

Compartment Review Presentation

Escanaba Forest Management Unit

Compartment 33099 Entry Year: 2026 Acreage: 676

Management Area: Menominee-Marquette

County: Delta

Stand Examiner: Dan Racine

Legal Description:

T43N, R22W, Sections 19&30; T43N, R23W, Section 24

Identified Planning Goals:

The majority of the upland cover type is aspen with a minor component of northern hardwood and mixed upland deciduous. The majority of the lowland cover type is cedar with a minor component of mixed lowland conifer. There is one treatment scheduled for harvest in an aspen stand along the Engineer road designed to aid in the age class distribution of aspen within the management area and regenerate the aspen.

Soil and topography:

Major soil types are Carbondale, Lupton, Rifle, Tacoosh, Angelica, and Trenary. Topography is nearly level to moderately steep.

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

State land to the north and east. Non-Industrial Private land borders to the south and west.

Unique Natural Features:

No Unique Natural Features known.

Archeological, Historical, and Cultural Features:

No Archeological, Historical, or Cultural Features known.

Special Management Designations or Considerations:

This area is part of the Lampi deer yard cedar regeneration project. This project was started in the late 1950's and has been ongoing for the past 50 years or so.

Watershed and Fisheries Considerations:

This compartment contains the Main Branch Rapid River. The Main Branch Rapid River is a designated Type 1 trout stream less than 50 foot wide and has a predicted mean July temperature of 66.4°F (cool stream). A 300' buffer is recommended for the Main Branch Rapid River in riparian areas susceptible to Aspen regeneration. For areas not susceptible to Aspen regeneration, a minimum 100 feet, plus 5 feet per 1% increase in slope, buffer is recommended to protect riparian areas in accordance with Best Management Practices.

Wildlife Habitat Considerations:

Within this 676 acre compartment, 45 acres of forest treatments have been prescribed this YOE, representing about 3% of the compartment. These acres represent a single planned clearcut treatment in an aspen stand. Featured species for this stand include American Woodcock, Snowshoe Hare, Black Bear, Wild Turkey, and White-tailed Deer. Clearcuts, which create young forest conditions, will benefit all of these species.

Mineral Resource and Development Concerns and/or Restrictions

No known potential exists for commercial oil & gas production in this part of the state. No known active sand & gravel operations exist in the area. Bedrock limestone is at or near the surface within the compartment and across the area, so potential for sand & gravel may be limited. In addition, much of the compartment consists of low wetlands, which would inhibit surface mining for development of either sand & gravel or limestone for aggregate. Furthermore, the compartment might be too far from populated areas (markets) for any aggregate resources present to have much economic potential beyond use by the county road commission or DNR for local road maintenance. Some remote geophysical surveys covering this area have been conducted and have revealed potential metallic mineral targets in the subsurface in the form of magnetic anomalies. One such feature has been identified less than one mile south of the compartment, and it was the focus of some exploration test drilling for iron ore in the past. No magnetic anomalies have been identified beneath the compartment, and the potential for metallic minerals from within the compartment is considered low at this time. There is no current or past leasing activity involving State-owned mineral rights in the area.

Vehicle Access:

Limited, private land and wet ground make it hard to access.

Survey Needs:

None

Recreational Facilities and Opportunities:

Hunting and trapping.

Fire Protection:

If a fire should ever get started in this area, initial attack will be difficult. As stated before access is limited.

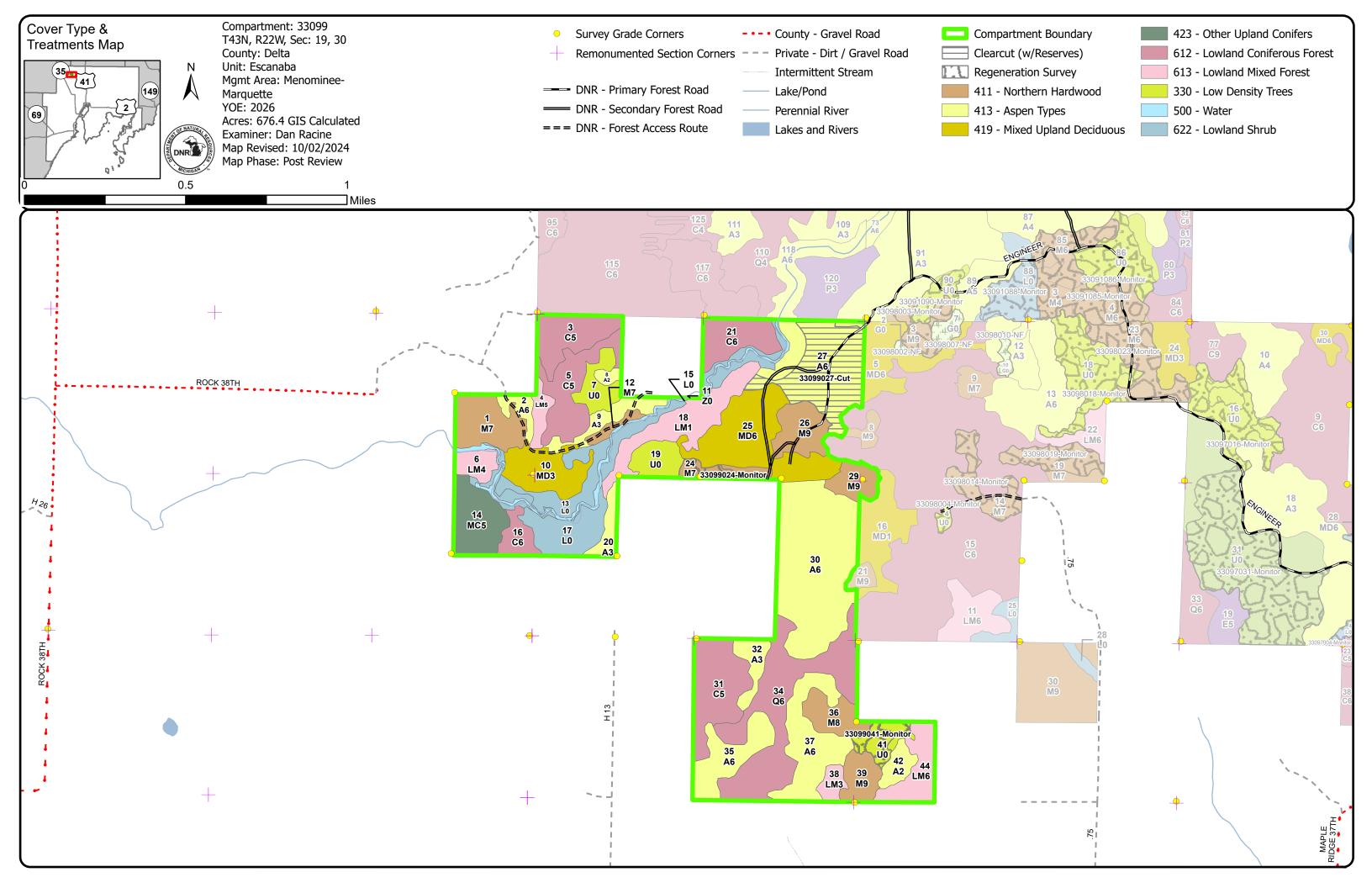
Additional Compartment Information:

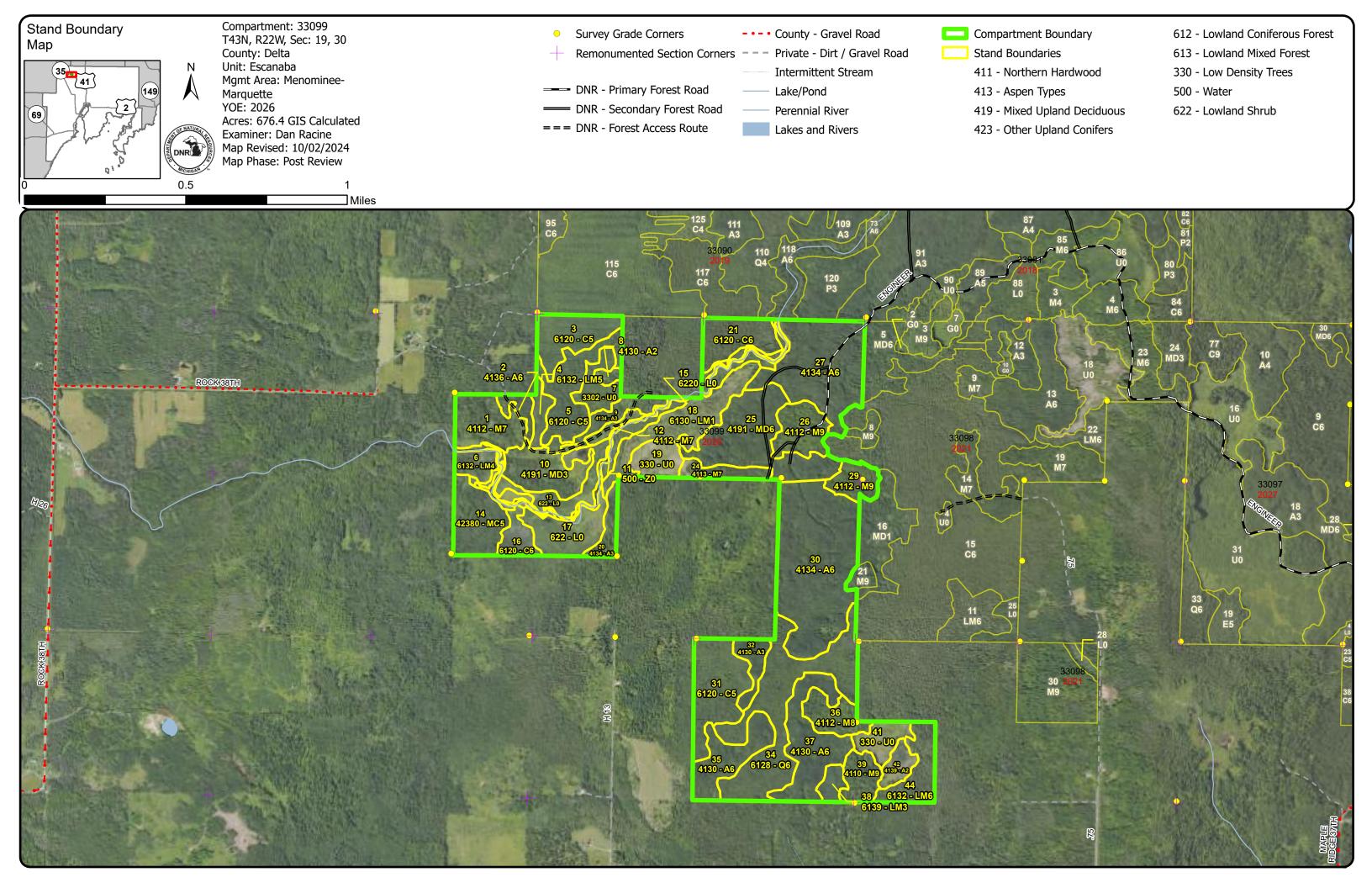
The following reports from the Inventory are attached:

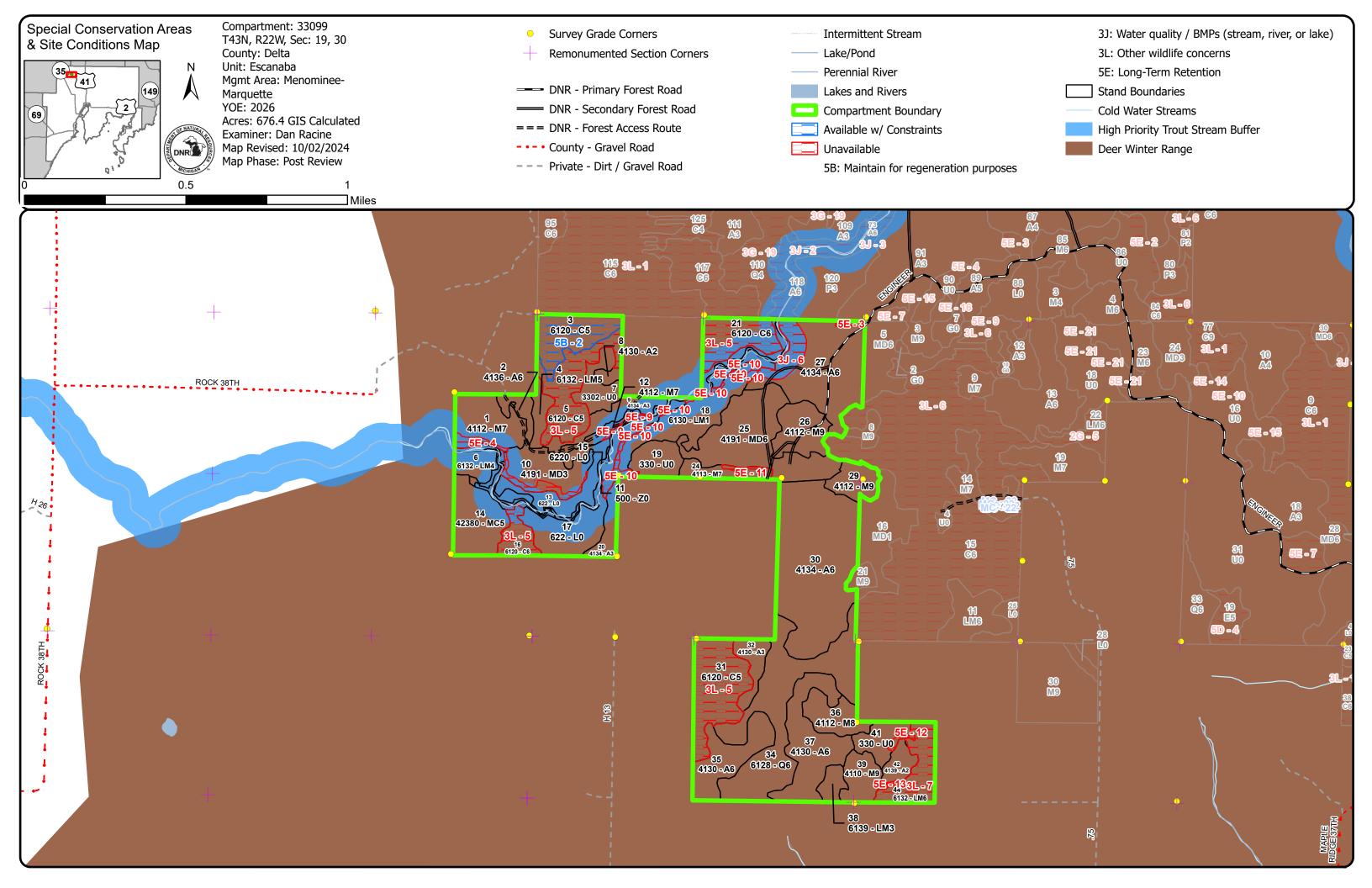
Total Acres by Cover Type and Age Class
Cover Type by Harvest Method
Proposed Treatments – No Limiting Factors
Proposed Treatments – With Limiting Factors
Stand Details (Forested and Nonforested)
Dedicated and Proposed Special Conservation Areas
Site Condition Details

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







Report 1 – Total Acres by Cover Type and Age Class

Escanaba Mgt. Unit Dan Racine: Examiner

Compartment 99 Year of Entry 2026



Age Class

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Aspen	0	7	12	70	75	49	0	0	0	0	0	0	0	0	0	0	0	0	210
Cedar	0	0	0	0	0	0	0	0	0	0	0	0	46	32	19	0	0	0	97
Low-Density Trees	30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	30
Lowland Conifers	0	0	0	0	56	0	0	0	0	0	0	0	0	0	0	0	0	0	56
Lowland Mixed Forest	0	27	0	5	0	0	0	0	0	0	5	7	16	0	0	0	0	0	60
Lowland Shrub	52	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	52
Mixed Upland Deciduous	0	20	0	0	43	0	0	0	0	0	0	0	0	0	0	0	0	0	63
Northern Hardwood	0	0	0	0	0	0	0	0	0	58	20	0	0	0	0	0	0	0	78
Upland Conifers	0	0	0	0	0	0	0	0	0	0	0	21	0	0	0	0	0	0	21
Water	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10
Total	92	54	12	75	174	49	0	0	0	58	25	28	62	32	19	0	0	0	677



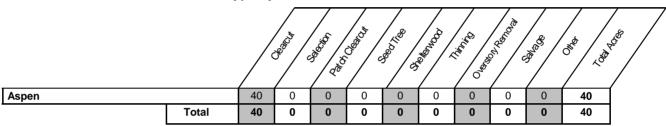
Report 2 – Treatment Summary

Escanaba Mgt. Unit

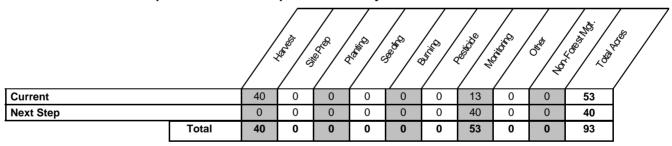
Compartment 99 Year of Entry: 2026 **Acres of Harvest Total Compartment Acres: 676**

> Commercial Harvest - 40 Harvests with Site Condition - 0 Next Step Harvest - 0 Habitat Cut - 0

Cover Type by Harvest Method



Proposed and Next Step Treatments by Method



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Compartment: 99

Year of Entry: 2026

	Treatment	Acres	Stand	Size	Stand	BA	Treatment	Treatment	Cover Type	Age	Habitat
I	Name		CoverType	Density	Age	Range	Type	Method	Objective	Structure	Cut
					1.5		- 71		,		

Proposed Treatments:

33099027-Cut 39.6 4134 - Aspen, Poletimber 45 Unspec Harvest Clearcut with 413 - Aspen Even-Aged No Spruce/Fir Well ified Retention

Prescription Clearcut with retention: Cut all trees 3 inches and greater. Retain approximately 10% of the sale area for retention including some in the

Specs: higher conifer areas in the northern part of the stand.

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Aspen, mixed upland conifer and deciduous species.

Regen:

Other Good access off the engineer road. The harvest will aid in the age class distribution of the aspen within the compartment and management Comment: area. Expect good regeneration of the acceptable regeneration species by the next re-inventory the next treatment period.

Site Condition:

Proposed Start Date: 10/1 /2025

Approved Treatments:

24	33099024-	4.6	4113 - R.Maple,	Sawtimber	84	51-80	Monitoring	Natural Regen	4119 - Mixed	Uneven-	No
	Monitor		Conifer	Poor				(Re-Inventory)	Northern	Aged	
									Hardwoods	_	

Prescription Monitor the regeneration of the acceptable regeneration species.

Specs:

Next Step **Treatments:**

Acceptable Rm, Sm, and other associated Hdwds.

Regen:

Other Percent to Treat = 100%

Comment:

Site Condition:

Proposed Start Date: 10/1 /2027

41 33099041-	8.7 330 - Low-Density Nonstocked	a 2023 Monitoring	Naturai Regen	4191 - Mixea	Even-Agea	INO
Monitor	Trees		(Re-Inventory)	Upland		

Deciduous with Conifer

<u>Prescription</u> Monitor the regeneration of the acceptable regeneration species.

Specs:

Next Step **Treatments:**

Acceptable Aspen, conifer and mixed deciduous species.

Regen:

Other Percent to Treat = 100%

Comment:

Site Condition:

Proposed Start Date: 10/1 /2027

Total Treatment 52.9 Acreage Proposed:

Report 4 – Site Conditions

Escanaba Mgt. Unit

Compartment: 99 Year of Entry: 2026



Dan Racine: Examiner

Availa	ability for	Managemer	nt					
Total	Acres	Acres Avail	Acres		Domina	nt Sit	e Con	ditions
Acres	Available	With Condition	Not Available		5B	3J	3L	5E
211	202	0	9	Aspen		8	0	1
96	0	19	77	Cedar	19		77	
30	29	0	1	Low-Density Trees			0	1
56	56	0	0	Lowland Conifers				
60	39	0	21	Lowland Mixed Forest			16	5
52	52	0	0	Lowland Shrub				
63	60	0	4	Mixed Upland Deciduous				4
78	72	0	6	Northern Hardwood			0	6
21	21	0	0	Upland Conifers				
10	10	0	0	Water				
676	540	19	117	Total Forested Acres	19	8	93	17
	80%	3%	17%	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
2	Available	5B: Maintain for regeneration purposes	19	Unspecified	Unspecified	Unspecified	Unspecified
(Comments:						
3	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
	Comments:						
4	Unavailable	5E: Long-Term Retention	6	Unspecified	Unspecified	Unspecified	Unspecified
(Comments:						

Report 4 – Site Conditions

Escanaba Mgt. Unit

Dan Racine: Examiner



5	Unavailable	3L: Other wildlife concerns	77	Unspecified	Unspecified	Unspecified	Unspecified
	Comments: High amount of no	rthern white cedar. Lack of treatr	nent d	ue to Deer Winter Range G	uidelines.		
6	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	8	Unspecified	Unspecified	Unspecified	Unspecified
	Comments:						
7	Unavailable	3L: Other wildlife concerns	16	Unspecified	Unspecified	Unspecified	Unspecified
	Comments:						
9	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
	Comments:						
10	Unavailable	5E: Long-Term Retention	5	Unspecified	Unspecified	Unspecified	Unspecified
	Comments:						
11	Unavailable	5E: Long-Term Retention	3	Unspecified	Unspecified	Unspecified	Unspecified
	Comments:						
12	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
	Comments:						
13	Unavailable	5E: Long-Term Retention	0	Unspecified	Unspecified	Unspecified	Unspecified
	Comments:						

Report 4 – Site Conditions

Escanaba Mgt. Unit

Dan Racine: Examiner

Compartment: 99 Year of Entry: 2026



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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				

Escanaba Mgt. Unit Compartment: 99
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	Туре	Description	ERA = Ecological Reference Area HCVA = High Conservation Value Area SCA = Special Conservation Area
SCA	Cold Water Stream	A coldwater stream has temperature and dissolved oxygen cond stocked trout populations and those of other coldwater fish speci to year. Coldwater streams in Michigan typically provide these configuration of groundwater to their stream flows. Such streams are establish trout resources by Fisheries Order 210.	es (e.g., slimy sculpin) to persist from year anditions due to substantial contributions
SCA	Habitat Area	An area that provide some specific need for the life cycle of wildli and Waterfowl Production Areas, deer wintering complexes in loo openings and savannas. Habitat areas are distinct from critical hendangered or threatened species (such as Kirtland's warbler or general in nature, are not primarily associated with threatened or covered by species recovery plans that are developed in cooperation.	wland conifer communities, grassland abitat designated for recovery of piping plover areas) in that they are more endangered species, and are not
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 documenties are ecologically and socially significant in their effect as aesthetics, habitat, bank stability, timber production, and their	e unique conditions adjacent to lakes, iversity of plants and wildlife. Riparian cts on water quality and quantity, as well

8 127

Balsam Fir

Compartment: 99 Year of Entry: 2026



Stan	d Level 4 Co	over Type	:	Size De	ensity	Acres \$	Stand Age B	A Range	Managed S	Site	General Comments			
1	4112 - Maple, Beecl	h, Cherry A	Association S	Sawtimb	er Poor	19.8	90	1-50	N/A		This stand was unit 1 of the North and West of Rapid completed in 2019			
	Canopy Species	% Cover	Size Class	DBH	I Age	Sub-Can	opy Species	Density	Avg. Height	Size	Other species include hemlock, yellow birch, and paper birch.			
	Red Maple	60	Log/Pole	10	90	Bals	am Fir	Medium	Variable	Sapling				
Ν	orthern White Cedar	5	Pole	8		Suga	r Maple	Medium	5 - 10 feet	Sapling				
	Sugar Maple	35	Log	10		Red	Maple	High	Variable	Sapling				
						Hazelnu	t (Beaked)	Medium	< 5 feet	Tall Shrub				
2	4136 - Aspen	, Mixed Co	nifer P	Poletimb	er Well	5.1	28 I	mmature	N/A		Aspen and red maple regen under residual red maple, and balsam fir.			
	Canopy Species	% Cover	Size Class	DBH	I Age	Sub-Can	opy Species	Density	Avg. Height	Size				
	Balsam Poplar	20	Pole/Sapling	6		Quakir	ng Aspen	Medium	10 - 20 feet	Sapling				
	Balsam Fir	10	Pole	8		Red	Maple	Medium	10 - 20 feet	Sapling				
Ν	orthern White Cedar	10	Pole	8		Tag	Alder	Low	< 5 feet	Tall Shrub				
	Quaking Aspen	40	Pole/Sapling	6	28	Bals	am Fir	Medium	10 - 20 feet	Sapling				
	Yellow Birch	10	Pole/Sapling	7							•			
	Red Maple	10	Pole/Sapling	7										
3	6120 - Lov Canopy Species		Size Class		r Mediun I Age		137 U opy Species	nspecified Density	N/A Avg. Height	Size	This stand is a mix of two aged lowland conifer. It was harvested in 19 using the strip cut method and again in 1996 using the seed tree meth little cedar regen, more tamarack and spruce. Stand in adjacent			
	Black Spruce	20	Pole/Sapling	6		Tan	narack	Medium	5 - 10 feet	Sapling	compartment (90) to north has significant regen of cedar.			
	Tamarack	20	Pole/Sapling	6		Michig	gan Holly	Medium	5 - 10 feet	Tall Shrub				
N	orthern White Cedar	60	Pole	8	137	Black	Spruce	Low	< 5 feet	Sapling				
4	6132 - Mixed Lowla	nd Forest v	with Cedar Pol	letimbe	r Mediun	n 5.4	90	1-50	N/A		Stand is scattered B.ash, B. fir, aspen, balm, and a few Paper birch.			
	Canopy Species	% Cover	Size Class	DBH	I Age	Sub-Can	opy Species	Density	Avg. Height	Size	North end contains more of the above species with lowland brush (tag alder and michigan holly.			
	Balsam Fir	10	Pole	8		Michig	gan Holly	High	10 - 20 feet	Tall Shrub	Mix of 25-50% and 50-75% canopy closure.			
	Black Ash	40	Pole	5	90	Tag	Alder	Medium	10 - 20 feet	Tall Shrub				
	Quaking Aspen	5	Pole	8		Bals	am Fir	Low	< 5 feet	Sapling				
N	orthern White Cedar	35	Pole	7										
	Balsam Poplar	5	Pole	8										
	Paper Birch	5	Pole	6										
5	6120 - Lov	vland Ceda	ar Pol	letimbe	r Mediun	n 23.8	127 U	nspecified	N/A		The Tamarack areas are more open with more holly and tag alder			
	Canopy Species	% Cover	Size Class	DBH	l Age	Sub-Can	opy Species	Density	Avg. Height	Size	nunderstory. The more cedar areas of the stand have is more closed canopy, but the			
	Black Spruce	5	Pole	8		Michig	ran Holly	High	5 - 10 feet	Tall Shrub				
					1.1		garriony	1 11911	0 101000	ran Omaz	Stand is more of a 1-4 stand overall.			
	Tamarack	45	Pole	8			Spruce	Low	< 5 feet	Sapling	There is paper birch component in stand, but only a trace.			

Low

< 5 feet

Northern White Cedar

50

Pole

Sapling



Stand	d Level 4 Co	over Type		Size De	ensity	Acres	Stand Age	BA Range	Managed \$	Site	General Comments
6	6132 - Mixed Lowla	nd Forest v	with Cedar	Poletimb	er Pooi	r 6.9	101	Unspecified	N/A		More of an E type to the east and More of C w/ E to west.
	Canopy Species	% Cover	Size Class	DBI	H Age	Sub-Can	opy Specie	s Density	Avg. Height	Size	
No	orthern White Cedar	45	Pole	8	101	Tag	g Alder	Medium	10 - 20 feet	Tall Shrub	
	Balsam Poplar	5	Pole	8		Bla	ck Ash	Medium	10 - 20 feet	Sapling	
	White Spruce	10	Pole	8		Balsa	m Poplar	Medium	10 - 20 feet	Sapling	
	Black Ash	40	Pole	6							
7	3302 - Low Den:	sity Conife	r Trees	Nonst	ocked	10.1		Unspecified	No		Michigan Holly and tagalder with scattered spruce, tamarack, paper birch, and red maple. sometimes the trees are in patches but mostly scattered trees. Will probably convert to T in the future.
8	4130	- Aspen		Sapling	Medium	2.1	15	Unspecified	N/A		Harvested in 2008. Filling in with A, P, Rm. Open in some areas.
	Canopy Species	% Cover	Size Class	DBI	H Age						
	Balsam Fir	5	Sapling	1							
	Balsam Poplar	10	Sapling	1							
	Quaking Aspen	75	Sapling	1	15						
	Red Maple	10	Sapling	1							
9	4134 - Aspe	en, Spruce/	Fir	Saplin	g Well	9.9	15	Immature	N/A		Stand harvested in 2008, residual balsam fir, cedar, red maple, black
	Canopy Species	% Cover	Size Class		-l Age	Sub-Can	opy Specie	s Density	Avg. Height	Size	ash. The stand is filling in with aspen, balsam fir, red maple and white
	Black Ash	10	Sapling	1	. Age		e Spruce	Medium	Variable	Sapling	spruce.
	Paper Birch	5	Sapling	2			sam Fir	Medium	Variable	Sapling	
	Red Maple	15	Sapling	2		20.1			14.145.5	oapg	
	White Spruce	10	Pole/Saplin								
No	orthern White Cedar	10	Pole	7							
	Quaking Aspen	40	Sapling	2	15						
	Balsam Fir	10	Pole/Saplin								
10	4191 - Mixed Upla Co	nifer		Saplin		20.2	5	Immature	N/A		This stand was unit 2 of the North and west of Rapid sale completed in 2019. Green trees were marked and minor component species left.
	Canopy Species		Size Class		H Age						
	Hemlock	5	Pole	9							
	Red Maple	50	Sapling	1	5						
	Yellow Birch	5	Log/Pole	10							
No	orthern White Cedar	15	Pole	9							
	Quaking Aspen	25	Sapling	1							
11	500 -	Water		Nonst	ocked	9.7			No		Rapid River.



tanc	Level 4 Co	over Type		Size De	nsity	Acres	Stand Age E	BA Range	Managed \$	Site	General Comments
12	4112 - Maple, Beec	h, Cherry A	Association	Sawtimb	er Poor	3.4	87	1-50	N/A		This stand was unit 3 of the North and West of Rapid sale completed 2109. All trees cut except hemlock, cedar and green marked trees.
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Car	nopy Species	Density	Avg. Height	Size	2109. All trees cut except hermock, cedar and green marked trees.
	Paper Birch	5	Log/Pole	10		Bal	sam Fir	Medium	< 5 feet	Sapling	
	Red Maple	85	Log/Pole	10	87	Whit	e Spruce	Low	Variable	Sapling	
	Yellow Birch	10	Log/Pole	10		Red	d Maple	Medium	< 5 feet	Sapling	
13	622 - Low	vland Shrub)	Nonsto	cked	14.3			No		Lowland brush with scattered ash.
14	42380 - Non Pine U	Ipland Coni iduous	ifer, Mixed P	oletimbei	Mediun	n 20.7	101	1-50	N/A		This stand was treated under the "Beaverr Meadows Hardwood Sale, #330429201 in 1995. All the cedar was left and the smal hardwod isla
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Car	nopy Species	Density	Avg. Height	Size	was select cut. Clear cut this stand in 2 treatment periods, Harvesting the timber, the Cedar is a component of the stand and it is restricting
	Balsam Poplar	15	Pole	5		Bal	sam Fir	Medium	Variable	Sapling	regen growth, leave some pockets where it is heavy but cut the rest the
	Balsam Fir	5	Pole	7		Red	d Maple	High	10 - 20 feet	Sapling	is scattered.
	White Spruce	20	Pole	7		Quak	ing Aspen	High	10 - 20 feet	Sapling	
	Red Maple	10	Pole	10		Whit	e Spruce	Medium	Variable	Sapling	
No	rthern White Cedar	35	Pole	9	101		m Poplar	High	10 - 20 feet	Sapling	
15	6220 - A	lder/willow		Nonsto	cked	19.2			No		Lowland brush with scattered balsam fir and ash along the Rapid Rive
16	6120 - Lov	wland Ceda	ar	Poletimb	er Well	7.8	129		N/A		Center of stand and to the east 80-90% od the cedar is dead,
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Car	nopy Species	Density	Avg. Height	Size	
	Balsam Fir	5	Pole	8		Bal	sam Fir	Low	< 5 feet	Sapling	
	White Spruce	5	Pole	9							
	Black Ash	5	Pole	5							
No	rthern White Cedar	80	Pole	9	129						
	Black Spruce	5	Pole	9							
17	622 - Low	vland Shrub)	Nonsto	cked	18.5			No		Old beaver flooding. Dead Cedar with Lowland brush and open areas marsh grass.
18	6130 - Fir, <i>i</i>	Aspen, Mar	ple	Sapling	Poor	27.2	1	Immature	N/A		This stand was cut under the East of Rapid sale. Unit 1.
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Car	nopy Species	Density	Avg. Height	Size	
	Red Maple	10	Sapling	1		Та	g Alder	Medium	5 - 10 feet	Tall Shrub	
	Black Ash	15	Sapling	1				'			•
	Balsam Poplar	30	Sapling	1							
No	rthern White Cedar	10	Pole	9							
	Balsam Fir	35	Sapling	1	1						
				-							



Stand	i Level 4 C		Size Density	Acres	cres Stand Age BA Rang		Managed 9	Site	General Comments	
20	4134 - Aspen, Spruce/Fir			Sapling Well	6.6	26	1-50	N/A		Harvested in 1997. In places heavy to balsam fir and in places heavy to Aspen/balm.
	Canopy Species	% Cover	Size Class	DBH Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	Aspen/ballin.
	Quaking Aspen	40	Sapling	3 27	Haze	elnut (Spp.)	Low	5 - 10 feet	Tall Shrub	
	Balsam Fir	30	Pole	8	T	ag Alder	Medium	10 - 20 feet	Tall Shrub	
	Red Maple	10	Pole	9	Ba	ılsam Fir	Medium	10 - 20 feet	Sapling	
	Balsam Poplar	20	Sapling	3	Re	ed Maple	Low	Variable	Sapling	
21	6120 - Lowland Cedar			Poletimber Wel	l 16.9	115		N/A		Cedar with mix of other spp. quality of cedar is poor, as you move east through stand you get more Fb,P,Wb,ash.
	Canopy Species	% Cover	Size Class	DBH Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	through stand you get more Fb,F,Wb,ash.
	Paper Birch	10	Pole	6	T	ag Alder	Medium	5 - 10 feet	Tall Shrub	
	Balsam Fir	10	Pole	7	Bla	ck Spruce	Low	< 5 feet	Sapling	
	Balsam Poplar	5	Pole	6						
No	rthern White Cedar	70	Pole	7 115						
	Black Ash	3	Pole	5						
	Black Spruce	2	Pole	7						
24	4113 - R.M	laple, Conif	er	Sawtimber Poor	r 7.5	84	51-80	N/A		This stand was unit 3 of the East of Rapid sale. Completed in 2022.
	Canopy Species	% Cover	Size Class	DBH Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	
No	rthern White Cedar	20	Pole	9	Hazeli	nut (Beaked)	Medium	5 - 10 feet	Tall Shrub	
	Red Maple	65	Log	10 84	Re	ed Maple	Low	5 - 10 feet	Sapling	
	Sugar Maple	10	Log	10	Wh	te Spruce	Low	5 - 10 feet	Sapling	
	Yellow Birch	5	Log/Pole	10						
25	4191 - Mixed Upland Deciduous with Conifer		Poletimber Wel	l 43.0	33	81-110	N/A		Aspen pole stand with some saplings.	
	Canopy Species	% Cover	Size Class	DBH Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	
	Black Ash	10	Pole	5	Wh	te Spruce	Medium	5 - 10 feet	Sapling	
	Balsam Poplar	30	Pole	7	В	ack Ash	Medium	5 - 10 feet	Sapling	
	Black Cherry	5	Pole	5						
	White Spruce	10	Pole							
				5						
	Balsam Fir	10	Pole	5						
		10								
26	Balsam Fir	35	Pole Pole	5	l 15.3	84	81-110	N/A		Harvested in 2011, Engineer hdwd sale. Where stand was opened up
	Balsam Fir Quaking Aspen	35 h, Cherry A	Pole Pole	5 7 34 Sawtimber Wel		84	81-110 Density	N/A Avg. Height	Size	Harvested in 2011, Engineer hdwd sale. Where stand was opened up there is good maple regen recruiting into stand.
	Balsam Fir Quaking Aspen 4112 - Maple, Beed	35 h, Cherry A	Pole Pole	5 7 34 Sawtimber Wel	Sub-Ca				Size Sapling	
	Balsam Fir Quaking Aspen 4112 - Maple, Beec Canopy Species	35 h, Cherry A	Pole Pole ssociation Size Class	5 7 34 Sawtimber Wel DBH Age	Sub-Ca	nopy Species	Density	Avg. Height		
	Balsam Fir Quaking Aspen 4112 - Maple, Beec Canopy Species Sugar Maple	35 h, Cherry A	Pole Pole ssociation Size Class	5 7 34 Sawtimber Wel DBH Age 12 85	Sub-Ca	nopy Species	Density High	Avg. Height 10 - 20 feet	Sapling	
	Balsam Fir Quaking Aspen 4112 - Maple, Beec Canopy Species Sugar Maple Red Maple	35 h, Cherry A % Cover 60 35	Pole Pole Association Size Class Log Log	5 7 34 Sawtimber Wel DBH Age 12 85 12	Sub-Ca	nopy Species onwood Beech	Density High Medium	Avg. Height 10 - 20 feet 5 - 10 feet	Sapling Sapling	



Stand	d Level 4 Co	over Type		Size D	ensity	Acres	Stand Age	BA Range	Managed \$	Site	General Comments
27	4134 - Aspen, Spruce/Fir			Poletim	oer Well	48.5	45	Unspecified	N/A		Treated in 1980, Bee Sting Sale.
	Canopy Species	% Cover	Size Class	DBI	H Age	Sub-Ca	nopy Specie	es Density	Avg. Height	Size	
	Quaking Aspen	45	Pole	9	45	Ва	lsam Fir	High	5 - 10 feet	Sapling	
	Red Maple	10	Pole	8		Hazeln	ut (Beaked)	High	< 5 feet	Tall Shrub	
	Balsam Poplar	10	Pole	8		Whi	te Spruce	Medium	5 - 10 feet	Sapling	
	Black Cherry	5	Pole	8		Re	d Maple	Low	5 - 10 feet	Sapling	
	Balsam Fir	20	Pole	9							_
	White Spruce	10	Pole	8							
29	4112 - Maple, Beec	h, Cherry A	ssociation S	Sawtimber Well		9.4	9.4 84 81-110		N/A		Thinned in 2011, Engineer Hdwd sale. Primarily Red maple stand. stand
	Canopy Species	% Cover	Size Class	DBI	H Age	Sub-Ca	nopy Specie	s Density	Avg. Height Size		has maple regen and deer have browsed it.
	Red Maple	75	Log	13	85	Hazeln	ut (Beaked)	Medium	< 5 feet	Tall Shruk	
	Sugar Maple	20	Log	13		Re	d Maple	Medium	< 5 feet	Sapling	
	Hemlock	5	Log	11		Whi	te Spruce	Low	< 5 feet	Sapling	
				'	<u> </u>	Sug	ar Maple	Medium	< 5 feet	Sapling	
30	4134 - Aspen, Spruce/Fir Poletimbe			oer Well	74.5	33	Immature	N/A		Treated in 1990, Flying Squirrel Hdwds. Mix of high and low ground, mostly high with some low.	
	Canopy Species	% Cover	Size Class	DBI	H Age	Sub-Ca	nopy Specie	es Density	Avg. Height	Size	mosity flight with some low.
	Black Cherry	5	Pole	6		Re	d Maple	Medium	< 5 feet	Sapling	
	Balsam Poplar	10	Pole/Sapling	5		Whi	te Spruce	Medium	< 5 feet	Sapling	
	Red Maple	10	Pole/Sapling	5		Ва	lsam Fir	Medium	< 5 feet	Sapling	
	Quaking Aspen	40	Pole/Sapling	9 6	34						
	Balsam Fir	10	Pole	5							
	White Spruce	10	Pole	5							
	Black Ash	10	Pole	5							
	Paper Birch	5	Pole	7							
31	6120 - Lov	wland Ceda	ır Po	oletimbe	r Mediur	n 28.7	112		N/A		Cedar with ash. Open areas to the north and west with higher density cedar to the southeast.
	Canopy Species	% Cover	Size Class	DBI	H Age	Sub-Ca	nopy Specie	es Density	Avg. Height	Size	ocual to the southeast.
	Black Ash	20	Pole	5		Та	ıg Alder	High	5 - 10 feet	Tall Shrub	
	Balsam Fir	10	Pole	6		Bla	ack Ash	High	5 - 10 feet	Sapling	
	Black Spruce	10	Pole	6							
No	orthern White Cedar	60	Pole	7	113						
32	4130	- Aspen		Saplin	g Well	7.9	26		N/A		
	Canopy Species	% Cover	Size Class	DBI	H Age	Sub-Ca	nopy Specie	s Density	Avg. Height	Size	
	Quaking Aspen	65	Sapling/Pole	4	27	Re	d Maple	High	5 - 10 feet	Sapling	
	Balsam Fir	10	Sapling/Pole	4		Hazeln	ut (Beaked)	Medium	< 5 feet	Tall Shruk	
	White Spruce	5	Canling/Dala								
	write Spruce	5	Sapling/Pole	9 4							



Stand	Level 4 Co	over Type	S	ize De	nsity	Acres	Stand Age B	A Range	Managed S	Site	General Comments
34	6128 - Lowland Coniferous, Mixed P Deciduous			Poletimber Well		55.8 39			N/A		Stand was harvested in 1986. Low and high ground mix. Mix of timber, with young mixed trees with older spruce and cedar. Patchy timber, small
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Car	opy Species	Density	Avg. Height	Size	diameter 2-3 sticks with some 4-5 stick. Nice cedar patches in the north end and another in the central part of stand, too small to map out.
No	rthern White Cedar	20	Pole	7		Tag	g Alder	High	5 - 10 feet	Tall Shrub	cha and another in the central part of stand, too small to map out.
	Black Ash	20	Pole	5		Michi	gan Holly	Medium	5 - 10 feet	Tall Shrub	
	Black Spruce	20	Pole	7		Bla	ck Ash	Medium	10 - 20 feet	Sapling	
	Balsam Fir	25	Pole	7	40						
	Quaking Aspen	5	Pole	5							
35	4130	- Aspen	Po	oletimb	er Well	19.8	26 I	mmature	N/A		Stand treated in 1997.
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Car	opy Species	Density	Avg. Height	Size	
	White Spruce	2	Pole/Sapling	5		Red	d Maple	Medium	5 - 10 feet	Sapling	
	Quaking Aspen	70	Pole/Sapling	5	27	Hazelni	ut (Beaked)	Medium	< 5 feet	Tall Shrub	
	Balsam Poplar	5	Sapling	4		Bal	sam Fir	Medium	5 - 10 feet	Sapling	
	Balsam Fir	3	Pole/Sapling	5							
	Red Maple	20	Sapling	4							
36	4112 - Maple, Beech, Cherry Association Canopy Species										
36							87	51-80 Density	Ava. Height	Size	This stand was cut under the East of Rapid sale unit 4. Ash drainage le out of the stand. Decent sugar maple regeneration within the stand.
36	Canopy Species Sugar Maple				Mediun Age	Sub-Car	87 aopy Species e Spruce	Density	Avg. Height < 5 feet	Size Sapling	,
36	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Car White	opy Species	Density	Avg. Height	Sapling	'
36	Canopy Species Sugar Maple	% Cover 65	Size Class Log/Pole Log/Pole	DBH	Age	Sub-Car White Bal	nopy Species e Spruce	Density Low	Avg. Height < 5 feet	Sapling Sapling	·
36	Canopy Species Sugar Maple Red Maple	% Cover 65 30	Size Class Log/Pole	10 10	Age	Sub-Car White Bals Suga	aopy Species e Spruce sam Fir	Density Low Low	Avg. Height < 5 feet < 5 feet	Sapling	'
36	Canopy Species Sugar Maple Red Maple Black Ash Quaking Aspen	% Cover 65 30 3	Size Class Log/Pole Log/Pole Sapling/Pole Log	10 10 4 12	Age	Sub-Car White Bals Suga	nopy Species e Spruce sam Fir ar Maple nwood	Low Low Medium	Avg. Height < 5 feet < 5 feet Variable	Sapling Sapling Sapling	
	Canopy Species Sugar Maple Red Maple Black Ash Quaking Aspen	% Cover 65 30 3 2 - Aspen	Size Class Log/Pole Log/Pole Sapling/Pole Log	10 10 4 12	Age 88	Sub-Car White Ball Suga Iro	nopy Species e Spruce sam Fir ar Maple nwood	Low Low Medium Medium	Avg. Height < 5 feet < 5 feet Variable 10 - 20 feet	Sapling Sapling Sapling	
	Canopy Species Sugar Maple Red Maple Black Ash Quaking Aspen 4130	% Cover 65 30 3 2 - Aspen	Size Class Log/Pole Log/Pole Sapling/Pole Log	10 10 4 12	Age 88 er Well	Sub-Car White Ball Sugg Iro 30.3 Sub-Car	nopy Species e Spruce sam Fir ar Maple nwood	Density Low Low Medium Medium	Avg. Height < 5 feet < 5 feet Variable 10 - 20 feet	Sapling Sapling Sapling Sapling	'
	Canopy Species Sugar Maple Red Maple Black Ash Quaking Aspen 4130 Canopy Species	% Cover 65 30 3 2 - Aspen % Cover	Size Class Log/Pole Log/Pole Sapling/Pole Log	DBH 10 10 4 12 DIEtimb	Age 88 er Well	Sub-Car White Ball Suga Iro 30.3 Sub-Car Rec	propy Species Sam Fir Sar Maple San Model Sar Maple Sar Model Sar	Low Low Medium Medium mmature Density	Avg. Height < 5 feet < 5 feet Variable 10 - 20 feet N/A Avg. Height	Sapling Sapling Sapling Sapling	'
	Canopy Species Sugar Maple Red Maple Black Ash Quaking Aspen 4130 Canopy Species Balsam Poplar	% Cover 65 30 3 2 - Aspen % Cover 10	Size Class Log/Pole Log/Pole Sapling/Pole Log Pole Size Class Pole	DBH 10 10 4 12 Dletimb DBH 5	Age 88 er Well	Sub-Car White Bale Suga Iro 30.3 Sub-Car Rec Hazelne	propy Species Se Spruce Sam Fir Sar Maple Showood 29 Interpropy Species St Maple	Low Low Medium Medium mmature Density Low	Avg. Height < 5 feet < 5 feet Variable 10 - 20 feet N/A Avg. Height 5 - 10 feet	Sapling Sapling Sapling Sapling Sapling Sapling	,
	Canopy Species Sugar Maple Red Maple Black Ash Quaking Aspen 4130 Canopy Species Balsam Poplar Balsam Fir	% Cover 65 30 3 2 - Aspen % Cover 10 5	Size Class Log/Pole Log/Pole Sapling/Pole Log Pole Size Class Pole Pole	DBH 10 10 4 12 Dletimb 5 5 5	Age 88 er Well	Sub-Car White Bale Suga Iro 30.3 Sub-Car Rec Hazelne	propy Species e Spruce sam Fir ar Maple nwood 29 Inopy Species d Maple ut (Beaked)	Low Low Medium Medium Medium Medium Medium Medium Low Low Low	Avg. Height < 5 feet < 5 feet Variable 10 - 20 feet N/A Avg. Height 5 - 10 feet 5 - 10 feet	Sapling Sapling Sapling Sapling Sapling Size Sapling Tall Shrub	,
	Canopy Species Sugar Maple Red Maple Black Ash Quaking Aspen 4130 Canopy Species Balsam Poplar Balsam Fir Paper Birch	% Cover 65 30 3 2 - Aspen % Cover 10 5 5	Size Class Log/Pole Log/Pole Sapling/Pole Log Pole Size Class Pole Pole	DBH 10 10 4 12 Dletimb 5 5 5	er Well	Sub-Car White Bale Suga Iro 30.3 Sub-Car Rec Hazelne	propy Species e Spruce sam Fir ar Maple nwood 29 Inopy Species d Maple ut (Beaked)	Low Low Medium Medium Medium Medium Medium Medium Low Low Low	Avg. Height < 5 feet < 5 feet Variable 10 - 20 feet N/A Avg. Height 5 - 10 feet 5 - 10 feet	Sapling Sapling Sapling Sapling Sapling Sapling Tall Shrub	·
	Canopy Species Sugar Maple Red Maple Black Ash Quaking Aspen 4130 Canopy Species Balsam Poplar Balsam Fir Paper Birch Quaking Aspen	% Cover 65 30 3 2 - Aspen % Cover 10 5 70 10	Size Class Log/Pole Log/Pole Sapling/Pole Log Pole Size Class Pole Pole Pole Pole Pole	DBH 10 10 4 12 Dletimb 5 5 5 5 5 5 5 5	er Well Age	Sub-Car White Bale Suga Iro 30.3 Sub-Car Rec Hazelne	propy Species e Spruce sam Fir ar Maple nwood 29 Inopy Species d Maple ut (Beaked)	Low Low Medium Medium Medium Medium Medium Medium Low Low Low	Avg. Height < 5 feet < 5 feet Variable 10 - 20 feet N/A Avg. Height 5 - 10 feet 5 - 10 feet	Sapling Sapling Sapling Sapling Sapling Sapling Tall Shrub	out of the stand. Decent sugar maple regeneration within the stand. Extremely thick Tamarack and black spruce regen with lowland brush.
37	Canopy Species Sugar Maple Red Maple Black Ash Quaking Aspen 4130 Canopy Species Balsam Poplar Balsam Fir Paper Birch Quaking Aspen Red Maple	% Cover	Size Class Log/Pole Log/Pole Sapling/Pole Log Pole Size Class Pole Pole Pole Pole Pole	DBH 10 10 4 12 Dletimb 5 5 5 5 5 5 Sapling	er Well Age	Sub-Car White Ball Suga Iro 30.3 Sub-Car Rec Hazelnt Ball	acopy Species e Spruce sam Fir ar Maple nwood 29 Inopy Species d Maple ut (Beaked) sam Fir	Density Low Low Medium Medium mmature Density Low Low Low	Avg. Height < 5 feet < 5 feet Variable 10 - 20 feet N/A Avg. Height 5 - 10 feet 5 - 10 feet	Sapling Sapling Sapling Sapling Sapling Sapling Tall Shrub	out of the stand. Decent sugar maple regeneration within the stand.
37	Canopy Species Sugar Maple Red Maple Black Ash Quaking Aspen 4130 Canopy Species Balsam Poplar Balsam Fir Paper Birch Quaking Aspen Red Maple 6139 - Mixed	% Cover	Size Class Log/Pole Log/Pole Sapling/Pole Log Pole Size Class Pole Pole Pole Pole Pole Pole Pole Pole	DBH 10 10 4 12 Dletimb 5 5 5 5 5 5 Sapling	er Well 30 Well	Sub-Car White Ball Suga Iro 30.3 Sub-Car Rec Hazelne Ball	propy Species a Spruce asam Fir ar Maple anwood 29 Inopy Species at Maple aut (Beaked) asam Fir	Density Low Low Medium Medium mmature Density Low Low Low Low	Avg. Height < 5 feet < 5 feet Variable 10 - 20 feet N/A Avg. Height 5 - 10 feet 5 - 10 feet 5 - 10 feet	Sapling Sapling Sapling Sapling Size Sapling Tall Shrub Sapling	out of the stand. Decent sugar maple regeneration within the stand. Extremely thick Tamarack and black spruce regen with lowland brush.
37	Canopy Species Sugar Maple Red Maple Black Ash Quaking Aspen 4130 Canopy Species Balsam Poplar Balsam Fir Paper Birch Quaking Aspen Red Maple 6139 - Mixed Canopy Species	% Cover 65 30 3 2 - Aspen % Cover 10 5 70 10 Lowland Fo	Size Class Log/Pole Log/Pole Sapling/Pole Log Pole Size Class Pole Pole Pole Pole Size Class Size Class	DBH 10 10 4 12 Deletimb 5 5 5 5 5 Sapling DBH	er Well 30 Well	Sub-Car White Ball Suga Iro 30.3 Sub-Car Rec Hazelne Ball 4.7 Sub-Car	propy Species a Spruce asam Fir ar Maple anwood 29 Inopy Species d Maple at (Beaked) asam Fir 29 Inopy Species	Density Low Medium Medium Density Low Low Low Low Low Density	Avg. Height < 5 feet < 5 feet Variable 10 - 20 feet N/A Avg. Height 5 - 10 feet 5 - 10 feet 7 N/A Avg. Height Avg. Height	Sapling Sapling Sapling Sapling Size Sapling Tall Shrub Sapling	out of the stand. Decent sugar maple regeneration within the stand. Extremely thick Tamarack and black spruce regen with lowland brush.
37	Canopy Species Sugar Maple Red Maple Black Ash Quaking Aspen 4130 Canopy Species Balsam Poplar Balsam Fir Paper Birch Quaking Aspen Red Maple 6139 - Mixed Canopy Species Black Spruce	% Cover 65 30 3 2 - Aspen % Cover 10 5 70 10 Lowland Fe % Cover 20	Size Class Log/Pole Log/Pole Sapling/Pole Log Pole Size Class Pole Pole Pole Pole Size Class Size Class	DBH 10 10 4 12 Deletimb 5 5 5 5 5 5 DBH 3	er Well Age 30 Well Age	Sub-Car White Ball Suga Iro 30.3 Sub-Car Rec Hazelnt Ball 4.7 Sub-Car Tag	a spruce sam Fir ar Maple nwood 29 I sopy Species d Maple ut (Beaked) sam Fir 29 sopy Species d Maple sam Fir	Density Low Medium Medium Medium Density Low Low Low 1-50 Density Low Low	Avg. Height < 5 feet < 5 feet Variable 10 - 20 feet N/A Avg. Height 5 - 10 feet 5 - 10 feet N/A Avg. Height 10 - 20 feet	Sapling Sapling Sapling Sapling Size Sapling Tall Shrub Sapling	out of the stand. Decent sugar maple regeneration within the stand. Extremely thick Tamarack and black spruce regen with lowland brush.
37	Canopy Species Sugar Maple Red Maple Black Ash Quaking Aspen 4130 Canopy Species Balsam Poplar Balsam Fir Paper Birch Quaking Aspen Red Maple 6139 - Mixed Canopy Species Black Spruce Tamarack	% Cover 65 30 3 2 - Aspen % Cover 10 5 70 10 Lowland Fe 20 35	Size Class Log/Pole Log/Pole Sapling/Pole Log Pole Size Class Pole Pole Pole Pole Size Class Pole Pole Sole Pole Pole Size Class Sapling Sapling/Pole	DBH 10 10 4 12 Deletimb 5 5 5 5 5 5 Sapling DBH 3 4	er Well Age 30 Well Age	Sub-Car White Ball Suga Iro 30.3 Sub-Car Rec Hazelnt Ball 4.7 Sub-Car Tag	propy Species a Spruce asam Fir ar Maple anwood 29 Inopy Species d Maple at (Beaked) asam Fir 29 appy Species g Alder k Spruce	Density Low Medium Medium Medium Density Low	Avg. Height < 5 feet < 5 feet Variable 10 - 20 feet N/A Avg. Height 5 - 10 feet 5 - 10 feet	Sapling Sapling Sapling Sapling Size Sapling Tall Shrub Sapling Size Tall Shrub Sapling	out of the stand. Decent sugar maple regeneration within the stand. Extremely thick Tamarack and black spruce regen with lowland brush.



Stand	Level 4 Cover Type		Type Size Density		Acres Stand Age BA Range			Managed Site		General Comments			
39	4110 - Sugar Maple Association			Sawtimber Well		10.4			This stand was cut under the East of Rapid sale units 7 and 8 completed				
	Canopy Species	% Cover Size Cla		DBH	Age	Sub-Ca	nopy Species	es Density	Avg. Height	Size	in 2021. The west side has decent maple regeneration from prior to sale and some from post sale. The east side has maple stump sprouting		
	Sugar Maple	80	Log/Pole	11	88	Ва	lsam Fir	Low	5 - 10 feet	Sapling	along the stand 42 line.		
	Red Maple	20	Log/Pole	10		Sug	ar Maple	High	Variable	Sapling			
41	330 - Low-Density Trees Nonstocked			9.7	2023		4319 - Mixed Upla	and Forest	This stand was cut under the East of Rapid sale unit 5. Completed in 2021. Some stump sprouting and scattered regen. Continue to monitor the next regen period.				
42	4139 - Aspen, Mixed Deciduous			Sapling N		6.5	2	Immature	N/A		This stand was cut under the East of Rapid sale completed in 2021. A few open areas but close to 75% canopy closure. Aspen regen to the		
	Canopy Species	% Cover	Size Class	DBH	Age						east and balm to the west and lower areas. Maple stump sprouting with		
	Quaking Aspen	50	Sapling	1	3						minimal browsing.		
	Balsam Poplar	30	Sapling	1									
	Sugar Maple	10	Sapling	1									
	Red Maple	10	Sapling	1									
44	6132 - Mixed Lowla	and Forest v	with Cedar	Poletimb	er Well	15.6	114	51-80	N/A		Lowland with balsam fir upland ridge.		
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Ca	nopy Species	Density	Avg. Height	Size			
	Black Ash	15	Pole	9		Ва	lsam Fir	Low	5 - 10 feet	Sapling			
	Balsam Poplar	15	Pole	9		Bla	ack Ash	Low	10 - 20 feet	Pole			
	Red Maple	15	Log	11							•		
No	rthern White Cedar	35	Pole	9	115								
	Balsam Fir	20	Pole	8									