

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:

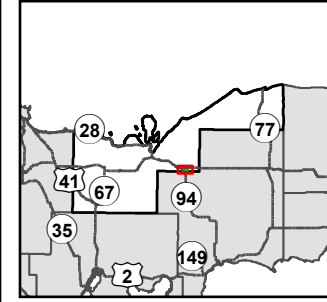
The following reports from the Inventory are attached:

- 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**

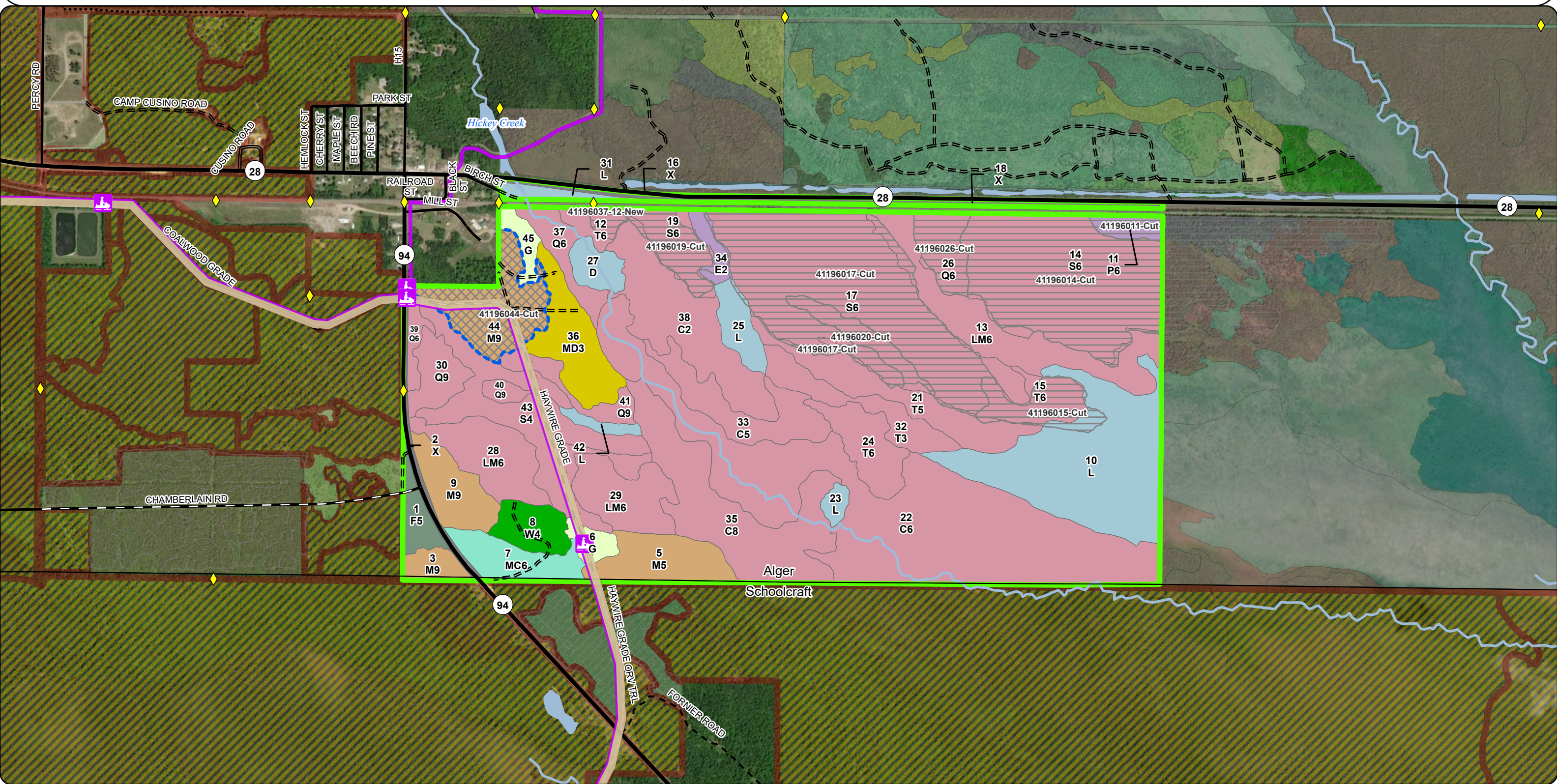
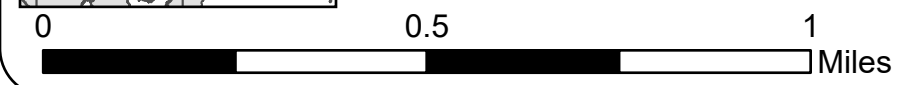
Cover Type & Treatments Map



Compartment: 41196
 T46N, R17W, Sec: 32, 33
 County: Alger
 Unit: Shingleton
 Mgmt. Area: Seney Lake Plain
 YOE: 2027
 Acres: 1,259 GIS Calculated
 Examiner: Steve Touvila
 Date Exported: 2/5/2026
 Map Phase: Post Review

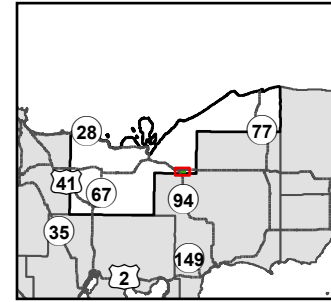
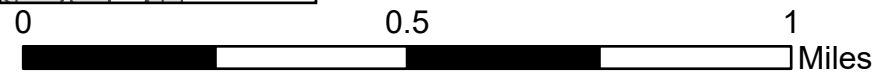
- Survey Grade Corners
- DNR - Primary Forest Road
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Federal / State Highway
- Federal / State / County - Paved Road
- Federal / State - Dirt / Gravel Road
- Private - Dirt / Gravel Road
- DNR - Management Access
- Streams
- Lakes and Rivers
- Compartment Boundary
- Clearcut
- Selection

- Treatments with Site Conditions
- 411 - Northern Hardwood
- 419 - Mixed Upland Deciduous
- 422 - Natural Pines
- 423 - Other Upland Conifers
- 429 - Mixed Upland Conifers
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 613 - Lowland Mixed Forest
- 122 - Road/Parking Lot
- 310 - Herbaceous Openland
- 622 - Lowland Shrub
- Herbaceous Openland



Stand Boundary Map

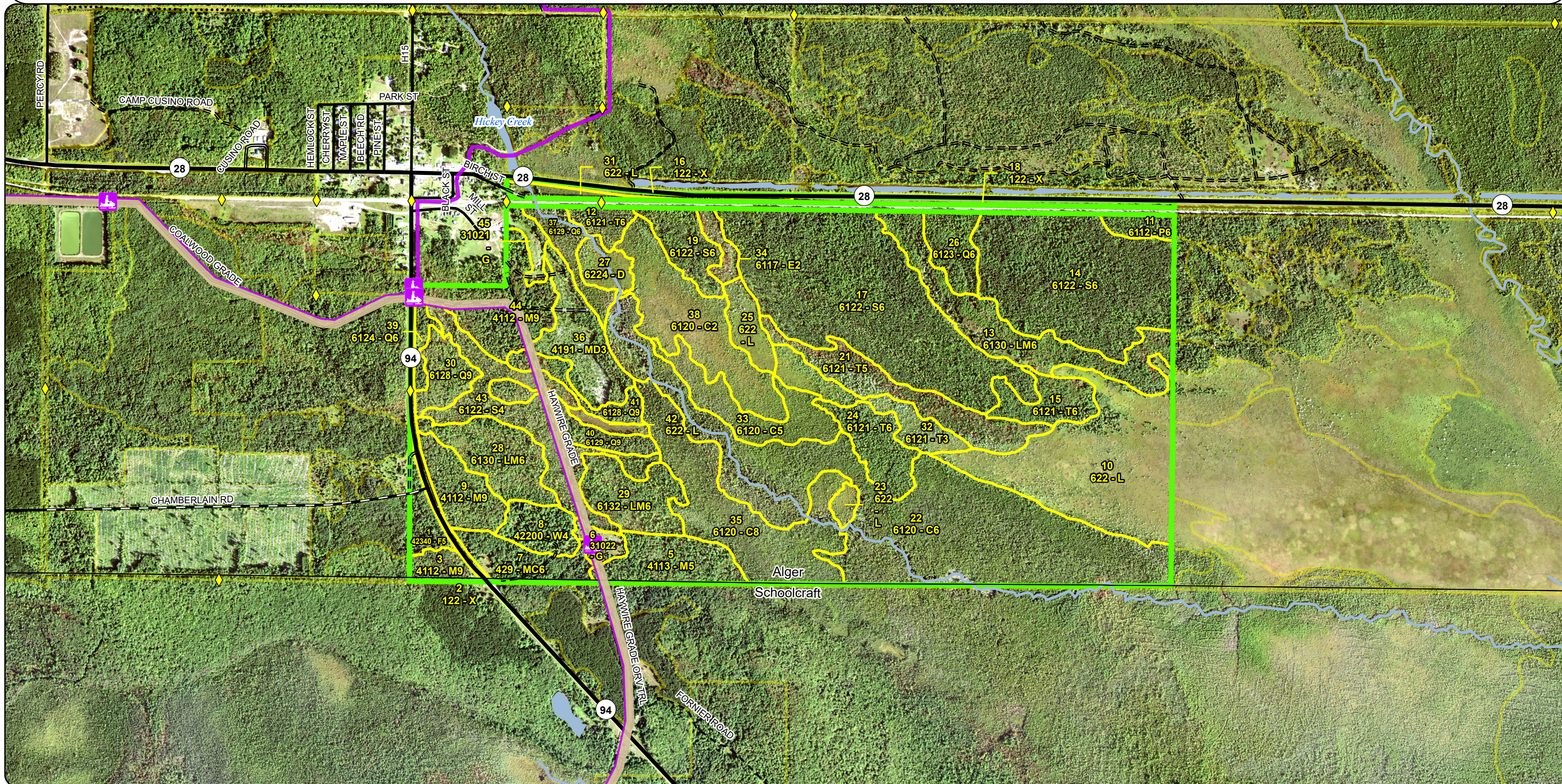
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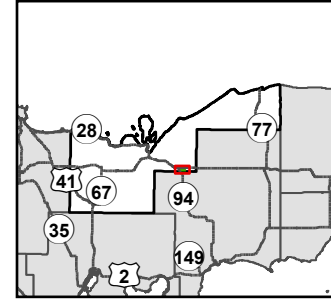
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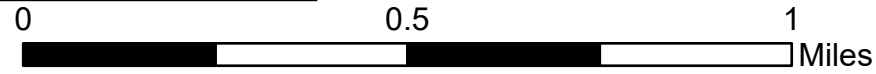
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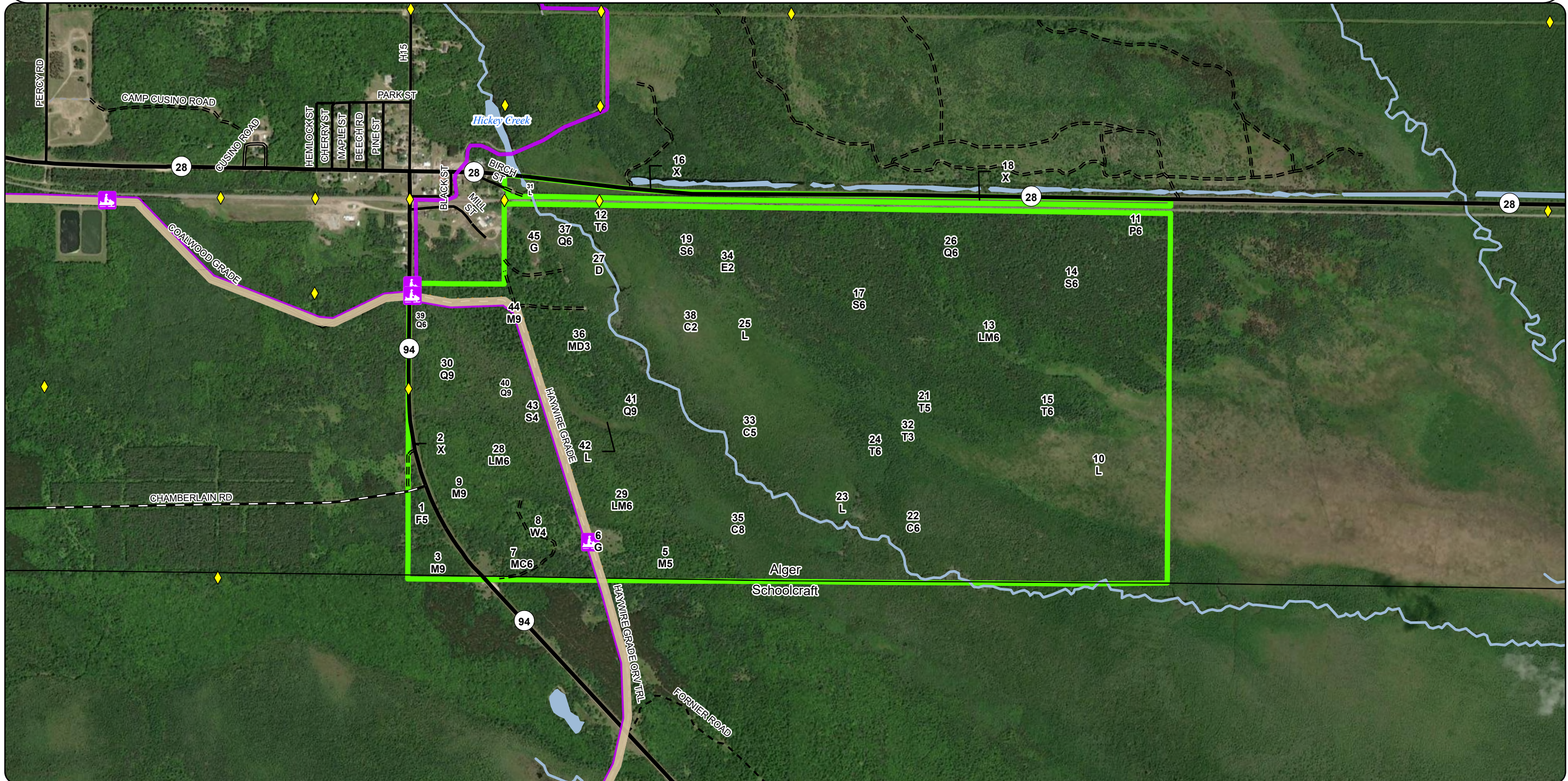
**Special Conservation Areas
& Site Conditions Map**



Compartment: 41196
 T46N, R17W, Sec: 32, 33
 County: Alger
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- DNR - Management Access
- Streams
- Lakes and Rivers
- Compartment Boundary
- Stand Boundaries
- Cold Water Streams
- High Priority Trout Stream Buffer
- Deer Winter Range
- Wildlife Research Areas



Report 1 – Total Acres by Cover Type and Age Class

Age Class

	Non-Forest	0-9	10-19	20-29	30-39	40-49	50-59	60-69	70-79	80-89	90-99	100-109	110-119	120-129	130-139	140-149	150+	Unseen-Aged	Total
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	5	29	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	79	57	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

	Clearcut	Selection	Patch Clearcut	Seed Tree	Shelterwood	Thinning	Overstory Removal	Salvage	Other	Total Acres
Lowland Aspen/Balsam Poplar	7	0	0	0	0	0	0	0	0	7
Lowland Conifers	15	0	0	0	0	0	0	0	0	15
Lowland Spruce/Fir	254	0	0	0	0	0	0	0	0	254
Northern Hardwood	0	36	0	0	0	0	0	0	0	36
Tamarack	23	0	0	0	0	0	0	0	0	23
Total	299	36	0	0	0	0	0	0	0	334

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	334	0	0	0	0	0	0	0	0	334
Next Step	0	0	0	0	0	0	334	0	0	334
Total	334	0	0	0	0	0	334	0	0	669

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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
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Approved Treatments:

11	41196011-Cut	7.0	6112 - Lowland Aspen	6	71	51-80	Harvest	Clearcut	611 - Lowland Deciduous Forest	Planting Record	No
<p><u>Prescription</u> Leave a few scattered white pine as retention. Cut all species except Hemlock and Oak. Cut trees down to 2" DBH.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Lowland deciduouswith some lowland coniferous.</p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition:</u></p> <p><u>Proposed Start Date:</u> 10/01/2016</p>											
14	41196014-Cut	99.3	6122 - Black Spruce	6	91	81-110	Harvest	Clearcut	6122 - Black Spruce	Planting Record	No
<p><u>Prescription</u> Cut all species except Hemlock and Oak. Retention areas should include Large White pine.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Any species that is currently in the stand.</p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition:</u></p> <p><u>Proposed Start Date:</u> 10/01/2016</p>											
15	41196015-Cut	19.6	6121 - Tamarack	6	89	81-110	Harvest	Clearcut	6121 - Tamarack	Planting Record	No
<p><u>Prescription</u> Cut all species but leave Hemlock and oak. Leave white pine in retention pockets.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Any species found on site.</p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition:</u></p> <p><u>Proposed Start Date:</u> 10/01/2016</p>											

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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
17 41196017-Cut	125.7	6122 - Black Spruce	6	91	111-140	Harvest	Clearcut	6122 - Black Spruce	Planting Record	No
<p><u>Prescription</u> Cut all trees except hemlock and oak. The hemlock came across was in the southeast part of the stand. There's a mix of 8" down to sapling size hemlock there. This would be a good spot for retention. Another good retention area would be on the north ce</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Black spruce and some mixed lowland coniferous.</p> <p><u>Regen:</u></p> <p><u>Other</u> Threatened species, check MNFI.</p> <p><u>Comment:</u></p> <p><u>Site Condition:</u></p> <p><u>Proposed Start Date:</u> 10/01/2016</p>										
19 41196019-Cut	17.1	6122 - Black Spruce	6	89	111-140	Harvest	Clearcut	6122 - Black Spruce	Planting Record	No
<p><u>Prescription</u> Cut all species except hemlock and oak. Leave some white pine within retention.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Black spruce with some balsam fir, white pine, and red maple.</p> <p><u>Regen:</u></p> <p><u>Other</u> Threatened species check MNFI.</p> <p><u>Comment:</u></p> <p><u>Site Condition:</u></p> <p><u>Proposed Start Date:</u> 10/01/2016</p>										
17 41196020-Cut	11.5	6122 - Black Spruce	6	91	111-140	Harvest	Clearcut	6121 - Tamarack	Planting Record	No
<p><u>Prescription</u> Cut all species except Hemlock and Oak. retention areas should include large white pine.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Mixed coniferous or deciduous.</p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition:</u></p> <p><u>Proposed Start Date:</u> 10/01/2016</p>										
26 41196026-Cut	15.4	6123 - Lowland Fir	6	51	51-80	Harvest	Clearcut	612 - Lowland Coniferous Forest	Planting Record	No
<p><u>Prescription</u> Cut all species except Hemlock and Oak. Leave some retention.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Black SpruceBalsam FirWhite PineRed Pinesome lowland deciduous</p> <p><u>Regen:</u></p> <p><u>Other</u> Threatened species check MNFI.</p> <p><u>Comment:</u></p> <p><u>Site Condition:</u></p> <p><u>Proposed Start Date:</u> 10/01/2016</p>										

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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
12 41196037-12-New	3.3	6121 - Tamarack	6	81	51-80	Harvest	Clearcut	612 - Lowland Coniferous Forest	Planting Record	No
<p><u>Prescription</u> Cut all trees on site except hemlock and oak. Leave a retention pocket within stand.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Any species Currently on site</p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition:</u></p> <p><u>Proposed Start Date:</u> 10/01/2016</p>										
44 41196044-Cut	35.5	4112 - Maple, Beech, Cherry Association	9	81	81-110	Harvest	Selection	411 - Northern Hardwood	Current	No
<p><u>Prescription</u> Widen existing regeneration gaps from previous harvest as needed, thin other areas to a target BA of 70 while looking at harvesting some of the xlog red maple. Northeast finger may be a location to make a new regeneration gap in the black cherry. Don't cu</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> any species currently present</p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition:</u> Survey Needed</p> <p><u>Proposed Start Date:</u> 10/01/2026</p>										

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 Available	Acres Avail		Dominant Site Conditions	Dominant Site Conditions				
		With Condition	Not Available		2I	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

Compartment: 196
Year of Entry: 2027

3	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
<p>Comments: Area between the railroad and the Hickey Creek, no access. (railroad) Retention for stand 19.</p>							
4	Unavailable	5E: Long-Term Retention	7	5F: Evaluated for Forest Health Considerations	Unspecified	Unspecified	Unspecified
<p>Comments:</p>							
5	Unavailable	3J: Water quality/BMPs (stream, river, or lake)	4	Unspecified	Unspecified	Unspecified	Unspecified
<p>Comments:</p>							
8	Unavailable	2J: Blocked by railroad	1	5E: Long-Term Retention	Unspecified	Unspecified	Unspecified
<p>Comments: Area between the railroad and the Hickey Creek, no access. (railroad) Long-term retention stand 20.</p>							
9	Unavailable	5E: Long-Term Retention	6	Unspecified	Unspecified	Unspecified	Unspecified
<p>Comments:</p>							
11	Unavailable	2J: Blocked by railroad	4	5E: Long-Term Retention	Unspecified	Unspecified	Unspecified
<p>Comments: Area between the railroad and the Hickey Creek, no access. (railroad) Long-term retention for stand 12-NEW.</p>							
12	Unavailable	5E: Long-Term Retention	0	Unspecified	Unspecified	Unspecified	Unspecified
<p>Comments: Area between the railroad and the Hickey Creek, no access. (railroad)</p>							

Report 4 – Site Conditions

Shingleton Mgt. Unit
Steve Touvila: Examiner

Compartment: 196
Year of Entry: 2027

13	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
<p>Comments: Area between the railroad and the Hickey Creek, no access. (railroad)</p>							
14	Unavailable	3J: Water quality/BMPs (stream, river, or lake)	38	Unspecified	Unspecified	Unspecified	Unspecified
<p>Comments: 100' stream buffer</p>							

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
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Comments

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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1	42340 - Upland Spruce/Fir	Poletimber Medium	10.0	41	51-80	N/A			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple		20	Pole/Sapling	5		Balsam Fir	Medium	Variable	Variable
Paper Birch		5	Pole/Sapling	6		White Pine	Low	Variable	Variable
Quaking Aspen		10	Pole	7		Black Cherry	Low	5 - 10 feet	5 - 10 feet
Balsam Fir		20	Pole/Sapling	5		Red Maple	Medium	10 - 20 feet	10 - 20 feet
White Spruce		40	Pole	6	41				
White Pine		5	Log/Pole	16					

2	122 - Road/Parking Lot	None	8.3			No	M-94
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3	4112 - Maple, Beech, Cherry Association	Sawtimber Well	8.1	86	81-110	N/A	Hercules Hardwood unit3 TS: 41-004-17-01 TCR: 8/28/2018		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple		30	Pole/Log	9		Black Cherry	Medium	5 - 10 feet	5 - 10 feet
Red Maple		40	Pole/Log	9	86	White Spruce	Low	< 5 feet	< 5 feet
White Spruce		2	Log	14		Sugar Maple	Medium	>20 feet	>20 feet
Black Cherry		28	Pole/Log	9		Red Maple	Medium	5 - 10 feet	5 - 10 feet
						Balsam Fir	Medium	5 - 10 feet	5 - 10 feet

5	4113 - R.Maple, Conifer	Poletimber Medium	26.0	81	51-80	N/A	Two aged stand after Sawmill Hardwood treatment. Combined thick regeneration with hemlock saplings doing well. About 1/3 of this stand (southern part) is seasonally wet. It was two separate stands in 2007 cut in 2010. Sawmill Hardwood (047-10) "Cut all trees marked in Orange and cut all Aspen, Spruce and Balsam". Stand is now a lower stocked Red maple stand. Residuals were recorded from Error combining sheet.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple		70	Pole	8	81	Red Maple	Medium	10 - 20 feet	10 - 20 feet
Yellow Birch		4	Pole/Sapling	6		Quaking Aspen	Medium	10 - 20 feet	10 - 20 feet
Balsam Fir		5	Pole	6		Hemlock	Medium	10 - 20 feet	10 - 20 feet
White Pine		10	Log/Pole	10		White Pine	Medium	Variable	Variable
Hemlock		10	Pole/Sap/Log	8		Black Cherry	Low	10 - 20 feet	10 - 20 feet
Black Cherry		1	Pole	8		Balsam Fir	Medium	Variable	Variable

6	31022 - Warm Season Grass	None	6.0			No	Grass opening with pin cherry scattered throughout.
Sub-Canopy Species		Density	Avg. Height	Size			
Pin Cherry		Medium	10 - 20 feet	10 - 20 feet			

7	429 - Mixed Upland Conifers	Poletimber Well	19.9	46	51-80	N/A	[5/25] BA is variable with some areas 81-110. Conifer stand with dense canopy.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple		15	Pole	6		Red Maple	Low	>20 feet	>20 feet
Quaking Aspen		5	Pole	8		Balsam Fir	Low	Variable	Variable
White Spruce		30	Pole	7		White Spruce	Medium	>20 feet	>20 feet
White Pine		50	Pole/Log	8	46				

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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8	42200 - Natural White Pine	Poletimber Poor	14.6	41	1-50	N/A	[5/25] Area filling in with red maple and black cherry sapling regeneration with a mixture of varying sized white pine. Clumps of White pine and cherry with grass and lichen in between clumps.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Red Maple		5	Pole	8		White Pine		Medium	Variable	Variable
White Pine		90	Pole/Sap/Log	6	41	Black Cherry		High	10 - 20 feet	10 - 20 feet
Black Cherry		5	Pole	8		Red Maple		High	10 - 20 feet	10 - 20 feet

9	4112 - Maple, Beech, Cherry Association	Sawtimber Well	20.6	91	81-110	N/A	Hercules Hardwood unit 2 TS: 41-004-17-01 TCR: 8/28/2018			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Sugar Maple		15	Log/Pole	10		White Pine		Low	< 5 feet	< 5 feet
Red Maple		60	Log/Pole	10	91	Sugar Maple		Low	Variable	Variable
Yellow Birch		1	Pole	8		Red Maple		Medium	5 - 10 feet	5 - 10 feet
White Pine		1	XLog	20		Balsam Fir		Medium	Variable	Variable
Hemlock		3	Log	12		Hemlock		Low	< 5 feet	< 5 feet
Black Cherry		20	Log/Pole	10						

10	622 - Lowland Shrub	None	93.4			No	Threatened species check MNFI. Marsh area with some scattered water stressed 10-15' tall tamarack. Overall low density tag alder.
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11	6112 - Lowland Aspen	Poletimber Well	7.0	71	51-80	N/A				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Red Maple		20	Pole/Sapling	7		Black Spruce		Low	>20 feet	>20 feet
Quaking Aspen		45	Log/Pole	10	71	Red Maple		Medium	>20 feet	>20 feet
Balsam Fir		5	Pole/Sapling	5		Tag Alder		Low	5 - 10 feet	5 - 10 feet
White Spruce		10	Log/Pole	12		Balsam Fir		Medium	>20 feet	>20 feet
Black Spruce		5	Pole/Sapling	7						
White Pine		10	Log/XLog	16						
Black Cherry		5	Pole	7						

12	6121 - Tamarack	Poletimber Well	8.1	81	51-80	N/A	Tamarack and Black spruce with wet soils, alder in the understory.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Black Spruce		30	Pole/Sapling	7		Tag Alder		Medium	5 - 10 feet	5 - 10 feet
Northern White Cedar		10	Pole/Sapling	7		Black Spruce		Low	Variable	Variable
Tamarack		60	Pole/Sapling	7	81	Northern White Cedar		Low	5 - 10 feet	5 - 10 feet
						Balsam Fir		Low	Variable	Variable
						Tamarack		Low	Variable	Variable

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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13 6130 - Fir, Aspen, Maple Poletimber Well 48.8 61 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 converting more towards low quality red maple. Tamarack is dying back. Threatened species check MNFI.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	50	Pole	6	61	Balsam Fir	Medium	Variable	Variable
Paper Birch	2	Pole/Sapling	5		Red Maple	Medium	>20 feet	>20 feet
Quaking Aspen	2	Pole	9					
Balsam Poplar	2	Pole	9					
Balsam Fir	22	Pole/Sapling	6					
Black Spruce	10	Pole/Sapling	5					
Northern White Cedar	2	Pole	6					
Tamarack	5	Pole/Log	9					
White Pine	5	Log	16					

14 6122 - Black Spruce Poletimber Well 99.7 91 81-110 N/A

Black spruce is health with very little breakup.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	1	Pole	8		Balsam Fir	Low	Variable	Variable
Quaking Aspen	1	Pole	8					
Balsam Fir	1	Pole	7					
Black Spruce	78	Pole	8	91				
Tamarack	3	Log/Pole	12					
White Pine	15	Log/Pole/XLog	16					
Jack Pine	1	Log/Pole	11					

15 6121 - Tamarack Poletimber Well 17.4 89 81-110 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	15	Pole/Sapling	6		Red Maple	High	>20 feet	>20 feet
Black Spruce	20	Pole	6		Black Spruce	Low	Variable	Variable
Tamarack	60	Pole/Log	9	89				
White Pine	5	Log/Pole	14					

16 122 - Road/Parking Lot None 6.7 No M-28 R-O-W

17 6122 - Black Spruce Poletimber Well 135.7 91 111-140 N/A

[2/5/25] Black spruce is doing good with only a few locations of small 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 mixed age Hemlock from 10" down to sapling size. Another possible retention area is in the center of the north end where there is a mixed diameter white pine stand.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	2	Pole/Sapling	7		Balsam Fir	Low	Variable	Variable
Quaking Aspen	1	Log/Pole	10		Red Maple	Low	10 - 20 feet	10 - 20 feet
Balsam Fir	2	Pole	7		Black Spruce	Low	Variable	Variable
Black Spruce	86	Pole	8	91				
Northern White Cedar	1	Pole	8					
White Pine	5	Log/Pole/XLog	14					
Jack Pine	1	Log/Pole	10					
Hemlock	2	Pole/Sap/Log	8					

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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18	122 - Road/Parking Lot	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.
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19	6122 - Black Spruce	Poletimber Well	17.6	89	111-140	N/A	
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	8	Pole/Sapling	7		Balsam Fir	Medium	10 - 20 feet	10 - 20 feet
Balsam Fir	8	Pole	7		Black Spruce	Low	10 - 20 feet	10 - 20 feet
Black Spruce	80	Pole	8	89				
White Pine	4	Log/XLog	14					

21	6121 - Tamarack	Poletimber Medium	34.1	89	51-80	N/A	
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	5	Pole/Sapling	6		Black Spruce	Low	>20 feet	>20 feet
Black Spruce	15	Pole	7		Northern White Cedar	Low	10 - 20 feet	10 - 20 feet
Northern White Cedar	10	Pole	7		Balsam Fir	Low	Variable	Variable
Tamarack	65	Pole	8	89	Tamarack	Low	>20 feet	>20 feet
White Pine	5	Log	16		Red Maple	Trace	>20 feet	>20 feet
					Tag Alder	Medium	5 - 10 feet	5 - 10 feet

[2/5/25] Some of the tamarack has died off. Threatened species check MNFI. Lowland water stressed stand of poor quality and low basal area. Understory consists of moderate tag alder and cedar; and light balsam fir, black spruce, red maple, and tamarack.

22	6120 - Lowland Cedar	Poletimber Well	183.8	91	141-170	N/A	
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Black Spruce	10	Pole	8		Balsam Fir	Low	5 - 10 feet	5 - 10 feet
Northern White Cedar	80	Pole	8	91	Tag Alder	Medium	5 - 10 feet	5 - 10 feet
Tamarack	10	Pole	8		Northern White Cedar	Low	5 - 10 feet	5 - 10 feet

23	622 - Lowland Shrub	None	3.7			No	
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24	6121 - Tamarack	Poletimber Well	20.9	89	81-110	N/A	
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Northern White Cedar	40	Pole/Sapling	7		Balsam Fir	Low	Variable	Variable
Tamarack	60	Pole	8	89	Black Spruce	Low	10 - 20 feet	10 - 20 feet
					Northern White Cedar	Medium	10 - 20 feet	10 - 20 feet

[2/5/25] Cedar is regenerating in the stand and growing into the canopy. Threatened species check MNFI. This stand is a mix of mature tamarack with cedar being the other component in the stand. 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.

25	622 - Lowland Shrub	None	12.0			No	
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Threatened species check MNFI. Marsh area with some scattered water stressed 10-15' tall tamarack. Overall low density tag alder.

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
26	6123 - Lowland Fir	Poletimber Well	15.8	51	51-80	N/A			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple		33	Pole	7		Balsam Fir	Medium	>20 feet	>20 feet
Paper Birch		2	Pole	7		Red Maple	Medium	>20 feet	>20 feet
Quaking Aspen		3	Pole	7					
Balsam Fir		50	Pole/Sapling	6	51				
Black Spruce		10	Pole	8					
Tamarack		1	Pole	9					
White Pine		1	Log	16					
27	6224 - Treed Bog	None	9.8			No			
28	6130 - Fir, Aspen, Maple	Poletimber Well	28.9	46	51-80	N/A			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple		50	Pole/Sapling	5	46	Balsam Fir	High	Variable	Variable
Yellow Birch		5	Sapling/Pole	3					
Balsam Fir		30	Pole/Sapling	5					
Northern White Cedar		5	Pole/Sapling	5					
White Pine		5	Log	12					
Hemlock		5	Pole	8					
29	6132 - Mixed Lowland Forest with Cedar	Poletimber Well	26.4	61	51-80	N/A	Lowland Red maple stand, seasonal wetness. A mix of cedar and other scattered conifers.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple		45	Pole/Sapling	7	61	Black Ash	Low	< 5 feet	< 5 feet
Yellow Birch		5	Pole/Sapling	7		Balsam Fir	Medium	Variable	Variable
Balsam Fir		5	Pole/Sapling	5		Northern White Cedar	Medium	Variable	Variable
Black Spruce		5	Pole/Sapling	5					
Northern White Cedar		30	Pole/Log	9					
White Pine		10	Log	16					
30	6128 - Lowland Coniferous, Mixed Deciduous	Sawtimber Well	14.2	91	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 when the adjacent stand the the west is ready.Lowland stand with trees growing on hummocks. Very poor quality red maple and aspen.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple		40	Pole	8		Hemlock	Low	5 - 10 feet	5 - 10 feet
Balsam Fir		5	Pole/Sapling	6		Balsam Fir	High	Variable	Variable
White Pine		5	Log	16					
31	622 - Lowland Shrub	None	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 57 (Carbondale muck.)		

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																												
32	6121 - Tamarack	Sapling Well	21.7	31	1-50	N/A	Area has filled in with young tamarack and cedar making this now a forested stand.																																												
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33	6120 - Lowland Cedar	Poletimber Medium	27.9	51	1-50	N/A	[2/5/25] Young cedar stand with a good amount of sapling cedar. Threatened species check MNFI.																																												
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34	6117 - Lowland Deciduous, Mixed Coniferous	Sapling Medium	6.6	31	1-50	N/A	[2/5/25] This is a new forested stand separated from the adjacent lowland stand.																																												
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35	6120 - Lowland Cedar	Sawtimber Medium	67.5	111	51-80	N/A	Cedar bog. Sphagnum moss covers the ground. This area is a flood zone for the Hickey creek.																																												
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36	4191 - Mixed Upland Deciduous with Conifer	Sapling Well	30.2	8	Immature	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 Hardwood unit1 TS: 41-004-17-01TCR: 8/28/2018																																												
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Black Cherry	15	Sapling	1																																																
37	6129 - Mixed Coniferous Lowland Forest	Poletimber Well	13.1	50	51-80	N/A	cedar stand very wet with alder in the understory.																																												
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38	6120 - Lowland Cedar	Sapling Medium	51.5	31	1-50	N/A			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Paper Birch		30	Sapling	3		Tag Alder	Low	5 - 10 feet	5 - 10 feet
Northern White Cedar		70	Sapling	3	31				
39	6124 - Lowland Spruce-Fir	Poletimber Well	5.4	46	51-80	N/A	[5/25] Majority of ground is good for a future treatment. Lowland area along highway with water in the ditch.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple		25	Pole/Sapling	7		Balsam Fir	Medium	Variable	Variable
Paper Birch		2	Pole/Sapling	6					
Quaking Aspen		5	Pole	7					
Balsam Fir		30	Pole/Sapling	6					
Black Spruce		33	Pole	7	46				
White Pine		5	Log/Pole	12					
40	6129 - Mixed Coniferous Lowland Forest	Sawtimber Well	14.4	91	141-170	N/A	5/25 Some hemlock regeneration in small natural openings. Small part of stand is mostly smaller diameter cedar adjacent to the grade. Lowland mixed conifer with red maple. Transition ridge from low to high ground.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple		10	Pole	8		Balsam Fir	Medium	5 - 10 feet	5 - 10 feet
Paper Birch		5	Pole	8		Northern White Cedar	Low	Variable	Variable
Black Spruce		5	Pole	9		Hemlock	Medium	5 - 10 feet	5 - 10 feet
Northern White Cedar		25	Pole	9	91				
White Pine		5	XLog/Log	20					
Hemlock		50	Log/XLog	16	91				
41	6128 - Lowland Coniferous, Mixed Deciduous	Sawtimber Well	11.1	91	111-140	N/A			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple		30	Log/Pole	10		Balsam Fir	Low	Variable	Variable
Balsam Fir		5	Pole	8		Northern White Cedar	Low	Variable	Variable
Black Spruce		10	Pole	8		Hemlock	Low	5 - 10 feet	5 - 10 feet
White Pine		20	XLog/Log	18					
Hemlock		35	Log/XLog/Pole	16	91				
42	622 - Lowland Shrub	None	4.0			No			
43	6122 - Black Spruce	Poletimber Poor	47.5	69	1-50	N/A	Lowland with spruce clumps, Tag Alder filling in most areas. Very wet ground.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Black Spruce		50	Pole/Sapling	7	69	Tag Alder	Full	5 - 10 feet	5 - 10 feet
Northern White Cedar		20	Pole/Sap/Log	8					
Tamarack		20	Pole	8					
White Pine		10	Log/XLog	16					

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44	4112 - Maple, Beech, Cherry Association	Sawtimber Well	35.6	81	81-110	N/A	[5/25] There are many gaps throughout the stand that have advanced sapling regeneration from the previous harvest. Cut in 1987 and then again in 2010 part of Sawmill Hardwood (047-10) "Cut all trees marked in Orange and cut all Aspen, Balsam and Spruce". Stand is now a lower stocked red maple stand with mixed cherry.																																																																							
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45	31021 - Cool Season Grass	None	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.																																																																							