



Compartment Review Presentation

Shingleton Forest Management Unit

Compartment 41195

Entry Year 2027

Acreage: 856

County: Alger

Management Area: Seney Lake Plain

Stand Examiner: Mario Molin

Legal Description:

T46N R17W Sections 20 and 29

Identified Planning Goals:

Management activities that coordinate multiple uses and benefits for the people of Michigan including recreation, timber production and protection/enhancement of wildlife habitat are desirable.

Soil and topography:

The area generally features flat to slightly-rolling terrain. The uplands feature fine sand to loamy soils, while the lower areas vary considerably and are probably a mix of soils ranging from sands to muck and peat. Accurate soil survey data and upland habitat classification information are not complete at this time.

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

This compartment is immediately adjacent to the town of Shingleton. Many year-round homes and businesses are located on nearby private lands, and an electrical power transmission line crosses east-west through the compartment. Snowmobile Trail 8 also runs through the area.

Unique Natural Features:

Archeological, Historical, and Cultural Features:

Special Management Designations or Considerations:

Most of this compartment is considered to be a part of the Petrel Deer Yard.

Watershed and Fisheries Considerations:

This compartment contains Hickey Creek and Prairie Creek which serve as tributaries to the West Branch Manistique River. Hickey Creek and Prairie Creek are both designated Type 1 trout streams less than 50-ft wide and have predicted mean July water temperatures of 60.1 and 59.4°F (cold streams), respectively. 300-foot buffers are recommended for Hickey Creek and Prairie 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 these waterbodies to protect riparian areas in accordance with Best Management Practices.

Wildlife Habitat Considerations:

This compartment lies immediately north and east of Shingleton and makes up the southwest corner of the Petrel Deer Yard. Early surveyor's notes indicate that pre-settlement lowland forests supported hemlock, cedar, spruce, tamarack, and balsam fir. Upland forests consisted of hemlock, yellow birch, white pine, red maple and minor components of sugar maple & beech. Current lowland forests appear to contain similar species as were found in pre-settlement times. Upland forests appear to have less hemlock and more sugar maple, red maple, and aspen. 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 hemlock, yellow birch, and black cherry in the hardwood stands, maintaining closed conifer forest in the lowlands, and providing browse opportunities through the retention of aspen.

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:

The compartment itself is bounded by Highway H-15 to the west and Highway M-28 to the south, but access to much of

the area is limited by soft, wet terrain.

Survey Needs:

None at this time.

Recreational Facilities and Opportunities:

The area receives a great deal of hunting pressure, Snowmobile Trail 8 is heavily-used through the compartment. There are no other developed recreational facilities.

Fire Protection:

Access to most of the compartment is difficult due to the soft, wet ground.

Additional Compartment Information:

The snowmobile trail crosses over Prairie Creek via a small bridge up near the northwest corner of the compartment, and over Hickey Creek via a larger bridge near the town of Shingleton along the southwest edge of the area.

The following reports from the Inventory are attached:

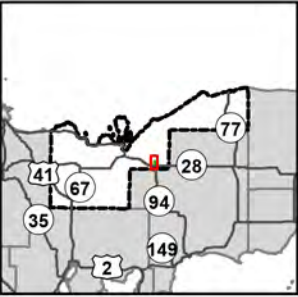
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

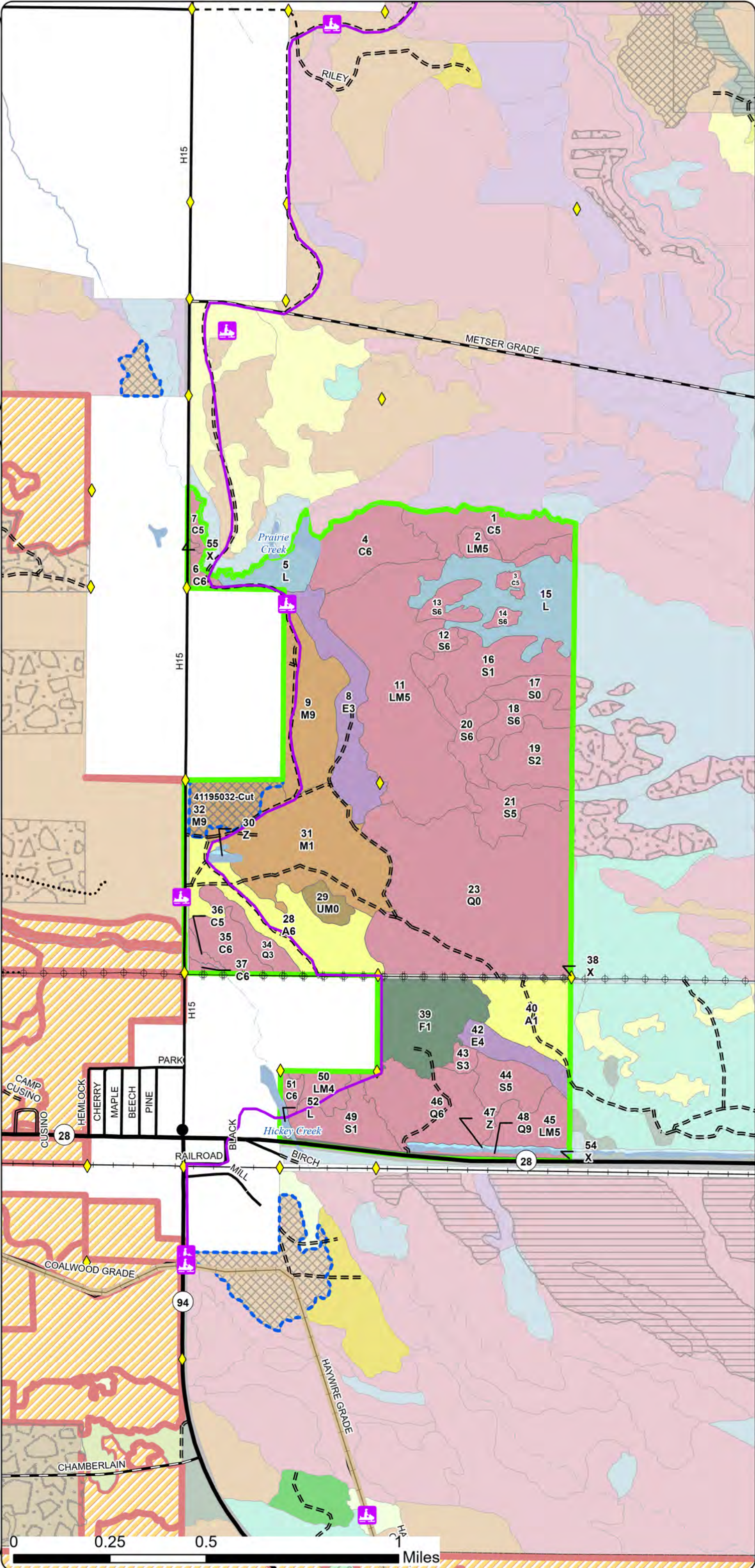
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

Cover Type & Treatments Map

Compartment: 41195
T46N,R17W, Sec: 20, 29
County: Alger
Unit: Shingleton
Mgmt. Area: Seney Lake Plain
YOE: 2027
Acres: 855.81 GIS Calculated
Examiner: Mario Molin
Date Exported: 07/30/2025
Map Phase: Web Post

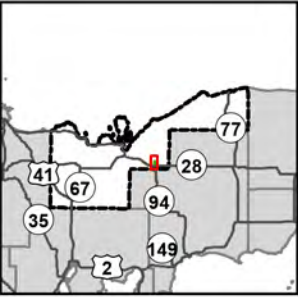


- Survey Grade Corners
- City
- Sign
- Designated ORV Routes
- Designated Snowmobile Trails
- DNR - Primary Forest Road
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Federal / State Highway
- Federal / State / County - Paved Road
- Federal / State - Dirt / Gravel Road
- Private - Dirt / Gravel Road
- DNR - Management Access
- Active Railroads
- Powerline
- Intermittent Stream
- Perennial River
- Lakes and Rivers
- Counties
- Compartment Boundary
- Treatments with Site Conditions
- Selection
- Clearcut
- Selection
- Thinning
- Monitoring - Regeneration
- 411 - Northern Hardwood
- 413 - Aspen
- 423 - Other Upland Conifers
- 430 - Upland Mixed Forest
- 500 - Water
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 613 - Lowland Mixed Forest
- 110 - Low Intensity Urban
- 122 - Road/Parking Lot
- 622 - Lowland Shrub

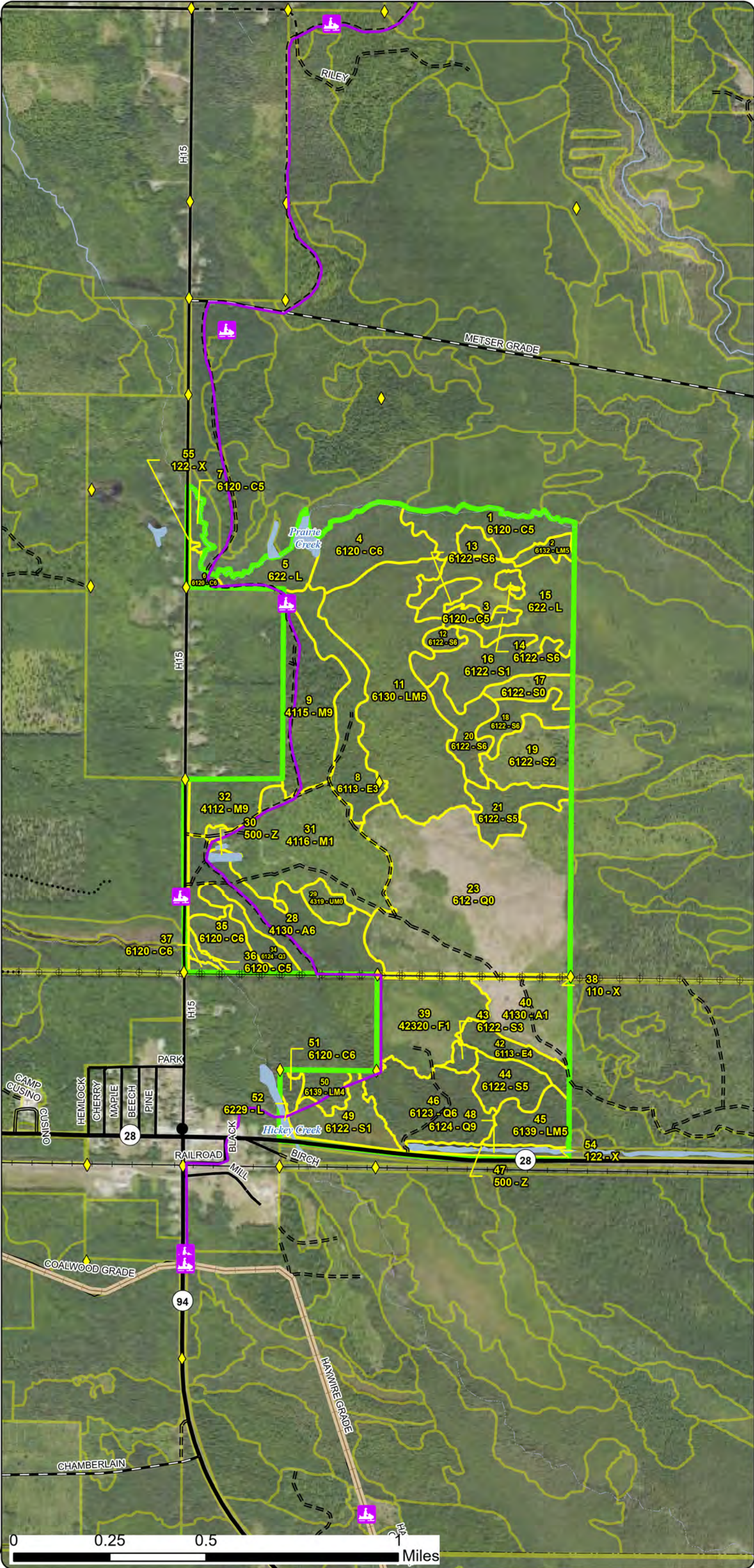


Stand Boundary
Map

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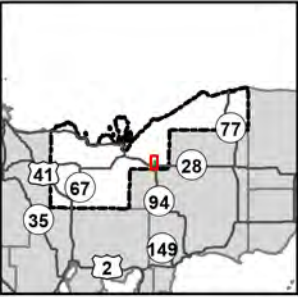


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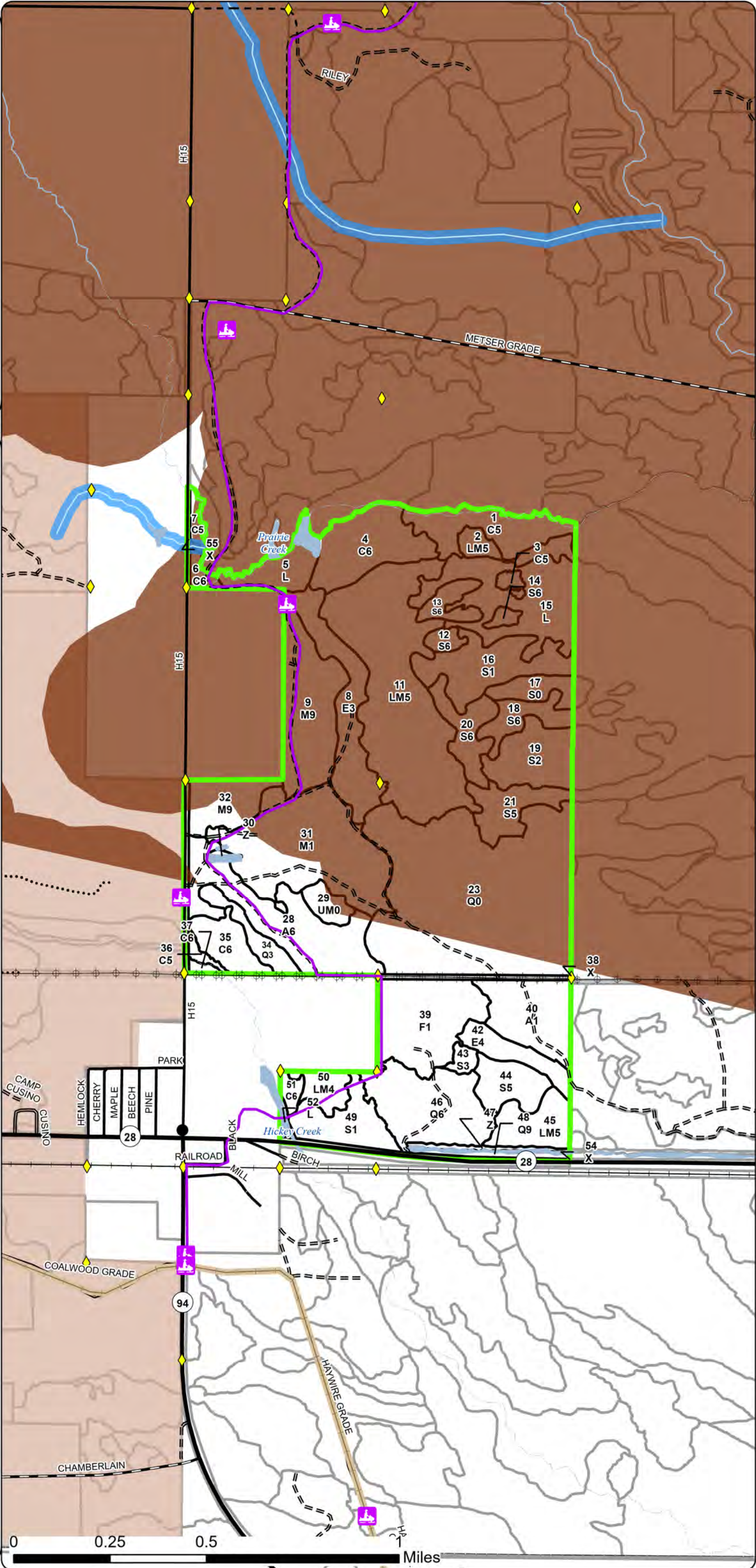


Special Conservation Areas
& Site Conditions Map

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- 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+	Uneven-Aged	Total
Aspen	0	25	0	0	42	0	0	0	0	0	0	0	0	0	0	0	0	0	67
Cedar	0	0	0	0	0	0	0	0	33	0	2	0	20	22	0	0	0	0	77
Lowland Conifers	132	0	0	0	9	35	0	0	0	4	0	0	0	0	0	0	0	0	180
Lowland Deciduous	0	0	0	29	0	0	0	11	0	0	0	0	0	0	0	0	0	0	40
Lowland Mixed Forest	0	0	0	0	15	0	0	0	88	0	8	0	0	0	0	0	0	9	119
Lowland Shrub	55	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	55
Lowland Spruce/Fir	8	39	0	0	3	0	0	0	15	65	13	0	0	0	0	0	0	0	143
Northern Hardwood	0	61	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	52	113
Upland Mixed Forest	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6
Upland Spruce/Fir	0	0	35	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	35
Urban	15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	15
Water	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
Total	220	125	35	29	69	35	0	11	136	69	23	0	20	22	0	0	0	61	854



Report 2 – Treatment Summary

Shingleton Mgt. Unit
Year of Entry: 2027

Acres of Harvest

Compartment 195
Total Compartment Acres: 856

Commercial Harvest -
Harvests with Site Condition - 32
Next Step Harvest - 0
Habitat Cut - 0

Cover Type by Harvest Method

		<div>ClearcutSelectionPatch ClearcutSeed TreeShelterwoodThinningOverstory RemovalSalvageOtherTotal Acres</div>									
Northern Hardwood		0	16	0	0	0	0	0	0	0	16
Total		0	16	0	0	0	0	0	0	0	16

Proposed and Next Step Treatments by Method

		<div>HarvestSite PrepPlantingSeedingBurningPesticideMonitoringOtherNon-Forest Mgt.Total Acres</div>									
Current		16	0	0	0	0	0	0	0	0	16
Next Step		0	0	0	0	0	0	16	0	0	16
Total		16	0	0	0	0	0	16	0	0	31



S 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
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Proposed Treatments:

32	41195032-Cut	15.7	4112 - Maple, Beech, Cherry Association	9	80	81-110	Harvest	Selection	411 - Northern Hardwood	Current	No
<u>Prescription</u> mark to 80BA follow complete marker <u>Specs:</u> <u>Next Step</u> Monitoring, Natural Regen (Intermediate) <u>Treatments:</u> <u>Acceptable</u> Northern hardwoods <u>Regen:</u> <u>Other</u> <u>Comment:</u> <u>Site Condition:</u> Survey Needed <u>Proposed Start Date:</u> 10/01/2026											

Total Treatment 15.7
Acreage Proposed:



Availability for Management

Total Acres	Acres Available	Acres Available <i>With Condition</i>	Acres Not Available	Dominant Site Conditions			
				2I	5G	3H	3J
67	67	0	0	Aspen			
66	58	0	8	Cedar		3	4
180	180	0	0	Lowland Conifers			
41	41	0	0	Lowland Deciduous			
120	120	0	0	Lowland Mixed Forest			
55	55	0	0	Lowland Shrub			
142	142	0	0	Lowland Spruce/Fir			
82	61	21	0	Northern Hardwood	16	5	
6	6	0	0	Upland Mixed Forest			
35	35	0	0	Upland Spruce/Fir			
15	15	0	0	Urban			
4	4	0	0	Water			
812	784	21	8	Total Forested Acres	16	5	3
	97%	3%	1%	Relative Percent			4

*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	16	Unspecified	Unspecified	Unspecified	Unspecified	Unspecified
Comments:								
14	Unavailable	5E: Long-Term Retention	0	Unspecified	Unspecified	Unspecified	Unspecified	Unspecified
Comments:								
15	Unavailable	5E: Long-Term Retention	3	Unspecified	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Long Term retention for stand 26 and 23								

Report 4 – Site Conditions



16	Unavailable	5E: Long-Term Retention	0	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
17	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
19	Unavailable	5E: Long-Term Retention	0	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
20	Available	5G: Research Study	5	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Walters Research Project: Long-term beech regeneration monitoring, up to 20 years (through 2039)							
21	Unavailable	3J: Water quality/BMPs (stream, river, or lake)	3	3L: Other wildlife concerns	Unspecified	Unspecified	Unspecified
Comments: Hickey Creek buffer. Purchased land.							
22	Unavailable	3J: Water quality/BMPs (stream, river, or lake)	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Hickey Creek buffer.							
23	Unavailable	3H: Deer Wintering Area - habitat is incompatible with harvest at this time	3	3J: Water quality/BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
Comments: Deer wintering area and Prairie Creek buffer.							

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	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																							
7	6120 - Lowland Cedar	Poletimber Medium	3.3	75	1-50	N/A	Lowland brush with a few trees scattered mostly along the western edge. Soils are classified as type 57 (Carbondale muck.) SCA - Petrel Deeryard																																																							
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8	6113 - Lowland Maple	Sapling Well	29.3	27	Immature	N/A	SCA - Petrel DeeryardPartially cut by D.O.C. in 1997-98. Aspen now found in the areas where the stand was opened up enough, with residual conifers & red maple dominant where it was left with more cover. Shade-tolerant seedlings (red maple, balsam fir, some black spruce) are the primary understory species.Management objective now is to let it grow as a mixed stand and harvest when the aspen matures. Soils are classified as type 252A (Finch-Kinross complex, 0-3% slope.) The site may be best described as a transitional zone between uplands and true lowlands.																																																							
<table><tr><th>Canopy Species</th><th>% Cover</th><th>Size Class</th><th>DBH</th><th>Age</th></tr><tr><td>Yellow Birch</td><td>5</td><td>Log</td><td>3</td><td></td></tr><tr><td>Balsam Fir</td><td>10</td><td>Sapling</td><td>5</td><td></td></tr><tr><td>Red Maple</td><td>65</td><td>Pole</td><td>3</td><td>27</td></tr><tr><td>Paper Birch</td><td>5</td><td>Log</td><td>3</td><td></td></tr><tr><td>Beech</td><td>5</td><td></td><td>10</td><td></td></tr><tr><td>Black Spruce</td><td>10</td><td>Seedling</td><td>8</td><td></td></tr></table> <table><tr><th>Sub-Canopy Species</th><th>Density</th><th>Avg. Height</th><th>Size</th></tr><tr><td>Balsam Fir</td><td>Medium</td><td>< 5 feet</td><td>< 5 feet</td></tr><tr><td>Red Maple</td><td>Medium</td><td>5 - 10 feet</td><td>5 - 10 feet</td></tr><tr><td>Beech</td><td>High</td><td>Variable</td><td>Variable</td></tr><tr><td>Black Spruce</td><td>Medium</td><td>< 5 feet</td><td>< 5 feet</td></tr></table>								Canopy Species	% Cover	Size Class	DBH	Age	Yellow Birch	5	Log	3		Balsam Fir	10	Sapling	5		Red Maple	65	Pole	3	27	Paper Birch	5	Log	3		Beech	5		10		Black Spruce	10	Seedling	8		Sub-Canopy Species	Density	Avg. Height	Size	Balsam Fir	Medium	< 5 feet	< 5 feet	Red Maple	Medium	5 - 10 feet	5 - 10 feet	Beech	High	Variable	Variable	Black Spruce	Medium	< 5 feet	< 5 feet
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9	4115 - Y.Birch, Hemlock NH	Sawtimber Well	36.5	90	81-110	N/A	This stand features fairly good quality red maple and a lot of large hemlock. Mixed hardwood sawlog volume includes yellow birch, black cherry and a few sugar maple.The stand was select cut with the sale completed in 2009, and beech was then salvaged in 2013.Soils are classified as type 160B (Paquin-Finch sands, 0-6% slopes.)SCA - Petrel Deeryard																																																							
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11	6130 - Fir, Aspen, Maple	Poletimber Medium	88.3	76	51-80	N/A	SCA - Petrel Deeryard More or less the remains of a stand that was once dominated by lowland poplar/birch, but most of them have died. A mix of red maple & conifers has succeeded to stand dominance on the rolling wet terrain. Wood quality varies significantly from one spot to the next, but overall it's not impressive. Soils are classified as type 252A (Finch-Kinross complex, 0-3% slope.) Break this stand up into several blocks and begin cutting parts of it, accessing it from the west side.																																																							
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12	6122 - Black Spruce	Poletimber Well	3.3	94	51-80	N/A	SCA - Petrel Deeryard This will hold until next entry when the large mixed stand to the west is also ready.																																																							
<table><tr><th>Canopy Species</th><th>% Cover</th><th>Size Class</th><th>DBH</th><th>Age</th></tr><tr><td>Red Maple</td><td>15</td><td>Sapling</td><td>7</td><td></td></tr><tr><td>Tamarack</td><td>5</td><td>Seedling</td><td>8</td><td></td></tr><tr><td>Black Spruce</td><td>80</td><td>Sapling</td><td>7</td><td>94</td></tr></table> <table><tr><th>Sub-Canopy Species</th><th>Density</th><th>Avg. Height</th><th>Size</th></tr><tr><td>Balsam Fir</td><td>Medium</td><td>Variable</td><td>Variable</td></tr><tr><td>Black Spruce</td><td>Medium</td><td>Variable</td><td>Variable</td></tr><tr><td>Red Maple</td><td>Low</td><td>Variable</td><td>Variable</td></tr></table>								Canopy Species	% Cover	Size Class	DBH	Age	Red Maple	15	Sapling	7		Tamarack	5	Seedling	8		Black Spruce	80	Sapling	7	94	Sub-Canopy Species	Density	Avg. Height	Size	Balsam Fir	Medium	Variable	Variable	Black Spruce	Medium	Variable	Variable	Red Maple	Low	Variable	Variable																			
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments			
31	4116 - Mixed N. Hardwood - Aspen	Sapling Poor	61.2	8	Immature	N/A	Black cherry was reserved which makes this stand essentially a 2 aged stand but that isnt really the MO or goal so it is based off of the MO the cherry isnt really merchantable because of the how poor formed it is, its more like apple trees.MHM:19-16 41-019-16TCR: 9/26/17			
Canopy Species		% Cover	Size Class	DBH	Age					
Black Cherry		30	Sapling	6						
Red Maple		35	Log	1	8					
Bigtooth Aspen		35	Log	1	8					
32	4112 - Maple, Beech, Cherry Association	Sawtimber Well	15.7	80	81-110	N/A	SCA - Petrel Deer Yard A few yellow birch and cherry logs are also scattered throughout the stand. Last thinned in 1989. The snowmobile trail runs along the edge of this stand. Should be ready to thin/select cut next entry. Soils are classified as type 160B (Paquin-Finch sands, 0-6% slopes.) SCA - Petrel Deeryard			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Black Cherry		10		9		Sugar Maple		Full	Variable	Variable
Quaking Aspen		5		8		Red Maple		Full	Variable	Variable
Black Spruce		5	Sapling	6						
Sugar Maple		40		10	80					
Red Maple		40		10	80					
34	6124 - Lowland Spruce-Fir	Sapling Well	8.7	33	Immature	N/A	Fully stocked stand featuring a mix of conifer regeneration and a few scattered aspen sprouts. Soils are classified as type 160B (Paquin-Finch sands, 0-6% slopes.)			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Red Maple		14	Log	3		Tag Alder		Low	5 - 10 feet	5 - 10 feet
Quaking Aspen		14	Pole	4						
Balsam Fir		25	Log	3	33					
Tamarack		11	Log	3						
Black Spruce		25	Log	3	33					
White Pine		11	Log	3						
35	6120 - Lowland Cedar	Poletimber Well	12.0	116	141-170	N/A	Cedar adjacent to Hickey Creek and its floodplain. Some partial cutting took place about 1992 inside the northeast edge of the stand. Soils are classified as type 57 (Carbondale muck.)			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Red Maple		15		9		Red Maple		Medium	Variable	Variable
Balsam Fir		5		8		Black Spruce		Low	Variable	Variable
Black Spruce		10		9		Balsam Fir		Medium	Variable	Variable
Northern White Cedar		60		9	116					
Hemlock		10		9						
36	6120 - Lowland Cedar	Poletimber Medium	2.0	75	1-50	N/A	Hickey Creek & floodplain - Soils are classified as type 57 (Carbondale muck.)			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
White Pine		5		18		Tag Alder		Full	5 - 10 feet	5 - 10 feet
Black Spruce		5	Seedling	6		Black Spruce		Low	5 - 10 feet	5 - 10 feet
Northern White Cedar		90	Sapling	5	75	Northern White Cedar		Low	5 - 10 feet	5 - 10 feet



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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments			
51	6120 - Lowland Cedar	Poletimber Well	3.0	116	141-170	N/A	6-12" DBH cedar along the east bank of Hickey Creek. The understory is highly variable, from no understory to lowland brush to mixed conifers. Soils are classified as type 57 (Carbondale muck.)			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Red Maple		1	Sapling	7		Tag Alder		Medium	5 - 10 feet	5 - 10 feet
Tamarack		5		14		Black Spruce		Low	Variable	Variable
White Pine		2		14		Northern White Cedar		Low	Variable	Variable
Black Spruce		12		10						
Northern White Cedar		80	Seedling	9	116					
52	6229 - Mixed Lowland Shrub	None	1.5			No	Lowland brush and Hickey Creek north of M-28			
						Sub-Canopy Species	Density	Avg. Height	Size	
						Tag Alder	Medium	5 - 10 feet	5 - 10 feet	
						Northern White Cedar	Low	5 - 10 feet	5 - 10 feet	
54	122 - Road/Parking Lot	None	4.8			No	M-28 R-O-W			
55	122 - Road/Parking Lot	None	1.2			No	H-15 right-of-way			