

Compartment Review Presentation

Gwinn Forest Management Unit

Compartment 32243 Entry Year 2026 Acreage: 1,185

County Marguette

Management Area: Suomi Till and Outwash Plain

Stand Examiner: Eric Brolin

Legal Description:

T45N-R29W. Sections 27 & 34.

Identified Planning Goals:

Maintain or increase the component of oak, birch and aspen within the compartment. Harvest older stands to encourage regeneration of both deciduous and coniferous species.

Soil and topography:

Topography ranges from level creek bottoms, swamp conifer, tag alder and bog or marshlands to rolling or only slightly hilly upland terrain.

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

This compartment is essentially surrounded by State land on all sides and borders Dickenson County on the south end. It does have some small parcels of non-industrial private ownership in the surrounding area. Development (other than the ELF communication system cleared right of way) is virtually nonexistent. A few seasonal dwelling/hunting camps occupy the private parcels. Production of forest products along with low key recreational activities such as hunting, trapping and snowmobiling make up the land uses here.

Unique Natural Features:

Hermit Lake and the Schwartz creek and tributaries.

Archeological, Historical, and Cultural Features:

No Archeological, Historical, or Cultural Features known.

Special Management Designations or Considerations:

None.

Watershed and Fisheries Considerations:

This compartment contains headwater reaches of Schwartz Creek. Schwartz Creek is a designated Type 1 trout stream less than 50-ft wide with a predicted mean July temperature of 59.2 °F (cold stream). A 300-foot buffer is recommended for Schwartz 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, buffer 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 under planting 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

Surface sediments consist of an end moraine of coarse-textured till and medium and coarse-textured tills. There is insufficient data to determine the glacial drift thickness. The Precambrian Archean Granite/Gneiss subcrops below the glacial drift. This rock could be used as dimension stone. A gravel pit is located two miles away, but potential should be good. The abandoned Republic iron mine is located ten miles to the north. Section 27 was previously leased and Section

34 is leased for metallic exploration. There is no economic oil and gas production in the UP.

Vehicle Access:

The Floodwood Road (county road FFO) provides primary access for most of the compartment from the South. The Porterfield Lake Road also provides access from the North. Various other two track roads provide access to the compartment interior though limited by pickup truck.

Survey Needs:

No survey needs for this year of entry.

Recreational Facilities and Opportunities:

The Porterfield Lake Motorcycle ORV trail provides recreational opportunity to ORV users. Other recreational activities include: fishing, hunting, biking, berry picking, bird watching and trapping.

Fire Protection:

This compartment is included within the "581 Zone Dispatch" area which provides for a pre-planned dispatch of specified fire equipment from within the Gwinn and Crystal Falls Management Units. This dispatch is dependent on the severity of forecast burning conditions for the specified day. Areas of jack pine and red pine cover types with the encroachment of recreational seasonal dwellings have warranted this pre-planning. Mutual aide agreements with local township volunteer fire departments also provide critical fire suppression response, especially in the area of structure fire and/or protection, and evacuations.

Additional Compartment Information:

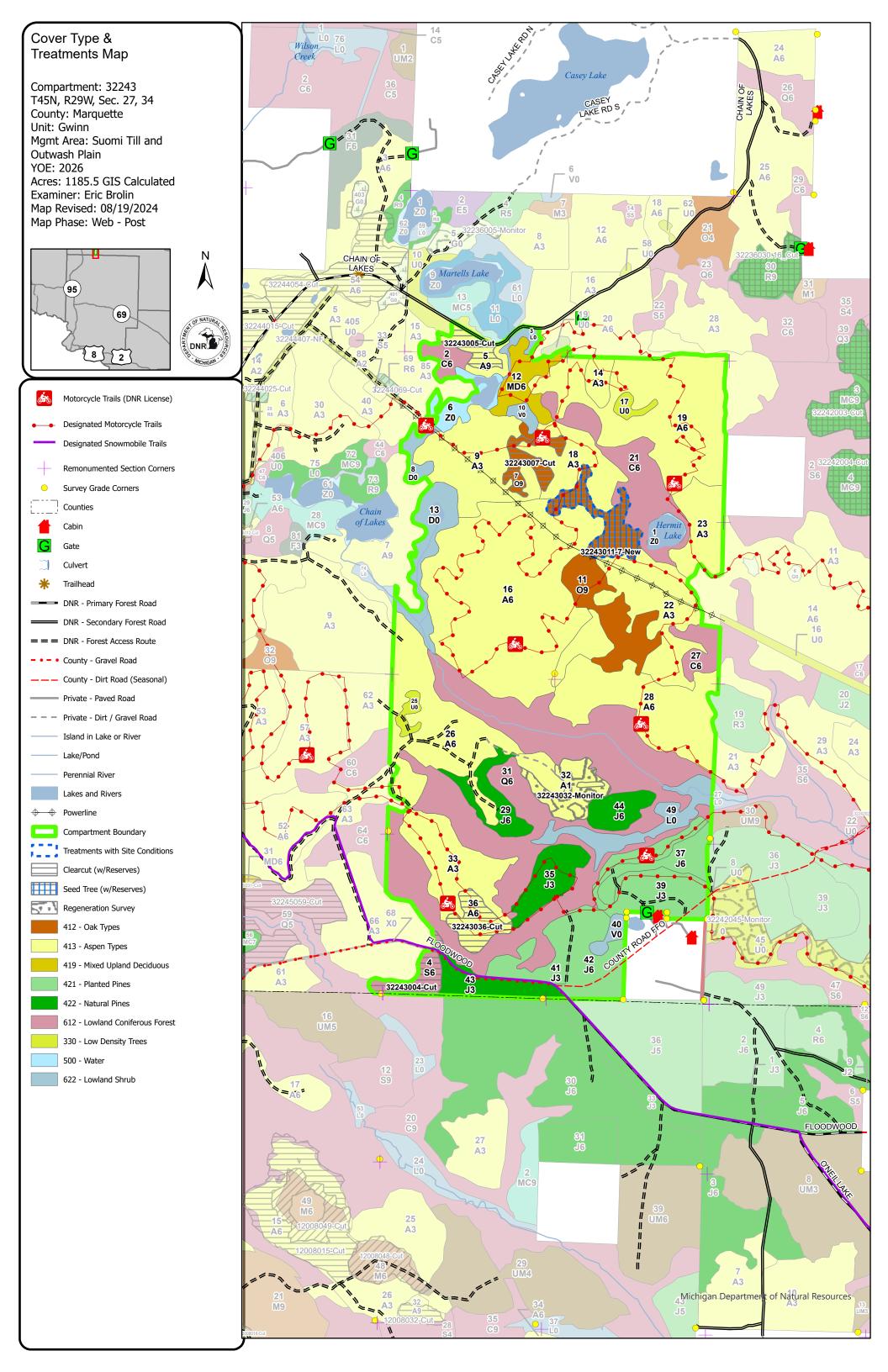
The following reports from the Inventory are attached:

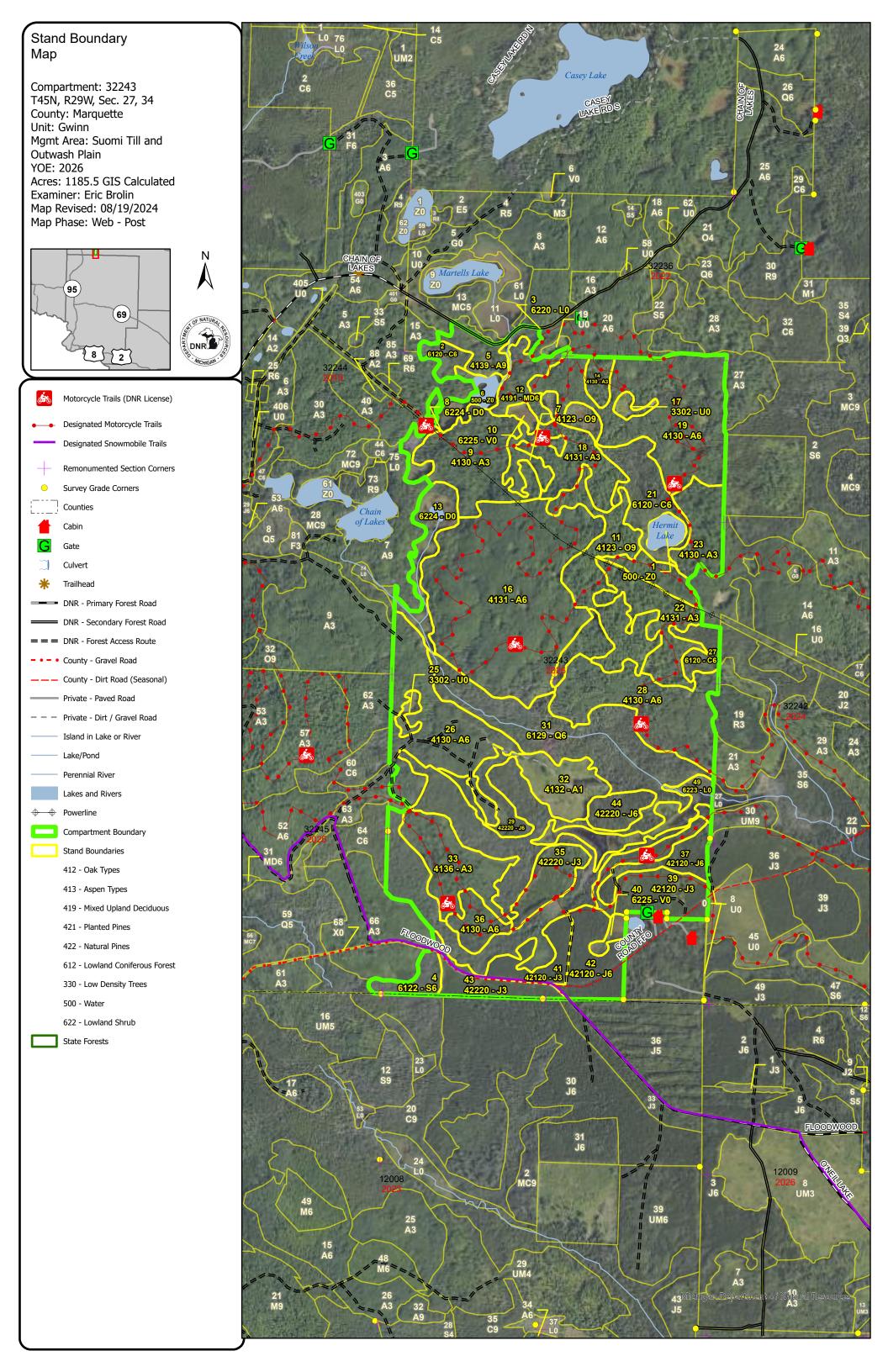
Total Acres by Cover Type and Age Class
Cover Type by Harvest Method
Proposed Treatments – No Limiting Factors
Proposed Treatments – With Limiting Factors
Stand Details (Forested and Nonforested)
Dedicated and Proposed Special Conservation Areas
Site Condition Details

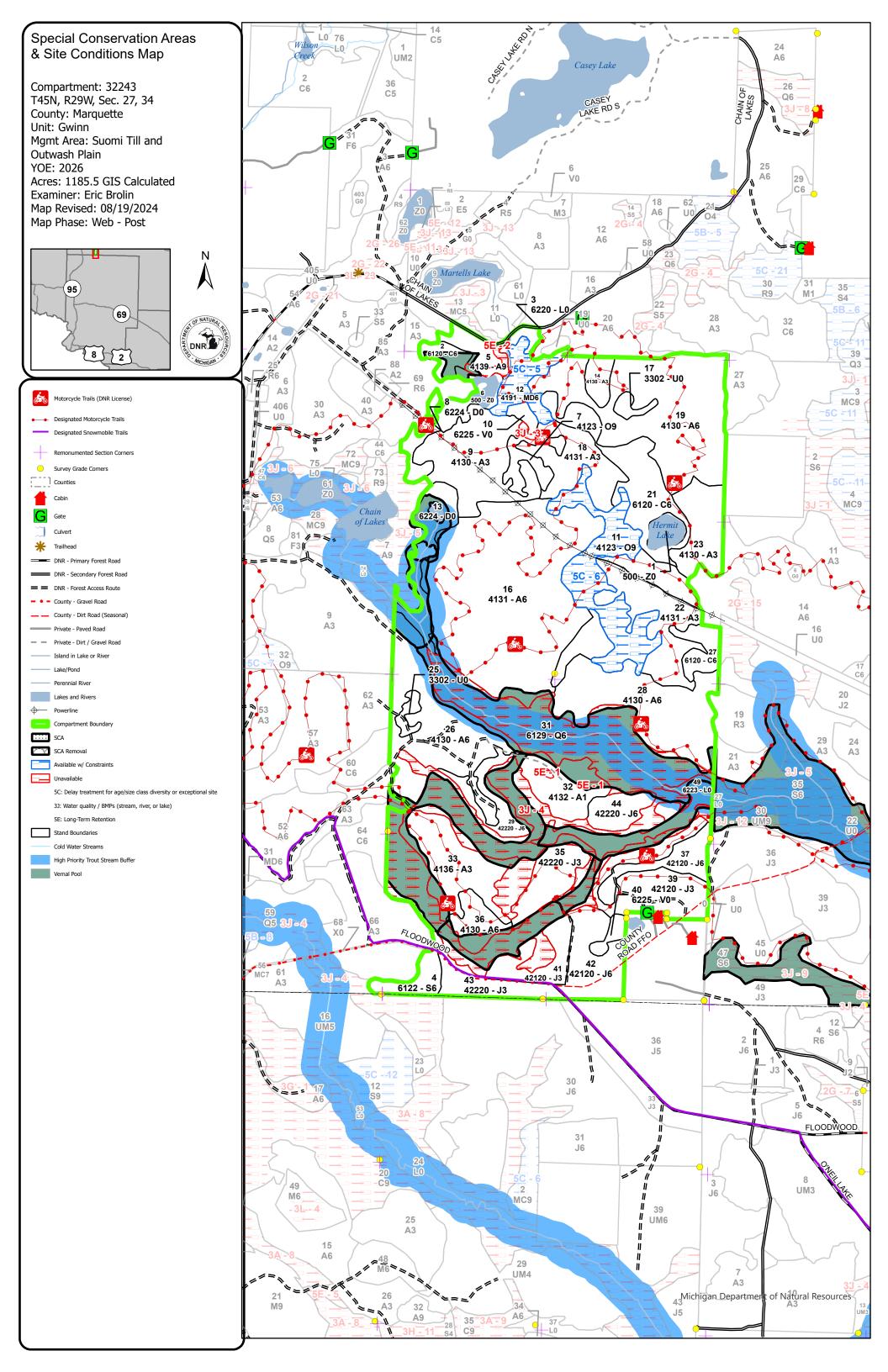
The following information is displayed, where pertinent, on the attached compartment maps:

Base feature information, stand boundaries, cover types, and numbers Proposed treatments
Site condition boundaries

Details on the road access system







Gwinn Mgt. Unit Eric Brolin: Examiner



Age Class

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Aspen	0	31	150	100	314	13	11	0	0	0	0	0	0	0	0	0	0	0	619
Bog	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7
Cedar	0	0	0	0	0	0	0	0	0	35	0	18	0	0	0	0	0	0	53
Jack Pine	0	0	70	32	53	0	0	0	0	0	0	0	0	0	0	0	0	0	155
Low-Density Trees	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7
Lowland Conifers	0	0	0	0	0	0	0	0	0	0	0	189	0	0	0	0	0	0	189
Lowland Shrub	25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	25
Lowland Spruce/Fir	0	0	0	0	0	0	0	0	0	0	0	11	0	0	0	0	0	0	11
Mixed Upland Deciduous	0	0	0	0	0	0	0	0	0	0	0	16	0	0	0	0	0	0	16
Oak	0	0	0	0	0	0	0	0	0	58	0	0	0	0	0	0	0	0	58
Treed Bog	27	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	27
Water	18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	18
Total	84	31	220	132	367	13	11	0	0	93	0	234	0	0	0	0	0	0	1185



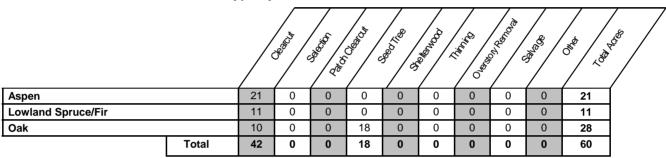
Report 2 – Treatment Summary

Gwinn Mgt. Unit

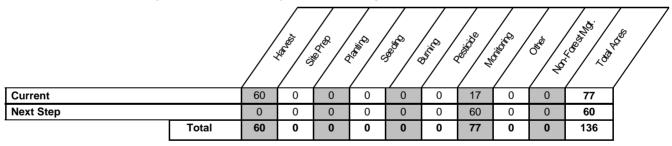
Compartment 243 Year of Entry: 2026 **Acres of Harvest Total Compartment Acres: 1,185**

> Commercial Harvest - 42 Harvests with Site Condition - 18 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

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Treatment Name

Acres Stand CoverType

Size St Density A

Stand BA Age Range Treatment Type Treatment Method Cover Type Objective

Compartment: 243

Year of Entry: 2026

Age Structure Habitat Cut

No

Proposed Treatments:

4 32243004-Cut 10.7 6122 - Black Spruce Poletimber 102 81-110 Harvest Clearcut 6122 - Black Even-Aged Well Spruce

Prescription Harvest to a 2" spec to promote black spruce regeneration. Leave cedar, red pine, and white pine.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable black spruce

Regen:

Other No retention due to smaller size and surrounding seed source for narrow stand.

Comment:

Site Condition

Proposed Start Date: 10/1 /2025

5 32243005-Cut 8.1 4139 - Aspen, Sawtimber 50 111- Harvest Clearcut with 4319 - Mixed Deciduous Well 140 Retention Upland Forest

Prescription Harvest to a 2" spec to promote regeneration of mixed species. Leave oak, cedar, red pine, and white pine.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable aspen, hardwood, conifer

Regen:

Other Long term retention will be included in the 100' water buffer along the south and east and will include a diverse mix of mature species and

Comment: large diameter, forked crown aspen. Include patchy openings in harvest, this will help fill in those areas. Include Spec 5.2.4.2 - (9"-15", at

least 8' long by stump, 1 per every 4 acres, evenly scattered across treatment).

Site Condition

Proposed Start Date: 10/1 /2025

7 32243007-Cut 9.9 4123 - Red Oak Sawtimber 80 141- Harvest Clearcut with 4123 - Red Oak Even-Aged No Well 170 Retention

Prescription Harvest all merchantable trees to promote red oak regeneration and release mixed pine saplings. Green tree to leave 10 BA of healthy red

Specs: oak. Leave red pine and white pine. Paint healthy red oak for the sale boundary line.

Next Step Treatments:

Regen:

Acceptable red oak, mixed pine

Other Comment:

100' buffer along lowland ground edge for retention. No interior stand retention. Narrow web will be surrounded by boundary red oak (paint healthy red oak for stand boundary to leave). This will provide seed and also allow sufficient interior sunlight for oak/pine release,

recruitment, and success.

Monitoring, Natural Regen (Re-Inventory)

Site Condition

Proposed Start Date: 10/1 /2025

Gwinn Mgt. Unit Report 3 -- Treatments

Compartment: 243 S Year of Entry: 2026 t а **Treatment** Stand Size Stand BA **Treatment Treatment Cover Type** Acres Age Habitat n Method Objective Structure Name CoverType Density Age Range Type Cut d 11 32243011-7-18.2 4123 - Red Oak Sawtimber 111-Harvest Seed Tree with 4122 - Oak, Pine Two-Aged New Well 140 Retention Prescription Harvest all merchantable trees to promote vigorous oak regeneration and release mixed pine saplings. Leave red pine and white pine. In Specs: combination with leave species, green mark healthy, wind firm red oak to leave while maintaining a residual cover of 20-30 BA average across the stand. Next Step Monitoring, Natural Regen (Re-Inventory) Treatments: Acceptable oak, mixed pine Regen: **Other** Try to use as many healthy, wind firm red oak for red line stand boundary trees to leave as possible. Look for interior long term retention in wider portions of stand or where less operable slopes would work. Comment: Site Condition Age-Class or Site Quality Proposed Start Date: 10/1 /2025 32243036-Cut 4130 - Aspen 13.0 Poletimber 48 81-110 Harvest Clearcut with 413 - Aspen Even-Aged Nο Retention

Prescription Harvest to a 2" spec to promote aspen regeneration. Retention should include large diameter, forked crown aspen. Leave cedar, red pine,

Specs: and white pine.

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable aspen, mixed conifer and hardwood

Regen:

Include Spec 5.2.4.2 - (9"-15", at least 8' long by stump, 1 per every 4 acres, evenly scattered across treatment). Other

Comment:

Site Condition

Proposed Start Date: 10/1 /2025

Approved Treatments:

32243032-32 16.6 4132 - Aspen, Jack Sapling 6 1-50 Monitoring Artificial 4222 - Natural Even-Aged No Monitor Pine Poor Regen(3yr) Jack Pine

Prescription Specs:

Next Step **Treatments:**

Acceptable Spruce, pine, balsam, aspen and birch. jack pine

Regen:

Other Percent to Treat = 100%

Comment:

Site Condition

Proposed Start Date: 10/1 /2024

Total Treatment 76.5 Acreage Proposed:

Compartment: 243

Gwinn Mgt. Unit

16%

Eric Brolin : Examiner Year of Entry: 2026

Availa	ability for	Managemer	nt					
Total	Acres	Acres Avail	Acres	D	omina	nt Site	e Cond	ditions
Acres	Available	With Condition	Not Available		5C	3J	5E	
619	614	0	5	Aspen			5	
7	7	0	0	Bog				
53	53	0	0	Cedar				
155	155	0	0	Jack Pine				
7	7	0	0	Low-Density Trees				
189	0	0	189	Lowland Conifers		189		
25	25	0	0	Lowland Shrub				
11	11	0	0	Lowland Spruce/Fir				
16	0	16	0	Mixed Upland Deciduous	16			
58	10	47	1	Oak	47	1		
27	27	0	0	Treed Bog				
18	18	0	0	Water				
1,185	928	63	194	Total Forested Acres	63	190	5	

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 Condition	Acres	Other Site Condition	Other Site Condition	Other Site Condition	Other Site Condition
1	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
	Comments: Long term retention	patches for Stand 32.					
2	Unavailable	5E: Long-Term Retention	3	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
	Comments: 100' buffer for water	along south and lowland alon	ng east t	hat appears to have at least	seasonal flowing water. I	_ong term retention for Sta	nd 5.
3	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	1	5E: Long-Term Retention	Unspecified	Unspecified	Unspecified
	Comments: 100' buffer along lov	vland edge. Long term retention	on for St	and 7.			

78%

5%

Report 4 – Site Conditions

Gwinn Mgt. Unit

Compartment: 243 Year of Entry: 2026 **Eric Brolin: Examiner**

4	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	189	3L: Other wildlife concerns	Unspecified	Unspecified	Unspecified
	Comments: Large web of lowla adjacent stands in	nd conifer. Numerous drainage the future.	ways acı	ross area. Dense cedar do	minant in a lot of areas. S	Some edges of spruce may	be managed with
5	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	16	Unspecified	Unspecified	Unspecified	Unspecified
	Comments: Manage in the future	re with adjacent Stand 19. After	water bu	uffers and slope exclusions	s, manageable area will de	ecrease significantly in size	
6	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	47	Unspecified	Unspecified	Unspecified	Unspecified
	Comments:						

8/19/2024 9:42:54 AM - Page 2 of 2 **HEINTZELMANC** 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 Compartment: 243
Year of Entry 2026



Report 6 – EXISTING SPECIAL CONSERVATION AREA DETAILS

* This is a list of SCA's for this compartment along with a 1/4 mile buffer surrounding the compartment. Refer to the Special Conservation Area Map for locations of the below listed Conservation Areas.

Conservation Area	on Type	Description	ERA = Ecological Reference Area HCVA = High Conservation Value Area SCA = Special Conservation Area
SCA	Cold Water Lake	A coldwater lake has temperature and dissolved oxygen conditions stocked trout populations and those of other coldwater fish spec conditions for coldwater fishes may occur in Michigan lakes if the groundwater inflows, or are located in colder (northern) areas of Director's action and designated as trout resources by Fisheries	ies to persist from year to year. Suitable ey are relatively deep, have substantial the state. Such lakes are established by
SCA	Cold Water Stream	litions that allow naturally-reproduced or ies (e.g., slimy sculpin) to persist from ese conditions due to substantial are established by Director's action and	
SCA	Riparian Area	A transitional area between aquatic and terrestrial ecosystems in influences the aquatic ecosystem and vice-versa. Because of the streams and open water wetlands, riparian areas harbor a high communities are ecologically and socially significant in their effe as aesthetics, habitat, bank stability, timber production, and their	e unique conditions adjacent to lakes, diversity of plants and wildlife. Riparian cts on water quality and quantity, as well



Stand	d Level 4 C	Level 4 Cover Type Size Density Acres Stand Age BA Range Man 500 - Water Nonstocked 6.2 0 Unspecified		Managed S	Site	General Comments					
1	500 -			Nonstocked		Nonstocked		6.2	0	Unspecified	No
2	6120 - Lo	wland Ceda	ar Po	oletimb	er Well	7.3	102	111-140	N/A		Contains drains that flow into lake.
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Ca	nopy Specie	s Density	Avg. Height	Size	
	Paper Birch	3	Pole	9		Northern	n White Ceda	r Low	>20 feet	Sapling	
	Black Spruce	10	Pole	7		Ta	ag Alder	Medium	5 - 10 feet	Tall Shrub	
No	orthern White Cedar	50	Pole/Log	8	102	Ba	alsam Fir	High	10 - 20 feet	Sapling	
	Tamarack	30	Pole	7							
	White Pine	2	Log/XLog	14							
	Balsam Fir	5	Pole	6							
3	6220 - A	Alder/willow		Nonsto	cked	3.8	0		No		Lowland shrub drainage that has flowing water.
4	6122 - BI	lack Spruce	e Po	oletimb	er Well	10.7	102	81-110	N/A		Patch of pure black spruce broken out from original Stand 31 for
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Ca	nopy Specie	s Density	Avg. Height	Size	management. Some trees showing decline with older age. This stand should be regenerated before more widespread mortality occurs. No
	Balsam Fir	2	Pole	6		Ва	alsam Fir	Low	Variable	Sapling	standing water or drainage areas observed within this stand, good
	Black Spruce	87	Pole	8	102	Norther	n White Ceda	r Trace	Variable	Pole	manageable ground.
	Tamarack	2	Pole/Log	9							
No	orthern White Cedar	5	Pole/Log	9							
	Paper Birch	2	Pole	6							
	Balsam Poplar	2	Log	11							
5	4139 - Aspen,			awtimb		11.4	50	111-140	N/A		Patchy mix of ages and species. Merged from adjacent stands to road for future management. Younger aspen in NW, older aspen in south half,
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Ca	nopy Specie	s Density	Avg. Height	Size	age estimated from mixed sizes.
	Paper Birch	13	Log/Pole	11		R	Red Oak	Trace	Variable	Sapling	
	Red Pine	7	Log	16	95	Ba	alsam Fir	Medium	Variable	Sapling	
	White Pine	4	Log	14			hite Pine	Low	Variable	Sapling	
	Red Oak	3	XLog/Log/Pole	18		R	led Pine	Low	Variable	Sapling	
	Black Cherry	3	Log/Pole	10		Re	ed Maple	Low	5 - 10 feet	Sapling	
	Quaking Aspen	55	Pole/Log	8	50						
	Red Maple	15	Log/Pole	10							
6	500 -	- Water		Nonsto	cked	12.2			No		Flooded lowland area.



Stanc	d Level 4 C	4 Cover Type Size Density Acres Stand Age BA Range Manage		Managed S	Site	General Comments					
7	4123 -	Red Oak		Sawtimber Well		11.0	80	141-170	N/A		Nearly solid red oak log stand broken out from surrounding stand. No
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Ca	nopy Specie	s Density	Avg. Height	Size	aspen regeneration present under canopy. Understory does have decent stocking of mixed pine saplings and dense to evenly distributed, beefy
	Red Pine	2	Log	14		Re	ed Maple	Low	Variable	Sapling	red oak seedlings (1' - 4' tall) across the entire area. Adjacent stands
	Red Oak	98	Log/Pole	12	80	R	ed Pine	Medium	Variable	Sapling	show excellent red oak recruitment with aggressive oak cutting.
						WI	hite Pine	Medium	Variable	Sapling	
						R	ed Oak	High	< 5 feet	Seeding	
8	6224 -	Treed Bog		Nonstoc	ked	6.0			No		Bog.
						Sub-Ca	nopy Specie	s Density	Avg. Height	Size	
						Blac	ck Spruce	Low		Sapling	
						Ta	amarack	Low		Sapling	
9	4130	4130 - Aspen		Sapling \	Vell	46.5	15	1-50	N/A		Dense aspen saplings with scattered pine and red oak from previous
			Size Class	DBH	Age	Sub-Ca	nopy Specie	s Density	Avg. Height	Size	harvest. Pine becomes more abundant around most edges of the stand. Some steeper rolling terrain in areas.
	Bigtooth Aspen	60	Sapling	2	15	Ва	lsam Fir	Low	Variable	Sapling	Come deoper rouning terrain in areas.
	Red Maple	5	Sapling	2		Re	ed Maple	High	Variable	Sapling	Harvested in 2009: TS# 105-06-01. Oak, red and white pine retained.
	White Pine	5	Log/Pole	11		Bigto	oth Aspen	Medium	Variable	Sapling	
	Balsam Fir	2	Pole/Sapling	g 6		WI	hite Pine	Low	Variable	Sapling	
	Quaking Aspen	14	Sapling	2	15			'			-
	Red Pine	9	Log	14							
	Red Oak	5	Log/Pole	13							
10	622	5 - Bog		Nonstoc	ked	3.1			No		Small bog with scattered conifer saplings.
11	4123 -	Red Oak		Sawtimbe	Well	47.0	80	111-140	N/A		Stand was delineated out from adjacent aspen stands after field
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Ca	nopy Specie	s Density	Avg. Height	Size	examination. Canopy is dense to red oak, log to larger pole sized trees. Understory has very little to no red maple or aspen regeneration. There is
	Red Oak	95	Log/Pole	12	80	R	ed Pine	Low	Variable	Sapling	a high stocking of well established oak saplings ranging from 2' - 8' tall
	Red Pine	4	XLog/Log	18		Re	ed Maple	Low	Variable	Sapling	and also a fair amount of mixed pine saplings, 2' - 5' tall, evenly scattered
	White Pine	1	Log	14		R	ed Oak	High	Variable	Sapling	in the understory.
		'		'		WI	hite Pine	Low	Variable	Sapling	
						Quak	king Aspen	Low	Variable	Sapling	



Stand	d Level 4 Co	over Type	5	Size De	ensity	Acres S	Stand Age B	A Range	Managed \$	Site	General Comments
12	4191 - Mixed Upla Co	and Decidu	ous with P	oletimb	er Well	16.2	100	111-140	N/A		Diverse stand of conifer/hardwood, heavy to larger red oak. Slopes along most edges.
	Canopy Species	% Cover	Size Class	DBH	l Age	Sub-Cand	py Species	Density	Avg. Height	Size	
	White Pine	10	Log/Pole	12		Red	Maple	Low	Variable	Sapling	
	Red Pine	10	Log	16		Bals	am Fir	Low	Variable	Sapling	
	Paper Birch	17	Log/Pole	10	50	Red	d Oak	Medium	Variable	Sapling	
	Red Maple	10	Pole/Sapling	7	50	Rec	I Pine	Low	Variable	Sapling	
	Jack Pine	1	Log/Pole	10		Whit	e Pine	Medium	Variable	Sapling	
	Quaking Aspen	5	Log/Pole	10							-
	Bigtooth Aspen	10	Pole	8							
	Red Oak	37	Log	15	100						
13	6224 - T	reed Bog		Nonst	ocked	21.4			No		Large ravine flooded bog holding water in areas.
						Sub-Cand	py Species	Density	Avg. Height	Size	
						Northern V	Vhite Cedar	Trace		Sapling	
						Black	Spruce	Low		Sapling	
						Tam	arack	Low		Sapling	
14	4130 -	- Aspen		Saplin	g Well	6.9	6	1-50	N/A		Dense aspen saplings with good mix of red maple mixed in. Scattered larger pine and oak across the stand are not affecting sapling
	Canopy Species	% Cover	Size Class	DBH	l Age	Sub-Cand	py Species	Density	Avg. Height	Size	regeneration.
	Red Maple	15	Sapling	1		Red	Maple	Low	Variable	Sapling	
	White Pine	5	Log/XLog	16		Whit	e Pine	Low	Variable	Sapling	This stand is located on hilly rocky ground. The Porterfield motorcycle trail traverses the stand. the stand was harvested in the spring of 2018 b
	Quaking Aspen	60	Sapling	1	6	Quakin	ig Aspen	High	Variable	Sapling	Minerick Logging, under 121-16 Luna Moth Mix. About 30SQ FT of mixed
	Red Pine	12	Log/XLog	15	106	Red	d Oak	Low	Variable	Sapling	pine and oak where left in the stand.
	Red Oak	8	Log	14							
16	4131 - As	spen, Oak	Р	oletimb	er Well	157.5	36	51-80	N/A		Mixed pole stand with areas that have steeper terrain and ravines. A TON of oak regenerated with aggressive cutting. This oak is over competing
	Canopy Species	% Cover	Size Class	DBH	l Age	Sub-Cand	ppy Species	Density	Avg. Height	Size	aspen and is growing from both stump sprouts and scattered individual
	Bigtooth Aspen	30	Pole/Sapling	7	36	Red	Maple	High	Variable	Sapling	stems across the entire stand. Harvested in 1988: TS# 7-97. Red and
	Red Maple	2	Pole/Sapling	5		Red	d Oak	Low	Variable	Sapling	white pine retained.
	Red Oak	38	Pole/Log	8	36	Whit	e Pine	Low	Variable	Sapling	
	Red Pine	3	Log	12		Red	l Pine	Low	Variable	Sapling	
	White Pine	5	Log	12		Bals	am Fir	Low	Variable	Sapling	
		2	Pole/Sapling	6							
	Paper Birch										
	Paper Birch Quaking Aspen	20	Pole/Sapling	6	36						
17	<u>'</u>	20	1 0	6 Nonst		3.4			No		Grass opening growing in with scattered conifer.
17	Quaking Aspen	20	1 0				opy Species	Density	No Avg. Height	Size	Grass opening growing in with scattered conifer.
17	Quaking Aspen	20	1 0			Sub-Cand	ppy Species	Density Trace		Size Sapling	Grass opening growing in with scattered conifer.



Stand	Level 4 C	over Type	s	ize De	ensity	Acres	Stand Age B	BA Range	Managed \$	Site	General Comments
18	4131 - <i>A</i>	Aspen, Oak	Ş	Sapling Well		39.0	27 U	Inspecified	N/A		Aspen saplings with scattered residual oak/pine mix.
	Canopy Species	% Cover	Size Class	DBH	I Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	Harvested in 1997: TS# 3-96. Oak, red and white pine retained.
	Red Oak	20	Pole/Log	8		Re	ed Maple	High	10 - 20 feet	Sapling	That rection in 1007. 10% of the Cart, four and write pine retained.
	Quaking Aspen	16	Sapling	3		R	ed Pine	Low	5 - 10 feet	Sapling	
	White Pine	2	Log/Pole	12		Hazelr	nut (Beaked)	Low	5 - 10 feet	Tall Shrul	
	Bigtooth Aspen	55	Sapling	3	27	R	ed Oak	Low	5 - 10 feet	Sapling	
	Red Pine	7	Log/XLog/Pole	16				·			_
19	4130	- Aspen	Po	oletimb	er Wel	l 91.4	35	51-80	N/A		Mixed aspen pole stand with other minor species speckled across area.
	Canopy Species	% Cover	Size Class	DBH	I Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	Dense fully stocked under story of red maple saplings. Rolling terrain gentle to moderate across most areas of stand. Area along East edge
	Red Maple	15	Sapling	3		Re	ed Maple	Full	Variable	Sapling	has dense conifer cover heavy to fir with some black spruce and pine
	Red Oak	5	Log	16		R	ed Oak	Low	Variable	Sapling	poles. A few small bogs, numerous small, patchy openings, and larger
	Quaking Aspen	43	Pole/Sapling	6	35	Blad	ck Spruce	Low	Variable	Sapling	diameter pine island found interior that may have to be excluded or managed in the future.
	Bigtooth Aspen	30	Pole/Sapling	6	35	WI	nite Pine	Low	Variable	Sapling	managed in the ratare.
	Red Pine	5	Pole	8		Ва	lsam Fir	Low	Variable	Sapling	Harvested in 1989: TS# 20-86.
	White Pine	2	Sapling/Pole	4		R	ed Pine	Low	Variable	Sapling	
21	6120 - Lo	wland Ceda	ar Po	oletimb	er Wel	l 35.4	86	111-140	N/A		Very nice black spruce but dense cedar would make in inoperable without
	Canopy Species	% Cover	Size Class	DBH	I Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	significant damage to cedar resource. Larger cedar take up a lot of canopy. Other areas dominated by black spruce canopy have dense
	Balsam Fir	5	Pole	7		Ta	ag Alder	Low	5 - 10 feet	Tall Shrul	cedar understory. Some areas along edges may be operable, noted in
	Paper Birch	2	Pole	8		Ва	lsam Fir	Medium	Variable	Sapling	adjacent stands for future management. Far north and south areas are
	Tamarack	4	Log/Pole	11		Northern	White Cedar	High	Variable	Pole	more of a stunted bog.
	Black Spruce	35	Pole	7	86						_
No	rthern White Cedar	54	Log/Pole	11	86						
22	4131 - <i>A</i>	Aspen, Oak	Ş	Saplin	g Well	43.2	15	1-50	N/A		Adjacent dense oak stand was broken out from this original stand. Dense
	Canopy Species	% Cover	Size Class	DBH	I Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	aspen saplings in most areas with a good amount of scattered log sized oak. Denser areas affected aspen regeneration.
	White Pine	1	Log	14		Blad	ck Spruce	Low	Variable	Sapling	ouk. Bonoci arous anostea asperi regeneration.
	Red Pine	2	Log	14		WI	nite Pine	Low	Variable	Sapling	Harvested in 2009: TS# 106-06-01. Oak, red and white pine retained.
	Bigtooth Aspen	40	Sapling	2	15	Qual	king Aspen	Low	Variable	Sapling	
	Quaking Aspen	23	Sapling	2	15	Re	ed Maple	High	Variable	Sapling	
	Red Maple	5	Sapling	2		Bigto	oth Aspen	Medium	Variable	Sapling	
	Red Oak	29	Log/Pole	12	70	R	ed Oak	Low	Variable	Sapling	
						Ва	lsam Fir	Low	Variable	Sapling	
						R	ed Pine	Low	Variable	Pole	
						1.0			Variabio	1 010	



Stand	Level 4 Co	vel 4 Cover Type Size Density Acres Stand Age BA Range Managed Site		Site	General Comments					
23	4130	- Aspen	;	Sapling	g Well	23.5 15	1-50	N/A		Mix of aspen saplings with a good component of red maple saplings.
	Canopy Species	% Cover	Size Class	DBH	l Age	Sub-Canopy Species	Density	Avg. Height	Size	Scattered larger pine and oak across the stand. Dense understory of red maple saplings in most areas.
	Bigtooth Aspen 40 Sapling 2 15		15	Red Maple	Full	Variable	Sapling			
	White Pine	2	Log/Pole	11		Red Pine	Low	Variable	Sapling	Harvested in 2009: TS# 106-06-01. Oak, red and white pine retained.
	Red Maple	15	Sapling	2		Balsam Fir	Low	Variable	Sapling	
	Red Pine	8	Log/Pole	13		White Pine	Low	Variable	Sapling	
	Quaking Aspen	30	Sapling	2	15	Red Oak	Low	Variable	Sapling	
	Red Oak	5	Log	14			·			
25	3302 - Low Den	sity Conifer	Conifer Trees Nonstocke			3.9		Managed Opening		Opening growing in with trees. A lot of moose and deer sign along the
						Sub-Canopy Species	Density	Avg. Height	Size	edges of this, maintain as opening with future management if possible.
						Red Pine	Low		Sapling	Opening created using herbicides in 1992.
						Jack Pine	Trace		Sapling	
26	4130	- Aspen	Po	oletimb	er Well	64.7 34	51-80	N/A		Nice aspen poles. More terrain and higher elevations in the north half
			Size Class	ze Class DBH Age		Sub-Canopy Species	Density	Avg. Height	Size	hold more bigtooth aspen and scattered large diameter red oak. Scattered patches and strips of mixed pine across stand, heavy to jack
	Balsam Fir	5	Pole/Sapling	6		Balsam Fir	Medium	Variable	Sapling	pine poles. South half on flatter ground is heavier to quaking aspen with a
	Black Spruce	3	Pole/Sapling	6		Red Maple	Low	Variable	Sapling	slightly smaller average diameter and has more of the conifer mixed in.
	Red Pine	3	Log/Pole	11		Black Cherry	Low	Variable	Sapling	Harvested in 1989: TS# 18-86.
	Red Maple	5	Sapling/Pole	4		White Pine	Trace	Variable	Sapling	Traivested iii 1303. 10# 10 00.
	Red Oak	5	Log	16		Red Pine	Low	Variable	Sapling	
	Bigtooth Aspen	15	Pole/Sapling	7		Black Spruce	Low	Variable	Sapling	
	Jack Pine	8	Pole/Sapling	6						-
	Quaking Aspen	56	Pole/Sapling	6	34					
27	6120 - Lov	vland Ceda	ır Po	oletimb	er Well	10.2 100	81-110	N/A		Mostly denser cedar with a small stunted boggy area in the south with
	Canopy Species	% Cover	Size Class	DBH	l Age	Sub-Canopy Species	Density	Avg. Height	Size	more tamarack and black spruce.
No	rthern White Cedar	62	Pole/Log	9	100	Tamarack	Low	Variable	Sapling	
	White Pine	3	Log	15		Tag Alder	Low	5 - 10 feet	Tall Shrub	
	Tamarack	15	Pole/Log	8		Northern White Cedar	Medium	Variable	Pole	
	Red Pine	3	Log	15		Balsam Fir	Low	Variable	Sapling	
							N.A. 11	.,		
	Paper Birch	2	Pole/Sapling	6		Black Spruce	Medium	Variable	Sapling	

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ort 7 – Stands Compartment: 243
Year of Entry: 2026

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Stand	and Level 4 Cover Type			Size De	nsity	Acres	Acres Stand Age BA Range			Site	General Comments
28	4130 - Aspen		Poletimber We		er Well	60.5	27	1-50	N/A		Dense aspen stand. Transitioning into pole sized trees.Harvested in
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	1997: TS# 4-96. Oak, Cherry, red and white pine retained.
	Jack Pine	5	Pole/Sapling	5		R	ed Oak	Low	Variable	Pole	
	Red Maple	12	Sapling/Pole	3		Ва	Isam Fir	Low	Variable	Sapling	
	Red Oak	5	Log/Pole	13		Blac	k Spruce	Low	Variable	Sapling	
	Quaking Aspen	46	Pole/Sapling	5	27	Re	d Maple	High	Variable	Sapling	
	Bigtooth Aspen	25	Pole/Sapling	5	27	Re	ed Pine	Low	Variable	Sapling	
	White Pine	3	Log/Pole	12							
	Red Pine	4	Log	15							
29	42220 - Natural Jack Pine			Poletimber Well		14.2 34		51-80	N/A		Dense in most areas to jack pine poles with patches of spruce/fir. Sligh
	Canopy Species	anopy Species % Cover Size Class Di		DBH	Age	Sub-Car	nopy Species	Density	Avg. Height	Size	transitions into lowland conifer hold more black spruce before hitting the more solid line of cedar.
	Jack Pine	70	Pole/Sapling	7	34	Ва	lsam Fir	Medium	Variable	Sapling	
	Balsam Fir	10	Pole/Sapling	5		Blac	k Spruce	Low	Variable	Sapling	Harvested in 1989: TS# 18-86.
	Red Maple	2	Sapling/Pole	4		Re	ed Pine	Low	Variable Pole		
	Black Spruce	10	Pole/Sapling	6		Re	d Maple	Low	Variable	Sapling	
	Red Pine	3	Pole	7		Ja	ck Pine	Low	Variable	Sapling	
	Quaking Aspen	5	Pole/Sapling	6							
31	6129 - Mixed Conif	erous Lowl	and Forest P	oletimb	er Well	188.8	102	111-140	N/A		Large web of lowland conifer. Most areas more dense to cedar or dense
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	cedar topped by black spruce. Numerous drainage or flowing waterwa Opportunities to manage pure black spruce patches along the edges
Balsam Fir		2	Pole	6		Ta	ag Alder	Low	Variable	Tall Shrub	
	Black Spruce	45	Pole	7	102	Ва	lsam Fir	Medium	Variable	Sapling	become available.
Noi	thern White Cedar	40	Pole/Log	9		Northern	White Cedar	Medium	Variable	Pole	SCA = Winter thermal cover for deer and wildlife corridor. Last entry
	Balsam Poplar	2	Log	11		Blac	k Spruce	Medium	Variable	Sapling	wildlife requested to maintain this stand as an SCA.
	Paper Birch	2	Pole	6						'	
	Tamarack	9	Pole/Log	9							
32	4132 - Aspen, Jack Pine		Sapling	Poor	24.2	6	1-50	N/A		January, 2024 - Large east area has scattered, sparse jack pine saplir	
	Canopy Species	% Cover	Size Class	DBH	Age						with smaller clones of dense aspen regen. West 1/3 is heavy to an aspen/red maple sapling mix. Scattered large diameter pine and a cou
	Red Maple	25	Sapling	1	6						patches of pine retention within. Did not notice planted stock with snow
	Quaking Aspen	45	Sapling	1	6						
	Jack Pine	20	Sapling	1	6						Stand harvested in the spring of 2018 by Minerick logging, under 121- Luna Moth Mix. now under FTP 32-940 or Jack Pine regeneration.
	Red Pine	10	Log/XLog	17							Luna Motificial. How under FTF 32-340 of Jack Fille legeneration.

Planted Spring 2023.



Stand	·				ensity	Acres	Stand Age B	A Range			General Comments Dense aspen saplings. Access road from the SE is growing in with mixed		
33					g Well	36.8	14 I	mmature					
	Canopy Species	% Cover	Size Class	DBI	H Age	Sub-Car	nopy Species	Density	Avg. Height	Size	pine saplings. There is also quite a bit of mixed pine saplings in any oper canopy areas and across the aspen understory. Look for opportunity to		
	Black Spruce	5	Sapling/Pole	4		Wh	nite Pine	Low	Variable	Sapling	harvest pure black spruce pockets from adjacent lowland conifer stands		
	Balsam Fir	5	Sapling/Pole	2		Re	d Maple	Medium	Variable	Sapling	during next entry.		
	Quaking Aspen	50	Sapling	2	14	Ва	lsam Fir	Low	Variable	Sapling	Harvested in 2010: TS# 107-06-01. Red and white pine retained.		
	White Pine	8	Log/XLog/Pole	/Pole 14		Ja	Jack Pine	Medium	Variable	Sapling	Trainested in 2010. 10% 107 00 01. Red and write pine retained.		
	Red Pine	7	Log/Pole/XLog	14		Re	ed Pine	Low	Variable	Sapling			
	Paper Birch	5	Sapling	2							_		
	Bigtooth Aspen	12	Sapling	2									
	Red Maple	5	Sapling	2									
	Jack Pine	3	Sapling	3									
35	42220 - Natural Jack Pine			Saplin	g Well	18.7	14 I	mmature	N/A		Dense jack pine across stand with some other minor species mixed in.		
	Canopy Species % Cover Size Class		DBH Age							Strips of mature jack pine were left along the NW and SW edge. Harvested in 2010: TS# 107-06-01. Regenerated naturally.			
	Balsam Fir	5	Sapling	2							Red and white pine retained. 2015 regeneration count results are 909		
	Red Pine	3	Log/XLog	14							jack pine per ac, and 172 vol per acre. (FTP 32-764 is now closed)		
	White Pine	2	Pole	8									
	Black Spruce	5	Sapling/Pole	4									
	Bigtooth Aspen	3	Sapling	2									
	Quaking Aspen	7	Sapling	1									
	Jack Pine	75	Sapling	2	14								
36	4130	- Aspen Poletimber Well			13.0 48 81-110		81-110	10 N/A		A higher ridge across the center contains some large diameter bigtooth			
	Canopy Species	% Cover	Size Class	DBI	H Age	Sub-Car	nopy Species	Density	Avg. Height	Size	aspen. Transition into flats along edge contain more quaking aspen with a jack pine and black spruce mix along the south lowland border		
	Paper Birch	5	Pole/Log	8		Ва	lsam Fir	Medium	Variable	Sapling	edge.Harvested in 1976: TS# 8-75A. Spruce, fir, red and white pine		
	Quaking Aspen	50	Pole	8	48	Wh	nite Pine	Low	Variable	Sapling	retained.		
	Red Maple	2	Pole	6					ı				
	Jack Pine	8	Pole	7									
	Bigtooth Aspen	24	Log/Pole	11									
	White Pine	2	Log/Pole	12									
	Balsam Fir	3	Pole	7									
	Red Pine	2	XLog/Log	18									
	Black Spruce	4	Pole	7									
37	42120 - Planted Jack Pine Po				oer Well	15.0 26 lı		mmature	N/A		Most areas grown in well with dense aspen poles. Patchy sparse area in		
	Canopy Species	% Cover	% Cover Size Class		H Age	Sub-Canopy Species		Density	Avg. Height	Size	the center growing in with some other saplings and brush.Harvested in 1998: TS# 5-96-01. Trenched and direct seeded in 1998.		
	Black Spruce	2	Sapling/Pole	3		Blac	k Spruce	Low	< 5 feet	Sapling	1000. 10 0 00 011 Tronollog and allog 000000 in 1000.		
	Jack Pine	90	Pole/Sapling	6	26	Ba	Isam Fir	Low	< 5 feet	Sapling			
	Balsam Fir	3	Sapling/Pole	3							-		
	Quaking Aspen	5	Pole	6									

Report 7 - Stands



Compartment: 243

Year of Entry: 2026

Stand	and Level 4 Cover Type			Size De	nsity	Acres	Stand Age E	BA Range	Managed Site		General Comments
39	42120 - Planted Jack Pine Canopy Species % Cover Size Clas			Sapling Well DBH Age		_	16	mmature	N/A		Grown in dense with jack pine saplings. Patch in the SE was left unplanted and contains some larger mixed conifer.
	Canopy Species Balsam Fir	% Cover	Pole/Sapling		Age						Harvested in 2007: TS# 129-06-01. Planted in 2008.
	Quaking Aspen	8	Sapling	3							Harvested in 2007. 15# 129-06-01. Planted in 2006.
	Black Spruce	3	Pole/Sapling								
	Red Pine	2	Log/Pole/XLog								
	Jack Pine	80	Sapling	3	16						
40	6225	5 - Bog		Nonsto	cked	4.1			No		Bog area with some stunted saplings in the south bubble.
41	42120 - Planted Jack Pine			Sapling Well		16.8	.8 25 1-50 N/A I			Dense jack pine with a good mix of red pine from past planting. Large	
	Canopy Species	% Cover	Size Class	DBH Age		Sub-Car	nopy Species	Density	Avg. Height	Size	sapling to small pole size trees.
	Red Pine	25	Sapling/Pole		25		ed Pine	Low	Variable	Sapling	Harvested in 1998: TS# 5-96-01. Planted to red pine in 1999 which
	Jack Pine	75	Sapling/Pole		25		ck Pine	Medium	Variable	Sapling	mostly failed due to competition with naturally regenerated jack pine.
42	42120 - Plai	nted Jack F	Pine F	Poletimb	er Well	27.0	34	51-80	N/A		Dense stand of jack pine poles.
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Car	nopy Species	Density	Avg. Height	Size	Harvested in 1988: TS#7-86-1. Planted in 1990.
	Jack Pine	100	Pole/Sapling		34		k Cherry	Low	Variable	Sapling	Traivested III 1300. 13#7-00-1. Trained III 1330.
				I		Blac	k Spruce	Low	Variable	Sapling	
43	42220 - Nat	ural Jack P	Pine	Sapling	ı Well	16.5	15	1-50	N/A		Dense jack pine saplings with some other mixed conifer. A patch heavier to aspen borders the south/central area. Harvested in 2009: TS# 107-
	Canopy Species	% Cover	Size Class	DBH	Age						06-01. Regenerated naturally. 2015 Count results are 2600 jp per ac (ftp
	Paper Birch	1	Sapling	2							32-764 is now closed)
	Red Maple	2	Sapling	2							
	Balsam Fir	2	Sapling/Pole	4							
	Black Spruce	3	Pole	7							
	White Pine	3	Log/Pole	10							
	Jack Pine	77	Sapling	2	15						
	Red Pine	2	Log/Pole	10							
	Quaking Aspen	10	Sapling	3							
44	42220 - Nat	tural Jack Pine F		Poletimber Well		12.1 36		111-140	N/A		Dense jack pine poles. Some scattered individual mortality from dense growing conditions.
	Canopy Species	% Cover	Size Class		Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	growing conditions.
	Jack Pine	98	Pole/Sapling	7	36		sam Fir	Low	Variable	Sapling	
	Quaking Aspen	2	Pole	7		Blac	k Spruce	Low	Variable	Sapling	
49	6223 - Inundated Shrub Swamp		Nonstocked		20.8			No		Flooded web of lowland shrub and water. Large beaver dams within.	
						Sub-Car	opy Species	Density	Avg. Height	Size	
							sam Fir	Trace		Sapling	
						Plac	k Spruce	Medium		Sapling	