

## **Compartment Review Presentation**

**Shingleton Forest Management Unit** 

Compartment 41171 Entry Year 2027 Acreage: 1,202 County: Alger

**Management Area: Grand Marais Moraine Complex** 

Stand Examiner: Mario Molin

**Legal Description:** 

T47N R17W Sections 10 and 15

#### **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 hilly to flat with some low areas. The main soils in the compartment are; Ogemaw Sandy Loam with fair to good drainage and fair natural fertility, Munising Loam with good drainage and moderate natural fertility and Kalkaska Loamy Sand with good drainage and low to fair natural fertility. The entire 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 all State land except for the town of Melstrand on the south end. The surrounding land has broken ownership of State lands, CFR lands and private ownership. State land is heavily used by hunters while the roads are heavily used by those looking for fishing sites and access into PRNL properties to the northwest. The residents are a mix of year-round and seasonal.

#### **Unique Natural Features:**

Currently under review by Michigan Natural Features Inventory (MNFI).

#### Archeological, Historical, and Cultural Features:

None known.

#### **Special Management Designations or Considerations:**

Treatments that will be conducted around any water areas will follow all BMP regulations and those concerns addressed from other divisions.

#### **Watershed and Fisheries Considerations:**

Fisheries Concerns: This compartment has very little surface water within its boundaries. There is a small, disconnected lake in the south-west corner of the compartment and best management practices (BMP's) should be adhered to when working in proximity to this surface water.

#### Wildlife Habitat Considerations:

This compartment is located immediately north, east, and west of Melstrand. The pre-settlement forest, as recorded by General Land Office surveyors appears to have been dominated by sugar maple, yellow birch, and beech. Hemlock and balsam fir were also common components. Red maple, ironwood, and elm were recorded as minor components of the forest. Currently the northern hardwoods appear to have a stronger component of black cherry than during the presettlement days. Aspen is also a more significant part of the landscape than it was circa 1850. Featured species in this compartment are American marten, moose, bear, gray jay, northern goshawk, ruffed grouse, and white-tailed deer. Wildlife habitat objectives include promoting diversity within the hardwoods, and maintaining the aspen component in the compartment.

#### Mineral Resource and Development Concerns and/or Restrictions

Surface sediments consist of end moraine of medium-textured glacial till. There is insufficient data to determine the glacial drift thickness. The Ordovician Prairie du Chien (PdC) Formation subcrops below the glacial drift. The PdC could be used for stone. The nearest gravel pit is in Section 15 or just to the east and there should be good potential. There is no commercial oil and gas production in the UP.

#### **Vehicle Access:**

Access to the compartment is good with use of H-58 and County Road 639, Chapel Lake Road. There is also a good forest road system through out the compartment from past timber activities.

### **Survey Needs:**

None

#### **Recreational Facilities and Opportunities:**

This compartment is used regularly by hunters. There is also a good amount of traffic on the two main roads for those heading into the PRNL and those looking for fishing opportunities.

#### **Fire Protection:**

Fire response to the area will be good. The Shingleton station is about 20 minutes from the compartment via H-15 and H-58. The current road system is good enough for fire operations; however the timber types present are not of high fire potential. Urban interface problems could occur with those homes or cabins around the compartment, however the majority of the timber is northern hardwoods.

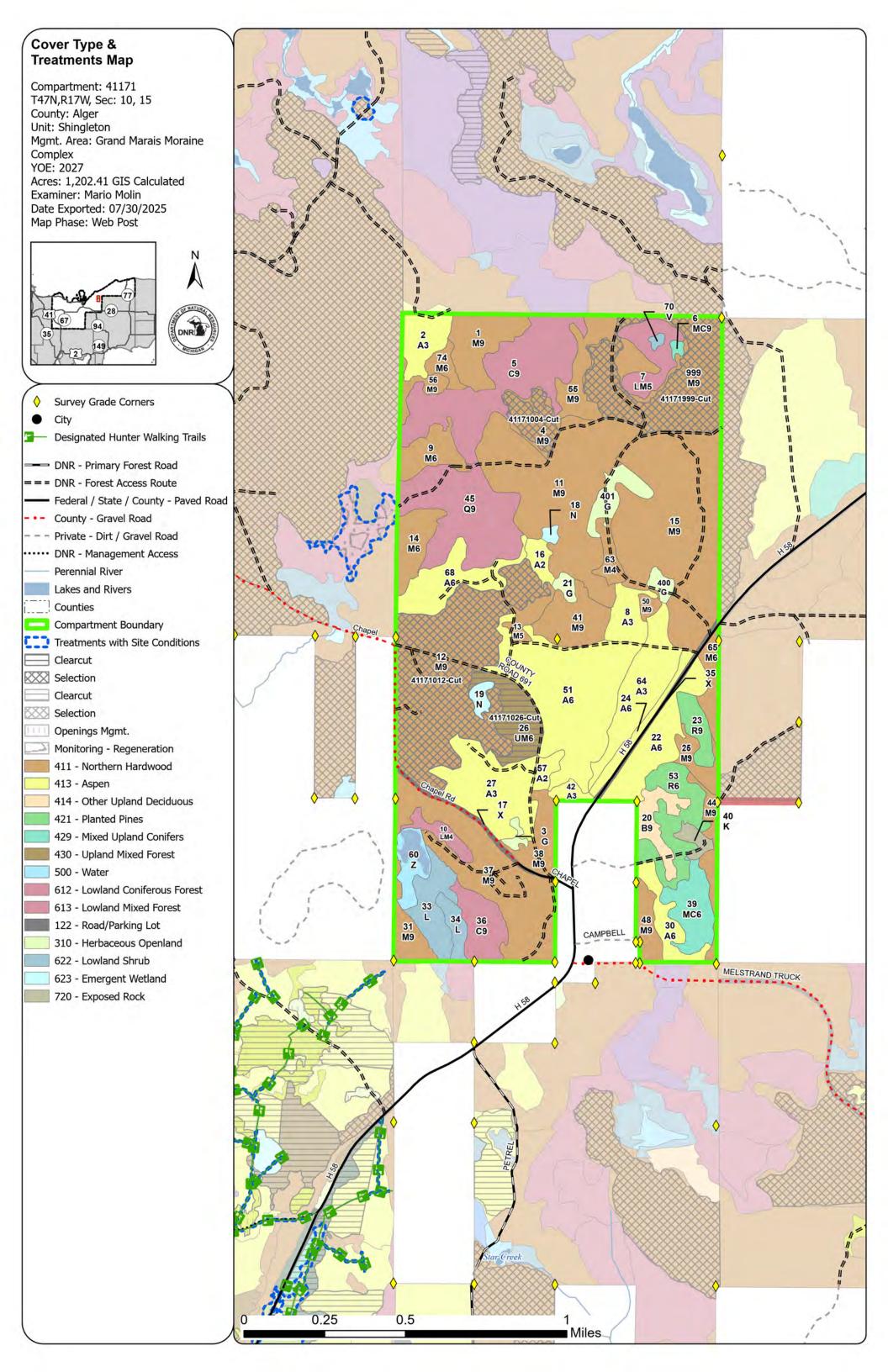
#### **Additional Compartment Information:**

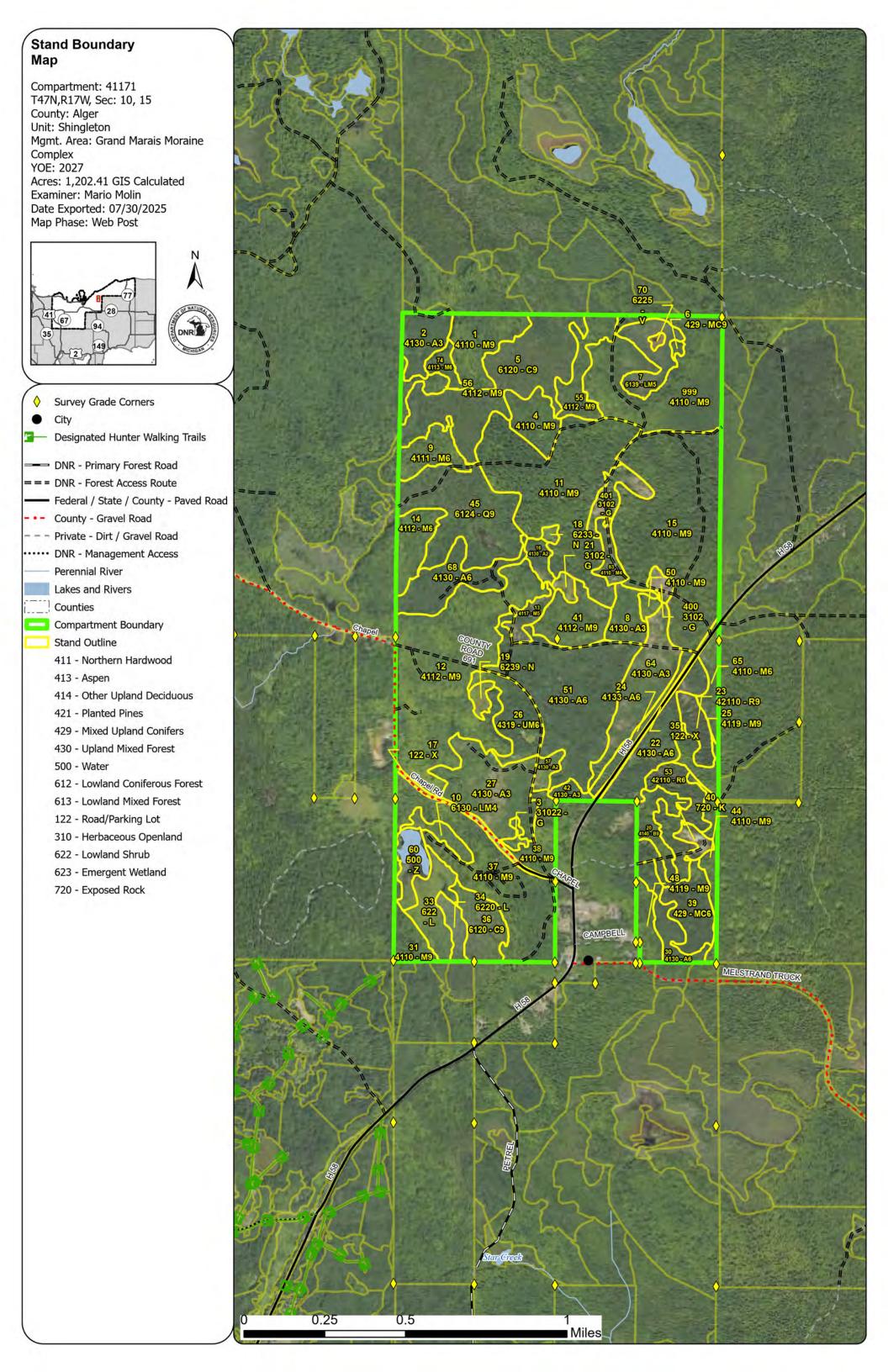
The following reports from the Inventory are attached:

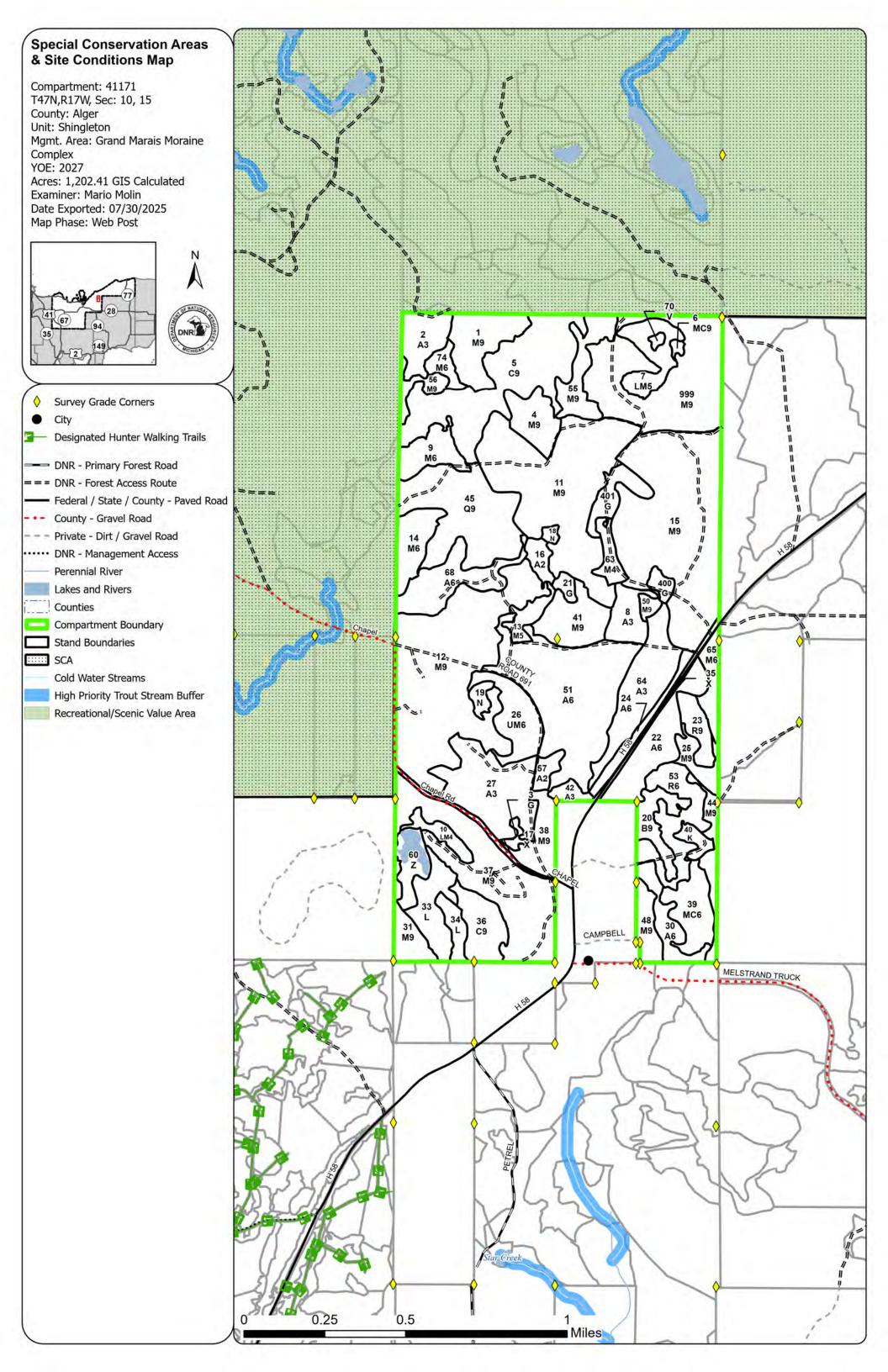
Total Acres by Cover Type and Age Class Cover Type by Harvest Method Proposed Treatments – No Limiting Factors Proposed Treatments – With Limiting Factors Stand Details (Forested and Nonforested) Dedicated and Proposed Special Conservation Areas Site Condition Details

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
Mario Molin: Examiner



#### Age Class

			§ / §	\$ \\	g g	3 /	S K	3/8	/ & /	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\			a la	<u> </u>	,			<u> </u>	Total Total
	$\leftarrow$												$\leftarrow$						
Aspen	0	87	19	5	63	85	0	0	0	0	0	0	0	0	0	0	0	0	257
Bog	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Cedar	0	0	0	0	0	0	0	0	0	0	0	0	0	81	0	0	0	0	81
Exposed Rock	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
Herbaceous Openland	19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	19
Lowland Conifers	0	0	0	0	0	0	0	0	0	53	0	0	0	0	0	0	0	0	53
Lowland Mixed Forest	0	0	0	0	0	0	0	6	0	0	16	0	0	0	0	0	0	0	22
Lowland Shrub	24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24
Marsh	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5
Northern Hardwood	0	0	0	0	0	0	0	34	0	0	14	62	0	0	0	0	0	520	630
Paper Birch	0	0	0	0	0	0	0	12	0	0	0	0	0	0	0	0	0	0	12
Red Pine	0	0	0	0	0	25	0	9	0	0	0	0	0	0	0	0	0	0	34
Upland Conifers	0	0	0	0	0	0	0	18	0	0	0	0	0	0	1	0	0	0	19
Upland Mixed Forest	0	0	0	0	0	0	20	0	0	0	0	0	0	0	0	0	0	0	20
Urban	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9
Water	12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12
Total	74	87	19	5	63	110	20	79	0	53	30	62	0	81	1	0	0	520	1202



## **Report 2 – Treatment Summary**

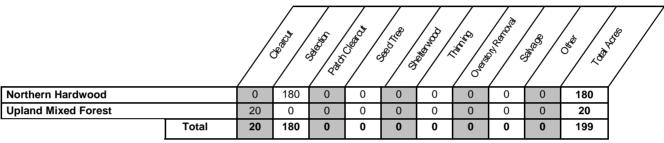
Shingleton Mgt. Unit Year of Entry: 2027

#### **Acres of Harvest**

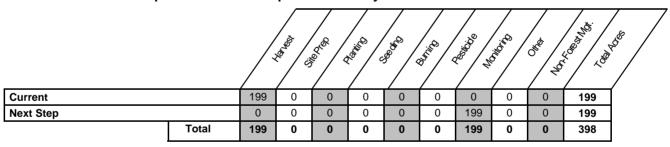
Compartment 171
Total Compartment Acres: 1,202

Commercial Harvest - 358
Harvests with Site Condition - 0
Next Step Harvest - 0
Habitat Cut - 20

## **Cover Type by Harvest Method**



## **Proposed and Next Step Treatments by Method**



s	\$	Shingleto	n Mgt. Unit		Repo	rt 3 T	Treatments		Compartmer Year of Entr		OF NATURAL PROPERTY OF NAT
t a n d	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
pos	ed Treatmen	ts:									
12	41171012-Cut	108.6	4112 - Maple, Beech, Cherry Association	9	95	81-110	Harvest	Selection	411 - Northern Hardwood	Current	No
Pres Spe		the Comp	ete Marker mark do	own to 85B	Α						
Trea Acce Reg Othe	atments: eptable Hardwo en:	G.	al Regen (Re-Inver	ntory)							
<u>Site</u>	Condition:										
Prop	oosed Start Date:	10/01/20	026								
26	41171026-Cut	19.6	4319 - Mixed Upland Forest	6	51	81-110	Harvest	Clearcut	4199 - Other Mixed Upland Deciduous	Planting Record	Yes
Pres Spe		t with rete	ntioninclude drumm	ing log spe	С						
	t Step Monitor atments:	ing, Natur	al Regen (Intermed	liate)							
Acce Reg		c of trees p	previously on site								
Othe Con	<u>er</u> nment:										

## **Approved Treatments:**

Proposed Start Date: 10/01/2026

Site Condition:

4 411710	004-Cut	12.5 4110 - Sugar Ma Association	ple 9	95	51-80	Harvest	Selection	411 - Northern Hardwood	Current	No
Prescription Specs:	harvest.	n to 85BA. The northeaspecies diversity when p		hills, rer	member to	mark for operat	ions on slopes, so	ome slopes may be	too steep to m	nachine
Next Step Treatments:	Monitorin	g, Natural Regen (Re-In	ventory)							
Acceptable Regen:	northern I	Hardwoods								
Other Comment:	This stand	d already marked as par	rt of TS: 41-0	38-17, 1	/2 of unit 2	of sale was und	cut.			
Site Conditio	<u>n:</u>									
Proposed Sta	art Date:	10/01/2022								

Shingleton Mgt. Unit Report 3 -- Treatments Compartment: 41171 S Year of Entry: 2027 t а **Treatment** Size Stand ВА **Treatment Treatment Cover Type Acres** Stand Age Habitat n Density Method Objective Structure Name CoverType Range Type Age Cut d 999 41171999-Cut 58.5 4110 - Sugar Maple 81-110 Harvest Selection 411 - Northern Current No Association Hardwood Prescription Mark down to 85BA. The northeast has steep hills, remember to mark for operations on slopes, some slopes may be too steep to machine Specs: harvest. Promote species diversity when possible. Next Step Monitoring, Natural Regen (Re-Inventory) Treatments: Acceptable Northern Hardwood Regen: Other Comment:

Total Treatment 199.2 Acreage Proposed:

Proposed Start Date: 10/01/2022

Site Condition:

Shingleton Mgt. Unit

Mario Molin: Examiner Year of Entry: 2027



Compartment: 171

Availa	ability for	Managemei	nt					
Total	Acres	Acres Avail	Acres		Domina	nt Sit	e Cond	ditions
Acres	Available	With Condition	Not Available		2G	5D	5E	
222	218	0	4	Aspen			4	Ì
1	1	0	0	Bog				
81	81	0	0	Cedar				
4	4	0	0	Exposed Rock				
19	19	0	0	Herbaceous Openland				
53	53	0	0	Lowland Conifers				
22	6	0	16	Lowland Mixed Forest		16		
24	24	0	0	Lowland Shrub				
5	5	0	0	Marsh				
616	609	0	7	Northern Hardwood	6		1	İ
12	12	0	0	Paper Birch				
14	9	0	5	Red Pine			5	
19	19	0	0	Upland Conifers				
20	20	0	0	Upland Mixed Forest				İ
9	9	0	0	Urban				İ
12	12	0	0	Water				
1,134	1,102		32	Total Forested Acres	6	16	10	
	97%		3%	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	Unavailable 2G: Too wet (sensitive soils, does not include access issues)		6 Unspecified		Unspecified	Unspecified	Unspecified
	Comments:						
	An isolated stand the	at is also very wet, too small t	o to put u	ip and sell as a winter har	vest.		
3	An isolated stand the	at is also very wet, too small t  5D: Unproductive forest land	o to put u	up and sell as a winter har	vest. Unspecified	Unspecified	Unspecified
3		5D: Unproductive forest	•			Unspecified	Unspecified

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13 Unavailable 5E; Long-Term Retention 4 Unspecified Unspecified Unspecified Unspecified  Comments:  15 Unavailable 5E; Long-Term Retention 3 Unspecified Unspecified Unspecified Unspecified  Comments:  16 Unavailable 5E; Long-Term Retention 3 Unspecified Unspecified Unspecified Unspecified  Comments:  17 Unavailable 5E; Long-Term Retention 2 Unspecified Unspecified Unspecified Unspecified  Comments:  18 Unavailable 5E; Long-Term Retention 1 Unspecified Unspecified Unspecified Unspecified  Comments:  19 Unavailable 5E; Long-Term Retention 1 Unspecified
15 Unavailable 5E: Long-Term Retention 3 Unspecified Unspecified Unspecified Unspecified  Comments:  16 Unavailable 5E: Long-Term Retention 3 Unspecified Unspecified Unspecified Unspecified  Comments:  17 Unavailable 5E: Long-Term Retention 2 Unspecified Unspecified Unspecified Unspecified  Comments:  18 Unavailable 5E: Long-Term Retention 1 Unspecified Unspecified Unspecified Unspecified  Comments:  19 Unavailable 5E: Long-Term Retention 1 Unspecified Unspe
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Comments:  19 Unavailable 5E: Long-Term Retention 1 Unspecified Unspecified Unspecified Unspecified Unspecified
19 Unavailable 5E: Long-Term Retention 1 Unspecified Unspecified Unspecified Unspecified Unspecified
Comments:
20 Unavailable 5E: Long-Term Retention 1 Unspecified Unspecified Unspecified Unspecified Unspecified
Comments:
22 Unavailable 5E: Long-Term Retention 1 Unspecified Unspecified Unspecified Unspecified
Comments:
700000 10 40 05 PM Provide (44

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23	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
C	Comments:						
24	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
C	Comments:						
25	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
C	Comments:						
26	Unavailable	5E: Long-Term Retention	0	Unspecified	Unspecified	Unspecified	Unspecified
C	Comments:						
27	Unavailable	5E: Long-Term Retention	0	Unspecified	Unspecified	Unspecified	Unspecified
C	Comments:						
28	Unavailable	5E: Long-Term Retention	0	Unspecified	Unspecified	Unspecified	Unspecified
C	Comments:						
30	Unavailable	5E: Long-Term Retention	0	Unspecified	Unspecified	Unspecified	Unspecified
C	Comments:						
32	Unavailable	5E: Long-Term Retention	0	Unspecified	Unspecified	Unspecified	Unspecified
C	Comments:						

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34	Unavailable	5E: Long-Term Retention	0	Unspecified	Unspecified	Unspecified	Unspecified
C	Comments:						
35	Unavailable	5E: Long-Term Retention	0	Unspecified	Unspecified	Unspecified	Unspecified
C	Comments:						
36	Unavailable	5E: Long-Term Retention	0	Unspecified	Unspecified	Unspecified	Unspecified
C	Comments:						
37	Unavailable	5E: Long-Term Retention	0	Unspecified	Unspecified	Unspecified	Unspecified
C	Comments:						
38	Unavailable	5E: Long-Term Retention	0	Unspecified	Unspecified	Unspecified	Unspecified
C	Comments:						
39	Unavailable	5E: Long-Term Retention	0	Unspecified	Unspecified	Unspecified	Unspecified
C	Comments:						

Mgt. Unit Compartment: #Type!
Year of Entry:

## Report 5 - PROPOSED SPECIAL CONSERVATION AREA\* (SCA) DETAILS

\* This is a partial list of SCAs for this compartment. Not included are those areas identified under other Department initiatives (Natural Rivers, Deer Wintering Areas, etc.). Those will be identified in separate, future map and report products.

SCA Name	SCA Category	Detail Type	Recommendation	Acres
Comments				



Stand	d Level 4 C	over Type		Size Dens	ity	Acres	Stand Age E	BA Range	Managed Si	te	General Comments
1	4110 - Sugar N	Maple Assoc	ciation	Sawtimber	Well	22.7	90	81-110	N/A		[07/07/2008] Stand is now under contract TS# 41-001-08-01. Residual
	Canopy Species	% Cover	Size Class	DBH A	ge	Sub-Ca	nopy Species	Density	Avg. Height	Size	BA: mixed hardwood = 81; yellow birch = 1; hemlock = 1; total = 83 sq.ft/acre.
	Quaking Aspen	5		14		Ва	sam Fir	Low	5 - 10 feet	5 - 10 feet	[6-29-10] Sale is now completed TCR dtd 6-29-10.
	Black Cherry	5		12		Sug	ar Maple	Medium	5 - 10 feet	5 - 10 feet	
	Sugar Maple	75		12	90	Re	d Maple	Medium	5 - 10 feet	5 - 10 feet	
	Red Maple	15		12				,			-
2	4130	- Aspen		Sapling V	/ell	14.8	15	Immature	N/A		[07/07/2008] Stand is now under contract TS# 41-001-08-01.
	Canopy Species	% Cover	Size Class	DBH A	ge						[6-29-10] Sale is now completed TCR dtd 6-29-10.
	Quaking Aspen	100	Log		15						
3	31022 - Warn	n Season G	irass	None		2.1			No		2025 Some scattered trees
4	4110 - Sugar N	/laple Assoc	ciation	Sawtimber	Well	14.6	95	51-80	N/A		
	Canopy Species	% Cover	Size Class	DBH A	.ge	Sub-Ca	nopy Species	Density	Avg. Height	Size	
	Yellow Birch	5		12		E	Beech	Medium	5 - 10 feet	5 - 10 feet	
	Sugar Maple	80		14	95	Sug	ar Maple	High	5 - 10 feet	5 - 10 feet	
	Red Maple	15		14		Re	d Maple	High	5 - 10 feet	5 - 10 feet	
5	6120 - Lo	wland Ceda	r	Sawtimber	Well	64.3	129	141-170	N/A		2015: Very wet ground containing small drains scattered within the
	Canopy Species	% Cover	Size Class	DBH A	.ge	Sub-Ca	nopy Species	Density	Avg. Height	Size	stand. Some cedar regeneration in areas, mainly from layering. Cedar is large and old but of poor quality, crooked and spirals. Scattered
	Red Maple	5	Seedling	8		Re	d Maple	Low	Variable	Variable	hemlock and white pine near the hardwood types. 10 BA snags.
	Balsam Fir	5	Seedling	8		Northern	White Cedar	Medium	Variable	Variable	
	Black Ash	5	Seedling	6		Ва	sam Fir	Medium	Variable	Variable	
	Black Spruce	5		10							
No	orthern White Cedar	80		14 1	29						
6	429 - Mixed l	Jpland Con	ifers	Sawtimber	Well	1.2	135	111-140	N/A		2015: Small island of large diameter White pine and Hemlock, has all the signs of type 2 old growth.
	Canopy Species		Size Class		_						the sights of type 2 old growth.
	Hemlock	55		20 1	35						
	White Pine	45		24 1	35						
7	6139 - Mixed	Lowland Fo	orest P	oletimber M	lediun	n 16.0	90	51-80	N/A		_
	Canopy Species	% Cover	Size Class	DBH A	.ge	Sub-Ca	nopy Species	Density	Avg. Height	Size	
	Black Ash	30	Pole	4		Bla	ack Ash	Medium	Variable	Variable	
	Balsam Fir	5	Pole	4		Ва	sam Fir	Medium	Variable	Variable	
	Yellow Birch	1		10		H	emlock	Low	Variable	Variable	
	Black Spruce	40	Pole		90						
	Hemlock	9		12							
	White Pine	5	Seedling	6							
	Red Maple	10		12							



Stand	Level 4 C	over Type		Size De	nsity	Acres	Stand Age	BA Range	Managed S	ite	General Comments
8	4130 Canopy Species	- Aspen	Size Class	Sapling <b>DBH</b>	Well <b>Age</b>	11.6	4	Immature	N/A		2015: Hybrid Aspen plantation planted in1976. Aspen is a cross breed between species of Aspen and not a G.M.O (Genetically Modified Organism)
	Quaking Aspen	100	Log	1	4						modified Organism,
		, ,		,							There is a folder with a lot of data about the project- intent was to try to produce a fast growing aspen tree that could be harvested in 20 years on lower quality soils.
											TS: 41-038-17
9	4111 - S.Maple, H	ard Mast As	ssociation	Poletimb	er Well	13.7	95	81-110	N/A		
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Ca	nopy Species	s Density	Avg. Height	Size	
	Sugar Maple	75		10	95	I	Beech	Low	Variable	Variable	
	Balsam Fir	5	Seedling	8		Ва	lsam Fir	Medium	Variable	Variable	
	Yellow Birch	5		10							_
	Beech	15		10							
10	6130 - Fir,	Aspen, Map	ole	Poletimbe	er Poor	6.4	60	1-50	N/A		Wetland/creek, beaver flooding
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Ca	nopy Species	s Density	Avg. Height	Size	
	Red Maple	50	Sapling	5		Ta	ag Alder	High	Variable	Variable	
	Balsam Fir	50	Sapling	5	60						_
11	4110 - Sugar M	1aple Assoc	ciation	Sawtimb	er Well	91.0	95	51-80	N/A		[11/8/12 bb] Stand was added to the 2014 Compartment Review as an
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Ca	nopy Species	s Density	Avg. Height	Size	Out of Entry Treatment due to the rapid spread of BBD and overall decline of the species within the stand. Stand was part of a Unit wide
	Sugar Maple	80		14	95	I	Beech	Medium	5 - 10 feet	5 - 10 feet	analysis. The harvest is a salvage cut in which all the beech and ash
	Red Maple	20		14		Sug	gar Maple	High	5 - 10 feet	5 - 10 feet	will be designated unless retained for mast or resistance.
						Re	d Maple	High	5 - 10 feet	5 - 10 feet	4/16/13 bb] After a more thorough look the stand is being dropped as
											a salvage cut because, the stand has a current BA of 110-120 and would have to be marked to harvest the Beech. The Beech volume is very low in the stand to begin with. This stand will be thinned next YOE 2017 and the Beech present is expected to have fallen out of the stand by then reducing the need to deal with Beech brush post-harvest.
											TS: 41038-17 units 2-4
12	4112 - Maple, Beed	h, Cherry A	ssociation	Sawtimb	er Well	108.6	95	81-110	N/A		2015: Regeneration is patchy. There is a drainage in the middle of
	Canopy Species	% Cover	Size Class		Age		nopy Species	s Density	Avg. Height	Size	the stand, which may change one way or another with the road improvement.
	Quaking Aspen	4		12		Sug	gar Maple	Medium	Variable	Variable	
	Black Cherry	1		12		Re	d Maple	Medium	Variable	Variable	
	Sugar Maple	70		14	95						
	Red Maple	25		14							



Stand	Level 4 Co	over Type		Size Density	Acres	Stand Age B	ge BA Range Managed Site		Site	General Comments
13	4117 - Mixed N.	Hardwood	- Pine P	oletimber Mediur	m 6.7	40	1-50	N/A	Ą	
	Canopy Species	% Cover	Size Class	DBH Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	
	Red Maple	30	Seedling	5	Re	d Maple	Low	10 - 20 feet	10 - 20 feet	
	White Pine	40	Seedling	5 40	Wh	ite Pine	Low	10 - 20 feet	10 - 20 feet	
	Black Cherry	30	Seedling	5	Blad	k Cherry	Low	10 - 20 feet	10 - 20 feet	
14	4112 - Maple, Beec	h, Cherry A	ssociation	Poletimber Well	14.8	75	81-110	N/A	4	
	Canopy Species	% Cover	Size Class	DBH Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	
	Balsam Fir	5	Seedling	8	Re	d Maple	Low	< 5 feet	< 5 feet	
	Sugar Maple	5	Seedling	8	Ва	sam Fir	Medium	Variable	Variable	
	Red Maple	80	Seedling	8 75						
	Paper Birch	10	Seedling	6						
15	4110 - Sugar M	laple Assoc	ciation	Sawtimber Well	107.6	95	51-80	N/A	4	2015: Small scattered pockets of completely healthy looking beech in
	Canopy Species	% Cover	Size Class	DBH Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	the stand, most of the beech is dead or dying. No reason to enter early for salvage purposes.
	Sugar Maple	90		12 95	Sug	ar Maple	Medium	Variable	Variable	TS: 41-038-17 units 5-7
	Beech	5		12	E	Beech	Low	Variable	Variable	
	Basswood	2		12						-
	Black Cherry	3		12						
16	4130	- Aspen		Sapling Medium	5.3	27	1-50	N/A	4	2015: Wetland of some kind, lots of lilies and other flowers. Appears
	Canopy Species	% Cover	Size Class	DBH Age						to be a pair of sandhill cranes using the area.
	Quaking Aspen	100	Pole	4 27						<b>3</b>
17	122 - Road	I/Parking Lo	ot	None	4.2			No	)	
18	6233 - W	et Meadow	,	None	1.5			No	)	2015: Wetland of some kind, lots of lilies and other flowers. Appears to be a pair of sandhill cranes using the area.
19	6239 - Mixed E	mergent W	etland	None	3.5			No	)	2015: When harvesting adjacent to the stand special care should be taken to keep equipment out of the stand.
20	4140 - Other U	pland Decid	duous	Sawtimber Well	12.0	64	81-110	N/A	4	
	Canopy Species	% Cover	Size Class	DBH Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	
	Sugar Maple	25		12	Iro	nwood	Medium	10 - 20 feet	10 - 20 feet	
	Paper Birch	65		12 64	Ва	sam Fir	Low	10 - 20 feet	10 - 20 feet	
	Quaking Aspen	10	Seedling	8	Sug	ar Maple	High	10 - 20 feet	10 - 20 feet	
					Par	er Birch	Low	10 - 20 feet	10 - 20 feet	
					Blad	k Cherry	Low	10 - 20 feet	10 - 20 feet	
21	3102	- Grass		None	2.8			No	)	

Stands Compartment: 171
Year of Entry: 2027

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Stan	d Level 4 C	Cover Type Size Density Acres Stand Age BA Range Managed Site		ite	General Comments						
22	4130 - Aspen			Poletimber Well		26.0	38	81-110	N/A		
	Canopy Species	% Cover	Size Class	s DB	H Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	
	Sugar Maple	5	Seedling	6		Suç	gar Maple	Medium	10 - 20 feet	10 - 20 feet	
	White Pine	5	Seedling	8		W	nite Pine	Low	10 - 20 feet	10 - 20 feet	
	Quaking Aspen	80	Seedling	6	38	Bla	ck Cherry	Low	10 - 20 feet	10 - 20 feet	
	White Spruce	5	Seedling	8				,			<del>-</del>
	Red Pine	5	Seedling	8							
23	42110 - Pla	nted Red P	ine	Sawtim	oer Well	9.2	64	81-110	N/A	١	Melstrand Mixed Timber: 41-037-17-01
	Canopy Species	% Cover	Size Class	s DB	H Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	
	Red Pine	100		10	64	Suç	gar Maple	Medium	5 - 10 feet	5 - 10 feet	
						Qual	king Aspen	Medium	5 - 10 feet	5 - 10 feet	
						W	nite Pine	Low	< 5 feet	< 5 feet	
24	4133 - Aspe	en, Mixed P	rine	Poletim	oer Well	8.1	45	51-80	N/A	<b>\</b>	[2/3/03] Spruce were planted as a wind break under FTP C41-811 in
	Canopy Species	% Cover	Size Class	s DB	H Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	2000, and are currently healthy. No further monitoring necessary.
	Sugar Maple	5	Seedling	6		Sug	gar Maple	Low	5 - 10 feet	5 - 10 feet	2015: Scotch pine has been found in the stand.
	Quaking Aspen	60	Seedling	6	45	Whi	te Spruce	Medium	5 - 10 feet	5 - 10 feet	
	Red Pine	20	Seedling	8		W	nite Pine	Low	5 - 10 feet	5 - 10 feet	
	White Spruce	5	Seedling	8		Bla	ck Cherry	Low	5 - 10 feet	5 - 10 feet	
	White Pine	5	Seedling	8							
	Scotch Pine	5	Seedling	6							
25	4119 - Mixed No	orthern Har	dwoods	Sawtim	oer Well	8.1	64	81-110	N/A	1	2015: Very good birch regeneration.
	Canopy Species	% Cover	Size Class	s DB	H Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	
	Yellow Birch	5	Seedling	6		Sug	gar Maple	Medium	Variable	Variable	
	Sugar Maple	70		10	64	Yel	low Birch	Medium	Variable	Variable	
	Paper Birch	25		10		Bla	ck Cherry	Medium	Variable	Variable	
						Ва	lsam Fir	Medium	Variable	Variable	
26	4319 - Mixed	d Upland Fo	orest	Poletim	oer Well	19.6	51	81-110	N/A	١	2015: This is another odd aspen type cut, wait until fir is at rotation/
	Canopy Species	% Cover	Size Class	s DB	H Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	decline, this will give the time needed for the aspen to be at a better merchantable size and clear cut all species.
	Red Maple	5	Seedling	6		Qual	king Aspen	Medium	>20 feet	>20 feet	<u>'</u>
	Quaking Aspen	45		6	51						
	White Spruce	10	Seedling	8							
	Balsam Fir	30		8	65						
	White Pine	10		10							



Stand	I Level 4 C	over Type		Size Density	Acres	Stand Age	BA Range	Managed Si	ite	General Comments				
27	4130	- Aspen		Sapling Well	39.8	6	Immature	N/A		2015: Stand was multiple stands last inventory, all were similar in				
	Canopy Species	% Cover	Size Class	DBH Age						tructure and should be managed as one. All the stands were nanaged somewhat oddly in the past, it seems like pockets of aspen				
	Quaking Aspen	100	Log	2 6						were harvested when they became merchantable, so stand has a				
										multi aged look. Age given is based on last cutting record but stand has everything from saplings to logs .Melstrand Mixed Timber: 41-037-17-01				
30	4130	- Aspen		Poletimber Well	12.8	37	1-50	N/A						
	Canopy Species	% Cover	Size Class	DBH Age	Sub-Ca	nopy Species	Density	Avg. Height	Size					
	Balsam Fir	5	Seedling	5	Ва	alsam Fir	Low	< 5 feet	< 5 feet					
	Quaking Aspen	85	Seedling	5 37						<del>-</del>				
	Red Maple	5	Seedling	5										
	Paper Birch	5	Seedling	5										
31	4110 - Sugar N	4110 - Sugar Maple Association		110 - Sugar Maple Association		) - Sugar Maple Association Sav		Sawtimber Well		95	81-110	N/A		[6-8-07] Stand is now under sale contract 41-008-07-02 DOC  Melstrand Hardwood.[1-28-09] Sale is completed TCR dtd 1-27-
	Canopy Species	% Cover	Size Class	DBH Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	99.2015: Stand appears to have been cut quite aggressively in the				
	Sugar Maple	100		14 95	Sug	gar Maple	High	Variable	Variable	past, the residual trees are of good quality and there is very good regeneration, this should allow for future cuts to be more traditional				
										and push the stand into an uneven aged status.2020: Consider adding to hardwood stands to the to the south when those get treated. south				
33	622 - Lov	vland Shrub	)	None	17.9			No						
34	6220 - A	lder/Willow		None	6.5			No		Stand can go either way as nonforested lowland shrub or some sort reed bog.				
					Sub-Ca	nopy Species	Density	Avg. Height	Size	lieed bog.				
					Blac	ck Spruce	Low	Variable	Variable					
					Re	ed Maple	Medium	Variable	Variable					
					Ta	ag Alder	High	10 - 20 feet	10 - 20 feet					
35	122 - Road	d/Parking L	ot	None	5.0			No						
36	6120 - Lo	wland Ceda	ar	Sawtimber Well	16.8	126	171-200	N/A		2015: Spine in middle of stand with log x-log sized red maple and				
	Canopy Species	% Cover	Size Class	DBH Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	hemlock.				
	Red Maple	10		10	ВІ	ack Ash	Low	Variable	Variable					
	Black Spruce	2		10	Re	ed Maple	Medium	Variable	Variable					
NIo	rthern White Cedar	80		12 126	Ва	alsam Fir	Medium	Variable	Variable					
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Stand	Level 4 C	Cover Type Size Density Acres Stand Age BA Range Managed Site		Site	General Comments						
37	4110 - Sugar Maple Association			Sawtimber Wel		62.1	100	81-110	N/A		2015: Mainly 12-14in log stand of sugar maple and basswood, very
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	little regen. Hilly terrain. Melstrand Mixed Timber: 41-037-17-01
	Basswood	15		14		Ва	lsam Fir	Medium	>20 feet	>20 feet	Molotrana Mixed Timbol. 41 007 17 01
	Sugar Maple	65		14	100	Ва	sswood	Low	Variable	Variable	
	Red Maple	20		12		Sug	ar Maple	Low	Variable	Variable	
38	4110 - Sugar N	Maple Asso	ciation	Sawtimbe	er Well	13.9	95	81-110	N/A	4	Melstrand Mixed Timber: 41-037-17-01
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	
	Basswood	5		12		Sug	ar Maple	Low	5 - 10 feet	5 - 10 feet	
	Black Cherry	5		10		Ire	onwood	Low	10 - 20 feet	10 - 20 feet	
	Ironwood	5	Seedling	6							-
	Sugar Maple	80		10	95						
	Paper Birch	5	Seedling	6							
39	429 - Mixed	Upland Con	ifers	Poletimbe	er Well	18.1	65	51-80	N/A	Ą	
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	
	Paper Birch	10	Seedling	8		Bla	ck Cherry	Low	< 5 feet	< 5 feet	
	Quaking Aspen	25	Seedling	6							
	Balsam Fir	15	Seedling	6							
	White Spruce	45	Seedling	8	65						
	Black Spruce	5	Seedling	6							
40	720 - Ex	posed Rock	(	Non	ie	4.3			No	)	GRAVEL PIT
41	4112 - Maple, Beed	ch, Cherry A	Association	Sawtimbe	er Well	19.8	95	81-110	N/A	4	2015: Poor quality stand, not much regeneration, consider cutting in
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	ten years.
	Balsam Fir	4	Seedling	6		Re	d Maple	Medium	Variable	Variable	
	Sugar Maple	5		10		-	Beech	Medium	Variable	Variable	
	Red Maple	75		10	95	Bla	ck Cherry	Low	Variable	Variable	
	White Pine	1		10							_
	Black Cherry	10		10							
	Beech	5		10							
42	4130	- Aspen		Sapling	Well	3.7	16 I	mmature	N/A	Ą	[10-10-08 JS] Sold as negotiated sale 41-043-08-02 and FTP# W41-
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	↑ 1391 ☑ [1-14-09] TCR has been signed.
	Quaking Aspen	100		3	16	Sug	ar Maple	High	< 5 feet	< 5 feet	[5-1-09 JS] Dave gave this FTP to DOC (Kip) to do. [4/30/09] DOC cut residual trees - close FTP
						Bla					



Stand	Level 4 C	over Type		Size De	ensity	Acres	Stand Age B	A Range	Managed Si	te	General Comments
44	4110 - Sugar N	ciation	Sawtimb	Sawtimber Well		65	51-80	N/A		[6-8-07] Stand is now under sale contract 41-008-07-02 DOC	
	Canopy Species	% Cover	Size Class	DBH	I Age	Sub-Car	nopy Species	Density	Avg. Height	Size	Melstrand Hardwood. [1-28-09] Sale is completed TCR dtd 1-27-09.
	Quaking Aspen	5	Seedling	8		Iro	nwood	Low	< 5 feet	< 5 feet	
	Balsam Fir	5	Seedling	6		В	Beech	Low	< 5 feet	< 5 feet	
	Sugar Maple	80		10	65	Blac	k Cherry	Low	< 5 feet	< 5 feet	
	Red Maple	10		10							
45	6124 - Lowla	and Spruce	-Fir	Sawtimb	er Well	52.6	85	81-110	N/A		
	Canopy Species	% Cover	Size Class	DBH	I Age	Sub-Car	nopy Species	Density	Avg. Height	Size	
	Red Maple	15	Seedling	6		Red	d Maple	Low	Variable	Variable	
	Balsam Fir	20	Seedling	8		Bal	sam Fir	Low	< 5 feet	< 5 feet	
	Black Ash	5	Sapling	6		Northern	White Cedar	Low	Variable	Variable	
	Black Spruce	45		10	85						
No	rthern White Cedar	5	Seedling	6							
	Yellow Birch	5	Seedling	8							
	Quaking Aspen	5	Seedling	6							
48	4119 - Mixed No	orthern Har	dwoods	Sawtimb	er Well	9.7	65	51-80	N/A		[6-8-07] Stand is now under sale contract 41-008-07-02 DOC
	Canopy Species	% Cover	Size Class	DBH	l Age	Sub-Car	nopy Species	Density	Avg. Height	Size	Melstrand Hardwood.[1-28-09] Sale is completed TCR dtd 1-27- 09.10/21/2015 "This stand was flagged with high or very high
	Balsam Fir	10	Seedling	6		Suga	ar Maple	Low	Variable	Variable	potential for spruce budworm impact but the decision at Compartmer
	Yellow Birch	5		10		В	Beech	Low	Variable	Variable	Review was not to harvest the stand at this time."
	White Spruce	10	Seedling	6		Bal	sam Fir	Low	Variable	Variable	
	Sugar Maple	60		8	65						
	Red Maple	15	Seedling	8							
50	4110 - Sugar N	/laple Asso	ciation	Sawtimb	er Well	2.5	60	81-110	N/A		
	Canopy Species	% Cover	Size Class	DBH	I Age	Sub-Car	nopy Species	Density	Avg. Height	Size	
	Beech	5	Seedling	8		В	Beech	Medium	Variable	Variable	
	Sugar Maple	90		10	60	Suga	ar Maple	Medium	Variable	Variable	
	Bigtooth Aspen	4		10							-
	Black Cherry	1	Seedling	6							
51	4130	- Aspen		Poletimb	er Well	76.6	41	81-110	N/A		
	Canopy Species	% Cover	Size Class	DBH	I Age	Sub-Car	nopy Species	Density	Avg. Height	Size	
	Red Maple	10	Seedling	6		Red	d Maple	Low	Variable	Variable	
	Quaking Aspen	80		8	41	Wh	ite Pine	Low	Variable	Variable	
	White Pine	5	Seedling	8		Blac	k Cherry	Low	Variable	Variable	
	Black Cherry	5	Seedling	6					-		_
53	42110 - Pla	nted Red P	rine	Poletimb	er Well	25.0	43	81-110	N/A		Melstrand Mixed Timber: 41-037-17-01
	Canopy Species	% Cover	Size Class	DBH	I Age						
	Red Pine	100	Seedling	8	43						



Stand	tand Level 4 Cover Type			Size Density		Acres	Stand Age B	A Range	Managed S	ite	General Comments
55	4112 - Maple, Beed	ch, Cherry A	Association	Sawtimbe	r Well	17.0	91	81-110	N/A		2015: North end includes a small lowland piece with hemlock.
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	
	White Spruce	5	Seedling	8		Sug	jar Maple	Medium	Variable	Variable	
	Hemlock	5		12		Re	d Maple	Medium	5 - 10 feet	5 - 10 feet	
	Sugar Maple	60		12	91			,			-
	Red Maple	30		12							
56	4112 - Maple, Beed	ch, Cherry A	Association	Sawtimbe	r Well	6.0	60	111-140	N/A		
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	
	Yellow Birch	5	Seedling	8		Ва	lsam Fir	Low	< 5 feet	< 5 feet	
	Sugar Maple	60		10	60	E	Beech	High	10 - 20 feet	10 - 20 feet	
	Red Maple	35		10		Sug	jar Maple	Medium	Variable	Variable	
						Re	d Maple	Medium	Variable	Variable	
57	4130	- Aspen		Sapling Me	edium	4.5	6 I	mmature	N/A		
	Canopy Species		Size Class	DBH	Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	
	Quaking Aspen	90	Log	2	6	Ва	lsam Fir	Low	< 5 feet	< 5 feet	
	White Pine	5	Log	4							
	Black Cherry	5	Log	2							
60	500	- Water		None	)	11.5			No		2015: Pond with some flooding in the past, southwest has numerous snags in it.
63	4110 - Sugar N	Maple Assoc	ciation	Poletimbe	r Poor	6.6	60	1-50	N/A		2015: Old grass opening that is filling in.
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	
	Sugar Maple	45	Seedling	6	60	E	Beech	Low	Variable	Variable	
	Quaking Aspen	20	Log	2							
	Black Cherry	35	Seedling	6							
64	4130	- Aspen		Sapling \		30.9	4 I	mmature	N/A		2015: Small area was planted with red pine.
	Canopy Species	% Cover	Size Class	DBH	Age						
	Quaking Aspen	100	Log	1	4						
65	4110 - Sugar N	/laple Asso	ciation	Poletimbe		9.0	65	51-80	N/A		OPIC - FMD: Scattered large white spruce, red maple, aspen and cherry brush all about 15-20 feet tall. There are still some 1/10 acre
	Canopy Species	% Cover	Size Class		Age		nopy Species	Density	Avg. Height	Size	pockets of open area.
	White Pine	10	Seedling			Sug	ar Maple	Medium	Variable	Variable	
	Sugar Maple	80	Seedling		65		nite Pine	Low	10 - 20 feet	10 - 20 feet	
	Red Maple	10	Seedling	8		Blac	ck Cherry	Low	Variable	Variable	

Shingleton Mgt. Unit

Report 7 - Stands



Stanc	Level 4 C	over Type	Type Size Density Acres Stand Age BA Range Managed Site		ite	General Comments					
68	4130	- Aspen	F	Poletimber Wel		23.9	35	51-80	N/A	1	OPIC - FMD: Stand was cut and TSI'd in 90-91. Ground can be wet.
	Canopy Species	% Cover	Size Class	DBH	l Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	Scattered fir and white pine.
	Red Maple	10	Seedling	6		Re	d Maple	Low	5 - 10 feet	5 - 10 feet	
	Quaking Aspen	80	Seedling	7	35						
	Balsam Fir	5	Seedling	8							
	Black Spruce	5	Seedling	8							
70	622	5 - Bog		Noi	ne	1.1			No		
74	4113 - R.M	Maple, Conif	er F	Poletimb	er Well	5.4	60	81-110	N/A	1	Low wet ground when harvesting occurs it may need to be restricted
	Canopy Species	% Cover	Size Class	DBH	l Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	to winter time.
	American Elm	5	Seedling	6		Re	d Maple	Medium	Variable	Variable	
	Balsam Fir	10	Seedling	6		Ва	lsam Fir	Low	< 5 feet	< 5 feet	
	White Spruce	5	Seedling	8							
	Hemlock	10	Seedling	8							
	Sugar Maple	15	Seedling	8							
	Red Maple	55	Seedling	8	60						
400	3102	2 - Grass		Noi	ne	3.4			No		
						Sub-Ca	nopy Species	Density	Avg. Height	Size	
						Sug	gar Maple	Low	Variable	Variable	
						Piı	n Cherry	Low	Variable	Variable	
						Bla	ck Cherry	Trace	>20 feet	>20 feet	
401	3102	2 - Grass		Unspe	ecifed	10.5			No		
						Sub-Ca	nopy Species	Density	Avg. Height	Size	
						Sug	gar Maple	Low	Variable	Variable	
						Bla	ck Cherry	Low	>20 feet	>20 feet	
						Qual	king Aspen	Low	Variable	Variable	
						Piı	n Cherry	Low	Variable	Variable	
999	4110 - Sugar I	Maple Asso	ciation S	Sawtimb	er Well	68.3	91	81-110	N/A		
	Canopy Species	% Cover	Size Class	DBH	l Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	
	Beech	3		14			Beech	Low	5 - 10 feet	5 - 10 feet	
	Sugar Maple	80		14	91	Sug	gar Maple	Medium	5 - 10 feet	5 - 10 feet	
	Red Maple	17		14		Re	d Maple	Medium	5 - 10 feet	5 - 10 feet	