Compartment Review Presentation

Shingleton Forest Management Unit

Compartment 41186
Entry Year 2021
Acreage: 1,219
County Alger
Management Area: Grand Marais Moraine Complex

Stand Examiner: Scott Kentner

Legal Description:

T46N R17W Sections 10, 11, 14 & 15

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 generally featuring sandy to fine sandy loam soils on the uplands & ridges, and heavier muck soils in the bottomlands. Drainage is 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, with only one 40-acre parcel of private land within this compartment.

Unique Natural Features:

NA

Archeological, Historical, and Cultural Features:

NA

Special Management Designations or Considerations:

Most of this compartment lies within the Petrel Deeryard.

Watershed and Fisheries Considerations:

This compartment contains Metser Creek which serves as a tributary to Star Creek. Metser Creek is designated a Type 1 trout streams less than 50' width. A 300' buffer is recommended for Metser 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:

This compartment is located west of the Petrel Road about two and a half miles northeast of Shingleton in the heart of the Petrel Deer Yard. It contains a mix of cover types from northern hardwoods to lowland conifers and marshy areas. Metser Creek flows south through it, originating from cedar swamp in the northwestern part of the compartment. Wildlife goals are to provide browse and winter cover for deer, maintain and promote diversity in northern hardwood stands, provide some young early successional habitat, and protecting stream and riparian corridors by buffering the stream. 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 hardwood stands, species diversity will be maintained and vernal pools and similar wetlands will be buffered. Species benefitting from this management include deer, black bear, beaver, bobcat, northern goshawk, and ruffed grouse.

Mineral Resource and Development Concerns and/or Restrictions

Surface sediments consist of medium-textured till and minor peat & muck. There is insufficient data to determine the glacial drift thickness. The Ordovician Prairie du Chien (PdC) Formation subcrops below the glacial drift. The PdC could be used for stone. There is a gravel pit in Section 14 and potential appears to be good on the uplands. There is no commercial oil and gas production in the UP.

Vehicle Access:

The Petrel Road, Metser Grade and various woods roads connected to the two provide access to this compartment from Star Siding Road.

Survey Needs:

NA

Recreational Facilities and Opportunities:

There are no developed recreational facilities in this compartment.

Fire Protection:

Access across low, wet terrain is extremely difficult in many areas.

Additional Compartment Information:

The following reports from the Inventory are attached:

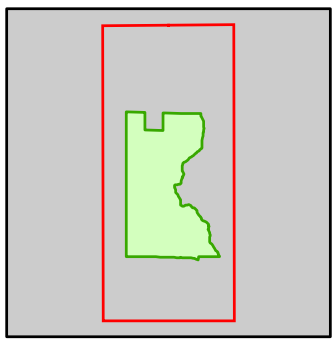
- **Total Acres by Cover Type and Age Class**
- **Cover Type by Harvest Method**
- **Proposed Treatments – No Limiting Factors**
- **Proposed Treatments – With Limiting Factors**
- **Stand Details (Forested and Nonforested)**
- **Dedicated and Proposed Special Conservation Areas**
- **Site Condition 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: 186
T46N,R17W, Sec: 10, 11, 14, 15
County: Alger
Unit: Shingleton
Mgmt Area: Grand Marais Moraine Complex
YOE: 2021
Acres: 1218.9 GIS Calculated
Examiner: Scott Kentner
Map Revised: 9/20/2023
Map Phase: Post Review



N

- Miris Corners
- Remonumented Section Corners
- Counties
- DNR - Primary Forest Road
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Private - Dirt / Gravel Road
- Intermittent Stream
- Lake/Pond
- Perennial River
- Lakes and Rivers
- Cabin
- Compartment Boundary
- Selection (Group, Single Tree)
- Clearcut (w/Reserves)
- Regeneration Survey
- Opening Maintenance
- 411 - Northern Hardwood
- 413 - Aspen
- 419 - Mixed Upland Deciduous
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 613 - Lowland Mixed Forest
- 310 - Herbaceous Openland
- 500 - Water
- 622 - Lowland Shrub
- 623 - Emergent Wetland

Stand Boundary Map

Compartment: 186
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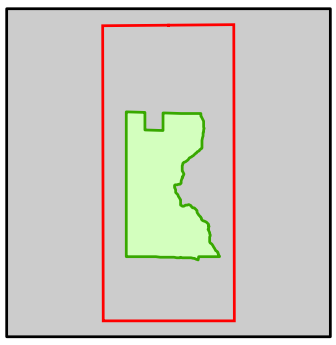

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PETREL
Star Creek
METSER GRADE
Prairie Creek
03
10
15
22
11
14
23
0
0.5
1
Miles
86°26'0"W
86°25'30"W
86°25'0"W
86°24'30"W
86°24'0"W
46°24'0"N
46°23'30"N
46°23'0"N
46°22'30"N
46°22'0"N

Special Conservation Areas

Compartment: 186
T46N,R17W, Sec: 10, 11, 14, 15
County: Alger
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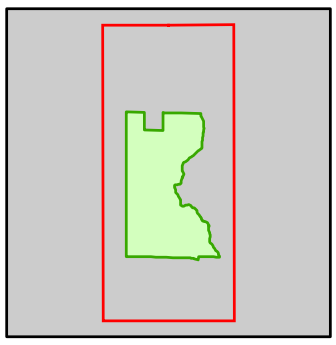

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- Intermittent Stream
- Lake/Pond
- Perennial River
- Lakes and Rivers
- Cabin
- Compartment Boundary
- Available w/ Constraints
- Unavailable
- 3J: Water quality / BMPs (stream, river, or lake)
- 5E: Long-Term Retention
- Stand Boundaries
- Ecological Reference Areas
- Cold Water Streams
- Cold Water Lakes
- Deer Winter Range

Report 1 – Total Acres by Cover Type and Age Class

Shingleton Mgt. Unit **Compartment 186 Year of Entry 2021**

Scott Kentner : Examiner

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	6	0	29	18	0	0	0	0	0	0	0	0	0	0	0	0	0	**53**
Cedar	0	0	0	0	0	0	0	0	0	3	0	16	217	8	0	0	0	15	**259**
Herbaceous Openland	12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**12**
Lowland Aspen/Balsam Poplar	0	0	0	57	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**57**
Lowland Conifers	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	23	**23**
Lowland Deciduous	0	0	13	0	105	0	0	6	0	0	0	0	0	0	0	0	0	13	**137**
Lowland Mixed Forest	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	**5**
Lowland Shrub	45	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**45**
Marsh	12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**12**
Mixed Upland Deciduous	0	0	0	0	32	0	0	0	0	0	0	0	0	0	0	0	0	0	**32**
Northern Hardwood	0	0	7	0	11	0	0	0	153	0	0	0	0	0	0	0	0	408	**578**
Water	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**3**
Total	**72**	**6**	**20**	**86**	**166**	**0**	**0**	**6**	**153**	**3**	**0**	**16**	**217**	**8**	**0**	**0**	**0**	**464**	**1216**

Report 2 – Treatment Summary

Shingleton Mgt. Unit

Year of Entry: 2021

Acres of Harvest

Compartment 186

Total Compartment Acres: 1,219

Commercial Harvest - 314

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
Cedar	13	0	0	0	0	0	0	0	0	**13**
Northern Hardwood	4	298	0	0	0	0	0	0	0	**302**
Total	**16**	**298**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**315**

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	315	0	0	0	0	0	31	0	5	**351**
Next Step	0	0	0	0	0	5	315	0	0	**320**
Total	**315**	**0**	**0**	**0**	**0**	**5**	**346**	**0**	**5**	**671**

Approved Treatments:

Stand	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
16	41186016-Cut	77.0	4119 - Mixed Northern Hardwoods	Sawtimber Well	92	111-140	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven-Aged	No

Prescription Specs: Single Tree Selection Harvest: Mark stand following the complete marker guidelines. Mark canopy gaps 50ft in diameter, numbering about 1 gap/ 2 acres. No cut hemlock. Winter cut only.

Next Step Treatments: Monitoring, Natural Regen (Re-Inventory)

Acceptable Regen: Any species currrently on site.

Other Comment:

Site Condition

Proposed Start Date: 10/1 /2020

Stand	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
16	41186016-Cut2	15.8	4119 - Mixed Northern Hardwoods	Sawtimber Well	92	111-140	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven-Aged	No

Prescription Specs: 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.

Next Step Treatments: Monitoring, Natural Regen (Re-Inventory)

Acceptable Regen: Any species currrently on site.

Other Comment:

Site Condition

Proposed Start Date: 10/1 /2019

Stand	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
17	41186017-Cut	12.5	6120 - Lowland Cedar	Sawtimber Well	117	141-170	Harvest	Clearcut	6120 - Lowland Cedar	Even-Aged	No

Prescription Specs: Strip Cut: Create 30-50 ft wide strips leaving 100ft of residual between the strips. Harvest all species within the strips. Size and shape of strips may vary. Can only be harvested in the winter.

Next Step Treatments: Monitoring, Natural Regen (Re-Inventory)

Acceptable Regen: Northern white cedar, Paper birch, Black spruce.

Other Comment:

Site Condition

Proposed Start Date: 10/1 /2020

Stand	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
18	41186018-Cut	3.9	4119 - Mixed Northern Hardwoods	Sawtimber Well	94	111-140	Harvest	Clearcut with Retention	4319 - Mixed Upland Forest	Even-Aged	No

Prescription Specs: Clearcut with Retention: Cut all merchantable tree species within stand leaving retention on the south end of the sand near small drainage. Winter cut only.

Next Step Treatments: Monitoring, Natural Regen (Re-Inventory)

Acceptable Regen: Any species.

Other Comment:

Site Condition

Proposed Start Date: 10/1 /2020

Stand	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
19	41186019-Cut	185.4	4110 - Sugar Maple Association	Sawtimber Well	93	111-140	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven-Aged	No

Prescription Specs: Single Tree Selection Harvest: Follow the complete Marker guild lines. Mark canopy gaps 50ft in diameter, numbering about 1 gap/ 2 acres.

Next Step Treatments: Monitoring, Natural Regen (Re-Inventory)

Acceptable Regen: Any species currently on site.

Other Comment:

Site Condition

Proposed Start Date: 10/1 /2020

Stand	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
56	41186019-Monitor	31.1	4110 - Sugar Maple Association	Sawtimber Well	92	81-110	Monitoring	Natural Regen (Intermediate)	411 - Northern Hardwood	Uneven-Aged	No

Prescription Specs: Preformed under the MSU research guidance.

Next Step Treatments:

Acceptable Regen: northern hardwood species

Other Comment: Percent to Treat = 100%

Site Condition

Proposed Start Date: 10/1 /2030

Stand	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
21	41186021-Cut	12.4	4112 - Maple, Beech, Cherry Association	Sawtimber Well	91	81-110	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven-Aged	No

Prescription Specs: Single Tree Selection Harvest:Mark following the complete marker guild lines. Mark canopy gaps 50ft in diameter, numbering about 1 gap/ 2 acres.
Place canopy gaps near lesser occurring species such as cherry.

Next Step Treatments: Monitoring, Natural Regen (Re-Inventory)

Acceptable Regen: Any species currently on site.

Other Comment:

Site Condition

Proposed Start Date: 10/1 /2020

Stand	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
36	41186036-Cut	2.4	4112 - Maple, Beech, Cherry Association	Sawtimber Well	89	111-140	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven-Aged	No

Prescription Specs: Single Tree Selection Harvest: Mark stand to a residual Basal area 65- 85. Mark canopy gaps 50ft in diameter, numbering about 1 gap/ 2 acres.

Next Step Treatments: Monitoring, Natural Regen (Re-Inventory)

Acceptable Regen: Any species currently on site.

Other Comment:

Site Condition

Proposed Start Date: 10/1 /2021

Stand	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
48	41186048-Cut	5.1	4112 - Maple, Beech, Cherry Association	Sawtimber Well	90	111-140	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven-Aged	No

Prescription Specs: Single Tree Selection Harvest: Mark stand to a residual Basal area 65- 85. Mark canopy gaps 50ft in diameter, numbering about 1 gap/ 2 acres.
Winter harvest only.

Next Step Treatments: Monitoring, Natural Regen (Re-Inventory)

Acceptable Regen: Any species currently on site.

Other Comment:

Site Condition

Proposed Start Date: 10/1 /2020

Stand	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
402	41186402-NF	2.9	31022 - Warm Season Grass	Nonstocked		Unspecified	NonForestMgt	Herbaceous/Crop /Grass Planting	31022 - Warm Season Grass		No

Prescription Specs: Brushing, Clearing, Farming, Burning, spraying

Next Step Treatments: Pesticide, Skidder - Site Prep

Acceptable Regen:

Other Comment:

Site Condition

Proposed Start Date: 10/1 /2020

Stand	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
403	41186403-NF	2.5	31022 - Warm Season Grass	Nonstocked		Unspecified	NonForestMgt	Herbaceous/Crop /Grass Planting	31022 - Warm Season Grass		No

Prescription Specs: farming.

Next Step Treatments: Pesticide, Other - Specify

Acceptable Regen:

Other Comment:

Site Condition

Proposed Start Date: 10/1 /2020

Total Treatment Acreage Proposed: 351

Report 4 – Site Conditions

Shingleton Mgt. Unit

Scott Kentner : Examiner

Compartment: 186

Year of Entry: 2021

Availability for Management

Total Acres	Acres Available	*Acres Avail With Condition*	Acres Not Available		Dominant Site Conditions 3J	5E
54	54	*0*	0	**Aspen**		
260	244	*0*	16	**Cedar**	16	
12	12	*0*	0	**Herbaceous Openland**		
57	57	*0*	0	**Lowland Aspen/Balsam Poplar**		
23	21	*0*	2	**Lowland Conifers**	2	
137	131	*0*	6	**Lowland Deciduous**	6	
5	5	*0*	0	**Lowland Mixed Forest**		
45	45	*0*	0	**Lowland Shrub**		
12	12	*0*	0	**Marsh**		
32	32	*0*	0	**Mixed Upland Deciduous**		
576	571	*0*	5	**Northern Hardwood**	1	4
3	3	*0*	0	**Water**		
1,218	1,188		29	Total Forested Acres	25	4
	98%		2%	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**	**3J: Water quality / BMPs (stream, river, or lake)**	1	Unspecified	Unspecified	Unspecified	Unspecified
	Comments:						
2	**Unavailable**	**5E: Long-Term Retention**	4	Unspecified	Unspecified	Unspecified	Unspecified
	Comments:						
3	**Available**	**Minor Change in Acreage**	19	Unspecified	Unspecified	Unspecified	Unspecified
	Comments:						

4	**Unavailable**	**3J: Water quality / BMPs (stream, river, or lake)**	7	Unspecified	Unspecified	Unspecified	Unspecified
	Comments:						
5	**Unavailable**	**3J: Water quality / BMPs (stream, river, or lake)**	12	Unspecified	Unspecified	Unspecified	Unspecified
	Comments:						
6	**Available**	**Minor Change in Acreage**	6	Unspecified	Unspecified	Unspecified	Unspecified
	Comments:						
7	**Unavailable**	**3J: Water quality / BMPs (stream, river, or lake)**	0	Unspecified	Unspecified	Unspecified	Unspecified
	Comments:						
8	**Unavailable**	**3J: Water quality / BMPs (stream, river, or lake)**	1	Unspecified	Unspecified	Unspecified	Unspecified
	Comments:						
9	**Unavailable**	**3J: Water quality / BMPs (stream, river, or lake)**	5	Unspecified	Unspecified	Unspecified	Unspecified
	Comments:						

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

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
1	4115 - Y.Birch, Hemlock NH	Sawtimber Well	152.6	72	51-80	N/A	10/27/11 Stand is now on proposal 39-11 C186 Contract Hardwoods Units 1-5 149 acres Residual BA = HM 69', elm 1', red maple 2', YB 1', bass 5', cherry 1' 80 total [12/4/12 RFT] Stand is now under contract 41-039-11-01 C186 Contract Hardwoods. TCR: 41-039-11, sale now closed (8/10/16) Regen is not coming in very well.

Canopy Species	% Cover	Size Class	DBH	Age
Hemlock	35	Log	12	
Black Cherry	10	Log	12	
Red Maple	40	Log	14	72
Basswood	15	Log	12	

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
2	4191 - Mixed Upland Deciduous with Conifer	Poletimber Well	20.6	39	81-110	N/A	A few scattered merchantable hardwoods, plus pockets of aspen and conifers. Mixed hardwood volume includes maple and cherry; other mixed volume includes aspen, spruce & fir.

Canopy Species	% Cover	Size Class	DBH	Age
Black Cherry	5	Pole/Sapling	5	
Quaking Aspen	30	Pole	6	39
Red Maple	25	Sapling	6	
White Spruce	15	Pole/Log	8	
Yellow Birch	5	Pole/Sapling	5	
Balsam Fir	15	Pole/Log	8	
Paper Birch	5	Pole/Sapling	5	

Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen	Medium	5 - 10 feet	Sapling
Balsam Fir	Medium	< 5 feet	Sapling

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
3	4130 - Aspen	Sapling Well	29.4	20	Immature	N/A	Merged with grass stand which is now converted to Aspen and Fir.

Canopy Species	% Cover	Size Class	DBH	Age
Quaking Aspen	90	Sapling	4	20
White Spruce	5	Pole	8	
Balsam Fir	5	Pole	8	

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
4	4134 - Aspen, Spruce/Fir	Poletimber Well	4.1	38	141-170	N/A	Young aspen over a mixed understory (varies between spruce/fir and northern hardwoods.)

Canopy Species	% Cover	Size Class	DBH	Age
Quaking Aspen	70	Pole/Sapling	5	38
Balsam Fir	10	Pole	8	
White Spruce	10	Log/Pole	10	
Red Maple	8	Pole/Sapling	5	
Ironwood	2	Sapling	4	

Sub-Canopy Species	Density	Avg. Height	Size
White Spruce	Low	< 5 feet	Sapling
Balsam Fir	Low	< 5 feet	Sapling
Quaking Aspen	Low	< 5 feet	Sapling
Red Maple	Low	< 5 feet	Sapling

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
5	4112 - Maple, Beech, Cherry Association	Poletimber Well	2.4	38	141-170	N/A	

Canopy Species	% Cover	Size Class	DBH	Age
Sugar Maple	20	Pole/Sapling	5	
Black Cherry	30	Pole/Sapling	5	
Red Maple	50	Pole/Sapling	5	38

Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	High	< 5 feet	Sapling

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
6	4130 - Aspen	Sapling Well	5.7	8	Immature	N/A	.10/31/11 bb Stand is now on proposal 14-11 Metser Mix, Unit 2, acres 5. 12/3/12 RFT Stand is now under contract 41-014-11-01 Metser Mix. TCR: 9/24/18

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	10	Sapling	2	
Quaking Aspen	75	Sapling	2	8
Black Cherry	15	Sapling	2	

7	4112 - Maple, Beech, Cherry Association	Poletimber Well	3.4	83	81-110	N/A	10/31/11 bb Stand is now on proposal 14-11 Metser Mix, Unit 1, acres 2. Residual BA HM 37', Bass 33', cherry 3 73 total 12/3/12 RFT Stand is now under contract 41-014-11-01 Metser Mix.

Canopy Species	% Cover	Size Class	DBH	Age
Black Cherry	10	Pole	8	
Sugar Maple	40	Pole/Log	9	83
Basswood	20	Log	10	
Red Maple	30	Log	9	

Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple	Medium	< 5 feet	Sapling
Beech	Medium	< 5 feet	Sapling
Black Cherry	Medium	< 5 feet	Sapling
Balsam Fir	Low	5 - 10 feet	Sapling

8	4134 - Aspen, Spruce/Fir	Poletimber Well	8.3	39	111-140	N/A	Young aspen - including a pocket that is less dense/slower growing.

Canopy Species	% Cover	Size Class	DBH	Age
Black Cherry	2	Pole	6	
Red Maple	8	Pole	6	
Quaking Aspen	50	Pole	6	39
Balsam Fir	40	Pole	6	

Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	Low	< 5 feet	Sapling
Quaking Aspen	Low	< 5 feet	Sapling

9	4112 - Maple, Beech, Cherry Association	Sawtimber Well	1.6	91	81-110	N/A	Mixed hardwood logs include basswood & red maple.

Canopy Species	% Cover	Size Class	DBH	Age
Sugar Maple	60	Log	10	91
Red Maple	30	Log	10	
Basswood	10	Log	10	

Sub-Canopy Species	Density	Avg. Height	Size
White Spruce	High	10 - 20 feet	Sapling
Sugar Maple	Medium	5 - 10 feet	Sapling

10	4112 - Maple, Beech, Cherry Association	Sawtimber Well	3.6	87	81-110	N/A	Mixed hardwood logs include basswood & red maple. good regen that is above browse height.

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	35	Pole/Log	9	
Basswood	5	Pole/Log	9	
Sugar Maple	60	Pole/Log	9	87

Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple	High	10 - 20 feet	Sapling

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
11	6118 - Lowland Deciduous with Cedar	Sapling Well	32.8	35	Immature	N/A	Mix of slow-growing cedar, black ash & red maple with a few spruce & fir scattered throughout on a wet site. The understory is dominated by 2" DBH lowland hardwood spp.(black ash - elm - red maple.) Mountain maple is also common. Year of origin reflects last cut in 1988, leaving the residual cedar etc.. The cedar is used for a site index species due to prevalence & age.[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 4 - 1/50 acre plots had adequate cedar regeneration to be considered fully-stocked. An overall average of more than 125 cedar saplings and more than 213 cedar seedlings per acre are present. In addition, the survey revealed an average of approximately 300 mixed conifer saplings/poles, 100 mixed conifer seedlings, 1488 mixed hardwood saplings and 38 mixed hardwood seedlings per acre. General comments from the survey indicate that the cedar is found in pockets, and that black ash regen is most prevalent throughout the stand.

Canopy Species	% Cover	Size Class	DBH	Age
Quaking Aspen	25	Sapling	3	
Northern White Cedar	20	Pole/Sapling	6	
Black Ash	30	Sapling	3	35
Red Maple	25	Sapling	3	35

Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	Low	< 5 feet	Sapling
Red Maple	High	< 5 feet	Sapling

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
12	4112 - Maple, Beech, Cherry Association	Sawtimber Well	3.1	87	81-110	N/A	Good retention, looks like it should be cut with the adjacent compartment to the west.

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	25	Log	10	
Basswood	10	Log	10	
Black Cherry	5	Pole	8	
Sugar Maple	60	Log	10	87

Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple	High	5 - 10 feet	Sapling

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
13	4115 - Y.Birch, Hemlock NH	Poletimber Well	12.6	67	51-80	N/A	Hardwoods on slightly rolling terrain, with variable composition and site indices.

Canopy Species	% Cover	Size Class	DBH	Age
Yellow Birch	15	Pole	6	
Black Spruce	5	Pole	6	
Hemlock	5	Log	10	
Black Cherry	10	Pole	6	
Northern White Cedar	5	Pole	6	
Black Ash	10	Pole	7	
Red Maple	50	Pole	7	67

Sub-Canopy Species	Density	Avg. Height	Size
Black Spruce	High	< 5 feet	Sapling
Red Maple	Medium	5 - 10 feet	Sapling
Balsam Fir	Low	5 - 10 feet	Sapling
Beech	Medium	5 - 10 feet	Sapling

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
14	4116 - Mixed N. Hardwood - Aspen	Sapling Well	6.8	10	Immature	N/A	10/31/11 bb Stand is now on proposal 14-11 Metser Mix, Unit 2, acres 812/3/12 RFT Stand is now under contract 41-014-11-01 Metser Mix.TCR 9/18.

Canopy Species	% Cover	Size Class	DBH	Age
Quaking Aspen	30	Sapling	2	
Black Cherry	30	Sapling	2	
Red Maple	40	Sapling	2	10

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
15	6139 - Mixed Lowland Forest	Poletimber Well	5.1	63	111-140	N/A	Creek running through the stand. Terrain is generally wet, and stocking is heavier on slightly elevated ridges etc. Mixed hardwood logs include yellow birch & black ash; a few large hemlock are also present.

Canopy Species	% Cover	Size Class	DBH	Age
Tamarack	50	Pole	5	63
Red Maple	5	Sapling/Pole	4	
Paper Birch	5	Pole/Sapling	5	
Black Ash	40	Sapling/Pole	4	

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

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
16	4119 - Mixed Northern Hardwoods	Sawtimber Well	103.5	92	111-140	N/A	Selection cut completed in 2005. Mixed sawlog volume includes Sugar and red maple, yellow birch & basswood; mixed hardwood pulp consists of y.birch & basswood. There are small inclusions of cedar that are less than 1 acre. There are also <2% Ash, elm, balck cherry.

Canopy Species	% Cover	Size Class	DBH	Age
Yellow Birch	5	Pole	8	
Sugar Maple	40	Log	12	92
Red Maple	30	Log	12	
Ironwood	5	Pole/Sapling	7	
Basswood	20	Log	12	

Sub-Canopy Species	Density	Avg. Height	Size
Yellow Birch	Medium	5 - 10 feet	Sapling
Red Maple	High	5 - 10 feet	Sapling
Sugar Maple	Full	5 - 10 feet	Sapling

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
17	6120 - Lowland Cedar	Sawtimber Well	210.4	117	141-170	N/A	

Canopy Species	% Cover	Size Class	DBH	Age
Northern White Cedar	85	Pole/Log	9	117
Black Spruce	5	Pole	9	
Paper Birch	10	Pole	8	

Sub-Canopy Species	Density	Avg. Height	Size
Black Spruce	Low	< 5 feet	Sapling

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
18	4119 - Mixed Northern Hardwoods	Sawtimber Well	4.8	94	111-140	N/A	Knob of upland habitat supporting northern hardwood/conifers mix. The understory is primarily maples and balsam fir.

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	40	Log	10	94
Sugar Maple	30	Log	10	
Black Spruce	10	Pole/Log	8	
Balsam Fir	10	Pole/Log	8	
Yellow Birch	10	Log	10	

Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple	Medium	< 5 feet	Sapling
Balsam Fir	High	< 5 feet	Sapling

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
19	4110 - Sugar Maple Association	Sawtimber Well	188.5	93	111-140	N/A	Last selection cut - TCR dtd 7-16-02 TS #019-97. The understory is dense sugar maple regeneration. Maybe scattered Yellow birch, ironwood, Black cherry but < 2%.

Canopy Species	% Cover	Size Class	DBH	Age
Sugar Maple	70	Log	12	93
Basswood	10	Log	12	
Red Maple	20	Log	12	

Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple	Full	5 - 10 feet	Sapling
Red Maple	Medium	5 - 10 feet	Sapling

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
20	6124 - Lowland Spruce-Fir	Poletimber Well	7.8	46	141-170	N/A	Wet ground. Mixed hardwood include yellow birches, red maple and sparse black ash. In places the operability is questionable.

Canopy Species	% Cover	Size Class	DBH	Age
Black Spruce	25	Pole	8	
Northern White Cedar	5	Pole	8	
Red Maple	30	Pole/Sapling	5	46
Hemlock	5	XLog/Log	18	
Yellow Birch	10	Pole	7	
Balsam Fir	25	Pole	8	

Sub-Canopy Species	Density	Avg. Height	Size
Black Spruce	Low	< 5 feet	Sapling
Balsam Fir	Low	< 5 feet	Sapling

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
21	4112 - Maple, Beech, Cherry Association	Sawtimber Well	11.8	91	81-110	N/A	Last cut under TS #37-01 TCR dtd 9-08-02.

Canopy Species	% Cover	Size Class	DBH	Age
Yellow Birch	10	Log	10	
Red Maple	20	Log	10	91
Black Cherry	10	Log	10	
Sugar Maple	60	Log	10	91

Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple	Full	10 - 20 feet	Sapling
Red Maple	Full	10 - 20 feet	Sapling
Black Cherry	Full	10 - 20 feet	Sapling

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
22	6113 - Lowland Maple	Sapling Medium	9.8	19	Immature	N/A	[01/08/05] RFT Sale closed TCR dtd 12/14/04. Burned 08/05/04 for cedar regeneration under FTP # W41-1158 - still needs to be seeded. (3/15/2005) AP: Area was seeded using a snowmobile with electric spreader. Seed was mixed with oatmeal to provide a larger volume to work with. It took approximately 2 hours to accomplish. Electric Spreader was set on opening number 5, full speed, with tracks spaced 4-8 feet apart. [3/22/07 jb] 8.5lbs of cedar seed were spread for all the connecting areas that have been cut in the last couple years. Seed collected in 2006. [6/09] Examined via standard ops inventory - no conifer regen evident yet, but it would still be very small - schedule regen survey. At present a mix of red maple, paper birch & a few aspen sprouts are occupying the site. 1/11/12 KS, Don Brown and I walked this stand and noted that a portion of the stand is upland and the previous stand must have been a Q, or incorrectly typed as a C, it's fully stocked with species other than cedar and we should just let it continue as is. There were a few cedar stumps but the parent stand was quite diverse it seems.

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	60	Sapling	2	19
Quaking Aspen	20	Sapling	2	
Paper Birch	20	Sapling	2	

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
23	4112 - Maple, Beech, Cherry Association	Sawtimber Well	14.6	88	51-80	N/A	Select cut under TS #37-01 TCR dtd 9-08-02. Great regen growing in canopy gaps. Ba is closer to 60 than 80.

Canopy Species	% Cover	Size Class	DBH	Age
Sugar Maple	50	Log	10	88
Yellow Birch	10	Pole	7	
Black Cherry	10	Pole	7	
Red Maple	30	Log	10	

Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	Full	10 - 20 feet	Sapling
Black Cherry	Full	10 - 20 feet	Sapling
Sugar Maple	Full	10 - 20 feet	Sapling
Yellow Birch	Full	10 - 20 feet	Sapling

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
24	6117 - Lowland Deciduous, Mixed Coniferous	Poletimber Well	13.2	29	51-80	N/A	Wet ground - In places the operability is questionable. Composition, density and site indices all vary significantly with slight changes in elevation. A few cedar are also present; mixed hardwood pulp.

Canopy Species	% Cover	Size Class	DBH	Age
Northern White Cedar	5	Pole	6	
Red Maple	20	Pole	6	
Hemlock	5	Log	10	
Black Spruce	10	Pole	8	
Black Ash	40	Pole	6	29
Paper Birch	10	Log	10	
Yellow Birch	10	Pole	5	

Sub-Canopy Species	Density	Avg. Height	Size
Black Spruce	Medium	< 5 feet	Sapling
Balsam Fir	Medium	< 5 feet	Sapling

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
25	6120 - Lowland Cedar	Sawtimber Well	7.0	116	141-170	N/A	

Canopy Species	% Cover	Size Class	DBH	Age
Northern White Cedar	80	Log	10	116
Paper Birch	20	Log	10	

Sub-Canopy Species	Density	Avg. Height	Size
Black Spruce	Low	< 5 feet	Sapling
Balsam Fir	Low	< 5 feet	Sapling

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
26	500 - Water	Nonstocked	3.4		Unspecified	No	water

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
27	6117 - Lowland Deciduous, Mixed Coniferous	Sapling Well	8.7	33	Immature	N/A	Lowland swale complex. Mixed hardwood includes red maple, yellow birch, Black cherry, sparse ash and elm, mixed softwood consists of spruce & fir. Site indices vary with slight changes in elevation, but are generally low.

Canopy Species	% Cover	Size Class	DBH	Age
Black Spruce	10	Sapling	4	
Red Maple	30	Pole/Sapling	5	33
Balsam Fir	20	Sapling	4	
Black Cherry	20	Pole/Sapling	5	

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

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
28	6115 - Lowland Ash	Poletimber Well	29.2	37	51-80	N/A	Backflooding near the edges of the adjacent lowland brush is causing some mortality, and windthrow is not uncommon.

Canopy Species	% Cover	Size Class	DBH	Age
Black Spruce	15	Pole	8	
Black Ash	60	Pole/Sapling	5	37
Northern White Cedar	10	Pole	8	115
Red Maple	15	Pole	5	

Sub-Canopy Species	Density	Avg. Height	Size
Black Spruce	Medium	< 5 feet	Sapling
Black Ash	Medium	< 5 feet	Sapling

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
29	6112 - Lowland Aspen	Sapling Well	57.4	21	Immature	N/A	Stand was cut in stages between winters of 1998/99 and 2001/02. 2008 regen survey: Understory = 857 t/a. balsam fir, 678t/a black spruce, 179 t/a cedar, 2t/a hemlock Overstory is a mix of black ash, elm, red maple and lowland brush on the wetter spots, with a few aspen, beech & cherry also apprearing where the ground is slightly higher & dryer. Site index is a rough estimate only. The hardwoods are dominant at this time, but cedar/spruce/fir are expected to take over eventually. Scattered residual hemlock are also present. [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: 2 out of 4 - 1/50 acre plots had adequate cedar regeneration to be considered fully-stocked. An overall average of 475 cedar seedlings and 63 cedar saplings per acre are present. In addition, the survey revealed an average of approximately 331 mixed conifer saplings, 319 mixed conifer seedlings, more than 2163 mixed hardwood saplings and 88 aspen saplings per acre. General comments from the survey indicate that the cedar is found in pockets, and that black ash is dominant (at least 85% of the mixed hardwood regen) throughout the stand.

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	10	Sapling	3	
Black Ash	30	Sapling	3	
Quaking Aspen	60	Sapling	3	21

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
30	4130 - Aspen	Poletimber Well	3.2	37	Immature	N/A	Young aspen - some stems reaching merchantable size.

Canopy Species	% Cover	Size Class	DBH	Age
Quaking Aspen	70	Pole	5	37
Red Maple	10	Pole	5	
Yellow Birch	20	Pole	5	

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
31	6117 - Lowland Deciduous, Mixed Coniferous	Poletimber Well	6.1	61	51-80	N/A	Wet ground - In places the operability may be questionable. Composition, density and site indices all vary significantly with slight changes in elevation.

Canopy Species	% Cover	Size Class	DBH	Age
Paper Birch	40	Pole	5	61
Northern White Cedar	5	Pole	7	
Balsam Fir	15	Pole	6	
Red Maple	20	Pole	5	
Black Spruce	20	Pole/Sapling	6	

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

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
32	6229 - Mixed lowland shrub	Nonstocked	32.0		Unspecified	No	Mostly dead timber due to seasonal backflooding.

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
33	6120 - Lowland Cedar	Sawtimber Well	7.6	129	111-140	N/A	

Canopy Species	% Cover	Size Class	DBH	Age
Black Spruce	10	Log	10	
Northern White Cedar	90	Log	10	129

Sub-Canopy Species	Density	Avg. Height	Size
Black Spruce	Low	< 5 feet	Sapling

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
34	6120 - Lowland Cedar	Sawtimber Poor	2.6	87	1-50	N/A	10/27/11, 39-11 C186 Contract Hardwoods Units 6, 2 acres Residual BA = cedar 30' and hemlock 3' [12/4/12 RFT] Stand is now under contract 41-039-11-01 C186 Contract Hardwoods. TCR: 41-039-11, sale now closed (8/10/16)

Canopy Species	% Cover	Size Class	DBH	Age
Northern White Cedar	80	Log	12	87
Hemlock	20	Log	14	

Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	High	< 5 feet	Sapling

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
35	4115 - Y.Birch, Hemlock NH	Sapling Well	8.1	33	Immature	N/A	Hardwood regeneration including maples and scattered conifers on an upland site. Mixed pulpwood includes a few spruce, fir, paper birch, etc.

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	65	Sapling	4	33
Paper Birch	10	Sapling	4	
Yellow Birch	25	Sapling	4	33

Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	Low	< 5 feet	Sapling
Red Maple	Low	< 5 feet	Sapling
Paper Birch	Low	< 5 feet	Sapling
Yellow Birch	Low	< 5 feet	Sapling

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
36	4112 - Maple, Beech, Cherry Association	Sawtimber Well	3.5	89	111-140	N/A	Last thinned in 2002.

Canopy Species	% Cover	Size Class	DBH	Age
Yellow Birch	20	Pole	8	
Red Maple	30	Log	12	89
Sugar Maple	50	Log	12	89

Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	High	< 5 feet	Sapling
Sugar Maple	Medium	< 5 feet	Sapling

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
37	4115 - Y.Birch, Hemlock NH	Sawtimber Well	3.0	83	81-110	N/A	Thinned around 20 years ago.

Canopy Species	% Cover	Size Class	DBH	Age
Yellow Birch	30	Pole/Log	9	83
Red Maple	40	Log/Pole	9	83
Sugar Maple	30	Pole/Log	9	

Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple	High	10 - 20 feet	Sapling
Red Maple	High	10 - 20 feet	Sapling

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
38	4115 - Y.Birch, Hemlock NH	Poletimber Well	3.0	73	81-110	N/A	Last thinned in 2002. Growing on berm between road and cedar stand.

Canopy Species	% Cover	Size Class	DBH	Age
Hemlock	5	XLog	18	
Red Maple	50	Pole	9	73
Yellow Birch	20	Pole	9	
Paper Birch	20	Pole	9	
Northern White Cedar	5	Log	10	

Sub-Canopy Species	Density	Avg. Height	Size
Yellow Birch	Low	5 - 10 feet	Sapling
Black Ash	Medium	< 5 feet	Sapling
Paper Birch	Medium	< 5 feet	Sapling
Red Maple	Medium	< 5 feet	Sapling

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
39	6119 - Mixed Lowland Deciduous Forest	Sapling Well	4.3	31	Immature	N/A	

Canopy Species	% Cover	Size Class	DBH	Age
Paper Birch	40	Sapling	3	31
Red Maple	20	Sapling	3	
Black Cherry	40	Sapling	3	

Sub-Canopy Species	Density	Avg. Height	Size
Tag Alder	Full	5 - 10 feet	Tall Shrub

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
40	6120 - Lowland Cedar	Poletimber Well	15.2	101	81-110	N/A	Creek flowing through stand.

Canopy Species	% Cover	Size Class	DBH	Age
Northern White Cedar	100	Pole	8	101

Sub-Canopy Species	Density	Avg. Height	Size
Black Ash	High	10 - 20 feet	Sapling
Red Maple	High	10 - 20 feet	Sapling
Yellow Birch	Low	10 - 20 feet	Sapling
Paper Birch	Low	10 - 20 feet	Sapling

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
41	6120 - Lowland Cedar	Poletimber Well	15.4	103	111-140	N/A	OPIC - FMD: SCA - Deeryard 2-storied stand - strips cut in 1991. Stocking in uncut strips runs 60-100 sq.ft./acre. Regen is a mix of lowland conifer & hardwood species. [3/13/13] WLD conducted a regen survey in this stand in October 2012 to determine if sufficient cedar regen is present in the strips that were cut. 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 - 1/50 acre plots had adequate cedar regeneration to be considered fully-stocked. An overall average of more than 367 cedar saplings/poles and 167 cedar seedlings per acre are present. In addition, the survey revealed an average of approximately 450 mixed conifer saplings/poles, 167 mixed conifer seedlings, 483 mixed hardwood saplings/poles and 350 mixed hardwood seedlings per acre. General comments from the survey indicate that the cedar regen is found in pockets.

Canopy Species	% Cover	Size Class	DBH	Age
Northern White Cedar	80	Pole/Log	9	103
Red Maple	5	Pole	6	
Paper Birch	5	Pole	6	
Yellow Birch	10	Pole	6	32

Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	High	5 - 10 feet	Sapling

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
42	6119 - Mixed Lowland Deciduous Forest	Sapling Well	6.7	31	Immature	N/A	

Canopy Species	% Cover	Size Class	DBH	Age
Paper Birch	20	Sapling	3	31
Black Ash	30	Sapling	3	31
Red Maple	30	Sapling	3	
Yellow Birch	20	Sapling	3	

Sub-Canopy Species	Density	Avg. Height	Size
Tag Alder	Full	5 - 10 feet	Tall Shrub

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
43	6128 - Lowland Coniferous, Mixed Deciduous	Sawtimber Well	15.3	89	141-170	N/A	

Canopy Species	% Cover	Size Class	DBH	Age
Paper Birch	5	Pole	5	
Hemlock	10	XLog	18	
Northern White Cedar	40	Pole	7	89
Black Spruce	20	Pole	6	
White Pine	5	XLog	18	
Red Maple	20	Pole	5	

Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	High	< 5 feet	Sapling

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
44	4112 - Maple, Beech, Cherry Association	Poletimber Well	1.8	88	81-110	N/A	Thinned in 2002. Mixed hardwood pulp includes red maple & yellow birch; hemlock are also scattered throughout the stand, but sparse.

Canopy Species	% Cover	Size Class	DBH	Age
Yellow Birch	5	Pole/Log	9	
Black Cherry	10	Pole/Log	9	
Sugar Maple	25	Pole/Log	9	
Red Maple	60	Pole/Log	9	88

Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	Medium	< 5 feet	Sapling
Red Maple	Medium	< 5 feet	Sapling

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
45	4199 - Other Mixed Upland Deciduous	Sapling Well	11.8	31	Immature	N/A	Residual stems (scattered poles and sawlogs) of white pine, hemlock, spruce, yellow birch and red maple from previous overstory removal. Some aspen regen, but mainly maples & birches.

Canopy Species	% Cover	Size Class	DBH	Age
Paper Birch	20	Sapling/Pole	4	
Quaking Aspen	10	Sapling/Pole	4	
White Pine	5	Pole/Log	8	
Yellow Birch	5	Pole/Sapling	5	
Black Spruce	5	Pole	7	
Red Maple	50	Sapling/Pole	4	31
Hemlock	5	Log	12	

Sub-Canopy Species	Density	Avg. Height	Size
Yellow Birch	Low	< 5 feet	Sapling
Quaking Aspen	Low	< 5 feet	Sapling
Balsam Fir	Low	< 5 feet	Sapling
Red Maple	Medium	< 5 feet	Sapling

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
46	6117 - Lowland Deciduous, Mixed Coniferous	Poletimber Well	23.5	31	Immature	N/A	Mix of hardwood regeneration 1-3" DBH on slightly rolling but generally wet terrain. Site indices and species composition appear to be highly variable. Scattered conifers and lowland brush are also present.

Canopy Species	% Cover	Size Class	DBH	Age
White Pine	5	Log	16	
Red Maple	30	Pole	7	
Black Spruce	15	Pole	6	
Yellow Birch	30	Pole	7	31

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

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
47	4115 - Y.Birch, Hemlock NH	Poletimber Well	4.1	42	111-140	N/A	Unevenaged characteristics are becoming evident as a second generation of fir, spruce & red maple develops. The cedar & hemlock appear to have originated in the 1890's. At present this stand's best feature is it's value as wildlife habitat.

Canopy Species	% Cover	Size Class	DBH	Age
Yellow Birch	10	Pole/Sapling	5	42
Red Maple	55	Pole/Sapling	5	42
Hemlock	15	Log	14	133
White Spruce	20	Pole/Log	9	

Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	High	< 5 feet	Sapling
Hemlock	Low	< 5 feet	Sapling
White Spruce	Medium	< 5 feet	Sapling

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
48	4112 - Maple, Beech, Cherry Association	Sawtimber Well	6.9	90	111-140	N/A	Mixed hardwood logs include black cherry, paper & yellow birches, and sugar maple.

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	35	Log/Pole	10	
Basswood	10	Log	10	
Sugar Maple	50	Log	10	90
Black Cherry	5	Log	10	

Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	High	< 5 feet	Sapling

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
49	4115 - Y.Birch, Hemlock NH	Sapling Well	6.4	33	81-110	N/A	Clumps of mature cedar and spruce, not enough merchantable material for harvest.

Canopy Species	% Cover	Size Class	DBH	Age
Paper Birch	10	Pole/Sapling	5	
Black Cherry	10	Pole/Sapling	5	
Yellow Birch	40	Sapling	4	33
Black Spruce	5	Pole	7	
Northern White Cedar	5	Pole	7	
Red Maple	30	Sapling	4	33

Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	Medium	< 5 feet	Sapling
Black Spruce	Medium	< 5 feet	Sapling
Black Ash	Medium	< 5 feet	Sapling

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
50	6120 - Lowland Cedar	Poletimber Well	1.2	101	81-110	N/A	

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	20	Log	10	
Yellow Birch	20	Log	10	
Northern White Cedar	60	Pole	7	101

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

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
51	6229 - Mixed lowland shrub	Nonstocked	1.7		Unspecified	No	Dead cedar etc. in a flooded area. Tag alder growing.
53	6229 - Mixed lowland shrub	Nonstocked	8.0	0	Unspecified	No	Was a cedar stand, but was flooded due to beaver activity. All cedar is now dead.
54	4130 - Aspen	Sapling Well	2.7	33	Immature	N/A	

Canopy Species	% Cover	Size Class	DBH	Age
Blue Ash	25	Sapling	3	
Paper Birch	15	Sapling	3	
Quaking Aspen	60	Pole/Sapling	5	33

Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	Medium	< 5 feet	Sapling

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
55	6239 - Mixed Emergent Wetland	Nonstocked	12.1		Unspecified	No	Seasonally flooded marsh/lowland brush/pond complex
56	4110 - Sugar Maple Association	Sawtimber Well	31.7	92	81-110	N/A	Pete's petrel Maple MWR sale TS: 41-15-17-01 TCR: 8/28/2018

Canopy Species	% Cover	Size Class	DBH	Age
Basswood	10	Log	12	
Red Maple	10	Log	12	
Sugar Maple	80	Log	12	92

Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple	High	< 5 feet	Sapling

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
57	6113 - Lowland Maple	Sapling Well	3.1	10	Immature	N/A	10/31/11 bb Stand is now on proposal 14-11 Metser Mix, Unit 2, acres 8 12/3/12 RFT Stand is now under contract 41-014-11-01 Metser Mix. TCR 9/18.

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	60	Sapling	3	10
Black Ash	15	Sapling	3	
Yellow Birch	15	Sapling	3	
Northern White Cedar	10	Pole	8	

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
58	6229 - Mixed lowland shrub	Nonstocked	3.1	0	Unspecified	No	Area of stand was flooded and all trees died due to water.
402	31022 - Warm Season Grass	Nonstocked	2.9		Unspecified	Managed Opening	[7/6/11 JB] FTP# W41-1506 is available for opening enhancement for this stand.
403	31022 - Warm Season Grass	Nonstocked	2.5		Unspecified	Managed Opening	Part of the Camp 3 open area - some trees are encroaching.
404	31022 - Warm Season Grass	Nonstocked	7.0		Unspecified	No	Road opening, including a small gravel pit. Trees are encroaching throughout much of it. Very wet durning fall and spring seasons.