment Summary

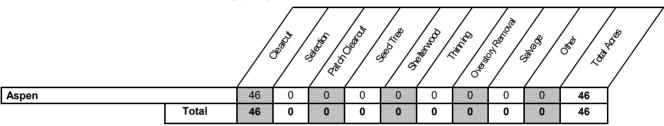
Gwinn Mgt. Unit Year of Entry: 2027

Acres of Harvest

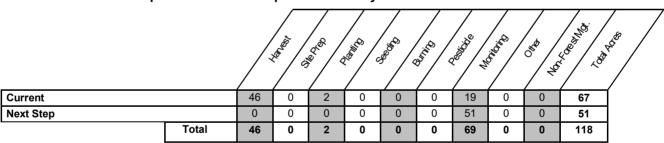
Compartment 240
Total Compartment Acres: 1,283

Commercial Harvest - 92 Harvests with Site Condition - 0 Next Step Harvest - 0 Habitat Cut - 0

Cover Type by Harvest Method



Proposed and Next Step Treatments by Method



Gwinn Mgt. Unit Report 3 -- Treatments

Compartment: 32240 Year of Entry: 2027 DNR DICHIGAN

а **Treatment** Acres Stand Size Stand BA **Treatment Treatment Cover Type** Age Habitat n CoverType Method Objective Name Density Structure Age Range Type Cut d

Proposed Treatments:

14 32240014-Cut 35.0 4130 - Aspen 6 49 51-80 Harvest Clearcut 413 - Aspen Planting No Record

Prescription Clearcut with retention. Buffer stream to the north 300 feet. Leave all oak, cedar, hemlock, white pine, red pine.

Specs:

s

t

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable aspen

Regen: Other

Comment:

Site Condition:

Proposed Start Date: 10/01/2027

Approved Treatments:

1232240012.10_13.3613 - Lowland Mixed07MonitoringMonitoring -6124 - LowlandPlantingNoMonitorForestRegenerationSpruce-FirRecord

<u>Prescription</u> Follow-up treatment with a regeneration survey as provided for in "Work Instruction 2.1 Reforestation".

Specs: Refer to the most current Regeneration Survey Manual.

Next Step Treatments:

Acceptable spruce, tamarack, fir, cedar, birch, aspen and maple.

Regen:
Other
Comment:

Site Condition:

Proposed Start Date: 10/01/2034

32240019-2.3 4211 - Planted Red 4211 - Planted Planting 19 0 3 Immatu **Planting** Planting (tree No **Plant** Pine species) Red Pine Record

Prescription Replant at 200 trees per acre.

Specs:

Next Step Monitoring, Artificial Regen; Monitoring, Artificial Regen (3yr)

Treatments:

Acceptable Red Pine

Regen:

Other Percent to Treat = 100%

Comment:
Site Condition:

Proposed Start Date: 10/01/2024

s t		Gwin	n Mgt. Unit		Repoi	rt 3 1	reatments		Compartmer Year of Entr		DNR DNR
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
23	32240023- Monitor	5.3	612 - Lowland Coniferous Forest	0	1	1-50	Monitoring	Monitoring - Regeneration	612 - Lowland Coniferous Forest	Planting Record	No
Preso Spec	cription s:										
Next Treat	<u>Step</u> ments:										
Acce Rege		e, tamarack	k, fir, cedar, aspen.								
Other Comr		nt to Treat	= 100%								
Site C	Condition:										
Propo	osed Start Date	<u>:</u> 10/01/2	034								
50	32240050.5_C ut	11.2	4134 - Aspen, Spruce/Fir	6	60	Unspeci fied	Harvest	Clearcut	413 - Aspen	Planting Record	No
Preso Spec		ut all trees	over 2 inches at DBI	H leaving o	only red a	and white	pine, oak and ce	edar.			
Next Treat	<u>Step</u> Monito <u>ments:</u>	ring, Natur	al Regen (Re-Invento	ory)							
Acce Rege		, spruce, fir									
Other Comr	-	with 3223	9005								

Total Treatment Acreage Proposed: 67.1

Proposed Start Date: 10/01/2022

Site Condition:

Report 4 - Site Conditions

Gwinn Mgt. Unit

Kyle Gould: Examiner

Compartment: 240 Year of Entry: 2027



Availability for Management Total Acres Acres Avail Acres **Dominant Site Conditions** Available With Condition Not Available Acres 3J 5E 2G 2H Aspen Cedar Herbaceous Openland Low-Density Trees Lowland Aspen/Balsam Poplar **Lowland Conifers** Lowland Deciduous Lowland Mixed Forest Lowland Shrub Lowland Spruce/Fir Mixed Upland Deciduous Red Pine Upland Spruce/Fir Water 1,120 **Total Forested Acres** 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.

	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 w	et soils.	Also, very little merchantab	e timber within the stand.	. Mostly tag alder and barr	n regen.
		3		•		, 0	
2	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	47	Unspecified	Unspecified	Unspecified	Unspecified

Report 4 – Site Conditions

Gwinn Mgt. Unit Kyle Gould: Examiner



omments: ffer along stream Unavailable omments:	3J: Water quality/BMPs					
mmonto	(stream, river, or lake)	23	Unspecified	Unspecified	Unspecified	Unspecified
ffer along stream	1.					
Unavailable	3J: Water quality/BMPs (stream, river, or lake)	49	Unspecified	Unspecified	Unspecified	Unspecified
omments: ffer along wetlan	d and stream.					
Unavailable	5E: Long-Term Retention	8	3J: Water quality/BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
omments:						
Unavailable	3J: Water quality/BMPs (stream, river, or lake)	28	5E: Long-Term Retention	Unspecified	Unspecified	Unspecified
omments:						
Unavailable	5E: Long-Term Retention	6	Unspecified	Unspecified	Unspecified	Unspecified
omments: et areas and pato	thes of mature timber left out of	f the s	ale area for long term retention	n purposes. Timber sale	÷ 108-16	
Unavailable	3J: Water quality/BMPs (stream, river, or lake)	1	5E: Long-Term Retention	Unspecified	Unspecified	Unspecified
)	Unavailable mments: Unavailable mments: t areas and pate	Unavailable 3J: Water quality/BMPs (stream, river, or lake) mments: Unavailable 5E: Long-Term Retention mments: t areas and patches of mature timber left out of Unavailable 3J: Water quality/BMPs	Unavailable 3J: Water quality/BMPs 28 (stream, river, or lake) mments: Unavailable 5E: Long-Term Retention 6 mments: t areas and patches of mature timber left out of the s Unavailable 3J: Water quality/BMPs 1	Unavailable 3J: Water quality/BMPs 28 5E: Long-Term Retention (stream, river, or lake) mments: Unavailable 5E: Long-Term Retention 6 Unspecified mments: t areas and patches of mature timber left out of the sale area for long term retention Unavailable 3J: Water quality/BMPs 1 5E: Long-Term Retention	Unavailable 3J: Water quality/BMPs 28 5E: Long-Term Retention Unspecified (stream, river, or lake) mments: Unavailable 5E: Long-Term Retention 6 Unspecified Unspecified mments: t areas and patches of mature timber left out of the sale area for long term retention purposes. Timber sale Unavailable 3J: Water quality/BMPs 1 5E: Long-Term Retention Unspecified	Unavailable 3J: Water quality/BMPs 28 5E: Long-Term Retention Unspecified Unspecified Unavailable 5E: Long-Term Retention 6 Unspecified Unspecified Unspecified Unavailable 5E: Long-Term Retention 6 Unspecified Unspecified Unspecified Unavailable 3J: Water quality/BMPs 1 5E: Long-Term Retention Unspecified Unspecified Unspecified

Report 4 – Site Conditions

Gwinn Mgt. Unit

Kyle Gould: Examiner



11	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
	Comments: Red lined out a we	t pocket within the timber sale fo	or retention	on purposes.			
12	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
	Comments: Red lined out a we	t pocket within the timber sale fo	or retention	on purposes.			
4	Unavailable	3J: Water quality/BMPs (stream, river, or lake)	8	Unspecified	Unspecified	Unspecified	Unspecified
C	comments:						
5	Unavailable	3J: Water quality/BMPs (stream, river, or lake)	8	Unspecified	Unspecified	Unspecified	Unspecified
	Comments: Flat Rock Creek flo	ows through the middle of this st	and. 300	ft. buffer consumes enti	re stand.		
16	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
	comments: ong-term retention	n for stand 50.					
31	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	4	Unspecified	Unspecified	Unspecified	Unspecified
C	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				

Gwinn Mgt. Unit



Stan	d Level 4 C	over Type		Size De	ensity	Acres	Stand Age	BA Range	Managed S	ite	General Comments			
1	4131 - <i>F</i>	Aspen, Oak		Sapling	g Well	2.9	16		N/A	4	Small hilltop coming out of the wetlands to the south. Mix of aspen, red			
	Canopy Species	% Cover	Size Class	DBH	l Age	Sub-Ca	nopy Species	s Density	Avg. Height	Size	maple, oak, and conifers all around 3" DBH. Was remote called an opening in the previous inventory.			
	Balsam Fir	5	Log	2		Ва	lsam Fir	Medium	< 5 feet	< 5 feet	graming in the promote intensity.			
	Red Oak	20	Pole	4	16						<u>-</u>			
	Red Maple	20	Log	3										
	White Spruce	5	Log	2										
	Quaking Aspen	50	Log	3	16									
2	4130	- Aspen		Poletimb	er Well	50.5	36	1-50	N/A	4	2024 - stand is moderate quality, pole sized aspen. Overall the stand			
	Canopy Species	% Cover	Size Class	DBH	l Age	Sub-Ca	nopy Species	s Density	Avg. Height	Size	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-			
	Balsam Fir	5	Sapling	5		Haze	elnut (Spp.)	Medium	5 - 10 feet	5 - 10 feet	87-01, Wildlife Division created a grass opening (stand #402) from the			
	Quaking Aspen	95	Seedling	7	36	Ва	lsam Fir	Medium	Variable	Variable	logging access road.			
3	6124 - Lowl	and Spruce	-Fir	Poletimb	er Well	15.1	87	Unspecified	N/A	A	Riparian corridor along Flat Rock Creek. Many different age classes of			
	Canopy Species	% Cover	Size Class	DBH	l Age	Sub-Ca	nopy Species	s Density	Avg. Height	Size	conifers throughout. Rock outcrops throughout the stand. Budworm damage throughout the stand. Do not manage, maintain as a buffer			
	Balsam Fir	20	Seedling	8		Ва	lsam Fir	High	Variable	Variable	along the stream.			
	Black Spruce	43	Seedling	9	87	Qual	king Aspen	Low	Variable	Variable				
	Tamarack	5		14		Whi	te Spruce	Low	Variable	Variable				
	Quaking Aspen	17		12		Ta	ag Alder	Low	5 - 10 feet	5 - 10 feet				
	Paper Birch	5	Seedling	8		Blad	ck Spruce	Medium	Variable	Variable				
	White Spruce	10		14										
4	4134 - Asp	en, Spruce/	Fir	Sapling	g Well	85.5	27	Immature	N/A	4	Stand was cut in the summer/fall of 1998. TS#102-97-01. Stand			
	Canopy Species	% Cover	Size Class	DBH	l Age	Sub-Ca	nopy Species	s Density	Avg. Height	Size	consists of good quality aspen. Clumps of pole sized white spruce and balsam are scattered throughout. Sale notes mentioned 1 stick spruce			
	Balsam Fir	15	Seedling	8		Haze	elnut (Spp.)	Medium	5 - 10 feet	5 - 10 feet	was left during the timber sale. A few scattered red oak exist in the NW			
	White Spruce	5	Seedling	8		Bals	am Poplar	Low	Variable	Variable	corner of stand. 2 wildlife openings exist within the stand as well. There			
	Quaking Aspen	80	Seedling	5	27	Ва	ılsam Fir	Medium	Variable	Variable	are some wetter areas in the stand with tag alder but they are small and scattered.			
						Qual	king Aspen	Low	Variable	Variable				
						Re	ed Maple	Low	Variable	Variable				
5	4130	- Aspen	;	Sapling I	Medium	62.1	13	Immature	N/A	4	2024 - nice dense aspen stand. Some large paper birch were left and			
	Canopy Species	% Cover	Size Class	DBH	l Age	Sub-Ca	nopy Species	s Density	Avg. Height	Size	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.			
	Balsam Fir	2	Log	3		Whi	te Spruce	Low	Variable	Variable	Stand has regenerated back well in most areas.			
	Balsam Poplar	5	Log	1		Ta	ag Alder	Low	Variable	Variable				
	Paper Birch	8		10							_			
	Quaking Aspen	85	Log	1	13									



Canopy Species	Stand	Level 4 Co	over Type		Size De	nsity	Acres	Stand Age B	A Range	Managed S	ite	General Comments			
Canopy Species % Cover Size Class DBH Age Black Spruce Low Variable Variable Variable Size Variable Va	6	6122 - Bla	ack Spruce				8.4	97 U	Inspecified	N/A		Stand of cedar and spruce. Black spruce is smaller diameter. Cedar is			
Northern White Cedar 37 Seedling 9 Balsam Fir Low Variable Variable Tag Alder Low 5 - 10 feet 5 - 10 feet		Canopy Species	% Cover	Size Class	DBH	Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	this stand contains a stream. If harvested stream would need a buffer.			
Paper Birch 5 Seedling 8 Tag Alder Low 5 - 10 feet 5 -		Tamarack	5		12		Blac	k Spruce	Low	Variable	Variable	There are 2 drains in the stand making it difficult to treat without BMP			
Black Spruce 50 Seeding 8 97 White Spruce 3	No	orthern White Cedar	37	Seedling	9		Ва	lsam Fir	Low	Variable	Variable	issues.			
White Spruce 3 16		Paper Birch	5	Seedling	8		Ta	ng Alder	Low	5 - 10 feet	5 - 10 feet				
7 6120 - Lowland Cedar Sawtimber Well 42.8 14.4 111-140 N/A Canopy Species W Cover Size Class DBH Age Black Spruce 8 10 10 10 10 10 10 10		Black Spruce	50	Seedling	8	97						_			
Canopy Species % Cover Size Class DBH Age Black Spruce 8 10 10 10 10 10 10 10		White Spruce	3		16										
Canopy Species W Cover Size Class DBH Age Black Spruce 8 8 10 9 Sub-Canopy Species Density Arg. Height Spruce 9 8 8 10 9 Sub-Canopy Species Density Arg. Height Spruce 10 Stand that flows west. There may be more. White Spruce 3 14 14 Sub-Canopy Species Density Northern White Cedar 72 12 144 Sub-Canopy Species Northern White Cedar 72 12 144 Sub-Canopy Species Northern White Cedar 72 142 144 Sub-Canopy Species Northern White Cedar 72 Sub-Canopy Species Northern White Cedar Northern White Cedar 72 Sub-Canopy Species Northern Well Sub-Canopy	7	6120 - Lov	vland Ceda	r	Sawtimb	er Well	42.8	144	111-140	N/A		Lowland stand of mature cedar. Stand has pockets of black spruce and			
Black Spruce 8		Canopy Species	% Cover	Size Class	DBH	Age	Sub-Ca	nopy Species	Density	Avg. Height	Size				
White Spruce 3		Black Spruce	8		10		Ta	ng Alder	Medium	5 - 10 feet	5 - 10 feet	Cedar looks to be decent quality. There is a drain in the west end of the			
Northern White Cedar 72		Paper Birch	2	Seedling	8		Ва	lsam Fir	Medium	Variable	Variable	stand that flows west. There may be more.			
Tamarack 15 9 3 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 others. Pole sized balsam fir exist throughout the stand. A strip of low others. Pole sized balsam fir exist throughout the stand. A strip of low others. Pole sized balsam fir exist throughout the stand. A strip of low others. Pole sized balsam fir exist throughout the stand. A strip of low others. Pole sized balsam fir exist throughout the stand. A strip of low others. Pole sized balsam fir exist throughout the stand. A strip of low others. Pole sized balsam fir exist throughout the stand. A strip of low others. Pole sized balsam fir exist throughout the stand. A strip of low others. Pole sized balsam fir exist throughout the stand. A strip of low others. Pole sized balsam fir exist throughout the stand. A strip of low others. Pole sized balsam fir exist throughout the stand. A strip of low others. Pole sized balsam fir exist throughout the stand. A strip of low others. Pole sized balsam fir exist throughout the stand. A strip of low others. Pole sized balsam fir exist throughout the stand. A strip of low others. Pole sized balsam fir exist throughout the stand. A strip of low others. Pole sized balsam fir exist throughout the stand. A strip of low others. Pole sized balsam fir exist throughout the stand. A strip of low others. Pole sized balsam fir exist throughout the stand. A strip of low others. Pole sized balsam fir exist throughout the stand. A strip of low others. Pole size data. A strip of low others. Pole size data. A strip of lower strip than the stand in the stand but in some areas are poorer quality than others. Pole size data. A strip of lower strip throughout the stand. A strip of lower strip throughout		White Spruce	3		14		Northerr	White Cedar	Low	>20 feet	>20 feet				
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 tamarrack and black spruce. Black Spruce 2 Log 2 Balsam Fir 20 Sapling 5 Balsam Fir 20 Sapling 6 39 Sub-Canopy Species Balsam Poplar 20 Sapling 6 39 Sub-Canopy Species Balsam Poplar 20 Sapling 6 39 Balsam Fir 20 Sapling 6 Sapling 6 39 Balsam Fir 20 Sapling 6 39 Balsam Fir 20 Sapling 6 Sapling	No	orthern White Cedar	72		12	144	Blac	k Spruce	Low	Variable	Variable				
Canopy Species % Cover Size Class DBH Age Quaking Aspen 76 Pole 4 27 Black Spruce 2 Log 2 Balsam Fir 20 Sapling 5 Tamarack 2 Log 3 3 Poletimber Well 89.9 39 51-80 Canopy Species % Cover Size Class DBH Age Quaking Aspen 80 Seedling 7 39 Canopy Species % Cover Size Class DBH Age Balsam Fir Low 5 - 10 feet 5 - 10 fee		Tamarack	15		9							_			
Canopy Species % Cover Size Class DBH Age Quaking Aspen 76 Pole 4 27 Black Spruce 2 Log 2 Balsam Fir 20 Sapling 5 Tamarack 2 Log 3 9 4130 - Aspen Poletimber Well 89.9 39 51-80 N/A Canopy Species % Cover Size Class DBH Age Quaking Aspen 80 Seedling 7 39 Balsam Fir Low 5 - 10 feet 5 - 10 feet 5 - 10 feet Scattered oak, red pine, and white pine in the stand. 10 4130 - Aspen Sapling Well Canopy Species % Cover Size Class DBH Age Balsam Fir 5 Log 3 Quaking Aspen 95 Log 1 9 Quaking Aspen 95 Log 1 9 Poletimber Well 64.4 37 51-80 N/A Stand was cut in '86. Ts#18-87-01. Three grass openings were cerestration of the seale (stands #407.41 Stand was cut in '86. Ts# 10-4-79. Sale filed in Cmpt 241. Stand consists of healthy quaking aspen. Some wet areas exist that contain more balsam methy thin the understory. There are a few the 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 regener to a spen proper to species back into the stand but in some areas is sparse. Regeneration is proper to the span of the seale (stands #407.41 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 to a spen proper to the seale (stands #407.41 Stand was cut in '88. Ts#18-87-01. Three grass openings were created back into the stand but in some areas is sparse. Regeneration is proper where heavy fir existed. Do a regeneration of the seale (stands #407.41 Stand was cut in '88. Ts#18-87-01. Three grass openings were created back into the stand but in some areas is sparse. Regeneration is proper where the sail of the scale (stands #407.41 Stand was cut in '88. Ts#18-87-01. Three grass openings were created back into the scale (stands #407.41 Stand was cut in '88. Ts#18-87-01. Three grass openings were created back into the scale (stands #407.41)	8	4134 - Aspe	en, Spruce/l	Fir	Sapling	Well	36.8	27	Immature	N/A	1	, , , , , , , , , , , , , , , , , , , ,			
Quaking Aspen 76 Pole 4 27 Black Spruce 2 Log 2 Balsam Fir 20 Sapling 5 Tamarack 2 Log 3 Poletimber Well 89.9 39 51-80 N/A Canopy Species 6 Cover Size Class DBH Age Quaking Aspen 80 Seedling 7 39 Balsam Fir Low 5 - 10 feet 5 - 10 fe		Canopy Species	% Cover	Size Class	DBH	Age	Sub-Ca	nopy Species	Density	Avg. Height	Size				
Balsam Fir 20 Sapling 5 Tamarack 2 Log 3 Poletimber Well 89.9 39 51-80 Avg. Height Size Ganopy Species % Cover Size Class DBH Age Quaking Aspen 80 Seedling 7 39 Avg. Height Size Tag Alder Low 5 - 10 feet		Quaking Aspen	76	Pole	4	27	Quak	ing Aspen	Medium	Variable	Variable	nicely with tamarack and black spruce.			
Tamarack 2 Log 3 Poletimber Well 89.9 39 51-80 N/A Canopy Species % Cover Size Class DBH Age Balsam Poplar 20 Sapling 6 39 Balsam Fir Low 5 - 10 feet 5 - 10 fee		Black Spruce	2	Log	2		Ва	lsam Fir	Medium	Variable	Variable	OI Notes: Stand was commercially cut in summer of 1998 by Minerick			
Tamarack 2 Log 3 shortwood skidding to protect advance conifer regeneration. 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 proplar, tag alder, smaller diameter trees and a heavier component of balsam fir within the understory. There are some large Quaking Aspen 80 Seedling 7 39 Balsam Fir Low 5 - 10 feet 5 - 10 feet scattered oak, red pine, and white pine in the stand. 10 4130 - Aspen Sapling Well 51.0 9 N/A 2024 - stand has regenerated to aspen pretty well. There are a few to spot 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 regener back into the stand but in some areas is sparse. Regeneration is port where heavy fir existed. Do a regeneration survey during the next inventory cycle to see dadequate. 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 to the stand but in some areas is sparse. Regeneration is possible to the stand but in some areas is sparse. Regeneration is possible to the stand but in some areas is sparse. Regeneration is possible to the stand but in some areas is sparse. Regeneration is possible to the stand but in some areas is sparse. Regeneration is possible to the stand but in some areas is sparse. Regeneration is possible to the stand but in some areas is sparse. Regeneration is possible to the stand but in some areas is sparse. Regeneration is possible to the stand but in some areas is sparse. Regeneration is possible to the stand but in some areas is sparse. Regeneration is possible to the stand but in some areas is sparse. Regeneration is possible to the stand but in some areas is sparse. Regeneration is possible to the stand but in some areas is sparse. Regeneration is possible to the stand but in some areas is spa		Balsam Fir	20	Sapling	5										
Canopy Species % Cover Size Class DBH Age Balsam Poplar 20 Sapling 6 39 Quaking Aspen 80 Seedling 7 39 Sub-Canopy Species Density Avg. Height Size Low 5 - 10 feet 5 - 10 fe		Tamarack	2	Log	3										
Canopy Species % Cover Size Class DBH Age Balsam Poplar 20 Sapling 6 39 Quaking Aspen 80 Seedling 7 39 Tag Alder Low 5 - 10 feet 5 - 10 f	9	4130	- Aspen		Poletimb	er Well	89.9	39	51-80	N/A					
Balsam Poplar 20 Sapling 6 39 Tag Alder Low 5 - 10 feet 5 - 10 feet component of balsam fir within the understory. There are some large scattered oak, red pine, and white pine in the stand. 10 4130 - Aspen Sapling Well Canopy Species % Cover Size Class DBH Age Balsam Fir 5 Log 3 Quaking Aspen 95 Log 1 9 Quaking Aspen 95 Log 1 9 Poletimber Well 64.4 37 51-80 N/A Stand was cut in '88. TS #18-87-01. Three grass openings were created to specify mere the sale (stands #407_41).		Canopy Species	% Cover	Size Class	DBH	Age	Sub-Ca	nopy Species	Density	Avg. Height	Size				
10 4130 - Aspen Sapling Well 51.0 9 N/A 2024 - stand has regenerated to aspen pretty well. There are a few to 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 regener back into the stand but in some areas is sparse. Regeneration is post where heavy fir existed. Do a regeneration survey during the next inventory cycle to see if regen is adequate. 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 to aspen pretty well. There are a few to 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 regener back into the stand but in some areas is sparse. Regeneration is post where heavy fir existed. Do a regeneration survey during the next inventory cycle to see if regen is adequate.		Balsam Poplar	20	Sapling	6	39	Ta	ng Alder	Low	5 - 10 feet	5 - 10 feet	component of balsam fir within the understory. There are some large			
Canopy Species % Cover Size Class DBH Age Balsam Fir 5 Log 3 Quaking Aspen 95 Log 1 9 Quaking Aspen Poletimber Well 64.4 37 51-80 At 130 - 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, 41).		Quaking Aspen	80	Seedling	7	39	Ва	lsam Fir	Low	5 - 10 feet	5 - 10 feet	scattered oak, red pine, and white pine in the stand.			
Canopy Species % Cover Size Class DBH Age Balsam Fir 5 Log 3 Quaking Aspen 95 Log 1 9 Quaking Aspen Poletimber Well 64.4 37 51-80 M/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, 41).	10	4130	- Aspen		Sapling	Well	51.0	9		N/A	1	2024 - stand has regenerated to aspen pretty well. There are a few thin			
Balsam Fir 5 Log 3 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. 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, 41).		Canopy Species	% Cover	Size Class	DBH	Age									
inventory cycle to see if regen is adequate. 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, 41).		Balsam Fir	5	Log	3							back into the stand but in some areas is sparse. Regeneration is poor			
by Wildlife Division following completion of the sale (stands #407, 41		Quaking Aspen	95	Log	1	9									
	11	4130	- Aspen		Poletimb	er Well	64.4	37	51-80	N/A		Stand was cut in '88. TS #18-87-01. Three grass openings were created			
Canopy Species % Cover Size Class DBH Age Sub-Canopy Species Density Avg. Height Size 411.). Stand of aspen that appears to be a bit "off-site" with a little		Canopy Species	% Cover	Size Class	DBH	Age	Sub-Ca	nopy Species	Density	Avg. Height	Size				
Quaking Aspen 90 Seedling 7 37 White Spruce Low Variable Variable dieback present along with hypoxylon. Pockets of balsam fir exist wit		Quaking Aspen	90	Seedling	7	37	Whi	te Spruce	Low	Variable	Variable	dieback present along with hypoxylon. Pockets of balsam fir exist within			
Balsam Fir 7 Seedling 6 Hazelnut (Spp.) High 5 - 10 feet 5 - 10 feet the understory and overstory. Continue to monitor stand health during		Balsam Fir	7	Seedling	6		Haze	Inut (Spp.)	High	5 - 10 feet	5 - 10 feet	the understory and overstory. Continue to monitor stand health during			
White Spruce 3 Seedling 8 Quaking Aspen Low Variable variable some small pole size spruce and fir mixed in The opening is are stall some small pole size spruce and fir mixed in The opening is are stall some small pole size spruce and fir mixed in The opening is are stall some small pole size spruce and fir mixed in The opening is are stall some small pole size spruce and fir mixed in The opening is are stall some small pole size spruce and fir mixed in The opening is are stall some small pole size spruce and fir mixed in The opening is are stall some small pole size spruce and fir mixed in The opening is are stall some small pole size spruce and fir mixed in The opening is are stall some small pole size spruce and fir mixed in The opening is are stall some small specific some small specific sp		White Spruce	3	Seedling	8		Quak	king Aspen	Low	Variable	Variable	niventory. 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			
Balsam Fir Medium Variable Variable to fill in and could be cleared when harvested next.			-		,		Ва	lsam Fir	Medium	Variable	Variable				



Stand	Level 4 C	over Type		Size Density	Acres	Stand Age	BA Range	Managed Si	te	General Comments
12	613 - Lowlan	d Mixed Fo	rest	Unspecifed	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
	Canopy Species	% Cover	Size Class	DBH Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	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
	Bigtooth Aspen	3	Seedling	8	Ва	alsam Fir	Medium	Variable	Variable	end but very minimal. Consider harvesting in the next YOE.
	Quaking Aspen	97	Sapling	7 49	Haze	elnut (Spp.)	Medium	5 - 10 feet	5 - 10 feet	
15	6229 - Mixed	Lowland St	hrub	None	82.0			No		Stand is a riprian buffer or corridor along the Flat Rock Creek. Scattered
					Sub-Ca	nopy Species	Density	Avg. Height	Size	trees in some areas.
						ag Alder	Medium	5 - 10 feet	5 - 10 feet	
16	6220 - A	lder/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
	Canopy Species	% Cover	Size Class	DBH Age						damage. Many different aged balsam within the stand. Stand should be coded as long term retention.
	White Spruce	25		11						coded as long term retention.
	Balsam Fir	75		8 40						
19	4211 - Plar	nted Red Pir	ne	Unspecifed	3.0	3	Immature			2024 - planted red pine trees are about 1foot tall.Stand harvested in
					Sub-Ca	nopy Species	Density	Avg. Height	Size	the winter of 2021 under sale number 116-16 Camp Hope combo. Holli Forest products cut sale in winter little soil disturbance noted during
					R	ed Pine	Full	< 5 feet	< 5 feet	harvest. Planted Spring 2023.
20	6122 - BI	ack Spruce		Sapling Well	7.9	40	1-50	N/A		Very wet ground with a mix of both merchantable and non-merchantable
	Canopy Species	% Cover	Size Class	DBH Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	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
	White Spruce	10		10	W	hite Pine	Low	Variable	Variable	couple patches of merchantable timber within it. I can discern a flowage
	Paper Birch	2		10		ag Alder	Full	5 - 10 feet	5 - 10 feet	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
	Quaking Aspen	10	Log	4		alsam Fir	High	Variable	Variable	adjacent compartment 20+ years ago. Consider harvesting a small area
	Black Spruce	58	Pole	4 40		amarack	Low	Variable	Variable	of the West side of this stand if the adjacent stand get's prescribed in
	Balsam Poplar	10	Sapling	6	Bla	ck Spruce	High	Variable	Variable	the future.
	Balsam Fir	10	Sapling	5						



Stand	Level 4 C	Level 4 Cover Type Size Density Acres Stand Age BA Range Managed Site		General Comments							
21	4130	- Aspen		Sapling	g Well	26.5	16	Immature	N/A	4	OPIC - FMD: Harvested in '09. TS #113-07. Stand consists of fully
	Canopy Species	% Cover	Size Class	DBH	I Age	Sub-Car	nopy Species	Density	Avg. Height	Size	stocked and healthy looking aspen.
	Balsam Fir	5		2		Bal	sam Fir	Low	< 5 feet	< 5 feet	
	Red Maple	5	Log	1		Red Osi	er Dogwood	Medium	5 - 10 feet	5 - 10 feet	
	Quaking Aspen	90	Log	1	16	Та	g Alder	Low	5 - 10 feet	5 - 10 feet	
		1		'	·	Whit	e Spruce	Low	< 5 feet	< 5 feet	
22	6120 - Lo	wland Ceda	ar Sa	awtimbe	r Mediur	n 6.8	129 l	Inspecified	N/A	4	2024 - poor cedar stand. Agree with previous comments. There is a
	Canopy Species	% Cover	Size Class	DBH	I Age	Sub-Car	nopy Species	Density	Avg. Height	Size	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.
No	rthern White Cedar	88		10	129	Та	g Alder	Full	5 - 10 feet	5 - 10 feet	Most of the cedar is "cow-horn". Tops are dying out. A small rock knob
	Tamarack	4		11	129	Will	ow spp.	Low	Variable	Variable	exists in the SW corner of the stand.
	Balsam Fir	3		6		Bal	sam Fir	Medium	Variable	Variable	
	Paper Birch	5	Seedling	8							1
23	612 - Lowland	Coniferous	Forest	Unspe	cifed	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	ı	Poletimb	er Well	7.0	39	51-80	N/A	4	Stand was cut between '83-'86. TS# 10-83-01. Nice quality stand of
	Canopy Species	% Cover	Size Class	DBH	I Age	Sub-Car	nopy Species	Density	Avg. Height	Size	aspen. Looks healthy.
	Quaking Aspen	92		7	39	Blac	k Spruce	Low	Variable	Variable	
	Balsam Fir	8	Seedling	6		Bal	sam Fir	Low	Variable	Variable	
25	6120 - Lo	wland Ceda	ar I	Poletimb	er Well	16.3	97	1-50	N/A	4	Lowland stand that surrounds what is locally known as Scarffe's Creek
	Canopy Species	% Cover	Size Class	DBH	I Age	Sub-Car	nopy Species	Density	Avg. Height	Size	(according to OI notes). Easternmost part of stand contains drainages that head north to south. Do not cut due to stream corridor and BMP
	Paper Birch	5	Seedling	8		Blac	k Spruce	Low	Variable	Variable	issues.
	Black Spruce	30	Seedling	9	97	Bal	sam Fir	Low	Variable	Variable	
No	rthern White Cedar	60		11	97	Та	g Alder	Low	5 - 10 feet	5 - 10 feet	
	Tamarack	5		12				1			-
26	6124 - Lowl	and Spruce	-Fir I	Poletimb	er Well	22.5	65 L	Jnspecified	N/A	4	Very wet stand with numerous seeps and flowages within it would make
	Canopy Species	% Cover	Size Class	DBH	I Age	Sub-Car	nopy Species	Density	Avg. Height	Size	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.
	Paper Birch	5		8		Ta	g Alder	Full	5 - 10 feet	5 - 10 feet	Heavy tag alder and balsam fir within the understory. Balm and paper
No	rthern White Cedar	5		7		Bal	sam Fir	High	Variable	Variable	birch are scattered throughout the stand. Patches of fully stocked,
	Balsam Poplar	5	Sapling	7		Blac	k Spruce	Medium	Variable	Variable	merchantable timber are scattered. Budworm damage is extensive on the balsam and white spruce.
	Balsam Fir	10	Seedling	8				1		•	and salean and write opiaco.
	Black Spruce	35	Sapling	7	65						
	Tamarack	19	Seedling	8							
	Quaking Aspen	16		10							
	White Spruce	5		14							

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Stand	Level 4 Co	over Type		Size De	nsity	Acres	Stand Age	BA Range	Managed S	Site	General Comments			
27		4 - Aspen, Spruce/Fir Poletimber Poor 2.7 40 1-50 N/A		4	Rocky stand. Was previously unforested but is dense enough to be a forested stand now. Mixed ot aspen, red maple, and fir mostly with									
	Canopy Species				Age						some others.			
	Red Maple	15	Seedling	6										
	Red Oak	5	Seedling	7	40									
	Balsam Fir	35	Seedling	7	40									
	White Spruce	5	Seedling	8	40									
	Quaking Aspen	40	Seedling	8	40									
28	330 - Low-I	Density Tre	es	Nor	ie	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	d Balsam P	oplar	Poletimbe	er Poor	18.0	97	Unspecified	N/A	4	2024 - very poor quality stand. Not much merchantable timber. Heavy			
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Ca	nopy Specie	s Density	Avg. Height	Size	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			
	White Spruce	20		12		Ta	g Alder	Full	5 - 10 feet	5 - 10 feet	t-sale prep. due to wet ground and low volume. Stand consists of			
	Paper Birch	10	Seedling	8		Whi	te Spruce	Medium	Variable	Variable	lowland deciduous and conifer. Stand is very poor quality. Some areas			
	Quaking Aspen	30		8		Balsa	am Poplar	Medium	Variable	Variable	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.			
	Balsam Poplar	40	Seedling	8	97	Ва	lsam Fir	High	Variable	Variable				
30	4130	- Aspen		Poletimb	er Well	21.8	31	1-50	N/A	4	Harvested in 1993-94. TS# 4-90-01. Nice stand of big tooth and quakin			
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Ca	nopy Specie	s Density	Avg. Height	Size	aspen. Stand slopes down to wetland edge. Large red oak scattered throughout the stand. A few red oak sapling exist within the understory.			
	Balsam Fir	4	Sapling	6		Haze	Inut (Spp.)	Low	5 - 10 feet	5 - 10 feet	a mongroup and on the months of the months o			
	Quaking Aspen	30	Sapling	6	31	Ва	lsam Fir	Low	Variable	Variable				
	Red Maple	5	Log	3		R	ed Oak	Low	5 - 10 feet	5 - 10 feet				
	Bigtooth Aspen	55	Sapling	6	31	Whi	te Spruce	Low	Variable	Variable				
	Red Oak	6		18										
31	4130	- Aspen		Sawtimb	er Well	3.5	93	51-80	N/A	4	Small island of over mature aspen within a black spruce swamp. Stand			
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Ca	nopy Specie	s Density	Avg. Height	Size	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			
	Bigtooth Aspen	15		18		Ва	lsam Fir	Full	>20 feet	>20 feet	spruce.			
	Paper Birch	20		10							_			
	White Spruce	5		12										
	Balsam Fir	10		10										
	Quaking Aspen	50		14	93									
32	4130	- Aspen		Poletimb	er Well	17.7	36	1-50	N/A	4	Stand of decent quality aspen with pockets of conifer throughout.			
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Ca	nopy Specie	s Density	Avg. Height	Size	OI Notes: Stand was commercially cut in 1989 by Minerick Logging, Inc			
	Quaking Aspen	95	Sapling	7	36	Ва	lsam Fir	Medium	5 - 10 feet	5 - 10 feet	permit #008-87-01, "Camp Hope Road Block". Note that a permanent			
	Balsam Fir	5	Seedling	8		Blac	k Spruce	Low	5 - 10 feet	5 - 10 feet	corrugated galvinized metal 36 inch diameter by 20 foot long culvert wa			
						Quak	ing Aspen	Low	10 - 20 feet	10 - 20 feet	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	l Level 4 C	over Type		Size Der	Size Density Acres Stand Age BA Range Managed Site		ite	General Comments			
33	42340 - Upl	pland 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
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	wetland edge. Stand consists of older aspen with pockets of younger balsam fir. Scattered white spruce and a patch of cedar exists to the
No	orthern White Cedar	2		14		Haze	lnut (Spp.)	Medium	5 - 10 feet	5 - 10 feet	north. Balsam and white spruce has been hit hard by budworm.
	Balsam Poplar	15		10		Ta	ag Alder	Low	5 - 10 feet	5 - 10 feet	
	Quaking Aspen	20		12	75	Ва	lsam Fir	Medium	Variable	Variable	
	White Spruce	15		12							-
	Balsam Fir	48	Seedling	8	40						
34	4191 - Mixed Upl Co	and Deciduo onifer	ous with	Poletimbe	er 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
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	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
	White Spruce	16		14		Ва	lsam Fir	Full	10 - 20 feet	10 - 20 feet	the middle of the stand. Large boulders in parts of the stand. A few large
	Red Maple	20	Seedling	8		Ta	ag Alder	Low	5 - 10 feet	5 - 10 feet	white and red pine along the stream edge. Do not harvest. Maintain as a
	Quaking Aspen	20		14		Balsam Poplar		Low	Variable	Variable	buffer along stream edge.
	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.
	Canopy Species	% Cover	Size Class	DBH	Age						2024 - stand has regenerated well fully stocked aspen with spruce and
	Red Maple	3	Log	2	9						fir mixed in.
	White Spruce	2	Log	2							
	Balsam Fir	10	Log	2	9						
	Quaking Aspen	85	Log	3	9						
39	330 - Low-	Density Tree	es	Non	е	1.5			No		OPIC - FMD: Located in the SESW of Sec 29. OI Stand Year Origin was
41	42340 - Upl	and Spruce	/Fir	Sapling M	ledium	3.6	27	Immature	N/A	1	2024 - stand is filling in with mostly fir. Thick in spots and sparse in
	Canopy Species	% Cover	Size Class	DBH	Age						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
	Black Spruce	55		3	27						in with balsam fir and black spruce. The lowland part of the stand is fully
	Quaking Aspen	15	Pole	4							stocked. Upland part is poorly stocked but should fill in within the next 10
	Balsam Fir	30		3	27						years.

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Stand	Level 4 C	Level 4 Cover Type Size Density Acres Stand Age BA Range Managed Site		te	General Comments					
42	42 6117 - Lowland Deciduou Coniferous		Mixed	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
	Canopy Species	% Cover	Size Class	DBH Age	Sub-Canopy Species		Density	Avg. Height	Size	very low volume and is very wet, do not manage.
	Balsam Fir	10	Sapling	6 35	Wh	ite Spruce	Low	Variable	Variable	
	Black Ash	20	Sapling	6 70	T	ag Alder	High	5 - 10 feet	5 - 10 feet	
	Black Spruce	10	Seedling	8	Ва	alsam Fir	Medium	Variable	Variable	
	Quaking Aspen	5		10	В	ack Ash	Medium	Variable	Variable	
	Balsam Poplar	20	Seedling	8 70	Bals	am Poplar	Medium	Variable	Variable	
	Paper Birch	15	Sapling	7						1
No	rthern White Cedar	5		12						
	White Spruce	15	Seedling	8						
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.
	Canopy Species	% Cover	Size Class	DBH Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	Stand is in good condition.
	Quaking Aspen	100	Seedling	7 37	Wh	ite Spruce	Low	Variable	Variable	
					Ва	alsam Fir	Low	Variable	Variable	
44	Deciduous						nspecified	N/A		2024 - agree with prvios 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.
	Canopy Species % Cover					nopy Species	Density	Avg. Height	Size	Black spruce and tamarack are of small diameter. Balm and white
	Tamarack	20	Seedling	8		ag Alder	Full	5 - 10 feet	5 - 10 feet	spruce are in tough shape. Budworm damage on the spruce and
	Balsam Poplar	10		12		ck Spruce	Low	Variable	Variable	balsam. Do not manage this stand.
	Balsam Fir	5	Seedling	8 40	Ва	alsam Fir	Medium	Variable	Variable	
No	rthern White Cedar	20		10						
	White Spruce	5		13						
	Black Spruce	30	Sapling	7 97						
46	6229 - Mixed	Lowland S	hrub	None	9.0			No		2024 - Lowland stand with a high water table. Most merchantable trees
	Canopy Species	% Cover	Size Class	DBH Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	are dying or dead. Merchantable timber scattered throughout the stand
	White Spruce	15		10		am Poplar	Medium	Variable	Variable	but not much volume. Majority of the stand consists of regeneration is tag alder and other shrubs.
	Paper Birch	5	Log	4		alsam Fir	High	Variable	Variable	
No	rthern White Cedar	15		11 129		ag Alder	Full	5 - 10 feet	5 - 10 feet	
	Balsam Poplar	45	Seedling	8 70		sier Dogwood	Low	5 - 10 feet	5 - 10 feet	
	Balsam Fir	20	Seedling	9				I		1
48	48 6229 - Mixed Lowland Shrub No.			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	49 6229 - Mixed Lowland Shrub No			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.

Stand	Level 4 Co	over Type		Size Density	Acres	Stand Age	BA Range	Managed S	iite	General Comments	
50	4134 - Aspen, Spruce/Fir			Poletimber Well	12.0	60 l	Unspecified	N/A	A	Stand is currently under contract. TS# 32-009-23 Fraidy Frog Aspen ar	
	Canopy Species	% Cover	Size Class	DBH Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	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	25	Sapling	5	Ва	lsam Fir	Full	>20 feet	>20 feet	balsam fir within the understory. Stand consists of poorly stocked aspen	
No	rthern White Cedar	2	Seedling	7						with a very heavy component of small diameter balsam fir within the	
	Quaking Aspen	73	Seedling	8 60						understory. Prescribe this stand for harvest when the adjacent stand to the East get's harvested in the adjacent compartment.	
51	6111 - Lowlan	d Balsam P	oplar	Sapling Well	11.5	39 l	Unspecified	N/A	١	Was cut in '86. TS #004-79-01, Sale filed in Cmpt 241. Stand consists	
	Canopy Species	% Cover	Size Class	DBH Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	of low ground bam and aspen of decent quality. High stems per acre. Pockets of tag alder exist here and there.	
	Balsam Poplar	65		6 39	Ta	ag Alder	Low	5 - 10 feet	5 - 10 feet	1 ockets of tag alder exist here and there.	
	Quaking Aspen	35		6	Whi	te Spruce	Low	Variable	Variable		
					Ва	ılsam Fir	Medium	5 - 10 feet	5 - 10 feet		
					Qual	king Aspen	Medium	10 - 20 feet	10 - 20 feet		
					Haze	elnut (Spp.)	Low	5 - 10 feet	5 - 10 feet		
					Bals	am Poplar	Medium	10 - 20 feet	10 - 20 feet		
					Red Os	sier Dogwood	Low	5 - 10 feet	5 - 10 feet		
52	6139 - Mixed	Lowland Fo	orest	Poletimber Well	8.3	80 l	Unspecified	N/A	۸	Riprarian corridor that was left as a buffer during the last timber sale	
	Canopy Species	% Cover	Size Class	DBH Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	harvest. Wet ground and a mix of lowland species with tag alder understory. Ash is dying out.	
	Paper Birch	15		8 80	Ва	ılsam Fir	Medium	5 - 10 feet	5 - 10 feet		
	Balsam Fir	15		6	Ta	ag Alder	Medium	5 - 10 feet	5 - 10 feet		
	Balsam Poplar	20		8						_	
	Black Ash	10		6							
No	rthern White Cedar	15		11							
	Black Spruce	25		7 80							
53	4130	- Aspen		Sapling Well	6.8	16	Immature	N/A	١	Cut in '09. TS# 113-07. Stand consists of good quality aspen	
	Canopy Species	% Cover	Size Class	DBH Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	regeneration. Fully stocked stand. A few scattered balsam fir exist.	
	Balsam Fir	2	Log	4	Qual	king Aspen	Medium	Variable	Variable		
	Quaking Aspen	98		2 16			- '		1	_	
54 6122 - Black Spruce Pol		Poletimber Well	8.0	82 l	Unspecified	N/A	١	Buffer strip left along the stream edge after last harvest occurred. Stand			
	Canopy Species	% Cover	Size Class	DBH Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	of mature balsam and black spruce with scattered paper birch. Paper birch is declining. Heavy budworm damage on balsam. Consider	
	Black Spruce	85		10 82	Ta	ag Alder	Low	5 - 10 feet	5 - 10 feet	treating with stand 11.	
	Paper Birch	5		10	Ва	ılsam Fir	Medium	Variable	Variable		
	Balsam Fir	10	Seedling	8						_	



Stand	I Level 4 C	over Type		Size De	nsity	Acres Stand Age	BA Range	Managed S	ite	General Comments
55	6130 - Fir,	Aspen, Ma _l	ole Po	oletimbe	Mediur	m 6.7 37	Unspecified	N/A	Λ.	Stand was cut in '88, the same time as stand 11 to the north. This stand
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Spec	ies Density	Avg. Height	Size	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
	Quaking Aspen	38	Pole	4	37	Balsam Fir	Low	Variable	Variable	exist.
	White Spruce	10	Log	3		Tag Alder	Medium	5 - 10 feet	5 - 10 feet	
	Balsam Poplar	10	Log	3		Red Osier Dogwoo	od Low	5 - 10 feet	5 - 10 feet	
	Tamarack	2	Log	3						
	Balsam Fir	25	Sapling	5						
	Black Spruce	15		6						
56	6120 - Lo	wland Ceda	ar :	Sawtimb	er Well	4.4 133	111-140	N/A	\	Island of cedar of poorer quality. A fair amount of cow-horned cedar and
	Canopy Species	% Cover	Size Class	ass DBH Age		Sub-Canopy Spec	ies Density	Avg. Height	Size	short trees. Wet areas exist within the stand. Wet areas are heavy to tage alder. Flowages exist within the stand but are hard to discern through the
No	orthern White Cedar	100		14	133	Balsam Fir	Low		Variable	snow.
				'		Tag Alder	Medium	5 - 10 feet	5 - 10 feet	
57	42320 - U	pland Sprud	ce I	Poletimb	er Well	12.3 101	Unspecified	N/A	\	Stand of older timber that was left as a buffer along the stream edge.
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Spec	ies Density	Avg. Height	Size	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.
	White Spruce	15		14		Black Spruce	Medium	Variable	Variable	Timber is in fairly good condition.
	White Pine 5 18 Balsam Poplar 2 Seedling 8		18		Jack Pine	Low	Variable	Variable		
				Balsam Fir	Medium	Medium Variable V	Variable	able		
No	orthern White Cedar	5		14			·			_
	Black Spruce	65	Seedling	9	101					
	Paper Birch	8	Seedling	8						
59	6124 - Lowl	and Spruce	-Fir Po	oletimbe	Mediur	n 30.1 96	Unspecified	N/A	\	Thin strip of conifer along the stream which acts as a buffer. Mostly
	Canopy Species	% Cover	Size Class	DBF	Age	Sub-Canopy Spec	ies Density	Avg. Height	Size	lowland species but some upland species along south edge. Some large pine and aspen along the edge. Stand contains mixed ages and
	Paper Birch	4	Seedling	8		White Spruce	Low	Variable	Variable	densities on the spruce and balsam. Stand took a hit from spruce
	Balsam Fir	37	Seedling	8	96	Balsam Fir	High	Variable	Variable	budworm. Do not manage. Keep as a buffer.
	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						_
No	orthern White Cedar	3	Seedling	8						
	Quaking Aspen	3		12						
	Black Spruce	37	Seedling	8	96					
63	622 - Lov	vland Shruk)	Noi	ne	11.7		No		A former grass opening that is filling in tag alder and some scattered trees.
64	4134 - Asp	spen, Spruce/Fir		Sapling Well		4.9 16	Immature	N/A	\	Stand was cut in 2009. TS #32-113-07-01. Stand is regenerating back
	Canopy Species	% Cover Size Clas		Class DBH Age		Sub-Canopy Spec	ies Density	Avg. Height	Size	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
	Black Spruce	15	Log	1		Tag Alder	Medium	5 - 10 feet	5 - 10 feet	conditions.
	Quaking Aspen	75		2	16	Balsam Fir	Low	Variable	Variable	
	Balsam Fir	10		2				+		<u>-</u>



Stand	nd Level 4 Cover Type			Size Density	Acres	Stand Age E	BA Range	Managed S	ite	General Comments
66	6128 - Lowland Coniferous, Mixed Deciduous		Poletimber Well	11.8	85 L	Inspecified	N/A	1	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	
	Canopy Species	% Cover	Size Class	DBH Age	Sub-Ca	nopy Species	Density Medium	Avg. Height	Size	Rock Creek. Black spruce is decent quality.
(Quaking Aspen	10		12	Ва	lsam Fir		Variable	Variable	
	Black Spruce	45	Seedling	9 85	Ta	ag Alder	Medium	5 - 10 feet	5 - 10 feet	
	Paper Birch	10	Seedling	8	Blad	ck Spruce	Low	Variable	Variable	
Nor	thern White Cedar	35		13 128						_
68	4134 - Aspe	en, Spruce/	Fir	Poletimber Well	86.1	35	1-50	N/A	١	Stand was cut in winter of '90-'91. TS# 009-87-01. Stand consists of
	Canopy Species	% Cover	Size Class	DBH Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	good quality aspen. Pockets of low ground exist throughout the stand.
	Balsam Poplar	20	Log	4	Hazelnut (Spp.)		Low	5 - 10 feet	5 - 10 feet	
	Balsam Fir	10	Sapling	6	Ta	ag Alder	Medium	5 - 10 feet	5 - 10 feet	
	Black Spruce	10	Log	4	Ba	ılsam Fir	High	Variable	Variable	
(Quaking Aspen	60	Sapling	5 35					1	_
69	6128 - Lowland Coniferous, Mixed Poletimb		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	
	Canopy Species	S % Cover Size Class		DBH Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	falling out. The west end of the stand is heavier to deciduous trees an the east end is more conifer. Intermittent drains in spots flowing north
	Balsam Fir			7	T	ag Alder	Medium	5 - 10 feet	5 - 10 feet	the wetland
	Black Spruce	30		7 70	Ва	Balsam Fir	Low	5 - 10 feet	5 - 10 feet	
	Tamarack	15	Seedling	8						_
	Paper Birch	7		12						
Nor	thern White Cedar	7	Seedling	8						
(Quaking Aspen	20		12 70						
	Red Maple	3		10						
72	72 6120 - Lowland Cedar F		Poletimber Well	4.2 84		Inspecified	N/A	١	Stand of pole sized cedar with scattered tamarack and black spruce. A	
	Canopy Species	% Cover	Size Class	DBH Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	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.
	Tamarack	10		10	Та	ag Alder	Medium	5 - 10 feet	5 - 10 feet	
	Black Spruce	40	Seedling	8	Northern	n White Cedar	Low	10 - 20 feet	10 - 20 feet	
Nor	thern White Cedar	50	Seedling	8 84						
73 4130 - Aspen Sapling M		Sapling Medium	6.1	9		N/A	\	Stand was harvested in the fall of 2016. TS# 108-16, Toivo's Cooksto		
	Canopy Species	% Cover	Size Class	DBH Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	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 re-
	Red Pine	3	Sapling	7	Blackbe	rry/Raspberry	Medium	< 5 feet	< 5 feet	maple.
	Red Maple	5	Log	1			'		*	-
	White Spruce	4	Pole	2						
	Balsam Fir	8	Log	2						
(Quaking Aspen	80	Log	1 9						
75 310 - Herbaceous Openland			None	2.2			No	ı	Small opening on the edge of Flat Rock Creek	



Stand	Level 4 Cover Type	Size Density	Acres Stand Age B.	A Range	Managed Si	ite	General Comments		
76	4130 - Aspen	Sapling Medium		mmature	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 oa		
	Canopy Species % Cover Size Class	s DBH Age	Sub-Canopy Species	Density	Avg. Height	Size	and a couple of clumps of 3-4" balsam that was left after the cut.		
	Balsam Poplar 28	2	Witch Hazel	Medium	5 - 10 feet	5 - 10 feet			
	Balsam Fir 2 Log	4	Balsam Fir	Low	< 5 feet	< 5 feet			
	Quaking Aspen 70	3 13	Quaking Aspen	Low	< 5 feet	< 5 feet			
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 commerciall timber sale #8-		
			Sub-Canopy Species	Density			87 was disked & seeded on 6/10/91, and east end was then		
			Wild Red Raspberry	Low	5 - 10 feet	5 - 10 feet	bermed.2024 - stand is still very open with some raspberry patches.		
402	310 - Herbaceous Openland	None	6.7		No		2024 - stand is still very open woth 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	Ol 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	Ol 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.