



Compartment Review Presentation

Shingleton Forest Management Unit

Compartment 41194

Entry Year 2021

Acreage: 1,337

County Alger

Management Area: Seney Lake Plain

Stand Examiner: Steve Touvila

Legal Description:

T46N R17W Sections 8, 16, 17, 20 & 21

Identified Planning Goals:

Timber and wildlife management opportunities are the primary focus on state lands in this compartment.

Soil and topography:

Flat to rolling terrain featuring sandy to sandy loam soils on the uplands & ridges, and heavier soils such as silt loams and mucks in the transition zones and bottomlands. Drainage is generally slow on the lowland sites.

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

The area features large blocks of contiguous state ownership. There is private land adjacent to this compartment along County Highway H-15.

Unique Natural Features:

Archeological, Historical, and Cultural Features:

Special Management Designations or Considerations:

This compartment lies within the Petrel Deeryard.

Watershed and Fisheries Considerations:

This compartment contains Prairie Creek and Stony Creek which serve as tributaries to Hickey Creek. Prairie Creek and Stony Creek are designated Type 1 trout streams less than 50' width. 300' buffers are recommended for Prairie Creek and Stony Creek in riparian areas susceptible to Aspen regeneration. For areas not susceptible to Aspen regeneration, 100' plus 5' per 1% increase in slope; buffers are recommended to protect these areas in accordance with Best Management Practices.

Wildlife Habitat Considerations:

Located approximately two miles north of Shingleton and east of H-15, Compartment 194 lies in the heart of the Petrel Deer Yard. This deer yard has been managed to meet the needs of wintering deer populations for over 30 years. Stony Creek flows south across the eastern side of the compartment and joins with Prairie Creek flowing along the southern boundary. Riparian areas and low areas in between these creeks are dominated by lowland conifers. Some of the lowland conifer stands have been cut in recent years for deer yard management with the long term goal of regenerating white cedar for future deer wintering cover. This management regime will continue as the opportunity allows, and will again be adjusted on an annual basis as needed to meet the needs of wintering deer populations. Remaining upland areas consist mainly of northern hardwoods, although some aspen or other early successional species are also present. Wildlife goals include continuing to provide browse and wintering cover for deer, sustain the winter yarding habitat for the future by promoting conditions where cedar can grow without being over-browsed, protect stream and riparian corridors, and maintain and enhance diversity in northern hardwoods. Timber harvests will take place during the winter to provide a natural food source for wintering deer. Some large wolfy trees will be left in northern hardwoods stands, species diversity will be maintained and vernal pools and similar wetlands will be buffered. Streams will be buffered to protect these corridors.

Mineral Resource and Development Concerns and/or Restrictions

Several active sand/gravel and limestone/dolostone operations are in the vicinity, and there may be potential for both sand & gravel and limestone/dolostone within the compartment. But, much of the compartment is covered by wetlands, which could inhibit surface development. There is no known metallic mineral potential in this area and no known potential for economic hydrocarbon production in the UP.

Vehicle Access:

West of Stoney Creek, this compartment is accessed from the Metser grade and Riley road via County Highway 15. East of the creek, access is from the Metser grade via Star Siding road.

Survey Needs:

T46N R17W section 8 SWSE for stand 37 LM 6.

Recreational Facilities and Opportunities:

A heavily used snowmobile trail runs though the west side of this compartment.

Fire Protection:

Access across low, wet terrain is extremely difficult in most of this compartment.

Additional Compartment Information:

The following reports from the Inventory are attached:

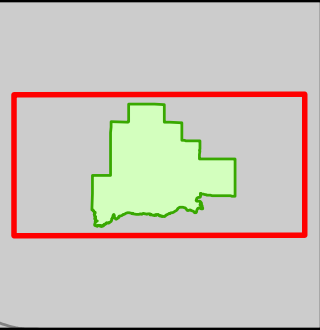
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

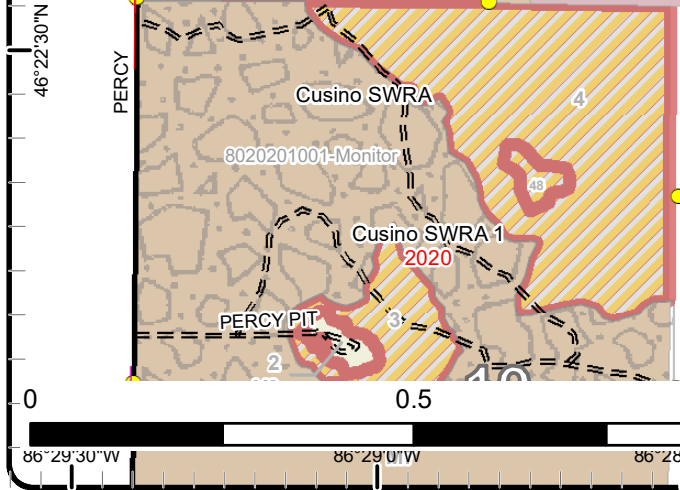
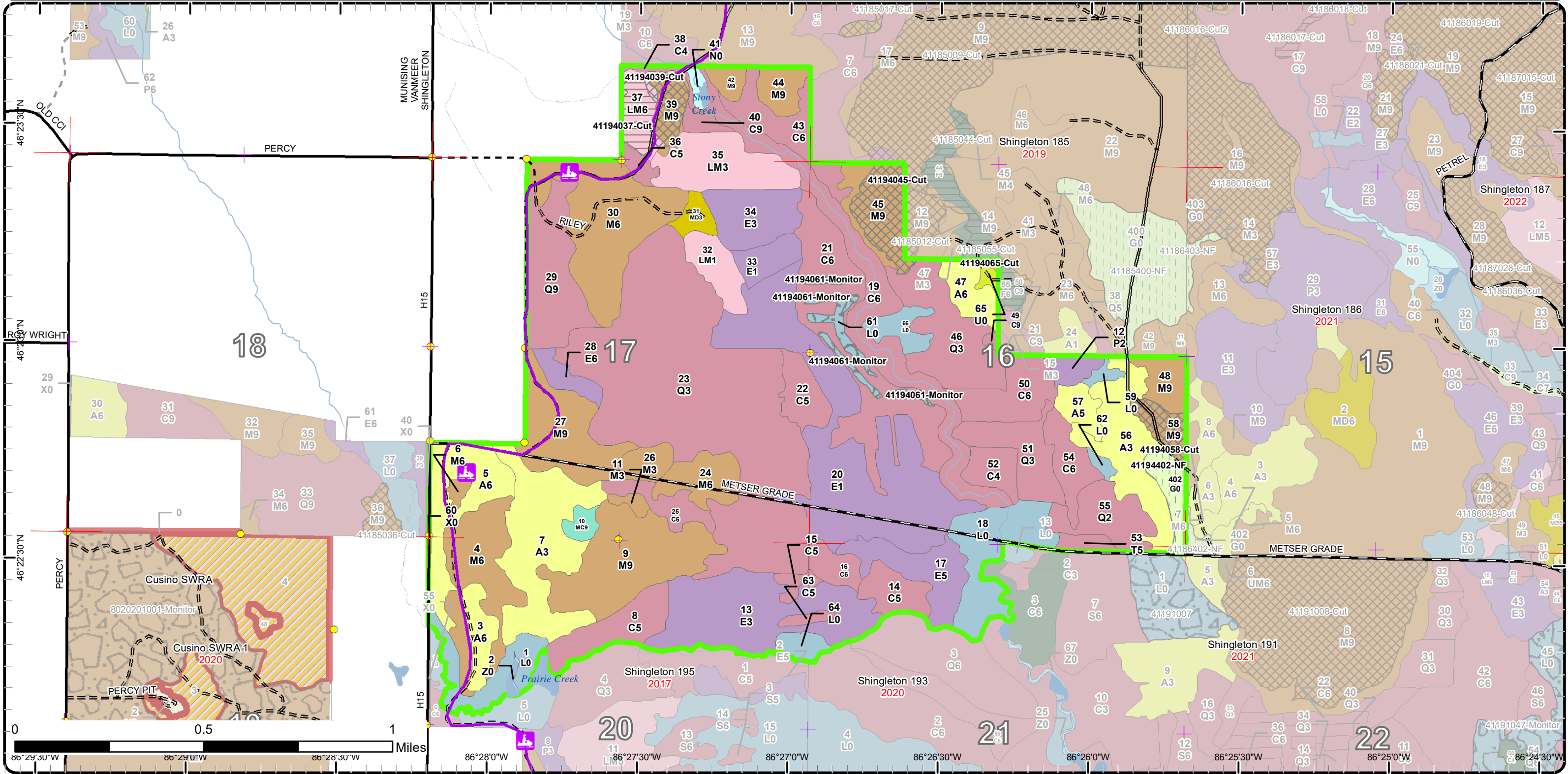
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

Cover Type & Treatments Map

Compartment: 194
 T46N, R17W, Sec: 8, 16, 17, 20, 21
 County: Alger
 Unit: Shingleton
 Mgmt Area: Seney Lake Plain
 YOE: 2021
 Acres: 1336.8 GIS Calculated
 Examiner: Steve Touvila
 Map Revised: 9/20/2023
 Map Phase: Post Review



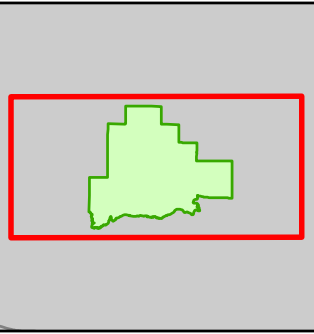
- Miris Corners
- + Remonumented Section Corners
- Survey Grade Corners
- Counties
- DNR - Primary Forest Road
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Federal / State / County - Paved Road
- Federal / State - Dirt / Gravel Road
- Private - Dirt / Gravel Road
- Snowmobile Trails
- Designated Snowmobile Trails
- Intermittent Stream
- Lake/Pond
- Perennial River
- Lakes and Rivers
- Compartment Boundary
- Selection (Group, Single Tree)
- Clearcut (w/Reserves)
- Regeneration Survey
- Opening Maintenance
- 411 - Northern Hardwood
- 413 - Aspen
- 419 - Mixed Upland Deciduous
- 429 - Mixed Upland Conifers
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 613 - Lowland Mixed Forest
- 122 - Roads/Parking Lot
- 310 - Herbaceous Openland
- 330 - Low Density Trees
- 500 - Water
- 622 - Lowland Shrub
- 623 - Emergent Wetland



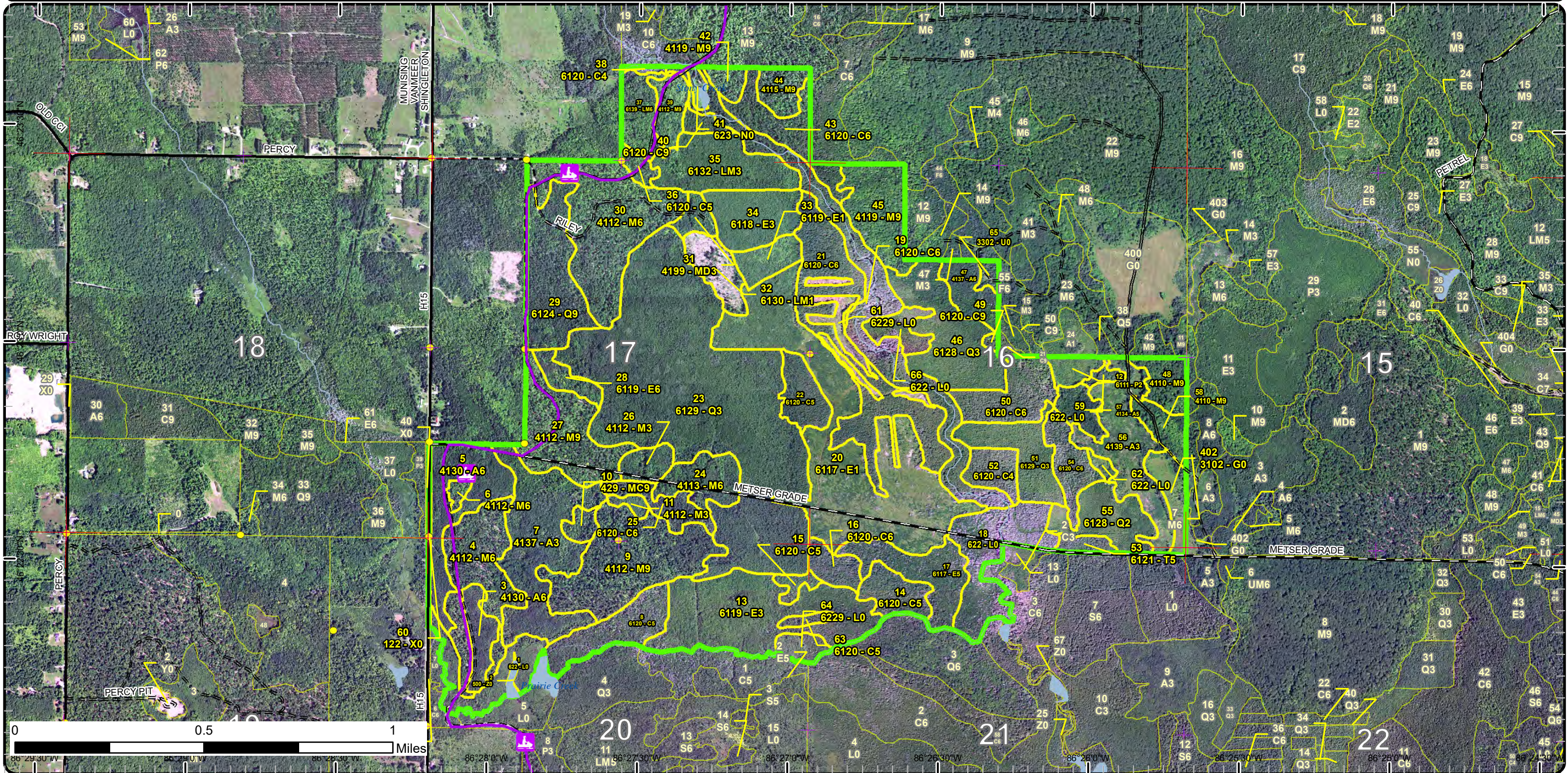
Scale: 0 to 1 Miles
 Coordinates: 86°29'30"W, 86°29'0"W, 86°28'30"W, 86°28'0"W, 86°27'30"W, 86°27'0"W, 86°26'30"W, 86°26'0"W, 86°25'30"W, 86°25'0"W

Stand Boundary Map

Compartment: 194
 T46N, R17W, Sec: 8, 16, 17, 20, 21
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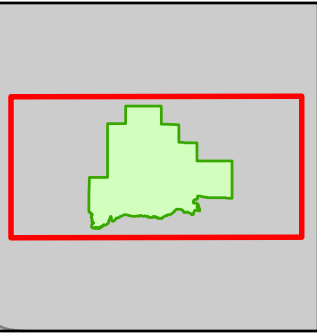


- Miris Corners
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- Survey Grade Corners
- Counties
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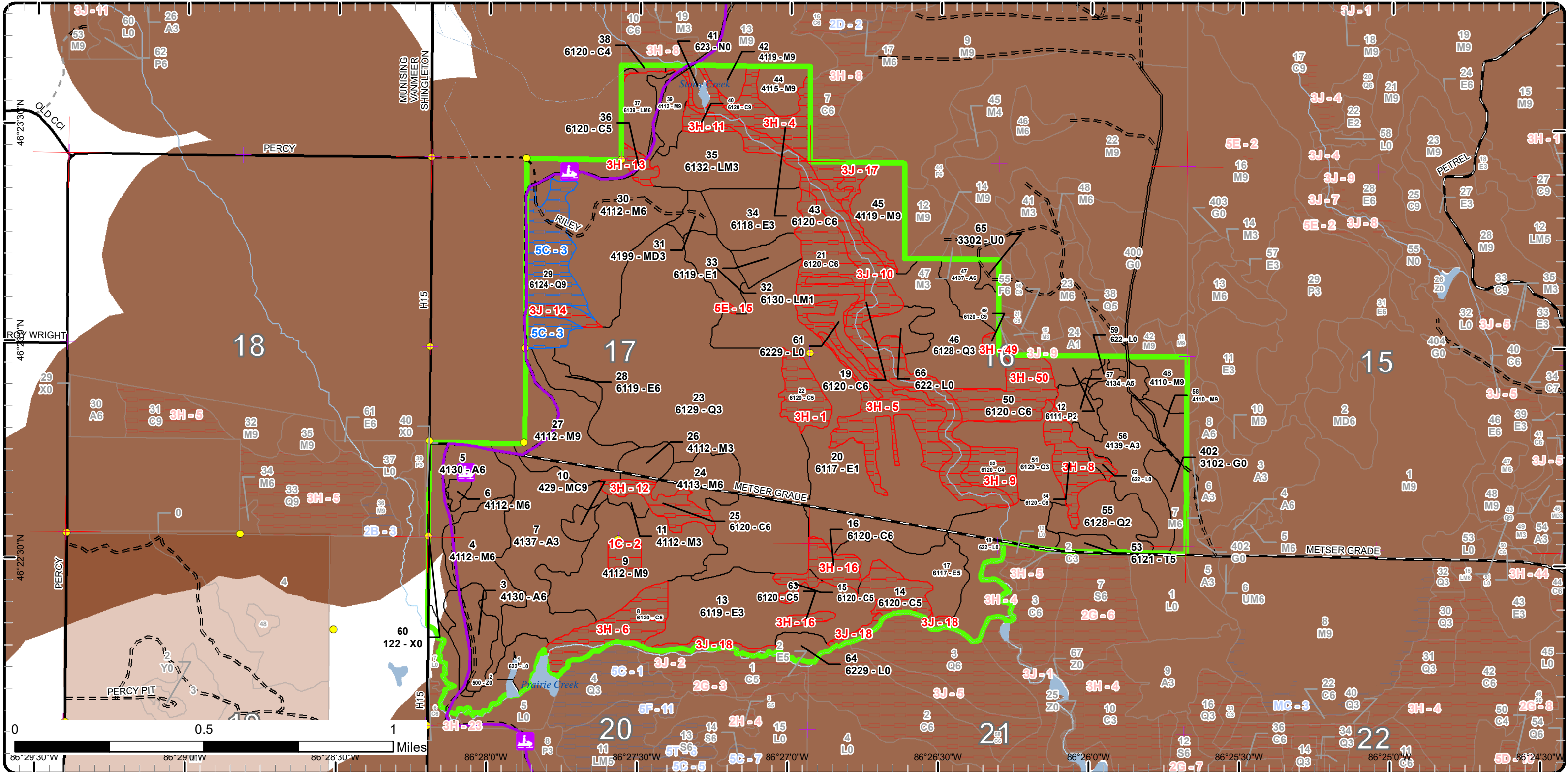


Special Conservation Areas

Compartment: 194
 T46N, R17W, Sec: 8, 16, 17, 20, 21
 County: Alger
 Unit: Shingleton
 Mgmt Area: Seney Lake Plain
 YOE: 2021
 Acres: 1336.8 GIS Calculated
 Examiner: Steve Touvila
 Map Revised: 9/20/2023
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- Private - Dirt / Gravel Road
- Snowmobile Trails
- Designated Snowmobile Trails
- Intermittent Stream
- Lake/Pond
- Perennial River
- Lakes and Rivers
- Compartment Boundary
- Available w/ Constraints
- 5C: Delay treatment for age/size class diversity or exceptional site quality
- Unavailable
- 1C: Other dept or div proc/practices
- 3J: Water quality / BMPs (stream, river, or lake)
- 5E: Long-Term Retention
- Stand Boundaries
- Cold Water Streams
- Cold Water Lakes
- Deer Winter Range



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	34	0	51	58	0	0	0	0	0	0	0	0	0	0	0	0	0	143
Cedar	0	0	0	0	0	0	0	0	0	0	14	32	37	13	145	0	0	0	241
Herbaceous Openland	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10
Low-Density Trees	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
Lowland Aspen/Balsam Poplar	0	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6
Lowland Conifers	0	0	0	20	57	185	0	0	0	0	35	0	0	0	0	0	0	0	296
Lowland Deciduous	0	0	112	22	58	0	7	0	22	0	0	0	0	0	0	0	0	0	221
Lowland Mixed Forest	0	13	0	29	0	0	0	0	0	0	13	0	0	0	0	0	0	0	55
Lowland Shrub	78	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	78
Marsh	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
Mixed Upland Deciduous	0	0	0	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6
Northern Hardwood	0	0	0	0	10	0	0	0	0	37	0	0	0	0	0	0	0	221	267
Tamarack	0	0	0	0	0	0	0	0	0	0	4	0	0	0	0	0	0	0	4
Upland Conifers	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	4
Urban	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
Water	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Total	97	53	112	128	183	185	7	0	22	37	66	32	37	13	145	0	0	225	1339



Report 2 – Treatment Summary

Shingleton Mgt. Unit

Year of Entry: 2021

Acres of Harvest

Compartment 194

Total Compartment Acres: 1,337

Commercial Harvest - 46
 Harvests with Site Condition - 0
 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
Low-Density Trees	1	0	0	0	0	0	0	0	0	1
Lowland Mixed Forest	9	0	0	0	0	0	0	0	0	9
Northern Hardwood	0	37	0	0	0	0	0	0	0	37
Total	10	37	0	0	0	0	0	0	0	47

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	47	0	0	0	0	0	11	0	10	67
Next Step	0	0	0	0	0	10	47	0	0	57
Total	47	0	0	0	0	10	57	0	10	124



Stand Name	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:

37	41194037-Cut	9.2	6139 - Mixed Lowland Forest	Poletimber Well	90	111-140	Harvest	Clearcut with Retention	613 - Lowland Mixed Forest	Even-Aged	No
<p><u>Prescription</u> Clearcut all species except hemlock, cedar, and white pine. Retention will be the reserve trees and the 100' sloped river buffer in the northwest corner. Cut all conifers to 4" DBH. Check the ground when the snow is gone, it looks like it might be dry enough to cut in the summer to avoid snowmobile trail conflicts. Acreage may vary, the northeast finger may have too much cedar and hemlock in this narrow slope, exclude if necessary.</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 Regen:</u> red maple, sugar maple, paper birch, yellow birch, aspen, cedar, hemlock, balsam fir, white spruce, black spruce, white pine.</p> <p><u>Other Comment:</u> Check ground snow free this spring to see if it's an option to cut in the summer before the snowmobile season.</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2022</p>											
39	41194039-Cut	9.5	4112 - Maple, Beech, Cherry Association	Sawtimber Well	90	111-140	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven-Aged	No
<p><u>Prescription</u> Thin to 70-90 BA creating canopy gaps following the complete marker. Try to enhance regeneration of lesser occurring species if possible.</p> <p><u>Specs:</u> See if we can cut in the summer to avoid conflict with the snowmobile trail. The trail runs through the stand.</p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u> Sugar maple, red maple, black cherry, paper birch, yellow birch, beech, balsam fir, white pine, hemlock, white spruce.</p> <p><u>Other Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2022</p>											
45	41194045-Cut	18.6	4119 - Mixed Northern Hardwoods	Sawtimber Well	90	111-140	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven-Aged	No
<p><u>Prescription</u> Thin to an average of 80 BA creating canopy gaps following the complete marker. Cut all merchantable white spruce and balsam fir. Don't cut hemlock or cedar. Don't cut aspen within 300' of stream. Harvest in the winter so tops are available for deer.</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 Regen:</u> Sugar maple, red maple, paper birch, yellow birch, black cherry, aspen, basswood, black ash, beech, balsam fir, white spruce, hemlock, white pine.</p> <p><u>Other Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2019</p>											



Standard

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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58	41194058-Cut	8.6	4110 - Sugar Maple Association	Sawtimber Well	90	111-140	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven-Aged	No
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Prescription Mark stand to 80 BA average creating canopy gaps following the complete marker. Cut in winter so tops are available for deer. Don't cut hemlock if found.

Next Step Monitoring, Natural Regen (Re-Inventory)

Acceptable Regen: sugar maple, red maple, basswood, aspen, balsam fir, white spruce, hemlock, beech, paper birch, yellow birch, black cherry.

Other Comment:

Site Condition

Proposed Start Date: 10/1 /2022

61	41194061-Monitor	10.7	6229 - Mixed lowland shrub	Nonstocked		Unspecified	Monitoring	Natural Regen (Re-Inventory)	6120 - Lowland Cedar	Even-Aged	No
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Prescription monitor for natural regeneration

Next Step Treatments:

Acceptable Regen: cedar with mix of other lowland tree species

Other Comment:

Site Condition

Proposed Start Date: 10/1 /2028

65	41194065-Cut	0.6	3302 - Low Density Conifer Trees	Nonstocked		Unspecified	Harvest	Clearcut with Retention	429 - Mixed Upland Conifers	Even-Aged	No
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Prescription Clearcut with Retention: Remove all species within stand down to 2". Leave cedar if found.

Next Step Monitoring, Natural Regen (Re-Inventory)

Acceptable Regen: any species currently on site.

Other Comment:

Site Condition

Proposed Start Date: 10/1 /2019

402	41194402-NF	10.0	3102 - Grass	Nonstocked		Unspecified	NonForestMgt	Herbaceous/Crop /Grass Planting	310 - Herbaceous Openland		No
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Prescription Opening Enhancement:
Specs: Prescribed fire, brush hog, farming (spraying, dozing, disking, raking, seeding, fertilizing, liming, herbicide), chainsaw and/or brushhog removal of competing trees and establishment of native hard and soft mast producers.

Next Step Pesticide, Skidder - Site Prep

Acceptable Regen:

Other Comment: FTP W41-1507

Site Condition

Proposed Start Date: 10/1 /2020



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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

Total Treatment
Acreage Proposed: 67.2

Report 4 – Site Conditions

Shingleton Mgt. Unit
Steve Touvila : Examiner

Compartment: 194
Year of Entry: 2021

Availability for Management

Total Acres	Acres Available	Acres Avail		Acres Not Available		Dominant Site Conditions						
		With Condition				5C	1C	3H	3J	5E		
142	142	0		0	Aspen			0				
241	0	0		241	Cedar			188	53			
10	10	0		0	Herbaceous Openland							
2	2	0		0	Low-Density Trees							
6	6	0		0	Lowland Aspen/Balsam Poplar							
296	261	30		5	Lowland Conifers	30			5			
220	213	0		8	Lowland Deciduous				8			
54	53	0		1	Lowland Mixed Forest				0	0		
78	77	0		2	Lowland Shrub			2				
3	3	0		0	Marsh							
6	6	0		0	Mixed Upland Deciduous							
267	256	0		11	Northern Hardwood		5	0	6			
4	4	0		0	Tamarack							
4	4	0		0	Upland Conifers							
2	2	0		0	Urban							
1	1	0		0	Water							
1,337	1,040	30		267	Total Forested Acres	30	5	190	71	0		
	78%	2%		20%	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	3H: Deer Wintering Area - habitat is incompatible with harvest at this time	12	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
2	Unavailable	1C: Other dept or div proc/practices	5	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Walters Research Project: Long-term beech regeneration monitoring, up to 20 years (through 2039)							

Report 4 – Site Conditions

Shingleton Mgt. Unit
Steve Touvila : Examiner

Compartment: 194
Year of Entry: 2021

3	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	30	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
4	Unavailable	3H: Deer Wintering Area - habitat is incompatible with harvest at this time	19	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
5	Unavailable	3H: Deer Wintering Area - habitat is incompatible with harvest at this time	49	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
6	Unavailable	3H: Deer Wintering Area - habitat is incompatible with harvest at this time	20	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
8	Unavailable	3H: Deer Wintering Area - habitat is incompatible with harvest at this time	15	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Shingleton Mgt. Unit
Steve Touvila : Examiner

Compartment: 194
Year of Entry: 2021

9	Unavailable	3H: Deer Wintering Area - habitat is incompatible with harvest at this time	10	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
10	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	53	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Stony Creek buffer.							
11	Unavailable	3H: Deer Wintering Area - habitat is incompatible with harvest at this time	4	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
12	Unavailable	3H: Deer Wintering Area - habitat is incompatible with harvest at this time	11	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
13	Unavailable	3H: Deer Wintering Area - habitat is incompatible with harvest at this time	4	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
14	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	5	Unspecified	Unspecified	Unspecified	Unspecified
Comments: 100' buffer for small stream that dissipates as it enters stand 23 Q3.							

Report 4 – Site Conditions

Shingleton Mgt. Unit
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15	Unavailable	5E: Long-Term Retention	0	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Long term retention from 2016 timber sale.							
16	Unavailable	3H: Deer Wintering Area - habitat is incompatible with harvest at this time	26	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
17	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	6	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
18	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	8	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Prairie Creek buffer.							
49	Unavailable	3H: Deer Wintering Area - habitat is incompatible with harvest at this time	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
50	Unavailable	3H: Deer Wintering Area - habitat is incompatible with harvest at this time	20	Unspecified	Unspecified	Unspecified	Unspecified
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
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Comments



Report 6 – EXISTING SPECIAL CONSERVATION AREA DETAILS

* This is a list of SCA's for this compartment along with a 1/4 mile buffer surrounding the compartment. Refer to the Special Conservation Area Map for locations of the below listed Conservation Areas.

ERA = Ecological Reference Area
 HCVA = High Conservation Value Area
 SCA = Special Conservation Area

Conservation Area	Type	Description
SCA	Cold Water Lake	A coldwater lake has temperature and dissolved oxygen conditions that allow naturally-reproduced or stocked trout populations and those of other coldwater fish species to persist from year to year. Suitable conditions for coldwater fishes may occur in Michigan lakes if they are relatively deep, have substantial groundwater inflows, or are located in colder (northern) areas of the state. Such lakes are established by Director's action and designated as trout resources by Fisheries Order 200.
SCA	Cold Water Stream	A coldwater stream has temperature and dissolved oxygen conditions that allow naturally-reproduced or stocked trout populations and those of other coldwater fish species (e.g., slimy sculpin) to persist from year to year. Coldwater streams in Michigan typically provide these conditions due to substantial contributions of groundwater to their stream flows. Such streams are established by Director's action and designated as trout resources by Fisheries Order 210.
SCA	Habitat Area	An area that provide some specific need for the life cycle of wildlife species, including State Wildlife Areas and Waterfowl Production Areas, deer wintering complexes in lowland conifer communities, grassland openings and savannas. Habitat areas are distinct from critical habitat designated for recovery of endangered or threatened species (such as Kirtland's warbler or piping plover areas) in that they are more general in nature, are not primarily associated with threatened or endangered species, and are not covered by species recovery plans that are developed in cooperation with Federal agencies.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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1	622 - Lowland Shrub	Nonstocked	18.0		Unspecified	No	SCA - Deeryard. The snowmobile trail is on the west end of the stand.
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2	500 - Water	Nonstocked	1.2		Unspecified	No	Pond - part of Prairie Creek.
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3	4130 - Aspen	Poletimber Well	10.3	37	51-80	N/A	SCA - Deeryard. Stand is just entering A6. The snowmobile trail runs along the western edge of this stand.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen	70	Pole/Sapling	5	37	Balsam Fir	Medium	Variable	Sapling
Red Maple	10	Sapling	4					
Paper Birch	5	Sapling	4					
Black Cherry	5	Pole/Sapling	5					
Balsam Fir	10	Pole/Sapling	5					

4	4112 - Maple, Beech, Cherry Association	Poletimber Well	34.3	86	81-110	N/A	[2/22/19] SCA - Deeryard. Thinned in 2015 as part of C194 Contract Hardwoods. The southeaster leg of the stand has some low areas.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	55	Pole	9	86	Red Maple	Medium	Variable	Sapling
Sugar Maple	25	Pole	9		Sugar Maple	Medium	Variable	Sapling
Beech	2	Pole	9		Beech	Low	5 - 10 feet	Sapling
Yellow Birch	3	Log	12		Black Ash	Low	5 - 10 feet	Sapling
Hemlock	6	Log	12		Balsam Fir	Medium	Variable	Sapling
Northern White Cedar	3	Pole	9					
Black Cherry	6	Log/Pole	11					

[5/15/09] Red maple with pockets of hemlock. Mixed hardwood pulp includes birches, cherry and a few sugar maple & beech. Scattered merchantable aspen, balsam fir, spruce & cedar are also present. The understory is a mix of hardwoods and balsam fir. The snowmobile trail runs N-S through this stand. Thin to promote growth of the best quality trees and promote species diversity within the stand. Protect the hemlock, and harvest in summer only (August through December) to avoid conflicts with the snowmobile trail.

10/11/11 bb Stand is now on proposal, C194 Contract Hardwoods 22-11-01, Unit 1, actual acres = 28. Residual BA = Hard maple 9', red maple 49', yellow birch 4', fir 2', white spruce 2', white pine 1', hemlock 6', black ash 2' and cherry 9'. 84' total.
12/3/12 RFT Stand is now under contract 41-022-11-01 C194 Contract Hardwoods.
TCR: 11/14/17

5	4130 - Aspen	Poletimber Well	28.4	37	51-80	N/A	SCA - Deeryard. The snowmobile trail passes through this stand. Just entering A6, thick balsam fir sub-canopy.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen	85	Pole/Sapling	5	37	Balsam Fir	Full	10 - 20 feet	Sapling
Yellow Birch	1	Pole	8					
Balsam Fir	4	Sapling/Pole	4					
Red Maple	10	Sapling	4					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																				
6	4112 - Maple, Beech, Cherry Association	Poletimber Well	2.2	86	51-80	N/A	[1/24/19] SCA - Deeryard. Thinned in 2015.																																																				
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7	4137 - Aspen, Birch	Sapling Well	50.7	28	Immature	N/A	SCA - Deeryard. Good regeneration. Most of the aspen is in the southern portion of the stand.																																																				
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8	6120 - Lowland Cedar	Poletimber Medium	20.2	104	51-80	N/A	SCA - Deeryard. Cedar stand along Prairie Creek. The mature cedar and black ash is has significant die back, leaving a thick black ash-sub-canopy.																																																				
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9	4112 - Maple, Beech, Cherry Association	Sawtimber Well	49.8	90	51-80	N/A	[1/24/19] SCA - Deeryard. This stand was thinned in 2013 as part of C194 Contract Hardwoods 410221101, the sale was closed in 2017. Regeneration is becoming well established.																																																				
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10	429 - Mixed Upland Conifers	Sawtimber Well	4.1	108	111-140	N/A	SCA - Deeryard Mix of uneven aged hardwoods & conifers on the transition zone between the adjacent hardwoods to the east and the recently harvested aspen to the west. Composition and structure vary significantly within the stand. The ground becomes a bit lower on the western side of the stand. The hemlock and white pine is mostly western 2/3 of the stand.																																																							
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12	6111 - Lowland Balsam Poplar	Sapling Medium	5.8	9	Immature	N/A	[2/23/19] SCA - Deeryard. Stand was harvested in 2014. Regeneration is filling in.[08/2008] Stand will be prepped for sale by contractors along with timber in Compartment C185 (adjacent to the north.)Approved. Darren Kramer Fisheries Biologist - I approve. Michael P. Herman, Fisheries Division - OK by me.Michael Paluda - WLD approves this change. Thanks Terry R. Minzey[6-4-10] JS: A 2" spec was added to the sale to address the cult codes for TSI in the stand. No FTP has been generated and the need for one will have to be determined after the sale is cut.[11-04-10] Stand is now under contract TS# 41-030-09-01 185 Hardwoods. Sale is closed (it was cut in winter of 2010-11 by Spencer FP) TCR date 7/14/14(RH7/31/14)																																																							
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13	6119 - Mixed Lowland Deciduous Forest	Sapling Well	57.5	37	Immature	N/A	SCA - Deeryard. Dense black ash regeneration with a descent amount of paper birch but wet site and slow growing. Prairie Creek is on the southern edge of the stand.																																																							
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16	6120 - Lowland Cedar	Poletimber Well	7.9	114	111-140	N/A	SCA - Deeryard. More volume in this stand compared to the cedar stands adjoining this stand.																																																				
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17	6117 - Lowland Deciduous, Mixed Coniferous	Poletimber Medium	22.3	75	1-50	N/A	[2/14/19] SCA - Deeryard. A lot of the cedar has died. The largest cedar and most cedar is in NE 4 acres. This area also has a bit larger paper birch and is an E6 and could be cut now. The cedar here is mostly alive yet but is dying off in the tops. The rest of the stand has a dense black ash sub-canopy. The paper birch is healthy throughout the stand. [2-8-11] To benefit wildlife, WLD will be handplanting red-osier dogwood in canopy gaps within this stand in the spring of 2011. Cult codes have been added at this time & all necessary approvals have been obtained. Stand was planted with red osier dogwood shrubs under FTP w41-1487 within canopy gaps at a cost of \$6775.00. FTP has been closed. (3/11/14RH)																																																				
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18	622 - Lowland Shrub	Nonstocked	31.8	0	Unspecified	No	SCA - Deeryard. Cedar has mostly died off in back flooded area of Stony Creek. Some scattered black ash and tamarack seedlings starting to grow, as well as a few cedar saplings. Medium to high tag alder.																																																				



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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19 6120 - Lowland Cedar Poletimber Well 51.8 131 141-170 N/A

SCA - DeeryardBuffer stand between deeryard cuttings and Stoney Creek - maintain to protect the wetlands and provide a wildlife travel corridor. Some areas have cedar die back.

Canopy Species	% Cover	Size Class	DBH	Age
Tamarack	5	Pole	7	
Black Spruce	5	Pole	6	
Paper Birch	5	Pole	6	
Northern White Cedar	85	Pole	6	131

Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	Low	5 - 10 feet	Sapling
Tag Alder	Low	5 - 10 feet	Tall Shrub



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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20 6117 - Lowland Deciduous, Mixed Coniferous Sapling Poor 102.7 14 Immature N/A

Canopy Species	% Cover	Size Class	DBH	Age
Balsam Poplar	25	Sapling	1	
Red Maple	2	Sapling	1	
Black Ash	15	Sapling	1	
Black Spruce	8	Sapling	1	
Tamarack	10	Sapling	1	
Paper Birch	30	Sapling	1	14
Balsam Fir	10	Sapling	1	

Sub-Canopy Species	Density	Avg. Height	Size
Willow spp.	Medium	5 - 10 feet	Sapling
Tag Alder	High	5 - 10 feet	Tall Shrub

[2/22/19] SCA - Deeryard. Stand is regenerating slowly and has just made it into E1. The northern 1/4 of the stand has the thickest regeneration so far. Tag alder and willow present throughout the stand.

[10/15/09] Stand 505 is the south part of stand 5 in the 2001 YOE and is stand 20 in the 2011 YOE. Treatment was accomplished under burn #2009020004. Approximately 60-80% of the area burned with approximately 75% of the slash and 1/2-2" of duff being removed in the areas that did burn. This was a partial treatment. The northern most portion did not burn well enough to complete the burning operations due to the condition of the slash and the heavy Tag Alder. The area that was burned will need to be seeded during the winter. The area that did not get burned should also be seeded since there was some cedar regeneration (1-2') along the edges of the stand where there was an adjacent seed source.

[2-01-10] Updated cult coding to seeding.
[7-19-10 JS] FTP W41-1410 is complete. This called for stands 5, 6 and 21 (2001 YOE) to be clearcut and subsequently burned under W41-1409. In the 2011 YOE, these stands were all mapped together as stand 20. A portion of stand 20 was burned in the summer of 2009 and remains to be seeded. A portion of stand 20, still covered under FTP W41-1409, remains to be burned and then seeded. For the 2010-11 deer yard cutting, we are going to continue to cut in stand 20 (based on the OI map). However, because OI shows all of stand 20 being cut, we will be showing the cutting as being in stand 21. The error is due to OI mapping.

[2-8-11] To benefit wildlife, WLD will be handplanting red-osier dogwood in canopy gaps within this stand in the spring of 2011. All necessary approvals have been obtained. Note that cult codes for the burn are still in place (see comments above) so cult codes for this project HAVE NOT been added to the stand record.

[9/21/11 bb] A portion of this stand remained un-cut due to the timing of the inventory, it is included in the 2011 Deeryard sale, a chapter 7 letter was circulated and approved (see file) to explain the discrepancy. Once cut that portion will also be burned and seeded.

[10/03/2011 JB] A portion of this stand was harvested, burned and then seeded under W41-1409 while the other wasn't as described in the [9/21/11] comments. The burned areas were seeded with cedar using a snowmobile in the winter of 2010 and will need a regeneration check in 2013 and possibly later for cedar's slow growth. FTP w41-1409 is complete and is closing cost was \$2807.22.

[12/21/11] The uncut portion of the stand (8 acres) is now under sale contract 41-031-11-01 2011 Deeryard.

9/10/12 bb The Sale mentioned above is now closed with a TCR date of 9-10-12 the purchaser only completed 5 of the 16 Units for 2.5 acres. The un-cut portion is being rolled into the 2012 Deeryard Sale (Metser Deeryard Sale 41-033-12). When it's complete the area will be burned and seeded. The current FTP will be carried forward W41-1511 The stand is not on the regen timeclock as of yet since the sale cannot be regenerated until its all complete.

9/15/13 BB The 2012 Deeryard Sale is now closed. There were 2 Units returned un-cut, Units 8 and 9 which were on the west side. These 2



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
							<p>Units will be merged into the western buffer strip/seed source long term. 01/27/14 TCR dtd 10/21/13 closed the 2012 deeryard sale, #41-033-12-01. 8 acres entered into the time clock - Regenerate under FTP W-41-1511.1</p> <p>Stand was planted with red osier dogwood shrubs under FTP w41-1487 within canopy gaps at a cost of \$6775.00. FTP has been closed. (3/11/14RH)</p>



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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21	6120 - Lowland Cedar	Poletimber Well	49.4	131	171-200	N/A	
Canopy Species	% Cover	Size Class	DBH	Age			
Red Maple	1	Pole	8				
Black Ash	1	Pole	7				
Tamarack	5	Pole	8				
Paper Birch	4	Pole	8				
Black Spruce	5	Pole	8				
Northern White Cedar	84	Pole	8	131			

Sub-Canopy Species	Density	Avg. Height	Size
Black Ash	Trace	5 - 10 feet	Sapling
Balsam Fir	Trace	5 - 10 feet	Sapling

[2/14/19] SCA - Deeryard. Very dense cedar in the north part of the stand. The odd shaped south end of the stand is a bit less quality cedar and smaller diameter. This area also has more of the black spruce and tamarack mixed in it.

[7-22-10 JS] For the 2010-11 deer yard cutting, 41-037-10-01 was set up for 8 acres out of this stand. If the sale map was overlaid with the OI map, it would show as stand 20 being cut. However because OI shows stand 20 already being cut, future cuttings will be shown in this stand. The error is due to OI mapping. W41-1409 also applies to this stand (in both the 2001 and 2011 YOEs). That FTP has been partially completed as stands 5 & 16 (2001 YOE) have been burned, but not seeded.

[11-04-10] Stand is now under contract TS# 41-037-10-01 2010 Deeryard Sale for 8 acres. W41-1409 (cedar regeneration) is still open & applies here.

[2-8-11] To benefit wildlife, WLD will be handplanting red-osier dogwood in canopy gaps within this stand in the spring of 2011. All necessary approvals have been obtained. Note that cult codes for the burn are still in place (see comments above) so cult codes for this project HAVE NOT been added to the stand record.

[10/03/2011 JB] A portion of this stand was harvested, burned and then seeded for the 2007-2009 deer yard harvests, while the other wasn't as described in the [7/22/10] comments. The burned areas were seeded with cedar using a snowmobile in the winter of 2010 and will need a regeneration check in 2013 and possibly later due to cedar's slow growth.

[11-10-11] TS 41-037-10-01 is closed TCR dtd 9-8-2011. The 2010 deer yard sale under 41-037-10-01, was burned in the fall of 2011 and will have to be seeded in the winter of 2011.

[12-5-2011 JB] Stand is now under contract TS# 41-31-11-01, 2011 Deeryard Sale on about 12 acres. This sale is directly north of the 2010 Deeryard sale area. See FTP #W41-1511 for cultivation work pertaining to this sale.

10/15/13 BB There is much confusion with the notes above. All notes except the prescription apply to stand 20 and the confusion is in the OI mapping as stated above. See comments and Chapter 7 change to clear up any discrepancies. The 2013/2014 Deeryard Sale 41-008-14-01 is the first that will impact this stand. Strip cuts were initiated because the larger scale cuts to the south have proved to be much less successful due to the elimination of the seed source and changes in the water table. The strip cut acreage for 2014 is actually 23 acres total.

Stand was planted with red osier dogwood shrubs under FTP w41-1487 within canopy gaps at a cost of \$6775.00. FTP has been closed. (3/11/14RH)



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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22	6120 - Lowland Cedar	Poletimber Medium	12.1	107	51-80	N/A	SCA - Deeryard. Low quality wet stand that was left out of stand 20 timber sale.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Northern White Cedar		60	Pole/Sapling	5	107	Tag Alder		Medium	5 - 10 feet	Tall Shrub
Tamarack		20	Pole/Sapling	5		Balsam Fir		Low	5 - 10 feet	Sapling
Black Spruce		20	Pole/Sapling	5		Northern White Cedar		Low	Variable	Sapling
						Black Spruce		Low	10 - 20 feet	Sapling

23	6129 - Mixed Coniferous Lowland Forest	Sapling Well	185.0	40	1-50	N/A	[2/14/19] SCA - Deeryard. Thick regeneration with cedar being the dominant species. This stand was strip cut in the early 1980's, and then patches of mature cedar were left when the residual strips were harvested several years later. It is now a mix of fir-spruce-cedar-red maple-paper birch regeneration; some acres include tamarack, black ash and white pine saplings as well. The understory varies from well-stocked conifer and/or hardwood regen to lowland brush. North of the Metser Grade, site indices appear to be slightly higher and cedar regeneration is more somewhat prevalent; south of the grade, the area becomes progressively wetter as it approaches Prairie Creek. Stocking levels and site indices drop accordingly. [2-8-11] To benefit wildlife, WLD will be handplanting red-osier dogwood in canopy gaps within this stand in the spring of 2011. Cult codes have been added at this time & all necessary approvals have been obtained. [3/13/13] WLD conducted a regen survey in this stand in October 2012 to determine if sufficient cedar regen is present. Counting stopped at 10 cedar in each size class: seedlings, saplings under 4" DBH, and trees over 5" DBH on each plot. As a result, the true average number of cedar per acre cannot be accurately determined from the survey results but general stocking levels may be adequately assessed. Results: North of the Metser grade: 9 of 10 1/50 acre plots had more than 10 cedar saplings/small poles in the 1-5" diameter classes, revealing an average of more than 450 cedar saplings/poles and 100 cedar seedlings per acre. In addition, the survey revealed an average of approximately 785 mixed conifer saplings, 35 mixed conifer seedlings, 530 mixed hardwood saplings and 130 aspen saplings per acre. As expected, tag alder is present throughout the stand. General comments from the survey indicate that the cedar is denser in the south half of the stand, while the north half is more of a species mix. South of the Metser Grade: All plots are adequately stocked with cedar. The numbers are as follows: Cedar - More than 500 saplings and more than 278 seedlings per acre; 404 mixed conifer saplings/poles per acre; 295 mixed hardwood saplings/poles and 22 aspen saplings per acre are also present. Stand was planted with red osier dogwood shrubs under FTP w41-1487 within canopy gaps at a cost of \$6775.00. FTP has been closed. (3/11/14RH)			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
White Pine		2	Sapling/Pole	3		Northern White Cedar		Medium	5 - 10 feet	Sapling
Red Maple		3	Sapling	3		Tag Alder		Medium	5 - 10 feet	Tall Shrub
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Northern White Cedar		30	Sapling	3	40					
Paper Birch		5	Sapling	3						
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Quaking Aspen		5	Sapling/Pole	4						



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																											
24	4113 - R.Maple, Conifer	Poletimber Well	15.2	90	81-110	N/A	SCA - Deeryard. Most of the black cherry is concentrated in the central part of the stand. Black cherry is healthy but may start to decline in 10 or 20 years. The white pine is concentrated in the west 1/2 of the stand.																																																											
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25	6120 - Lowland Cedar	Poletimber Well	10.5	114	111-140	N/A	SCA - Deeryard. Dense areas of cedar with some areas that are a bit open. The cedar isn't very tall, mostly 2 stick and some 3 stick.																																																											
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26	4112 - Maple, Beech, Cherry Association	Sapling Well	7.3	38	Immature	N/A	SCA - Deeryard. Thick regeneration. A few scattered pole sized aspen and red maple.																																																											
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27	4112 - Maple, Beech, Cherry Association	Sawtimber Well	33.9	90	81-110	N/A	[1/24/19] SCA Deeryard. Was thinned in 2015, sale was closed in 2017. Stand looks good with regeneration filling in. Most of the hemlock is in the south part of the stand. OPIC - FMD: SCA - Deeryard Good quality hardwoods - ready for a selection cut. Maintain stand diversity. 10/11/11 bb Stand is now on proposal, C194 Contract Hardwoods 22-11-01, Unit 3, actual acres = 32. Residual BA = Hard maple 28', red maple 23', yellow birch 7', basswood 2', beech 3', fir 1', white spruce 2', cedar 2', white pine 1', hemlock 9', black ash 1' and cherry 2'. 80' total. 12/3/12 RFT Stand is now under contract 41-022-11-01 C194 Contract Hardwoods. TCR: 11/14/17																																																											
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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28 6119 - Mixed Lowland Deciduous Forest Poletimber Well 7.0 50 51-80 N/A SCA - Deeryard. 1/3 of the stand is upland and 2/3 is lowland.

Canopy Species	% Cover	Size Class	DBH	Age
Black Ash	5	Pole	6	
Yellow Birch	2	Pole	7	
Paper Birch	3	Pole	5	
Quaking Aspen	39	Pole	7	50
Northern White Cedar	2	Pole	7	
Black Cherry	3	Sapling/Pole	4	
Balsam Fir	10	Pole	5	
Red Maple	36	Sapling/Pole	4	

29 6124 - Lowland Spruce-Fir Sawtimber Well 34.9 90 111-140 N/A SCA - Deeryard. Stand is healthy and the quaking aspen is still healthy. We should look at treating next entry so we don't lose the aspen. There's a small 2-3' wide stream in the southern part. The northeast 3.5 acres north of the road is mostly black spruce with some scattered white pine.

Canopy Species	% Cover	Size Class	DBH	Age
Paper Birch	1	Pole	9	
Tamarack	1	Log	14	
White Pine	2	Log	14	
Balsam Poplar	1	Pole	8	
Bigtooth Aspen	20	Log/Pole	11	
Hemlock	1	Log	14	
Balsam Fir	15	Pole	8	
Northern White Cedar	2	Pole	9	
White Spruce	25	Log/Pole	11	90
Black Ash	2	Pole	5	
Red Maple	8	Pole	7	
Black Spruce	22	Pole	8	

Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	Low	5 - 10 feet	Sapling
Black Ash	Low	5 - 10 feet	Sapling
Balsam Fir	Medium	Variable	Sapling

30 4112 - Maple, Beech, Cherry Association Poletimber Well 55.3 86 81-110 N/A [1/23/19] SCA - Deeryard. Hardwoods with pockets of hemlock. The understory is a mix of hardwoods and balsam fir. The snowmobile trail runs through this stand.

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	45	Pole	8	86
Sugar Maple	45	Pole	8	86
Yellow Birch	3	Pole/Log	9	
Hemlock	3	Log/Pole	14	
White Spruce	2	Pole/Log	9	
White Pine	2	Log	14	

Sub-Canopy Species	Density	Avg. Height	Size
Beech	Trace	5 - 10 feet	Sapling
Sugar Maple	Medium	Variable	Sapling
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Balsam Fir	Medium	Variable	Sapling
Red Maple	Medium	Variable	Sapling
White Pine	Trace	5 - 10 feet	Sapling

10/11/11 bb Stand is now on proposal, C194 Contract Hardwoods 22-11-01, Unit 4, actual acres = 53. Residual BA = Hard maple 20', red maple 33', yellow birch 4', fir 2', white spruce 4', white pine 1', hemlock 3', black ash 1' and cherry 3'. 71' total.

12/3/12 RFT Stand is now under contract 41-022-11-01 C194 Contract Hardwoods.
TCR: 11/14/17



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																												
31	4199 - Other Mixed Upland Deciduous	Sapling Well	5.5	26	Immature	N/A	SCA - Deeryard. Hemlock was left uncut as well as a few red maple, aspen, and black cherry. There's a pocket of aspen in the southwest area of the stand. Regeneration looks good.																																												
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32	6130 - Fir, Aspen, Maple	Sapling Poor	12.6	7	Immature	N/A	[2/22/19] SCA - Deeryard. Cut in 2016 as part of C194 Contract Hardwoods 410221101. Regeneration is taking hold. White pine and a few hemlock and cedar were reserved.[5/15/09] Mix of spruce/fir/red maple with white pine, hemlock and a few cherry scattered throughout. The understory is a mix of the same species.The spruce & fir are blowing down now - harvest ASAP or the merchantable volume will be lost. Retain the white pine and hemlock, plus any cedar encountered in the stand. Acceptable regeneration includes all conifer spp., red maple and aspen.10/11/11 bb Stand is now on proposal, C194 Contract Hardwoods 22-11-01, Unit 5, actual acres = 11. Residual BA = cedar 1', white pine 12', hemlock 7'. 20' total.12/3/12 RFT Stand is now under contract 41-022-11-01 C194 Contract Hardwoods.TCR: 11/14/17																																												
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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34	6118 - Lowland Deciduous with Cedar	Sapling Well	21.5	26	Immature	N/A	[2/22/19] SCA - Deeryard. More tag alder and willow than the 35 just to the north, looks to be more cedar regeneration in this stand when compared to stand 35. [3/13/13] WLD conducted a regen survey in this stand in October 2012 to determine if sufficient cedar regen is present. Counting stopped at 10 cedar in each size class: seedlings, saplings under 4" DBH, and trees over 5" DBH on each plot. As a result, the true average number of cedar per acre cannot be accurately determined from the survey results but general stocking levels may be adequately assessed. Results: 4 out of 4 - 1/50 acre plots had adequate cedar regeneration. An overall average of more than 500 cedar saplings plus more than 163 cedar seedlings per acre are present. In addition, the survey revealed an average of approximately 1150 mixed conifer saplings, 125 mixed conifer seedlings, 675 mixed hardwood saplings, 88 mixed hardwood seedlings and 100 aspen saplings per acre. As expected, tag alder is present throughout most of the stand. General comments from the survey indicate that the cedar regen is well-distributed in the stand.
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Canopy Species	% Cover	Size Class	DBH	Age
Balsam Fir	5	Sapling	2	
Black Spruce	3	Sapling	1	
Paper Birch	30	Sapling	2	26
Quaking Aspen	12	Sapling	2	
Tamarack	5	Sapling	2	
Northern White Cedar	25	Sapling	2	
Black Ash	20	Sapling	2	

Sub-Canopy Species	Density	Avg. Height	Size
Black Ash	Medium	< 5 feet	Sapling
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Willow spp.	Medium	5 - 10 feet	Sapling
Tag Alder	Medium	5 - 10 feet	Tall Shrub
Balsam Fir	Medium	5 - 10 feet	Sapling

35	6132 - Mixed Lowland Forest with Cedar	Sapling Well	28.8	28	Immature	N/A	[2/22/19] SCA - Deeryard. Regeneration looks good and the cedar is taking hold in the stand. Long term management goal for this stand is cedar, and this stand will eventually be dominated by the conifer understory; but for now the overstory mix of paper birch, black ash, red maple & tamarack is featured. The understory is mainly cedar with fir and spruce mixed in. Stand composition and density are highly variable, with lowland brush still dominant in some places. [3/13/13] WLD conducted a regen survey in this stand in October 2012 to determine if sufficient cedar regen is present. Counting stopped at 10 cedar in each size class: seedlings, saplings under 4" DBH, and trees over 5" DBH on each plot. As a result, the true average number of cedar per acre cannot be accurately determined from the survey results but general stocking levels may be adequately assessed. Results: 3 out of 4 - 1/50 acre plots had adequate cedar regeneration. An overall average of more than 438 cedar saplings/poles plus 47 cedar seedlings per acre are present. In addition, the survey revealed an average of approximately 838 mixed conifer saplings, 50 mixed conifer seedlings, 688 mixed hardwood saplings/poles, 225 mixed hardwood seedlings and 238 aspen saplings/poles per acre. As expected, tag alder is present throughout most of the stand. General comments from the survey indicate that there is less cedar regen in the western side of the stand, and particularly in the SW corner.
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Canopy Species	% Cover	Size Class	DBH	Age
Paper Birch	35	Sapling	3	28
Balsam Fir	10	Sapling	3	
Quaking Aspen	5	Sapling	4	
Northern White Cedar	20	Sapling	2	
Black Ash	15	Sapling	3	
Tamarack	7	Sapling	3	
Black Spruce	5	Sapling	2	
Red Maple	3	Sapling	3	

Sub-Canopy Species	Density	Avg. Height	Size
Tag Alder	Low	5 - 10 feet	Tall Shrub
Northern White Cedar	Low	< 5 feet	Sapling
Red Maple	Low	5 - 10 feet	Sapling
Balsam Fir	Medium	5 - 10 feet	Sapling



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																										
36	6120 - Lowland Cedar	Poletimber Medium	3.9	90	51-80	N/A	SCA - Deeryard. The snowmobile trail runs through this stand. A lot of cedar has blown over since the last inventory. Wet ground with a lot of advanced black ash sub-canopy.																																																										
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37	6139 - Mixed Lowland Forest	Poletimber Well	12.7	90	111-140	N/A	SCA deeryard. Snowmobile trail runs through the southeast corner of the stand. Most of the hemlock and white pine is in the south 1/2 of the stand.																																																										
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38	6120 - Lowland Cedar	Poletimber Poor	1.2	114	1-50	N/A	[1/23/19] More cedar has died since last inventory. Some balsam fir and yellow birch regeneration.OPIC - FMD: SCA - DeeryardBackflooded cedar near Stoney Creek - many dead trees.																																																										
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39	4112 - Maple, Beech, Cherry Association	Sawtimber Well	9.6	90	111-140	N/A	[1/23/19] Ready for a thinning to advance the growth of the regeneration.SCA - DeeryardThe snowmobile trail runs through this stand.																																																										
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40	6120 - Lowland Cedar	Sawtimber Well	3.6	131	171-200	N/A	Dense cedar stand with some paper birch and tamarack.																																																										
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41	623 - Emergent Wetland	Nonstocked	2.7		Unspecified	No	SCA - Deeryard. Seasonally-flooded marsh along Stoney Creek.																																																										



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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42	4119 - Mixed Northern Hardwoods	Sawtimber Well	4.7	86	81-110	N/A	SCA - Deeryard Hardwood mix on a transitional site between the uplands and the cedar. Mixed hardwood includes sugar maple, red maple and yellow birch; some few balsam fir is also present. Lots of established regeneration.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
	Black Cherry	5	Pole	7			Black Ash	Low	10 - 20 feet	Sapling
	White Spruce	5	Pole	7			Black Cherry	Low	10 - 20 feet	Sapling
	Basswood	2	Log/Pole	12			Yellow Birch	Medium	10 - 20 feet	Sapling
	Balsam Fir	10	Pole	6			Red Maple	Low	10 - 20 feet	Sapling
	Hemlock	10	Log	12			Beech	Low	10 - 20 feet	Sapling
	Yellow Birch	3	Log/Pole	11			Balsam Fir	High	Variable	Sapling
	Red Maple	17	Log/Pole	10			Sugar Maple	High	10 - 20 feet	Sapling
	Sugar Maple	45	Log/Pole	10	86					
	Black Ash	3	Pole	8						

43	6120 - Lowland Cedar	Poletimber Well	19.1	131	171-200	N/A	SCA - Deeryard A 6-9' wide tributary to Stoney Creek flows into the eastern edge of the stand, near the private land boundary in T46N R17W 8 SESE. If cutting occurs, it should be buffered. Good ground for doing some regeneration harvesting in the future. More of the paper birch is in the southern portion of the stand near stand 45.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
	White Spruce	8	Log/Pole	11			Balsam Fir	Low	5 - 10 feet	Sapling
	Yellow Birch	5	Log/Pole	11			Red Maple	Trace	5 - 10 feet	Sapling
	Hemlock	2	Log/XLog	16			Yellow Birch	Trace	5 - 10 feet	Sapling
	Tamarack	5	Pole/Log	9						
	Paper Birch	5	Pole/Log	9						
	Red Maple	3	Log/Pole/XLog	12						
	Northern White Cedar	72	Pole/Log	9	131					

44	4115 - Y.Birch, Hemlock NH	Sawtimber Well	9.0	90	81-110	N/A	SCA - Deeryard Hardwood mix on a transitional site between the uplands and the cedar. Mixed hardwood includes red maple, sugar maple and yellow birch; a few balsam fir and white spruce are also present. Lots of established regeneration.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
	Yellow Birch	8	Log/Pole	12			Sugar Maple	Low	10 - 20 feet	Sapling
	Hemlock	20	Log/XLog	14			Red Maple	High	>20 feet	Sapling
	Black Ash	5	Pole	9			Yellow Birch	Medium	10 - 20 feet	Sapling
	White Spruce	3	Pole	7			Black Cherry	Low	10 - 20 feet	Sapling
	Sugar Maple	12	Log/Pole	11			Balsam Fir	Medium	Variable	Sapling
	Red Maple	50	Log/Pole/XLog	11	90		Beech	Medium	10 - 20 feet	Sapling
	Balsam Fir	2	Pole	6						



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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45 4119 - Mixed Northern Hardwoods Sawtimber Well 24.4 90 111-140 N/A SCA - Deeryard. BA averages 119. Canopy has closed in over an advanced regeneration sub-canopy. A selection harvest creating canopy gaps would be beneficial for the regeneration.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple	31	Log/Pole/XLog	10		Beech	Trace	10 - 20 feet	Sapling
White Spruce	5	Pole/Log	8		Yellow Birch	Medium	10 - 20 feet	Sapling
Northern White Cedar	1	Pole	9		Sugar Maple	Medium	10 - 20 feet	Sapling
Yellow Birch	10	Log/Pole	11		Red Maple	Medium	10 - 20 feet	Sapling
Quaking Aspen	1	Log	11		Balsam Fir	Medium	Variable	Sapling
Red Maple	40	Log/Pole/XLog	10	90				
Basswood	1	Log/Pole	12					
Hemlock	4	Log/XLog	14					
Beech	1	Log/Pole	12					
Black Ash	1	Pole	7					
Balsam Fir	4	Pole	8					
Black Cherry	1	Log/Pole	12					

46 6128 - Lowland Coniferous, Mixed Deciduous Sapling Well 36.0 38 Immature N/A SCA - DeeryardMixed regeneration, including a lot of cedar - but also spruce, fir, tamarack and paper birch. Lowland brush is also present throughout.[3/13/13] WLD conducted a regen survey in this stand in October 2012 to determine if sufficient cedar regen is present. Counting stopped at 10 cedar in each size class: seedlings, saplings under 4" DBH, and trees over 5" DBH on each plot. As a result, the true average number of cedar per acre cannot be accurately determined from the survey results but general stocking levels may be adequately assessed.Results: 4 out of 5 - 1/50 acre plots had adequate cedar regeneration to be considered fully-stocked, with the 5th just short of reaching that level. An overall average of more than 780 cedar saplings per acre are present. In addition, the survey revealed an average of approximately 1000 mixed conifer saplings and 1020 mixed hardwood saplings per acre. General comments from the survey indicate that there is heavy cedar/mixed conifer regen throughout the stand.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Tamarack	10	Sapling	3		Balsam Fir	Medium	5 - 10 feet	Sapling
Balsam Fir	25	Sapling	3		Tag Alder	Medium	5 - 10 feet	Tall Shrub
Black Spruce	5	Sapling	3					
Paper Birch	15	Sapling	3					
Red Maple	5	Sapling	3					
Northern White Cedar	40	Sapling	3	38				

47 4137 - Aspen, Birch Poletimber Well 11.3 35 51-80 N/A SCA - Deeryard. Good regeneration. The aspen is taking over as the dominate species in the northern 2/3 of the stand. Some wetter hummocks in the southeast part of the stand with a few black ash. More of the mixed hardwood is mainly in the southern part of the stand. Some balsam and white spruce was left as residual from the previous treatment.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	15	Sapling/Pole	4		Red Maple	Medium	5 - 10 feet	Sapling
White Spruce	5	Log	12		Balsam Fir	Medium	5 - 10 feet	Sapling
Hemlock	2	Log	16					
Black Cherry	5	Pole/Sapling	5					
Paper Birch	15	Sapling/Pole	4					
Balsam Fir	11	Pole	7					
Black Ash	1	Sapling	3					
Quaking Aspen	40	Pole/Sapling	5	35				
Northern White Cedar	1	Pole	9					
Yellow Birch	5	Sapling/Pole	4					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																				
48	4110 - Sugar Maple Association	Sawtimber Well	10.1	90	81-110	N/A	[2/13/19] SCA - Deeryard. Thinned in 2011. Stand looks good.																																				
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50	6120 - Lowland Cedar	Poletimber Well	20.3	136	171-200	N/A	SCA - Deeryard. Wetter ground and smaller diameter trees than the two small cedar stands just to the north, but operable.																																				
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51	6129 - Mixed Coniferous Lowland Forest	Sapling Well	20.5	38	Immature	N/A	[2/13/19] SCA - Deeryard. Additional cedar is regenerating in the understory. Stand is looking good.																																				
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52	6120 - Lowland Cedar	Poletimber Poor	9.6	91	1-50	N/A	SCA Deeryard. Cedar has been dying off leaving a more open stand.																																				
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53	6121 - Tamarack	Poletimber Medium	4.1	91	1-50	N/A	SCA - Deeryard. Wet ground, a lot of the cedar has died off. The stand is more open now with a thick sub-canopy of young tamarack and some cedar.																																																								
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54	6120 - Lowland Cedar	Poletimber Well	12.9	129	141-170	N/A	SCA - Deeryard. The west side has a lot of dead cedar and is wetter ground. In the rest of the stand up to 20% of the cedar tops are beginning to die back.																																																								
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55	6128 - Lowland Coniferous, Mixed Deciduous	Sapling Medium	19.9	23	Immature	N/A	[2/13/19] SCA - Deeryard. Regeneration is continuing to fill in, closer to a Q3 now. Cut in 2000/2001 - Lowland brush is still dominant in many areas. Overall stocking is somewhat low but should improve with time. Species regenerating include cedar, spruce, fir, paper birch, red maple and scattered clones of aspen/balsam poplar. Long term management goal is cedar. [5-20-09] Regen Survey: 7 points - red maple = 79 t/a; p.birch = 94 t/a; mixed aspen = 31 t/a; b.fir = 141 t/a; b. spruce = 126 t/a; cedar = 157 t/a; total = average 628 trees/acre, but only 4 of 7 plots fully stocked; therefore Q2 at this time, with good potential to reach full stocking in time. [3/13/13] WLD conducted a regen survey in this stand in October 2012 to determine if sufficient cedar regen is present. Counting stopped at 10 cedar in each size class: seedlings, saplings under 4" DBH, and trees over 5" DBH on each plot. As a result, the true average number of cedar per acre cannot be accurately determined from the survey results but general stocking levels may be adequately assessed. Results: 1 out of 3 - 1/50 acre plots had adequate cedar regeneration to be considered fully-stocked. An overall average of more than 317 cedar seedlings per acre are present. In addition, the survey revealed an average of approximately 233 mixed conifer saplings and more than 550 mixed conifer seedlings per acre. General comments from the survey indicate that there is a lot of cattails throughout the stand, indicating very wet conditions.																																																								
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56	4139 - Aspen, Mixed Deciduous	Sapling Well	33.8	8	Immature	N/A	[2/13/19] Regeneration has filled in and doing good. Some aspen and fir were left along the edges of the stand. 10/31/11 bb Stand is now on proposal 14-11 Metser Mix, Unit 2, acres 26.12/3/12 RFT Stand is now under contract 41-014-11-01 Metser Mix. TCR: 9/24/18																																																								
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57	4134 - Aspen, Spruce/Fir	Poletimber Medium	7.8	38	1-50	N/A	SCA - Deeryard. Aspen, fir, and a mix of hardwoods. Looks good, thick regeneration with some yet to reach pole size.																																																							
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58	4110 - Sugar Maple Association	Sawtimber Well	8.6	90	111-140	N/A	SCA - Deeryard. Stand ready for a selection thin to release regeneration.																																																							
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59	622 - Lowland Shrub	Nonstocked	2.3		Unspecified	No	SCA - Deeryard. Dense willow and some tag alder.																																																							
60	122 - Road/Parking Lot	Nonstocked	1.7		Unspecified	No	SCA - Deeryard H-15 right-of-way																																																							
61	6229 - Mixed lowland shrub	Nonstocked	10.7		Unspecified	6120 - Lowland Cedar	SCA Deeryard. Was cut in 2014 and 2015. Deer were utilizing the browse in 2014 but not in 2015. About 7.5 acres was left uncut and the sale was closed. There is still red lines and the areas can be viewed in the treatment history layer.																																																							
62	622 - Lowland Shrub	Nonstocked	1.9	0	Unspecified	No	OPIC - FMD: SCA - Deeryard																																																							
63	6120 - Lowland Cedar	Poletimber Medium	2.4	113	51-80	N/A	SCA - Deeryard. Low density cedar stand with a high amount of black ash saplings.																																																							
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
66	622 - Lowland Shrub	Nonstocked	8.2	0	Unspecified	No	SCA-deeryard.
402	3102 - Grass	Nonstocked	10.0		Unspecified	Managed Opening	165 apple trees were planted in 2014 and 86 red oak were planted in 2012. Under FTP W41-1507: *Farmed and planted with Red Oak, Aug 2011 & May 2012. *Apple/Crabapple planted, 2014. *Re-farmed and planted to rye/clover, August 2019. *75 apple/crabapple saplings were planted in the southern portion of the stand, May 2020. *Mowed 2021, 2022.