

Compartment Review Presentation

Shingleton Forest Management Unit

Compartment 41196 Entry Year 2027 Acreage: 1,259 County: Alger

Management Area: Seney Lake Plain

Stand Examiner: Steve Touvila

Legal Description:

T46N R17W Sections 32 and 33

Identified Planning Goals:

The main goal in this compartment is to conduct multiple resource management for current and future generations.

Soil and topography:

The topography in this compartment is mostly flat with low wet areas; the soils are mainly Saugatuck, Wallace, Carbondale and Kinross, that are low in natural fertility. The Wallace sands will be slightly higher ground having the better drainage of the others where the Carbondale will have the slowest drainage supporting lowland conifers and non timber types. The SE part of section 32 and SW part of section 33 lie within the Shingleton Fen Land Type Association while the remainder of the compartment lies within the Munising Moraine Land Type Association.

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

Ownership within the compartment is State land except for a 40 in the NW1/4 NW1/4 of Section 32, which is with the limits of the town of Shingleton. South of the compartment is USFS lands and the remainder of the surrounding land is State.

Unique Natural Features:

Archeological, Historical, and Cultural Features:

There are known archeological concerns within the compartment.

Special Management Designations or Considerations:

The Department of Corrections has a water waste pipe that is in the NW1/4 of Section 32.

Watershed and Fisheries Considerations:

This compartment contains Hickey Creek which serves as a tributary to the West Branch Manistique River. Hickey Creek is a designated Type 1 trout streams less than 50-ft wide and has a predicted mean July water temperatures of 60.1 (cold stream). A 300-foot buffer is recommended for Hickey Creek in riparian areas susceptible to Aspen regeneration. For areas not susceptible to Aspen regeneration, a minimum 100-ft, plus 5 feet per 1% increase in slope, riparian management zone is recommended for Hickey Creek to protect riparian areas in accordance with Best Management Practices.

Wildlife Habitat Considerations:

This compartment lies immediately south and east of Shingleton. The compartment is a composite of open marsh and low forested ridges. The Hickey Creek runs northwest to southeast across the central portion of the compartment. General land office survey notes show that in the 1850s, lowlands were dominated by conifers including spruce, tamarack, hemlock, white pine and cedar. Balsam fir was also fairly prevalent. Deciduous species occurred in lesser amounts. Species reported in this compartment included yellow birch, red maple, beech, sugar maple, white birch and black ash., spruce, and tamarack. Current forest composition appears to have shifted toward deciduous species in the northeast and southwest edges of the compartment. The majority of the compartment appears to have similar species composition as found circa 1850. Featured species in this compartment are American marten, moose, bear, gray jay, northern goshawk, ruffed grouse, and white-tailed deer. Wildlife habitat goals in this compartment include enhancing the hemlock and white pine components in the hardwoods of the southwestern portions, maintaining the aspen component in the northeastern portion and protecting the wetland integrity through the main body of the compartment.

Mineral Resource and Development Concerns and/or Restrictions

Surface sediments consist of glacial outwash sand and gravel and postglacial alluvium and minor peat and muck. The glacial drift thickness varies between 10 and 50 feet. The Ordovician Black River and Prairie du Chien (PdC) Formations subcrop below the glacial drift. The Black River is quarried for stone elsewhere in the UP. There is a gravel pit in Section 19 and there should be good potential. There is no commercial oil and gas production in the UP.

Vehicle Access:

Access to the compartment is poor to fair even though M-94 cuts through the SW part of the compartment and M-28 is the northern boundary. The type of soils does not allow for many forest roads that would not be classified as "winter" roads.

Survey Needs:

46N-17W-32.

Recreational Facilities and Opportunities:

The Hickey Creek offers good fishing in the compartment with access off Birch Street in Shingleton. Snowmobile trail #41 goes through section 32 and offers access to town and other trails heading north and west out of town.

Fire Protection:

Fire response to the area will be fairly rapid. Shingleton station is less than a ½ mile from the compartment via M-28. The current road system would not be sufficient for fire operations; however the timber types present are not of high fire potential. The only real urban interface problem within the compartment would be in the private 40 in section 32.

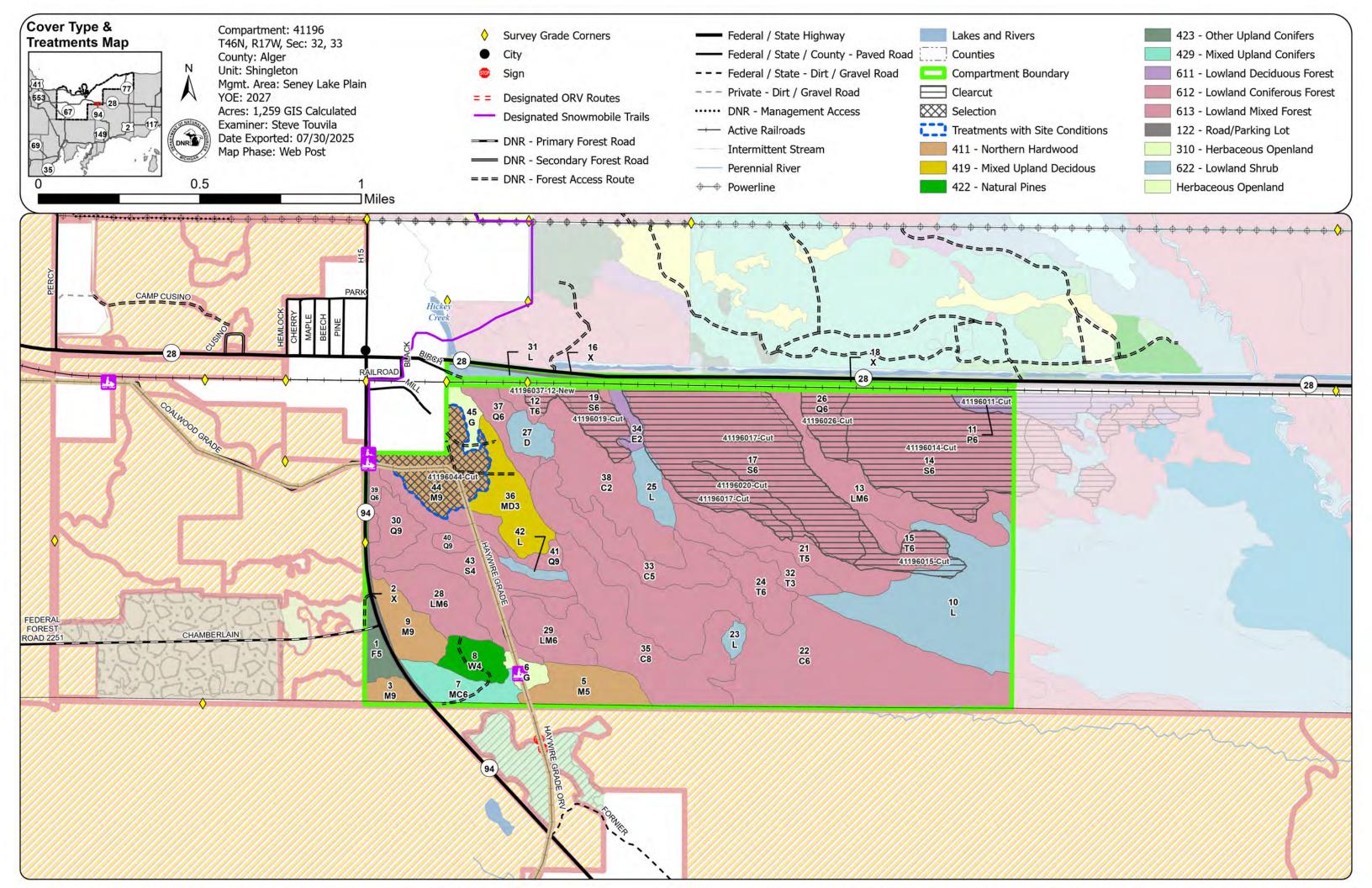
Additional Compartment Information:

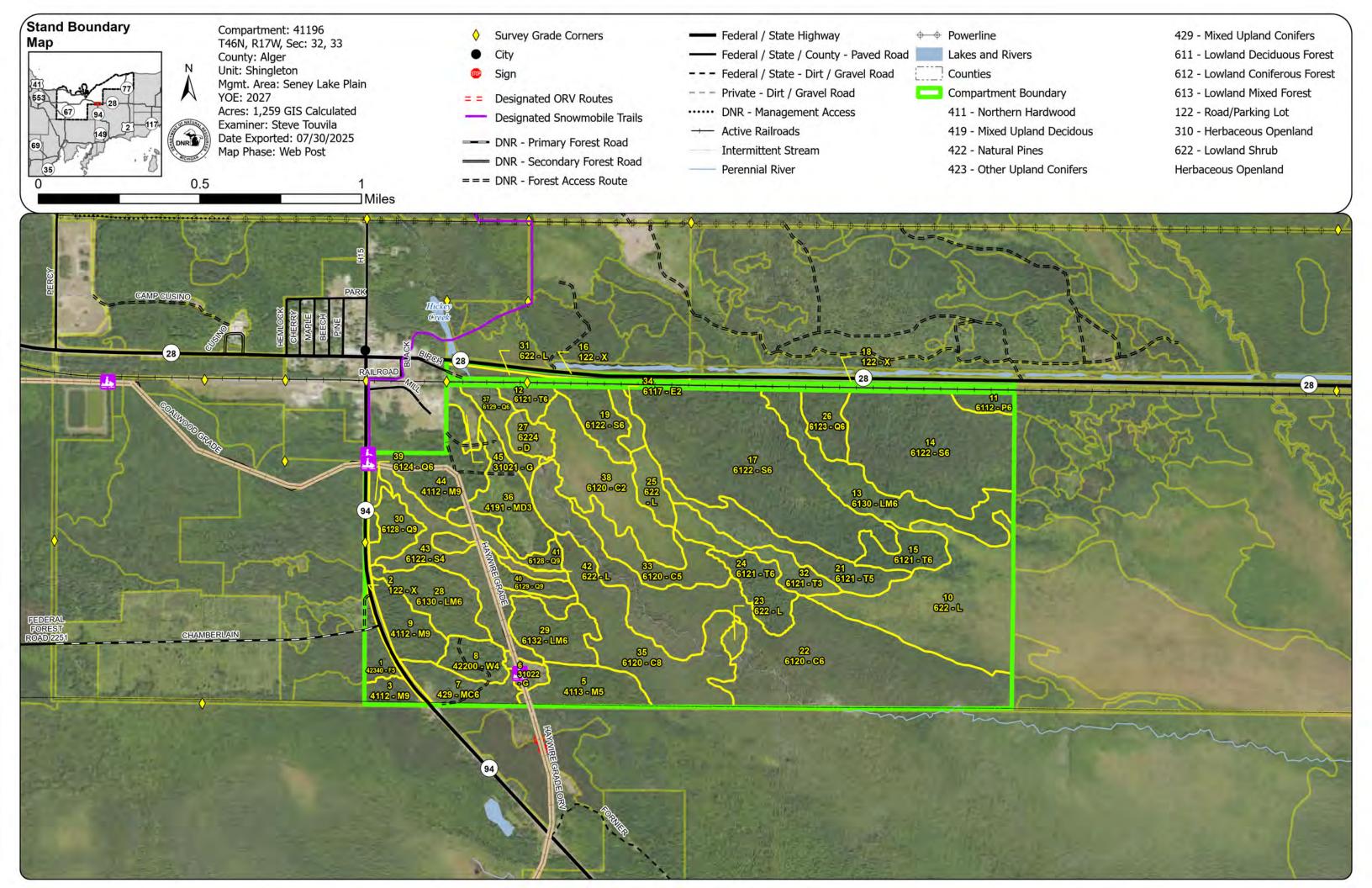
The following reports from the Inventory are attached:

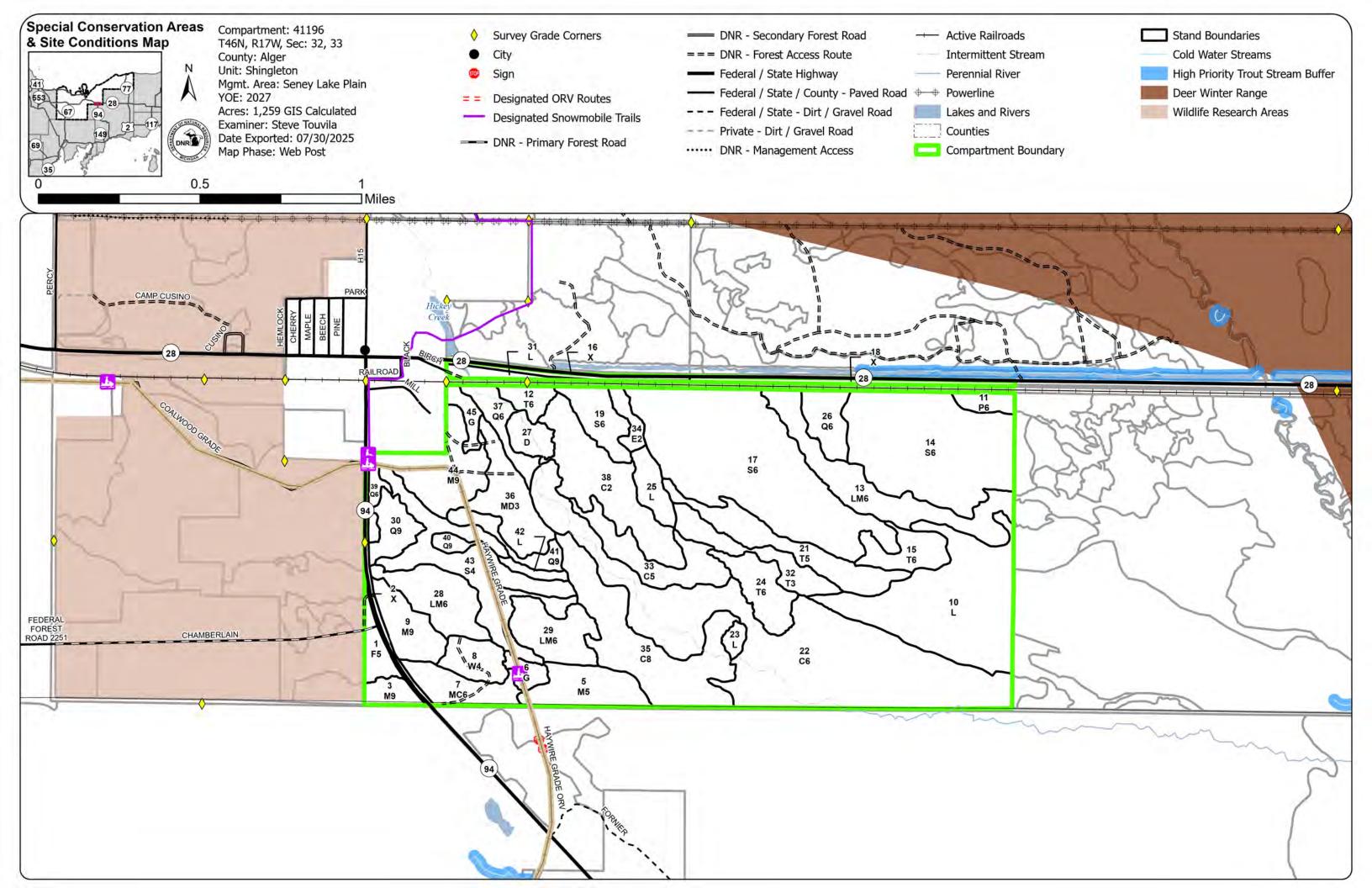
Total Acres by Cover Type and Age Class
Cover Type by Harvest Method
Proposed Treatments – No Limiting Factors
Proposed Treatments – With Limiting Factors
Stand Details (Forested and Nonforested)
Dedicated and Proposed Special Conservation Areas
Site Condition Details

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







Shingleton Mgt. Unit

Steve Touvila: Examiner

Compartment 196 Year of Entry 2027



Age Class

	/	* /	//												/			//	<u>*</u>
	₹ gr		§ \ \g		in the second	3/8		3/8	\$ / 1	\$ ^P \ \$				& *		\$ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	18 / £	R. R.	No. No.
Cedar	0	0	0	0	52	0	28	0	0	0	184	0	68	0	0	0	0	0	332
Herbaceous Openland	13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	13
Lowland Aspen/Balsam Poplar	0	0	0	0	0	0	0	0	7	0	0	0	0	0	0	0	0	0	7
Lowland Conifers	0	0	0	0	0	19	16	0	0	0	40	0	0	0	0	0	0	0	74
Lowland Deciduous	0	0	0	0	7	0	0	0	0	0	0	0	0	0	0	0	0	0	7
Lowland Mixed Forest	0	0	0	0	0	29	0	75	0	0	0	0	0	0	0	0	0	0	104
Lowland Shrub	120	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	120
Lowland Spruce/Fir	0	0	0	0	0	0	0	0	0	18	235	0	0	0	0	0	0	48	301
Mixed Upland Deciduous	0	30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	30
Northern Hardwood	0	0	0	0	0	0	0	0	0	34	21	0	0	0	0	0	0	36	91
Tamarack	0	0	0	0	22	0	0	0	0	80	0	0	0	0	0	0	0	0	102
Treed Bog	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10
Upland Conifers	0	0	0	0	0	20	0	0	0	0	0	0	0	0	0	0	0	0	20
Upland Spruce/Fir	0	0	0	0	0	10	0	0	0	0	0	0	0	0	0	0	0	0	10
Urban	26	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	26
White Pine	0	0	0	0	0	15	0	0	0	0	0	0	0	0	0	0	0	0	15
Total	169	30	0	0	81	93	44	75	7	132	480	0	68	0	0	0	0	84	1262



Report 2 – Treatment Summary

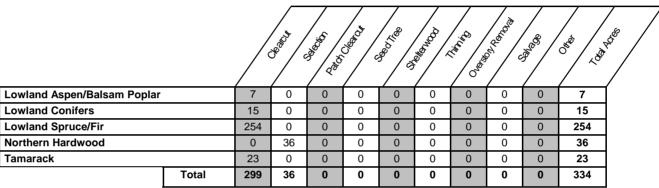
Shingleton Mgt. Unit Year of Entry: 2027

Acres of Harvest

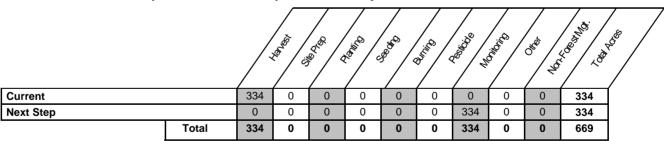
Compartment 196
Total Compartment Acres: 1,259

Commercial Harvest - 598 Harvests with Site Condition - 72 Next Step Harvest - 0 Habitat Cut - 0

Cover Type by Harvest Method



Proposed and Next Step Treatments by Method



Shingleton Mgt. Unit Report 3 -- Treatments Compartment: 41196 S Year of Entry: 2027 t а **Treatment** Acres Stand Size Stand BA **Treatment Treatment Cover Type** Age n Density

Range

Age

Proposed Treatments:

d

Name

41196044-Cut 35.5 4112 - Maple, 9 80 81-110 Harvest Selection 411 - Northern Current No Beech, Cherry Hardwood Association

Type

Method

Objective

Prescription Widen existing regeneration gaps from previous harvest as needed, thin other areas to a target BA of 70 while looking at harvesting some of Specs: the xlog red maple. Northeast finger may be a location to make a new regeneration gap in the black cherry. Don't cu

Monitoring, Natural Regen (Re-Inventory) Next Step

CoverType

Treatments:

Acceptable any species currently present

Other Comment:

Regen:

Site Condition: Survey Needed Proposed Start Date: 10/01/2026

Approved Treatments:

Planting 11 41196011-Cut 7.0 51-80 6112 - Lowland 6 70 Harvest Clearcut 611 - Lowland Nο Aspen Deciduous Record Forest

Prescription Leave a few scattered white pine as retention. Cut all species except Hemlock and Oak. Cut trees down to 2" DBH.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Lowland deciduous with some lowland coniferous.

Regen:

Other

Comment:

Site Condition:

Proposed Start Date: 10/01/2016

41196014-Cut 99.3 6122 - Black Spruce 6 90 81-110 Harvest Clearcut 6122 - Black **Planting** No Spruce Record

Prescription Cut all species except Hemlock and Oak. Retention areas should include Large White pine.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Any species that is currently in the stand.

Regen:

Other

Comment:

Site Condition:

Proposed Start Date: 10/01/2016

Habitat

Cut

Structure

Proposed Start Date: 10/01/2016

41196020-Cut 11.5 6122 - Black Spruce 6 **Planting** 90 111-Harvest Clearcut 6121 - Tamarack No Record

<u>Prescription</u> Cut all species except Hemlock and Oak. retention areas should include large white pine.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Mixed coniferous or deciduous.

Regen:

Other Comment:

Site Condition:

Proposed Start Date: 10/01/2016

S t		Shingletor	n Mgt. Unit		Repo	rt 3 '	Treatments		Compartmer Year of Entr		DNR DNRCE
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
26	41196026-Cut	15.4	6123 - Lowland Fir	6	50	51-80	Harvest	Clearcut	612 - Lowland Coniferous Forest	Planting Record	No
Pres Spec		species ex	cept Hemlock and	Oak. Leav	e some	retention					
	<u>Step</u> Monito tments:	ring, Natura	al Regen (Re-Inven	tory)							
Acce Rege		SpruceBals	am FirWhite PineR	ed Pineso	me lowla	and decid	uous				
Othe Com	<u>r</u> Threat <u>ment:</u>	ened speci	es check MNFI.								
Site	Condition:										
Prop	osed Start Date	<u>:</u> 10/01/20	116								
12	41196037-12- New	3.3	6121 - Tamarack	6	80	51-80	Harvest	Clearcut	612 - Lowland Coniferous Forest	Planting Record	No
Pres Spec		trees on si	te except hemlock	and oak. L	eave a r	retention p	oocket within star	nd.			
	<u>Step</u> Monito tments:	ring, Natura	al Regen (Re-Inven	tory)							
Acce Rege	e <u>ptable</u> Any sp en:	ecies Curre	ently on site								
Othe Com	<u>r</u> ment:										
Site	Condition:										
Prop	osed Start Date	<u>:</u> 10/01/20	116								

Total Treatment Acreage Proposed: 334.4

Report 4 – Site Conditions

Shingleton Mgt. Unit Steve Touvila: Examiner Compartment: 196
Year of Entry: 2027



Availability for Management

Total	Acres	Acres Avail	Acres	D	omina	nt Site	e Con	dition	s
Acres	Available	With Condition	Not Available		21	2G	2J	3J	5E
182	147	0	35	Cedar				35	
13	13	0	0	Herbaceous Openland					
7	7	0	0	Lowland Aspen/Balsam Poplar					
65	61	0	4	Lowland Conifers				4	
7	7	0	0	Lowland Deciduous					
104	104	0	0	Lowland Mixed Forest					
117	116	0	0	Lowland Shrub				0	
284	235	0	49	Lowland Spruce/Fir		48			1
7	0	0	7	Mixed Upland Deciduous					7
90	55	36	0	Northern Hardwood	36				
83	77	0	6	Tamarack			4		2
10	10	0	0	Treed Bog					
20	20	0	0	Upland Conifers					
10	10	0	0	Upland Spruce/Fir					
26	26	0	0	Urban					
15	15	0	0	White Pine					
1,038	902	36	100	Total Forested Acres	36	48	4	39	10
	87%	3%	10%	Relative Percent					

*Due to limitations in the current Site Conditions Analysis tool, all nonforested acres are considered available. Future development will enable analysis of nonforested types.

Site No.	Dominant Site Cond Availability	Dominant Site Condition	Acres	Other Site Condition	Other Site Condition	Other Site Condition	Other Site Condition
1	Available	2I: Survey needed	36	Unspecified	Unspecified	Unspecified	Unspecified
	Comments:						
2	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	48	Unspecified	Unspecified	Unspecified	Unspecified
	Comments:						

Report 4 – Site Conditions

Shingleton Mgt. Unit Steve Touvila: Examiner



3	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
	Comments: Area between the r. Retention for stand	ailroad and the Hickey Creek, no	o acce	ess. (railroad)			
4	Unavailable	5E: Long-Term Retention	7	5F: Evaluated for Forest Health Considerations	Unspecified	Unspecified	Unspecified
	Comments:						
5	Unavailable	3J: Water quality/BMPs (stream, river, or lake)	4	Unspecified	Unspecified	Unspecified	Unspecified
	Comments:						
8	Unavailable	2J: Blocked by railroad	1	5E: Long-Term Retention	Unspecified	Unspecified	Unspecified
	Comments: Area between the rule of the cong-term retention	ailroad and the Hickey Creek, non stand 20.	o acce	ess. (railroad)			
9	Unavailable	5E: Long-Term Retention	6	Unspecified	Unspecified	Unspecified	Unspecified
	Comments:						
11	Unavailable	2J: Blocked by railroad	4	5E: Long-Term Retention	Unspecified	Unspecified	Unspecified
		ailroad and the Hickey Creek, non for stand 12-NEW.	o acce	ess. (railroad)			
12	Unavailable	5E: Long-Term Retention	0	Unspecified	Unspecified	Unspecified	Unspecified
	Comments: Area between the r	ailroad and the Hickey Creek, n	o acce	ess. (railroad)			

Report 4 – Site Conditions

Shingleton Mgt. Unit

Compartment: 196 Year of Entry: 2027



Steve Touvila: Examiner

13	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
_	omments: rea between the ra	ailroad and the Hickey Creek, n	o access.	. (railroad)			
14	Unavailable	3J: Water quality/BMPs (stream, river, or lake)	38	Unspecified	Unspecified	Unspecified	Unspecified
	omments: 00' stream buffer						

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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	n Acres
Comments	

- Stands Compartment: 196
Year of Entry: 2027

1	OF NATURAL	1
The	4	1
EPAR	DNR	100
10	MICHIGAT.	/

Stan	and Level 4 Cover Type			Size De	ensity	Acres Stan	d Age BA	A Range Managed Site			General Comments
1	42340 - Upl	and Spruce	/Fir Pol	etimbe	r Medium	10.0 4	.0 !	51-80	N/A	\	
	Canopy Species	% Cover	Size Class	DBH	l Age	Sub-Canopy	Species	Density	Avg. Height	Size	
	White Pine	5		16		Red Map	ole	Medium	10 - 20 feet	10 - 20 feet	
	Balsam Fir	20	Sapling	5		Balsam I	-ir	Medium	Variable	Variable	
	Quaking Aspen	10	Seedling	7		White Pi	ne	Low	Variable	Variable	
	White Spruce	40	Seedling	6	40	Black Che	erry	Low	5 - 10 feet	5 - 10 feet	
	Red Maple	20	Sapling	5							
	Paper Birch	5	Sapling	6							
2	122 - Roa	d/Parking L	ot	No	ne	8.3			No		M-94
3	4112 - Maple, Beed	ch, Cherry A	Association S	awtimb	er Well	8.1 8	5 8	31-110	N/A	<u> </u>	Hercules Hardwood unit3 TS: 41-004-17-01
	Canopy Species	% Cover	Size Class	DBH	l Age	Sub-Canopy	Species	Density	Avg. Height	Size	TCR: 8/28/2018
	White Spruce	2		14		Balsam I	-ir	Medium	5 - 10 feet	5 - 10 feet	
	Black Cherry	28		9		Sugar Ma	ple	Medium	>20 feet	>20 feet	
	Sugar Maple	30		9		Red Map	ole	Medium	5 - 10 feet	5 - 10 feet	
	Red Maple	40		9	85	Black Che	erry	Medium	5 - 10 feet	5 - 10 feet	
						White Spr	uce	Low	< 5 feet	< 5 feet	
5	4113 - R.N	laple, Conif	er Pol	etimbe	r Medium	26.0 8	0 :	51-80	N/A	\	Two aged stand after Sawmill Hardwood treatment. Combined thick
	Canopy Species	% Cover	Size Class	DBH	l Age	Sub-Canopy	Species	Density	Avg. Height	Size	regeneration with hemlock saplings doing well. About 1/3 of this stan (southern part) is seasonally wet.It was two separate stands in
	Red Maple	70	Seedling	8	80	Hemloc	k	Medium	10 - 20 feet	10 - 20 feet	2007 cut in 2010. Sawmill Hardwood (047-10) "Cut all trees marked
	Yellow Birch	4	Sapling	6		Quaking As	spen	Medium	10 - 20 feet	10 - 20 feet	Orange and cut all Aspen, Spruce and Balsam". Stand is now a lower
	Hemlock	10		8		Red Map	ole	Medium	10 - 20 feet	10 - 20 feet	stocked Red maple stand. Residuals were recorded from Error combining sheet.
	Balsam Fir	5	Seedling	6		Balsam I	-ir	Medium	Variable	Variable	- comaning chack
	White Pine	10		10		White Pi	ne	Medium	Variable	Variable	
	D1 1 0:			' '							
	Black Cherry	1	Seedling	8		Black Che	erry	Low	10 - 20 feet	10 - 20 feet	
6	Black Cherry 31022 - Warr				ne	6.0	•	Low	10 - 20 feet No		Grass opening with pin cherry scattered throughout.
6	,			8	ne		•	Low			Grass opening with pin cherry scattered throughout.
6	,			8	ne	6.0	Species		No		Grass opening with pin cherry scattered throughout.
6	,	n Season G	Grass	No.	ne er Well	6.0 Sub-Canopy Pin Cher	Species Try	Density	No Avg. Height	Size 10 - 20 feet	
	31022 - Warr	n Season G	Grass	No oletimb		6.0 Sub-Canopy Pin Cher	Species Try 5	Density Medium	Avg. Height 10 - 20 feet	Size 10 - 20 feet	[5/25] BA is variable with some areas 81-110.Conifer stand with
	31022 - Warr 429 - Mixed	n Season G	Grass ifers P	No oletimb	er Well	6.0 Sub-Canopy Pin Cher 19.9 4	Species 5 9 Species	Density Medium 51-80	No Avg. Height 10 - 20 feet	Size 10 - 20 feet	
	31022 - Warr 429 - Mixed Canopy Species	n Season G Jpland Con % Cover	ifers P	No oletimb	er Well	6.0 Sub-Canopy Pin Cher 19.9 Sub-Canopy	Species 5 Species	Density Medium 51-80 Density	No Avg. Height 10 - 20 feet N/A Avg. Height	Size 10 - 20 feet	[5/25] BA is variable with some areas 81-110.Conifer stand with

50

8 45

White Pine



Stand	and Level 4 Cover											Size De	ensity	Acres S	Stand Age B	A Range	Managed S	ite	General Comments
8	42200 - Natu	ural White F	Pine F	Poletimb	er Poor	14.6	40	1-50	N/A		[5/25] Area filling in with red maple and black cherry sapling								
	Canopy Species	% Cover	Size Class	DBH	l Age	Sub-Cand	opy Species	Density	Avg. Height	Size	regeneration with a mixture of varying sized white pine.Clumps of White pine and cherry with grass and lichen in between clumps.								
	Red Maple	5	Seedling	8		Red	Maple	High	10 - 20 feet		,								
	White Pine	90		6	40	Whit	te Pine	Medium	Variable	Variable									
	Black Cherry	5	Seedling	8		Black	Cherry	High	10 - 20 feet	10 - 20 feet									
9	4112 - Maple, Beec	h, Cherry A	ssociation §	Sawtimb	er Well	20.6	90	81-110	N/A		Hercules Hardwood unit 2 TS: 41-004-17-01								
	Canopy Species	% Cover	Size Class	DBH	l Age	Sub-Cand	opy Species	Density	Avg. Height	Size	TICK: 8/28/2018								
	Yellow Birch	1	Seedling	8		Bals	am Fir	Medium	Variable	Variable									
	Hemlock	3		12		Whit	te Pine	Low	< 5 feet	< 5 feet									
	White Pine	1		20		Her	mlock	Low	< 5 feet	< 5 feet									
	Black Cherry	20		10		Suga	r Maple	Low	Variable	Variable									
	Sugar Maple	15		10		Red	Maple	Medium	5 - 10 feet	5 - 10 feet									
	Dad Marila	60		10	90						-								
	Red Maple	00			00														
10	622 - Low	vland Shrub		Noi	ne	93.4	70	51-80	No N/A		Threatened species check MNFI. Marsh area with some scattered water stressed 10-15' tall tamarack. Overall low density tag alder.								
11	622 - Lov 6112 - Lov	vland Shrub	n F	Poletimb	ne er Well	7.0	70	51-80 Density	N/A	1									
11	622 - Lov 6112 - Lov Canopy Species	vland Shrub wland Aspe	n F	Poletimb	ne	7.0	opy Species	Density	N/A Avg. Height	Size									
11	622 - Lov 6112 - Lov Canopy Species Red Maple	wland Asper Cover 20	n F	Poletimb DBH	ne er Well	7.0 Sub-Cano	opy Species Spruce	Density Low	N/A Avg. Height >20 feet	Size >20 feet									
11	622 - Lov 6112 - Lov Canopy Species Red Maple Quaking Aspen	wland Shrub Wland Asper Cover 20 45	n F Size Class Sapling	Poletimb DBH 7 10	ne er Well	7.0 Sub-Cano Black Bals	opy Species Spruce sam Fir	Low Medium	N/A Avg. Height >20 feet >20 feet	Size >20 feet >20 feet									
11	622 - Lov 6112 - Lov Canopy Species Red Maple Quaking Aspen Balsam Fir	wland Shrub wland Asper % Cover 20 45 5	n F	Poletimb DBH	ne er Well	7.0 Sub-Cano Black Balsa Red	opy Species Spruce sam Fir Maple	Low Medium Medium	N/A Avg. Height >20 feet >20 feet >20 feet	Size >20 feet >20 feet >20 feet									
11	622 - Lov 6112 - Lov Canopy Species Red Maple Quaking Aspen Balsam Fir White Pine	wland Asper Word Asper Cover 20 45 5 10	n F Size Class Sapling Sapling	Poletimb DBH 7 10 5	ne er Well	7.0 Sub-Cano Black Balsa Red	opy Species Spruce sam Fir	Low Medium	N/A Avg. Height >20 feet >20 feet	Size >20 feet >20 feet									
11	622 - Low 6112 - Low Canopy Species Red Maple Quaking Aspen Balsam Fir White Pine Black Cherry	wland Shrub wland Asper % Cover 20 45 5 10 5	n F Size Class Sapling	7 10 5 16 7	ne er Well	7.0 Sub-Cano Black Balsa Red	opy Species Spruce cam Fir Maple	Low Medium Medium	N/A Avg. Height >20 feet >20 feet >20 feet	Size >20 feet >20 feet >20 feet									
11	622 - Lov 6112 - Lov Canopy Species Red Maple Quaking Aspen Balsam Fir White Pine	wland Asper Word Asper Cover 20 45 5 10	n F Size Class Sapling Sapling	7 10 5 16	ne er Well	7.0 Sub-Cano Black Balsa Red	opy Species Spruce cam Fir Maple	Low Medium Medium	N/A Avg. Height >20 feet >20 feet >20 feet	Size >20 feet >20 feet >20 feet									
11	622 - Low 6112 - Low Canopy Species Red Maple Quaking Aspen Balsam Fir White Pine Black Cherry White Spruce Black Spruce	wland Shrub wland Asper % Cover 20 45 5 10 5 10	n F Size Class Sapling Sapling Seedling Sapling	Poletimb DBH 7 10 5 16 7 12	ne well Age	7.0 Sub-Cano Black Balsa Red	opy Species Spruce cam Fir Maple	Low Medium Medium	N/A Avg. Height >20 feet >20 feet >20 feet	Size >20 feet >20 feet >20 feet 5 - 10 feet									
11	622 - Low 6112 - Low Canopy Species Red Maple Quaking Aspen Balsam Fir White Pine Black Cherry White Spruce Black Spruce	wland Shrub wland Asper % Cover 20 45 5 10 5 10 5 Tamarack	n F Size Class Sapling Sapling Seedling Sapling	Poletimb	ne well Age	7.0 Sub-Cano Black Balss Red Tag	opy Species Spruce sam Fir Maple J Alder	Low Medium Medium Low	Avg. Height >20 feet >20 feet >20 feet >10 feet	Size >20 feet >20 feet >20 feet 5 - 10 feet	water stressed 10-15' tall tamarack. Overall low density tag alder.								
11	622 - Low 6112 - Low Canopy Species Red Maple Quaking Aspen Balsam Fir White Pine Black Cherry White Spruce Black Spruce	wland Shrub wland Asper % Cover 20 45 5 10 5 10 5 Tamarack	n F Size Class Sapling Sapling Seedling Sapling	Poletimb	rer Well 70 Per Well	7.0 Sub-Cand Black Bals Red Tag 8.1 Sub-Cand	opy Species Spruce sam Fir Maple J Alder	Density Low Medium Medium Low	N/A Avg. Height >20 feet >20 feet >20 feet >10 feet	Size >20 feet >20 feet >20 feet >20 feet 5 - 10 feet	water stressed 10-15' tall tamarack. Overall low density tag alder.								
11	622 - Low 6112 - Low Canopy Species Red Maple Quaking Aspen Balsam Fir White Pine Black Cherry White Spruce Black Spruce 6121 - Canopy Species	wland Shrub wland Asper % Cover 20 45 5 10 5 10 5 Tamarack % Cover	Size Class Sapling Sapling Seedling Sapling Sapling Sapling Sapling	Poletimb 7	rer Well 70 rer Well rer Well	7.0 Sub-Cand Black Bals Red Tag 8.1 Sub-Cand	opy Species Spruce Sam Fir Maple J Alder 80 opy Species	Density Low Medium Medium Low 51-80 Density	N/A Avg. Height >20 feet >20 feet >20 feet 5 - 10 feet	Size >20 feet >20 feet >20 feet 5 - 10 feet	water stressed 10-15' tall tamarack. Overall low density tag alder.								
111	622 - Low 6112 - Low Canopy Species Red Maple Quaking Aspen Balsam Fir White Pine Black Cherry White Spruce Black Spruce 6121 - Canopy Species Tamarack	wland Shrub wland Asper % Cover 20 45 5 10 5 10 5 Tamarack % Cover 60	Size Class Sapling Sapling Seedling Sapling Fixe Class Sapling	Poletimb 7	rer Well 70 rer Well rer Well	7.0 Sub-Cano Black Balss Red Tag 8.1 Sub-Cano Tag Balss	opy Species Spruce sam Fir Maple J Alder 80 opy Species J Alder	Density Low Medium Medium Low 51-80 Density Medium	N/A Avg. Height >20 feet >20 feet >20 feet 5 - 10 feet N/A Avg. Height 5 - 10 feet	Size >20 feet >20 feet >20 feet 5 - 10 feet	water stressed 10-15' tall tamarack. Overall low density tag alder.								
11	622 - Low 6112 - Low Canopy Species Red Maple Quaking Aspen Balsam Fir White Pine Black Cherry White Spruce Black Spruce 6121 - Canopy Species Tamarack Black Spruce	wland Shrub wland Asper % Cover 20 45 5 10 5 10 5 Tamarack % Cover 60 30	n F Size Class Sapling Sapling Seedling Sapling F Size Class Sapling Sapling	Poletimb 7	rer Well 70 rer Well rer Well	7.0 Sub-Cand Black Balss Red Tag 8.1 Sub-Cand Tag Balss Tam	spruce sam Fir Maple J Alder 80 oppy Species J Alder sam Fir	Density Low Medium Medium Low 51-80 Density Medium Low	N/A Avg. Height >20 feet >20 feet >20 feet 5 - 10 feet N/A Avg. Height 5 - 10 feet Variable	Size	water stressed 10-15' tall tamarack. Overall low density tag alder.								



Stand	Level 4 Co	ver Type	Type Size Density Acres Stand Age BA Range Managed Site		ite	General Comments				
13	6130 - Fir, <i>A</i>			Poletimb		48.8 60	51-80	N/A		[2/5/25] The aspen is in the north part of the stand.Lowland mix with dominant species being low quality red maple. Seems to be
	Canopy Species		Size Class		l Age	Sub-Canopy Species	Density	Avg. Height	Size	converting more towards low quality red maple. Tamarack is dying
	Quaking Aspen	2	Seedling	9		Red Maple	Medium	>20 feet	>20 feet	back. Threatened species check MNFI.
	Balsam Poplar	2	Seedling	9		Balsam Fir	Medium	Variable	Variable	
	White Pine	5		16						
	Red Maple	50	Seedling	6	60					
	Paper Birch	2	Sapling	5						
	Balsam Fir	22	Sapling	6						
	Tamarack	5		9						
	Black Spruce	10	Sapling	5						
Nor	thern White Cedar	2	Seedling	6						
14	6122 - Bla	ack Spruce		Poletimb	er Well	99.7 90	81-110	N/A		Black spruce is health with very little breakup.
	Canopy Species	% Cover	Size Class	DBH	I Age	Sub-Canopy Species	Density	Avg. Height	Size	
	Red Maple	1	Seedling	8		Balsam Fir	Low	Variable	Variable	
	Quaking Aspen	1	Seedling	8						-
	Black Spruce	78	Seedling	8	90					
	White Pine	15		16						
	Jack Pine	1		11						
	Balsam Fir	1	Seedling	7						
	Tamarack	3		12						
15	6121 - T	amarack		Poletimb	er Well	17.4 88	81-110	N/A	ı	
	Canopy Species	% Cover	Size Class	DBF	l Age	Sub-Canopy Species	Density	Avg. Height	Size	
	Red Maple	15	Sapling	6		Red Maple	High	>20 feet	>20 feet	
	Black Spruce	20	Seedling	6		Black Spruce	Low	Variable	Variable	
	Tamarack	60		9	88					-
	White Pine	5		14						
16	122 - Road	/Parking Lo	ot	No	ne	6.7		No		M-28 R-O-W
17	6122 - Bla	ack Spruce		Poletimb	er Well	135.7 90	111-140	N/A		[2/5/25] Black spruce is doing good with only a few locations of small
	Canopy Species	% Cover	Size Class	DBH	l Age	Sub-Canopy Species	Density	Avg. Height	Size	breakup. The only hemlock I came across was a small patch in the southeast end of the stand. Good spot for retention as there is
	Red Maple	2	Sapling	7		Red Maple	Low	10 - 20 feet	10 - 20 feet	mixed age Hemlock from 10" down to sapling size. Another possible
	Balsam Fir	2	Seedling	7		Balsam Fir	Low	Variable	Variable	retention area is in the center of the north end where there is a mixed
	Quaking Aspen	1		10		Black Spruce	Low	Variable	Variable	diameter white pine stand.
	White Pine	5		14		·	1		I.	_
	Jack Pine	1		10						
	Black Spruce	86	Seedling	8	90					
Nor	Black Spruce thern White Cedar	86	Seedling Seedling	8	90					

Stand	Level 4 C	over Type		Size Density	Acres	Stand Age B	A Range	Managed S	iite	General Comments
18	122 - Roa	d/Parking Lo	ot	None	11.3			No		At the 2007 Compartment Review, it was decided to remove all Scotch Pine along M-28. [6/20/06 km] FTP# W41-1296 - Scotch Pine Removal (8/20/10) FTP# W41-1296 cancelled. Suggest new FTP under new system for scotch pine removal.
19	6122 - B	lack Spruce		Poletimber Well	17.6	88	111-140	N/A	٨	
	Canopy Species	% Cover	Size Class	DBH Age	Sub-Car	opy Species	Density	Avg. Height	Size	
	Balsam Fir	8	Seedling	7	Bal	sam Fir	Medium	10 - 20 feet	10 - 20 feet	
	Red Maple	8	Sapling	7	Black	Spruce	Low	10 - 20 feet	10 - 20 feet	
	Black Spruce	80	Seedling	8 88						•
	White Pine	4		14						
21	6121 -	Tamarack	Po	oletimber Mediur	n 34.1	88	51-80	N/A	١	[2/5/25] Some of the tamarack has died off. Threatened species
	Canopy Species	% Cover	Size Class	DBH Age	Sub-Car	opy Species	Density	Avg. Height	Size	check MNFI. Lowland water stressed stand of poor quality and low basal area. Understory consists of moderate tag alder and cedar; and
	White Pine	5		16	Bal	sam Fir	Low	Variable	Variable	light balsam fir, black spruce, red maple, and tamarack.
	Balsam Fir	5	Sapling	6	Tar	marack	Low	>20 feet	>20 feet	
	Tamarack	65	Seedling	8 88	Black	Spruce	Low	>20 feet	>20 feet	
	Black Spruce	15	Seedling	7	Northern	White Cedar	Low	10 - 20 feet	10 - 20 feet	
Nor	thern White Cedar	10	Seedling	7	Red	l Maple	Trace	>20 feet	>20 feet	
					Ta	g Alder	Medium	5 - 10 feet	5 - 10 feet	
22	6120 - Lo	wland Ceda	ır	Poletimber Well	183.8	90	141-170	N/A	١	
	Canopy Species	% Cover	Size Class	DBH Age	Sub-Car	opy Species	Density	Avg. Height	Size	
	Black Spruce	10	Seedling	8	Ta	g Alder	Medium	5 - 10 feet	5 - 10 feet	
Nor	thern White Cedar	80	Seedling	8 90	Bal	sam Fir	Low	5 - 10 feet	5 - 10 feet	
	Tamarack	10	Seedling	8	Northern	White Cedar	Low	5 - 10 feet	5 - 10 feet	
23	622 - Lov	wland Shrub)	None	3.7			No		
24	6121 -	Tamarack		Poletimber Well	20.9	88	81-110	N/A	1	[2/5/25] Cedar is regenerating in the stand and growing into the
	Canopy Species	% Cover	Size Class	DBH Age	Sub-Car	opy Species	Density	Avg. Height	Size	canopy. Threatened species check MNFI. This stand is a mix of
Nor	thern White Cedar	40	Sapling	7		sam Fir	Low	Variable	Variable	mature tamarack with cedar being the other component in the stand.
	Tamarack	60	Seedling	8 88	Black	Spruce	Low	10 - 20 feet	10 - 20 feet	The cedar is only about 6" dbh on average and gets thicker as you go west and south. It may be too thick to operate in if the cedar isn't cut.
					Northern	White Cedar	Medium	10 - 20 feet	10 - 20 feet	west and south. It may be too thick to operate in it the cedal isn't cut.
25	622 - Lo	wland Shrub)	None	12.0			No		Threatened species check MNFI. Marsh area with some scattered water stressed 10-15' tall tamarack. Overall low density tag alder.

Report 7 - Stands



Stand	Level 4 C	over Type	Size Density		Acres	Acres Stand Age BA Range			te	General Comments	
26	6123 - L	owland Fir		Poletimber Well		15.8	50	51-80	N/A		
	Canopy Species	% Cover	Size Class	DBH	l Age	Sub-Car	nopy Species	Density	Avg. Height	Size	
	Quaking Aspen	3	Seedling	7		Red	d Maple	Medium	>20 feet	>20 feet	
	Black Spruce	10	Seedling	8		Bal	sam Fir	Medium	>20 feet	>20 feet	
	Balsam Fir	50	Sapling	6	50				·		-
	Tamarack	1	Seedling	9							
	White Pine	1		16							
	Red Maple	33	Seedling	7							
	Paper Birch	2	Seedling	7							
27	6224 - ⁻	Treed Bog		No	ne	9.8			No		
28	6130 - Fir,	Aspen, Ma	ple	Poletimb	er Well	28.9	45	51-80	N/A		
	Canopy Species	% Cover	Size Class	DBH	l Age	Sub-Car	nopy Species	Density	Avg. Height	Size	
	Red Maple	50	Sapling	5	45	Bal	sam Fir	High	Variable	Variable	
	Balsam Fir	30	Sapling	5					·		-
	Yellow Birch	5	Pole	3							
	White Pine	5		12							
No	rthern White Cedar	5	Sapling	5							
	Hemlock	5	Seedling	8							
29	6132 - Mixed Lowla	and Forest	with Cedar	Poletimb	er Well	26.4	60	51-80	N/A		Lowland Red maple stand, seasonal wetness. A mix of cedar and
	Canopy Species	% Cover	Size Class	DBH	l Age	Sub-Car	nopy Species	Density	Avg. Height	Size	other scattered conifers.
	Balsam Fir	5	Sapling	5		Bla	ick Ash	Low	< 5 feet	< 5 feet	
	Red Maple	45	Sapling	7	60	Northern	White Cedar	Medium	Variable	Variable	
	Yellow Birch	5	Sapling	7		Bal	sam Fir	Medium	Variable	Variable	
	White Pine	10		16							_
	Black Spruce	5	Sapling	5							
No	rthern White Cedar	30		9							
30	30 6128 - Lowland Coniferous, Mixed Sa Deciduous		ed Sawtimber Well			14.2 90 81-110		N/A		[5/25] Red maple could be treated at some point in the future especially on the west edge and southern 1/4 of the stand. Possibly	
	Canopy Species	% Cover	Size Class	DBH	l Age	Sub-Car	nopy Species	Density	Avg. Height	Size	when the adjacent stand the the west is ready. Lowland stand with trees growing on hummocks. Very poor quality red maple and aspen.
	Red Maple	40	Seedling	8		Не	emlock	Low	5 - 10 feet	5 - 10 feet	trees growing on numinocks, very poor quality red maple and aspen
	Balsam Fir	5	Sapling	6		Bal	sam Fir	High	Variable	Variable	
	Hemlock	50		16	90						1
31	31 622 - Lowland Shrub None			6.9	6.9 No				Lowland brush and part of Hickey Creek between the highway R.O.W and the privately-owned railroad tracks. Soils are classified as type 5 (Carbondale muck.)		

Shingleton Mgt. Unit



Stanc	Level 4 C	4 Cover Type Size Density Acres Stand Age BA Range Managed Site		ite	General Comments						
32	6121 - Tamarack			Sapling Well		21.7	30	1-50	N/A		Area has filled in with young tamarack and cedar making this now a
	Canopy Species	% Cover	Size Class	DBH Ag	9 5	Sub-Cano	py Species	Density	Avg. Height	Size	forested stand.
	Tamarack	80	Log	3 30		Tag /	Alder	Low	5 - 10 feet	5 - 10 feet	
No	rthern White Cedar	20	Log	3				·			-
33	6120 - Lo	wland Ceda	r P	oletimber Me	lium	27.9	50	1-50	N/A		[2/5/25] Young cedar stand with a good amount of sapling cedar.
	Canopy Species	% Cover	Size Class	DBH Ag	9 5	Sub-Cano	py Species	Density	Avg. Height	Size	Threatened species check MNFI.
	Black Spruce	20	Sapling	5		Black S	Spruce	Low	>20 feet	>20 feet	
No	orthern White Cedar	80	Sapling	5 50	١	Northern W	hite Cedar	Medium	10 - 20 feet	10 - 20 feet	
34	6117 - Lowland Con	Deciduous, iferous	Mixed	Sapling Medi	ım	6.6	30	1-50	N/A		[2/5/25] This is a new forested stand separated from the adjacent lowland stand.
	Canopy Species	% Cover	Size Class	DBH Ag	9 5	Sub-Cano	py Species	Density	Avg. Height	Size	
	Balsam Fir	20	Pole	4		Tag /	Alder	Medium	5 - 10 feet	5 - 10 feet	
	Black Spruce	20	Pole	4							-
	Balsam Poplar	10	Seedling	8							
	Red Maple	30	Pole	4 30							
	Paper Birch	20	Pole	4							
35							67.5 110 51-80				Cedar bog. Sphagnum moss covers the ground. This area is a flood zone for the Hickey creek.
	Canopy Species	% Cover		DBH Ag	9 5		py Species	Density	Avg. Height	Size	2516 151 116 1 11616) 5155111
	Tamarack	5	Seedling	9		Tag /		Medium	5 - 10 feet	5 - 10 feet	
	Black Spruce	5	Seedling	9		Northern W	hite Cedar	Medium	Variable	Variable	
No	orthern White Cedar	90		10 11)						
36	4191 - Mixed Upland Deciduous with Sapling Well Conifer			I	30.2	7 lı	mmature	N/A		There are 2 acres along the SW border that is 36 year old red maple and balsam fir that is visible in the latest imagery. Hercules	
	Canopy Species	% Cover	Size Class	DBH Ag	9						Hardwood unit1 TS: 41-004-17-01TCR: 8/28/2018
	Quaking Aspen	5	Log	1							
	Balsam Fir	20	Log	1							
	Red Maple	40	Log	1 7							
	Paper Birch	15	Log	1							
	White Spruce	4	Log	1							
	White Pine	1	Log	2							
	Black Cherry	15	Log	1							
37	6129 - Mixed Conife	erous Lowla	and Forest	Poletimber W	ell	13.1	49	51-80	N/A		cedar stand very wet with alder in the understory.
	Canopy Species	% Cover	Size Class	DBH Ag	9 5	Sub-Cano	py Species	Density	Avg. Height	Size	
	Tamarack	40	Seedling	6 49		Red N		Trace	5 - 10 feet	5 - 10 feet	
	Black Spruce	20	Sapling	6		Tag /	Alder	High	5 - 10 feet	5 - 10 feet	
No	rthern White Cedar	40	Sapling	5		Black S	Spruce	Low	Variable	Variable	
-					1	Northern W	hite Cedar	Low	Variable	Variable	
						Tama	arack	Low	Variable	Variable	



											DNR
Stand	Level 4 C	over Type		Size De	nsity	Acres	Stand Age B	A Range	Managed S	ite	General Comments
38	6120 - Lov	ar .	Sapling Medium		51.5	30	1-50	N/A			
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	
	Paper Birch	30	Log	3		Та	g Alder	Low	5 - 10 feet	5 - 10 feet	
No	rthern White Cedar	70	Log	3	30						_
39	6124 - Lowla	6124 - Lowland Spruce-Fir		Poletimber Well		5.4	45	51-80	N/A		[5/25] Majority of ground is good for a future treatment. Lowland
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	area along highway with water in the ditch.
	Balsam Fir	30	Sapling	6		Bal	sam Fir	Medium	Variable	Variable	
	Quaking Aspen	5	Seedling	7							
	White Pine	5		12							
	Black Spruce	33	Seedling	7	45						
	Red Maple	25	Sapling	7							
	Paper Birch	2	Sapling	6							
40 6129 - Mixed Coniferous Lowland Forest Sa				Forest Sawtimber Well			14.4 90		N/A		5/25 Some hemlock regeneration in small natural openings. Small part of stand is mostly smaller diameter cedar adjacent to the
	Canopy Species	% Cover	Size Class		Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	grade.Lowland mixed conifer with red maple. Transition ridge from
	White Pine	5		20		Bal	sam Fir	Medium	5 - 10 feet	5 - 10 feet	low to high ground.
	Red Maple	10	Seedling	8		Northern	White Cedar	Low	Variable	Variable	
	Paper Birch	5	Seedling	8		He	emlock	Medium	5 - 10 feet	5 - 10 feet	
	Black Spruce	5	Seedling	9							
No	rthern White Cedar	25	Seedling	9	90						
	Hemlock	50		16	90						
41	6128 - Lowland Dec	Coniferous,	Mixed	Sawtimb	er Well	11.1	90	111-140	N/A		
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Car	nopy Species	Density	Avg. Height	Size	
	Red Maple	30		10		Bal	sam Fir	Low	Variable	Variable	
	Balsam Fir	5	Seedling	8		Northern	White Cedar	Low	Variable	Variable	
	White Pine	20		18		He	emlock	Low	5 - 10 feet	5 - 10 feet	
	Black Spruce	10	Seedling	8				1			_
	Hemlock	35		16	90						
42	622 - Lov	vland Shrub)	Nor	ne	4.0			No		
43	6122 - Bl	ack Spruce	•	Poletimb	er Poor	47.5	68	1-50	N/A		Lowland with spruce clumps, Tag Alder filling in most areas. Very w
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	ground.
	Black Spruce	50	Sapling	7	68	Та	g Alder	Full	5 - 10 feet	5 - 10 feet	
No	rthern White Cedar	20		8							-
	White Pine	10		16							

Tamarack

20

Seedling

8



Stand	Level 4 Cover Type 4112 - Maple, Beech, Cherry Association			Size Density Sawtimber Well		Acres S	Stand Age E	BA Range	Managed S	Site	General Comments
44						35.6	80	81-110	N/A		[5/25] There are many gaps throughout the stand that have advanced
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Cano	py Species	Density	Avg. Height	Size	sapling regeneration from the previous harvest. Cut in 1987 and then again in 2010 part of Sawmill Hardwood (047-10) "Cut all trees
	Red Maple	70		10	80	Red I	Maple	High	>20 feet	>20 feet	marked in Orange and cut all Aspen, Balsam and Spruce". Stand
	Yellow Birch	3	Seedling	7		Yellow	w Birch	Trace	>20 feet	>20 feet	is now a lower stocked red maple stand with mixed cherry.
	Balsam Fir	4	Seedling	6		Balsa	am Fir	Medium	10 - 20 feet	10 - 20 feet	
	Beech	2		8		White	e Pine	Low	5 - 10 feet	5 - 10 feet	
	White Spruce	3	Seedling	8		Black	Cherry	Low	>20 feet	>20 feet	
	Hemlock	5		18		Hem	nlock	Low	10 - 20 feet	10 - 20 feet	
	White Pine	5		12				'			-
	Black Cherry	8	Seedling	8							
45	31021 - Cool Season Grass None				e	6.7 No					SAWDUST PILES: Stand was permitted for sawdust back in the late 70's until the early 90's. Permit did not specify removal. In 2004 all other mill items that were on site were removed via trespass report to owner. Piles are now grown over with grass, making large mounds/hills.