Compartment Review Presentation

Shingleton Forest Management Unit

Compartment 41173
Entry Year 2025
Acreage: 1,328
County Alger
Management Area: Grand Marais Moraine Complex

Stand Examiner: Kyle Gould

Legal Description:

T47N R17W Sections 4,5,8 and 9

Identified Planning Goals:

The area features high-quality northern hardwood timber that is intensively managed.

Soil and topography:

Most of this compartment consists of gently rolling, hilly terrain featuring rich, loamy soils. The lowland areas interspersed throughout form the headwaters of the Mosquito River plus Chapel and Section 34 Creeks.

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

Pictured Rocks National Lakeshore lies adjacent to the north, and this compartment lies within the Pictured Rocks Inland Buffer SCA. There are no privately-owned lands within the compartment, but due to the proximity of the PRNL there is heavy seasonal traffic along County Rd. 639 and the Chapel Rd.

Unique Natural Features:

No Unique Natural Features known.

Archeological, Historical, and Cultural Features:

There are no known archeological features features within this compartment. Any historical and/or cultural values would be related to its proximity with the PRNL.

Special Management Designations or Considerations:

The compartment is located within the Pictured Rocks Inland Buffer SCA. All 3 waterways (Mosquito River, Chapel Creek, Section 34 Creek) associated with this compartment are designated trout streams associated with the Lake Superior watershed.

Watershed and Fisheries Considerations:

COMPARTMENT 173
ELSMU-Cory Kovacs
This compartment is located in the Pictured Rocks National Lakeshore and contains tributaries to Chapel Creek and Section 34 Creek, both coldwater designated Type 1 trout streams less than 50-ft wide and have predicted mean July temperatures ranging 57.6 to 59.5°F (cold streams). Both contain native brook trout. Aspen regeneration is not expected in the treatment areas, but upholding the integrity of these streams is important for the native brook trout populations. For areas not susceptible to aspen regeneration, a minimum of 100-ft, plus 5 ft per 1% increase in slope, buffer is recommended to protect these areas in accordance with Best Management Practices.

Wildlife Habitat Considerations:

Both Chapel Creek and Section 34 Creek are designated trout waters. The several existing beaver ponds on Chapel Creek could either block all spawning and so hurt the trout, or if there is still spawning habitat available, the ponds could produce much larger trout than the stream itself. However, Chapel Creek has not been surveyed in a very long time, so we do not know the extent or health of the trout population. Section 34 Creek is of such good quality that in the mid-1980s Fisheries Division cleared the stream with rotenone and stocked Grayling. This was one of only two streams in the state where we tried to bring back the Grayling. Few were ever seen after planting, and the effort was soon discontinued. The creek today still remains a very good quality trout water.

Mineral Resource and Development Concerns and/or Restrictions

Surface sediments consist of end moraine of medium-textured glacial till. There is insufficient data to determine the glacial drift thickness. The Ordovician Prairie du Chien (PdC) and the Cambrian Trempealeau Formation subcrop below the glacial drift. The PdC and Trempealeau could be used for stone. The nearest gravel pit is one mile to the south and there should be potential in the compartment. There is no commercial oil and gas production in the UP.

Vehicle Access:

Access is good from County Road 639, the Chapel Road, and Section 34 Creek Road.

Survey Needs:

None at this time.

Recreational Facilities and Opportunities:

There are no developed recreational facilities or trails in this compartment, but Pictured Rocks National Lakeshore is a well-known tourist destination. The area is also popular for hunting and snowmobiling.

Fire Protection:

Access to this compartment is excellent via the Chapel Lake Road and the existing woods roads. The area is dominated by northern hardwoods, which are generally regarded as a low-risk fuel type. The conifer stands and other lowland types may be at risk under prolonged drought conditions.

Additional Compartment Information:

Due to its proximity to the shores of Lake Superior, this area generally experiences severe winters.

The following reports from the Inventory are attached:

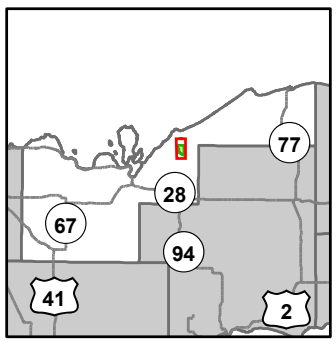
- **Total Acres by Cover Type and Age Class**
- **Cover Type by Harvest Method**
- **Proposed Treatments – No Limiting Factors**
- **Proposed Treatments – With Limiting Factors**
- **Stand Details (Forested and Nonforested)**
- **Dedicated and Proposed Special Conservation Areas**
- **Site Condition 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: 173
T47N,R17W, Sec: 4, 5, 8, 9
County: Alger
Unit: Shingleton
Mgmt Area: Grand Marais Moraine Complex
YOE: 2025
Acres: 1327.5 GIS Calculated
Examiner: Kyle Gould
Map Revised: 8/15/2023
Map Phase: Review



N

- Miris Corners
- Remonumented Section Corners
- Survey Grade Corners
- Counties
- DNR - Forest Access Route
- Federal / State / County - Paved Road
- County - Gravel Road
- Private - Dirt / Gravel Road
- Hiking Trails
- Intermittent Stream
- Lake/Pond
- Perennial River
- Lakes and Rivers
- Compartment Boundary
- Selection (Group, Single Tree)
- Regeneration Survey
- 411 - Northern Hardwood
- 413 - Aspen
- 430 - Upland Mixed Forest
- 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: 173
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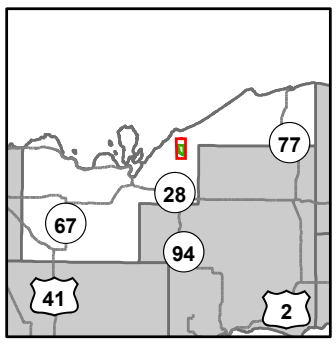

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Special Conservation Areas

Compartment: 173
T47N,R17W, Sec: 4, 5, 8, 9
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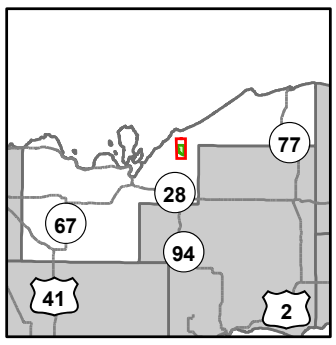

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- Hiking Trails
- Intermittent Stream
- Lake/Pond
- Perennial River
- Lakes and Rivers
- Compartment Boundary
- Available w/ Constraints
  - 5C: Delay treatment for age/size class diversity or exceptional site quality
- Unavailable
  - 3J: Water quality / BMPs (stream, river, or lake)
- Stand Boundaries
- SCA
- Cold Water Streams
- Cold Water Lakes
- High Priority Trout Stream Buffer
- Recreational/Scenic Value Area

Report 1 – Total Acres by Cover Type and Age Class

Shingleton Mgt. Unit **Compartment 173 Year of Entry 2025**

Kyle Gould : 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	0	0	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0	**4**
Cedar	0	0	0	0	2	0	0	0	0	0	0	3	0	0	0	0	0	0	**5**
Hemlock	0	0	0	0	0	0	0	6	0	0	0	0	0	0	0	0	0	0	**6**
Herbaceous Openland	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**1**
Lowland Aspen/Balsam Poplar	0	0	0	0	11	0	0	0	0	0	0	0	0	0	0	0	0	0	**11**
Lowland Conifers	0	0	0	0	24	7	0	0	0	0	44	0	0	0	0	0	0	23	**98**
Lowland Deciduous	0	0	11	0	3	0	0	0	0	0	2	13	0	0	0	0	0	0	**29**
Lowland Mixed Forest	0	0	0	0	0	26	0	0	0	0	10	27	0	0	0	0	0	0	**62**
Lowland Shrub	45	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**45**
Marsh	14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**14**
Northern Hardwood	0	0	0	4	0	0	0	3	0	0	37	0	0	0	0	0	0	974	**1017**
Water	36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**36**
Total	**96**	**0**	**11**	**4**	**45**	**33**	**0**	**9**	**0**	**0**	**93**	**43**	**0**	**0**	**0**	**0**	**0**	**997**	**1328**

Report 2 – Treatment Summary

Shingleton Mgt. Unit

Year of Entry: 2025

Acres of Harvest

Compartment 173

Total Compartment Acres: 1,328

Commercial Harvest - 619

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
Northern Hardwood	0	619	0	0	0	0	0	0	0	**619**
Total	**0**	**619**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**619**

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	619	0	0	0	0	0	62	0	0	**681**
Next Step	0	0	0	0	0	0	619	0	0	**619**
Total	**619**	**0**	**0**	**0**	**0**	**0**	**681**	**0**	**0**	**1300**

Proposed Treatments:

Stand	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
22	41173022-Cut	90.2	4110 - Sugar Maple Association	Sawtimber Well	103	111-140	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven-Aged	No

Prescription Specs: Mark stand to an average of 80BA following complete marker standards. Cut all merchantable balsam fir.

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

Acceptable Regen: Any species currently found on site

Other Comment:

Site Condition

Proposed Start Date: 10/1 /2024

Stand	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
32	41173032-Cut	2.1	4112 - Maple, Beech, Cherry Association	Poletimber Well	99	81-110	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven-Aged	No

Prescription Specs: Mark stand to an average of 80BA following complete marker standards. Cut all merchantable balsam fir.

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

Acceptable Regen: Any species currently on site.

Other Comment: Keep stand boundary on summer ground.

Site Condition

Proposed Start Date: 10/1 /2024

Stand	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
37	41173037-Cut	526.4	4110 - Sugar Maple Association	Sawtimber Well	103	111-140	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven-Aged	No

Prescription Specs: Mark stand to an average of 80BA following complete marker standards. Cut all merchantable balsam fir.

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

Acceptable Regen: Any species currently found on site.

Other Comment: Keep stand boundary on summer ground.

Site Condition

Proposed Start Date: 10/1 /2024

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
9	41173009-Monitor	16.9	6229 - Mixed lowland shrub	Nonstocked	0	Unspecified	Monitoring	Natural Regen (Re-Inventory)	6117 - Lowland Deciduous, Mixed Coniferous	Even-Aged	No

Prescription Specs: check

Next Step Treatments:

Acceptable Regen: A similar mix to what is currently present is acceptable. Beech and ash are not desirable due to pest concerns but are likely to regenerate along with the other species, and it is not practical to plan any strategy to eliminate them.

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

Other Comment: Percent to Treat = 100%

Site Condition

Proposed Start Date: 10/1 /2032

10	**41173010-Monitor**	19.5	4110 - Sugar Maple Association	Poletimber Medium	99	51-80	Monitoring	Natural Regen (Re-Inventory)	4110 - Sugar Maple Association	Two-Aged	No

Prescription Specs: check

Next Step Treatments:

Acceptable Regen: Sugar maple is expected; other species as shown in stand data are acceptable except for beech.

Other Comment: Percent to Treat = 100%

Site Condition

Proposed Start Date: 10/1 /2032

19	**41173019-Monitor**	9.7	4110 - Sugar Maple Association	Sawtimber Well	99	51-80	Monitoring	Natural Regen (Re-Inventory)	4110 - Sugar Maple Association	Uneven-Aged	No

Prescription Specs: check

Next Step Treatments:

Acceptable Regen: Sugar maple and other northern hardwoods.

Other Comment: Percent to Treat = 100%

Site Condition

Proposed Start Date: 10/1 /2032

40	**41173040-Monitor**	16.2	6229 - Mixed lowland shrub	Nonstocked	0	Unspecified	Monitoring	Natural Regen (Re-Inventory)	6139 - Mixed Lowland Forest	Even-Aged	No

Prescription Specs: check

Next Step Treatments:

Acceptable Regen: A similar mix to that which is currently present is expected. Ash is not desirable due to pest concerns but due to potential BMP issues, eliminating it from the next stand is probably impractical at this time.

Other Comment: Percent to Treat = 100%

Site Condition

Proposed Start Date: 10/1 /2032

Total Treatment Acreage Proposed: 681

Report 4 – Site Conditions

Shingleton Mgt. Unit

Kyle Gould : Examiner

Compartment: 173

Year of Entry: 2025

Availability for Management

Total Acres	Acres Available	*Acres Avail With Condition*	Acres Not Available		Dominant Site Conditions *5C*	5F	3J
4	4	***0***	0	**Aspen**			
5	5	***0***	0	**Cedar**			
6	6	***0***	0	**Hemlock**			
1	1	***0***	0	**Herbaceous Openland**			
11	11	***0***	0	**Lowland Aspen/Balsam Poplar**			
98	66	***0***	32	**Lowland Conifers**			32
29	29	***0***	0	**Lowland Deciduous**			
63	17	***46***	0	**Lowland Mixed Forest**		46	
45	43	***1***	0	**Lowland Shrub**		1	
14	14	***0***	0	**Marsh**			0
1016	663	***354***	0	**Northern Hardwood**	***352***	2	0
36	36	***0***	0	**Water**			0
1,328	895	***401***	32	Total Forested Acres	***352***	49	32
	67%	***30%***	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	**Available**	**5F: Evaluated for Forest Health Considerations**	27	Unspecified	Unspecified	Unspecified	Unspecified
	Comments:						
2	**Unavailable**	**3J: Water quality / BMPs (stream, river, or lake)**	32	3L: Other wildlife concerns	Unspecified	Unspecified	Unspecified
	Comments:						

3	**Available**	**5F: Evaluated for Forest Health Considerations**	14	Unspecified	Unspecified	Unspecified	Unspecified
	Comments:						
4	**Available**	**5F: Evaluated for Forest Health Considerations**	0	Unspecified	Unspecified	Unspecified	Unspecified
	Comments:						
5	**Available**	**5F: Evaluated for Forest Health Considerations**	8	Unspecified	Unspecified	Unspecified	Unspecified
	Comments:						
6	**Available**	**5F: Evaluated for Forest Health Considerations**	1	Unspecified	Unspecified	Unspecified	Unspecified
	Comments:						
7	**Available**	**5C: Delay treatment for age/size class diversity or exceptional site quality**	3	Unspecified	Unspecified	Unspecified	Unspecified
	Comments: Look at adjacent stand in adjacent compartment when deciding to prescribe.						
8	**Available**	**5C: Delay treatment for age/size class diversity or exceptional site quality**	142	Unspecified	Unspecified	Unspecified	Unspecified
	Comments: Hold one cutting cycle.						

9	**Available**	**5C: Delay treatment for age/size class diversity or exceptional site quality**	4	Unspecified	Unspecified	Unspecified	Unspecified

Comments:
Hold one cutting cycle.

10	**Available**	**5C: Delay treatment for age/size class diversity or exceptional site quality**	124	Unspecified	Unspecified	Unspecified	Unspecified

Comments:
Hold one cutting cycle.

11	**Available**	**5C: Delay treatment for age/size class diversity or exceptional site quality**	50	Unspecified	Unspecified	Unspecified	Unspecified

Comments:
Hold one cutting cycle.

12	**Available**	**5C: Delay treatment for age/size class diversity or exceptional site quality**	28	Unspecified	Unspecified	Unspecified	Unspecified

Comments:
Hold 10 years and treat with comp 171.

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 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	Riparian Area	A transitional area between aquatic and terrestrial ecosystems in which the terrestrial ecosystem influences the aquatic ecosystem and vice-versa. Because of the unique conditions adjacent to lakes, streams and open water wetlands, riparian areas harbor a high diversity of plants and wildlife. Riparian communities are ecologically and socially significant in their effects on water quality and quantity, as well as aesthetics, habitat, bank stability, timber production, and their contribution to overall biodiversity.

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
1	6239 - Mixed Emergent Wetland	Nonstocked	3.7		Unspecified	No	

2 4119 - Mixed Northern Hardwoods — Sawtimber Well — 4.1 — 103 — 111-140 — N/A

Pocket of hardwoods on rolling terrain/transitional site between the upland hardwoods to the west and true lowlands along a drainage corridor. The red maple quality is good and the sugar maple is fair.

Canopy Species	% Cover	Size Class	DBH	Age
Yellow Birch	10	Log/Pole	10	
Balsam Fir	2	Pole	6	
White Spruce	7	Log	12	
Sugar Maple	20	Log/Pole/XLog	12	
Black Ash	2	Pole	6	
Beech	3	Log/Pole	10	
Northern White Cedar	5	Pole	8	
Paper Birch	2	Pole/Log	8	
Red Maple	49	Log/XLog/Pole	14	103

Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple	Low	Variable	Sapling
Beech	Medium	Variable	Sapling
Balsam Fir	Medium	Variable	Sapling

3 6128 - Lowland Coniferous, Mixed Deciduous — Poletimber Medium — 18.7 — 102 — 51-80 — N/A

Semi-open stand of poles/saplings on wet ground. A few knobs of slightly higher ground have larger hemlock & red maple on them, while the wetter areas feature lower basal area and mix of conifer poles, ash, and red maple saplings along with tag alder.

Canopy Species	% Cover	Size Class	DBH	Age
Hemlock	6	Log/Pole	12	
White Spruce	17	Pole	7	
Balsam Fir	19	Pole	7	
Black Ash	4	Pole/Sapling	6	
Red Maple	20	Pole/Log/Sap	10	102
Northern White Cedar	20	Pole/Log	10	

Sub-Canopy Species	Density	Avg. Height	Size
Paper Birch	Low	Variable	Sapling
White Spruce	Low	Variable	Sapling
Balsam Fir	Medium	Variable	Sapling
Tag Alder	High	Variable	Tall Shrub
Northern White Cedar	Low	Variable	Sapling
Willow spp.	Medium	Variable	Tall Shrub

4 6132 - Mixed Lowland Forest with Cedar — Sawtimber Well — 26.5 — 102 — 141-170 — N/A

Low ground near and surrounding Chapel Creek. Basically a mixed stand with pockets of dense cedar.

Canopy Species	% Cover	Size Class	DBH	Age
Northern White Cedar	23	Log/Pole	12	
Hemlock	2	Log/Pole	12	
Red Maple	30	Log/Pole	11	102
Balsam Fir	15	Pole	8	
Yellow Birch	9	Pole/Log	9	
White Spruce	18	Log/Pole	12	
Black Ash	3	Pole	6	

Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	High	Variable	Sapling
White Spruce	High	Variable	Sapling
Beech	Low	Variable	Sapling
Red Maple	High	Variable	Sapling

5 4110 - Sugar Maple Association — Sawtimber Well — 142.3 — 103 — 111-140 — N/A

High quality sugar maple stand at about 120-130 BA.

Canopy Species	% Cover	Size Class	DBH	Age
Sugar Maple	97	Log/Pole/XLog	14	103
Red Maple	1	Log/Pole	13	
Basswood	2	Log/Pole	10	

Sub-Canopy Species	Density	Avg. Height	Size
Beech	Low	Variable	Sapling
Balsam Fir	Low	Variable	Sapling
Sugar Maple	Medium	Variable	Sapling

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
6	4110 - Sugar Maple Association	Sawtimber Well	124.4	103	111-140	N/A	High quality sugar maple stand. There are some red maple mixed in on the edges. BA is 120-130 on average.

Canopy Species	% Cover	Size Class	DBH	Age
Sugar Maple	90	Log/Pole/XLog	14	103
Black Cherry	3	Log/Pole	12	
Red Maple	7	Log/Pole/XLog	13	

Sub-Canopy Species	Density	Avg. Height	Size
Beech	Medium	Variable	Sapling
Balsam Fir	Medium	Variable	Pole
Sugar Maple	High	Variable	Sapling

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
7	500 - Water	Nonstocked	2.8		Unspecified	No	Pond along Chapel Creek.
8	6239 - Mixed Emergent Wetland	Nonstocked	10.3		Unspecified	No	Wet, open marsh area surrounding Chapel Creek. A few trees and scattered lowland brush are also present.
9	6229 - Mixed lowland shrub	Nonstocked	17.1	0	Unspecified	613 - Lowland Mixed Forest	34 Mosquitoes unit 312/7/22 - Treated last entry. Good red maple and aspen regen. Stand has not grown enough to be considered a forested stand yet. There is a small seasonal drain that runs north to stand 7. KG
10	4110 - Sugar Maple Association	Poletimber Medium	23.6	99	51-80	N/A	34 Mosquitoes unit 2 12/8/2022 - The regen is starting to be seen in this stand. The aspen and maple are sprouting back. There is a road in the stand for use when harvesting.

Canopy Species	% Cover	Size Class	DBH	Age
Black Cherry	4	Pole/Log	10	
White Spruce	3	Pole	8	
Paper Birch	5	Pole/Log	8	
Sugar Maple	64	Pole/Log	11	99
Basswood	15	Pole/Log	11	
Balsam Fir	5	Pole/Log	8	
Yellow Birch	4	Log/Pole	12	

Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple	High	Variable	Sapling
Balsam Fir	High	Variable	Sapling
Quaking Aspen	Medium	5 - 10 feet	Sapling

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
11	6120 - Lowland Cedar	Poletimber Well	1.5	36	81-110	N/A	Stand is heavy to cedar that are just reaching pole size. There are also a few small birch and ash mixed in. There is decent cedar regen on the ground.

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	5	Sapling/Pole	4	
Balsam Fir	5	Pole	5	36
White Spruce	10	Pole	5	
Northern White Cedar	80	Pole	5	36

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

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
12	500 - Water	Nonstocked	8.2		Unspecified	No	Wet, open marsh area surrounding Chapel Creek. A few trees and scattered lowland brush are also present.

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
13	6119 - Mixed Lowland Deciduous Forest	Poletimber Well	2.6	34	81-110	N/A	Hardwood and aspen regen on a site that is lower and wetter than the adjacent upland hardwoods. Last cut in 1989.

Canopy Species	% Cover	Size Class	DBH	Age
American Elm	10	Pole	5	
Red Maple	15	Pole	5	
Balsam Fir	5	Sapling/Pole	2	
Quaking Aspen	30	Pole	7	34
White Spruce	10	Sapling	3	
Sugar Maple	20	Pole	5	34
Black Cherry	10	Pole	5	

Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	Low	Variable	Sapling

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
14	4110 - Sugar Maple Association	Poletimber Medium	3.8	21	1-50	N/A	Old opening that has filled in with mostly northern hardwoods. There is an old roadbed through the stand from previous logging in the area.

Canopy Species	% Cover	Size Class	DBH	Age
Quaking Aspen	15	Pole	5	
Black Cherry	20	Pole	6	
Balsam Fir	5	Pole	5	
Sugar Maple	60	Pole	5	21

Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple	Medium	Variable	Sapling
Balsam Fir	Low	Variable	Sapling

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
15	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Well	33.6	95	81-110	N/A	Low, wet area between and on the lower fringes of upland hardwood stands. Mostly conifers, but knobs of elevated ground are dominated by lowland hardwoods. Lowland brush is present throughout but heaviest in the wettest areas. A few spots are significantly more open, and seasonal drainages are present in the areas adjacent to the lowland pond/marsh complexes.

Canopy Species	% Cover	Size Class	DBH	Age
Balsam Fir	25	Pole	7	
Black Spruce	10	Pole	8	
Northern White Cedar	25	Log/Pole	10	95
Paper Birch	2	Pole	7	
Hemlock	10	Log/Pole	12	
Black Ash	8	Pole/Sapling	6	

Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	Low	Variable	Sapling
Black Ash	Medium	Variable	Sapling
Balsam Fir	Medium	Variable	Sapling
Tag Alder	Medium	Variable	Tall Shrub

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
17	6132 - Mixed Lowland Forest with Cedar	Poletimber Medium	15.2	44	51-80	N/A	Very wet stand with lots of dead and dying ash. The cedar in the stand is small and very stressed. There are a few small high spots in the stand with some red maple and white pine. Overall this is a very poor stand with little to no timber of value.

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	10	Log/Pole	10	
Black Ash	40	Pole	6	44
Yellow Birch	5	Pole/Log	8	
White Pine	5	Pole/Log	9	
Northern White Cedar	40	Pole	7	96

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
18	4112 - Maple, Beech, Cherry Association	Sawtimber Well	1.0	95	81-110	N/A	High spot in the Q type. Stand is mostly red maple with some other hardwood and conifer species mixed in.

Canopy Species	% Cover	Size Class	DBH	Age
Black Cherry	10	Log/Pole	12	
Paper Birch	5	Log/Pole	11	
Red Maple	75	Log/Pole	13	95
Hemlock	5	Log	12	
White Spruce	5	Pole	8	

Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	Medium	Variable	Sapling
Balsam Fir	Medium	Variable	Sapling
Hemlock	Low	Variable	Sapling

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
19	4110 - Sugar Maple Association	Sawtimber Well	12.5	99	51-80	N/A	34 Mosquitoes unit 2

Canopy Species	% Cover	Size Class	DBH	Age
Sugar Maple	95	Log/Pole	11	99
Basswood	5	Log/Pole	10	50

Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple	Full	Variable	Sapling
Ironwood	Low	Variable	Pole
Balsam Fir	Low	Variable	Sapling

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
20	4119 - Mixed Northern Hardwoods	Poletimber Poor	2.8	61	1-50	N/A	Old opening that has filled in over time. There are some large maple and spruce that established the overstory and the understory is filling in with hardwood and spruce.

Canopy Species	% Cover	Size Class	DBH	Age
Black Cherry	10	Pole	7	
Sugar Maple	60	Log/Pole	12	61
White Spruce	30	Log/Pole	12	

Sub-Canopy Species	Density	Avg. Height	Size
White Spruce	Medium	< 5 feet	Sapling
Sugar Maple	Medium	Variable	Sapling
Black Cherry	Low	Variable	Sapling

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
21	6124 - Lowland Spruce-Fir	Poletimber Well	23.9	36	51-80	N/A	Young, generally well-stocked mix of lowland conifers at the small end of merchanable size. A few residuals (advanced regen from the previous stand) are larger. Cedar is a major component.

Canopy Species	% Cover	Size Class	DBH	Age
Northern White Cedar	35	Pole	5	
Black Ash	5	Sapling	4	
Tamarack	5	Sapling/Pole	4	
Black Spruce	15	Pole	5	
Red Maple	5	Sapling/Pole	4	
Balsam Fir	35	Sapling/Pole	4	36

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

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
22	4110 - Sugar Maple Association	Sawtimber Well	92.1	103	111-140	N/A	High quality sugar maple. Most of the canopy is sugar maple, plus a few basswood, cherry, birch and conifers mixed in. Stand is averaging 120 BA

Canopy Species	% Cover	Size Class	DBH	Age
Basswood	2	Log/Pole	12	
Red Maple	3	Log/Pole	13	
Black Cherry	2	Log/Pole	12	
Sugar Maple	93	Log/Pole/XLog	13	103

Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple	Medium	Variable	Sapling
Beech	Low	Variable	Sapling
Balsam Fir	Low	Variable	Pole

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
23	6112 - Lowland Aspen	Poletimber Well	10.9	34	51-80	N/A	Young aspen just reaching merchantable size.

Canopy Species	% Cover	Size Class	DBH	Age
Balsam Fir	7	Pole	6	
White Spruce	2	Sapling/Pole	5	
Quaking Aspen	91	Pole	6	34

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
24	6124 - Lowland Spruce-Fir	Poletimber Well	7.4	46	81-110	N/A	Semi-open lowland mixed timber on wet ground. Conifers are dominant, with patches of lowland hardwood.

Canopy Species	% Cover	Size Class	DBH	Age
Northern White Cedar	15	Pole	8	99
Quaking Aspen	7	Pole	9	
Balsam Fir	35	Pole	8	46
Black Ash	5	Pole/Sapling	6	
Black Spruce	25	Pole	6	
Paper Birch	3	Pole	6	
Red Maple	10	Pole	6	

Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	Medium	Variable	Sapling
Red Maple	Low	Variable	Sapling
Northern White Cedar	Low	Variable	Sapling
Tag Alder	High	Variable	Tall Shrub
Black Ash	Low	Variable	Sapling

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
25	6113 - Lowland Maple	Sapling Poor	11.4	11	1-50	N/A	This is an old opening that has filled in enough to be considered a forested stand. There are some large sugar maple, cherry, and balsam fir scattered throughout the stand.

Canopy Species	% Cover	Size Class	DBH	Age
Sugar Maple	60	Sapling	3	11
Black Cherry	20	Sapling/Pole	3	
Quaking Aspen	10	Pole/Sapling	5	
Balsam Fir	10	Sapling/Pole	4	

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
26	6132 - Mixed Lowland Forest with Cedar	Poletimber Medium	2.8	95	81-110	N/A	Mixed lowland timber on the fringe between the upland hardwoods and the flooded bottomlands. Trees appear to be slow-growing, and the quality of the wood is low.

Canopy Species	% Cover	Size Class	DBH	Age
Black Ash	10	Pole/Sapling	5	
Yellow Birch	7	Pole/Log	9	
Red Maple	22	Pole/Log	8	
Paper Birch	2	Pole/Log	8	
Black Spruce	8	Pole	8	
Balsam Fir	20	Pole	7	
Northern White Cedar	24	Pole/Log	9	95
American Elm	2	Pole/Sapling	5	
Hemlock	5	Log/Pole	10	

Sub-Canopy Species	Density	Avg. Height	Size
Black Ash	Low	Variable	Sapling
Tag Alder	High	Variable	Tall Shrub
Balsam Fir	Medium	Variable	Sapling
Red Maple	Low	Variable	Sapling
Northern White Cedar	Low	Variable	Sapling

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
27	4110 - Sugar Maple Association	Sawtimber Well	50.1	99	111-140	N/A	High-quality upland sugar maple on rolling terrain. There are a few small pockets of mixed sugar/red maples along the fringe of the stand where it drops into the surrounding lowlands.

Canopy Species	% Cover	Size Class	DBH	Age
Basswood	5	Log/Pole	13	
Sugar Maple	85	Log/Pole	13	99
Black Cherry	5	Log/Pole	12	
Red Maple	5	Log/Pole	12	

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

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
28	500 - Water	Nonstocked	24.9		Unspecified	No	Pond/marsh complex featuring a mix of lowland brush and seasonally flooded areas. A few trees are also present on hummocks. Water coverage and depth vary significantly throughout the year. This is part of the Section 34 Creek drainage.

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
29	6117 - Lowland Deciduous, Mixed Coniferous	Poletimber Medium	1.7	95	1-50	N/A	Low, wet area - inoperable. There is cedar, red maple, and tag alder on the drier spots and edges. The rest is grassy with open water.

Canopy Species	% Cover	Size Class	DBH	Age
American Elm	15	Pole/Sapling	6	
Red Maple	40	Pole	9	95
White Spruce	15	Pole	8	
Northern White Cedar	15	Pole	6	
Black Ash	15	Pole/Sapling	6	

Sub-Canopy Species	Density	Avg. Height	Size
Northern White Cedar	Low	Variable	Pole
Tag Alder	Low	Variable	Tall Shrub
Black Ash	Medium	Variable	Sapling
Red Maple	Medium	Variable	Sapling
Balsam Fir	Low	Variable	Sapling

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
30	6128 - Lowland Coniferous, Mixed Deciduous	Sawtimber Well	4.1	95	Unspecified	N/A	

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	20	Log/Pole	12	
White Spruce	10	Pole	8	
Northern White Cedar	10	Pole/Log/Sap	9	
Hemlock	25	Log/Pole	12	95
Balsam Fir	20	Pole	7	
Black Ash	10	Sapling/Pole	5	
Yellow Birch	5	Log/Pole	10	

Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	Medium	Variable	Sapling
Tag Alder	Low	Variable	Tall Shrub
Red Maple	Medium	Variable	Sapling

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
31	6117 - Lowland Deciduous, Mixed Coniferous	Poletimber Well	13.0	104	111-140	N/A	Mixed lowland timber - red maple is the dominant species. There is a drain that runs through the center of the stand Southeast to Northwest.

Canopy Species	% Cover	Size Class	DBH	Age
White Spruce	7	Pole	7	
Black Ash	12	Pole	6	
American Elm	2	Pole	7	
Yellow Birch	3	Pole	7	
Sugar Maple	6	Pole	6	
Beech	3	Pole/Log	9	
Red Maple	50	Pole/Log	8	104
Balsam Fir	17	Pole/Log	9	

Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple	Low	Variable	Sapling
American Elm	Medium	Variable	Sapling
Red Maple	Medium	Variable	Sapling
Balsam Fir	High	Variable	Sapling
Black Ash	Low	Variable	Sapling
White Spruce	Low	Variable	Sapling

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
32	4112 - Maple, Beech, Cherry Association	Poletimber Well	2.1	99	81-110	N/A	Upland mixed maple stand. Stand is currently at 100-120 BA.

Canopy Species	% Cover	Size Class	DBH	Age
Sugar Maple	50	Log/Pole/XLog	12	99
Paper Birch	10	Pole/Log	10	
Red Maple	35	Log/Pole	11	
Balsam Fir	5	Pole/Sapling	5	

Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple	High	Variable	Sapling
Red Maple	High	Variable	Sapling
Balsam Fir	Medium	Variable	Sapling

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
33	6132 - Mixed Lowland Forest with Cedar	Poletimber Well	11.1	41	81-110	N/A	Lower and wetter than the hardwoods nearby. Some areas are semi-open and feature pockets of regen and/or lowland brush. Flooding from the nearby pond complex has influenced this stand in the past. The timber is low quality and soil moisture is highly variable.

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	15	Log/Pole	11	
Paper Birch	25	Pole/Log/Sap	9	41
Black Ash	2	Pole	6	
Sugar Maple	5	Log/Pole	10	
Hemlock	3	Log/Pole	11	
Balsam Fir	10	Pole	8	
Black Spruce	20	Pole/Log	8	
Northern White Cedar	20	Pole/Log	8	96

Sub-Canopy Species	Density	Avg. Height	Size
Tag Alder	Medium	Variable	Tall Shrub
Red Maple	Medium	Variable	Sapling
Black Ash	Medium	Variable	Sapling
Balsam Fir	Medium	Variable	Sapling

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
34	6120 - Lowland Cedar	Sawtimber Well	3.3	104	111-140	N/A	Cedar - retain for wildlife habitat.

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	8	Pole	8	
Yellow Birch	8	Pole/Log	9	
Quaking Aspen	5	Log	14	
Northern White Cedar	67	Log/Pole/Sap	10	104
Balsam Fir	5	Pole	8	
White Spruce	7	Pole	8	

Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	Medium	Variable	Sapling
Balsam Fir	Medium	Variable	Sapling
Yellow Birch	Medium	Variable	Sapling

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
35	3102 - Grass	Nonstocked	1.0		Unspecified	No	Small grass opening on the edge of the road with a few scattered trees.

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
36	6128 - Lowland Coniferous, Mixed Deciduous	Sawtimber Well	10.2	96	171-200	N/A	Patchy cedar stand with balsam, spruce, red maple, and birch mixed in. The spruce and balsam are declining. There is good cedar regeneration in areas of the stand with more open canopy. The drain from stand 28 runs through this stand going southeast.

Canopy Species	% Cover	Size Class	DBH	Age
Hemlock	2	Log	12	
Red Maple	5	Pole	8	
Balsam Fir	15	Log/Pole	10	
Quaking Aspen	8	Log/Pole	13	
Paper Birch	20	Log/Pole	10	
Northern White Cedar	40	Log/Pole	11	96

Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	Medium	Variable	Sapling
Northern White Cedar	Medium	Variable	Sapling
Tag Alder	Medium	Variable	Tall Shrub
Black Spruce	Low	Variable	Sapling

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
37	4110 - Sugar Maple Association	Sawtimber Well	526.7	103	111-140	N/A	Stand is mostly good quality sugar maple BA is 120 on average.

Canopy Species	% Cover	Size Class	DBH	Age
Sugar Maple	94	Log/Pole/XLog	13	103
Red Maple	3	Log/Pole	12	
Black Cherry	1	Log/Pole	10	
Basswood	2	Log/Pole	10	

Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	Low	Variable	Sapling
Sugar Maple	High	Variable	Sapling
Beech	Low	Variable	Sapling

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
38	4112 - Maple, Beech, Cherry Association	Sawtimber Well	3.1	103	111-140	N/A	Maple stand dominated by red maple with some poor quality sugar maple and a mix of other species. The beech in the stand is in bad shape. There is thick beech brush. The stand has a current treatment to be harvested with the stand to the east in Compartment 171.

Canopy Species	% Cover	Size Class	DBH	Age
Yellow Birch	2	Pole/Log	9	
Red Maple	50	Log/Pole/XLog	13	103
White Spruce	2	Log/Pole	10	
Sugar Maple	29	Log/Pole	12	
Hemlock	2	Pole/Log	9	
Beech	15	Log/XLog	16	

Sub-Canopy Species	Density	Avg. Height	Size
Beech	High	Variable	Sapling
Red Maple	Low	Variable	Sapling
White Spruce	Medium	Variable	Sapling
Balsam Fir	Medium	Variable	Sapling

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
39	4312 - Hemlock, Mixed Deciduous	Sawtimber Well	6.3	66	81-110	N/A	Maple and Hemlock mound in surrounded by wetter soild and forest types.

Canopy Species	% Cover	Size Class	DBH	Age
Beech	2	XLog/Log	18	
Yellow Birch	3	Log	15	
Hemlock	41	Log/Pole	11	103
Red Maple	50	Log/Pole	14	66
White Spruce	4	Pole	7	

Sub-Canopy Species	Density	Avg. Height	Size
Beech	Medium	Variable	Sapling
Hemlock	Medium	Variable	Sapling
White Spruce	Medium	Variable	Sapling
Balsam Fir	Medium	Variable	Sapling

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
40	6229 - Mixed lowland shrub	Nonstocked	14.3	0	Unspecified	613 - Lowland Mixed Forest	34 Mosquitoes unit 1 11/22/22 - The central part of the stand has been cut and there are lots of soft maple stump sprouts. The cedar and hemlock were left in the stand.
41	6220 - Alder/willow	Nonstocked	13.3		Unspecified	No	
42	4110 - Sugar Maple Association	Poletimber Well	27.9	103	111-140	N/A	Good quality log size stand. High ground that tapers off to wet stand on the west side.

Canopy Species	% Cover	Size Class	DBH	Age
Black Cherry	5	Log/Pole/XLog	13	
Red Maple	15	Log/Pole/XLog	13	
Sugar Maple	80	Log/Pole/XLog	13	103

Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	Low	Variable	Sapling
Red Maple	Low	Variable	Sapling
Beech	Medium	Variable	Sapling
Sugar Maple	High	Variable	Sapling

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
43	4130 - Aspen	Poletimber Well	4.5	31	81-110	N/A	Aspen stand with some maple, balsam fir, and ash mixed in on wet soils. There are a couple wet spots heavier to ash but most of the soils are dry.

Canopy Species	% Cover	Size Class	DBH	Age
Sugar Maple	7	Pole	6	
Red Maple	3	Pole	7	
Black Cherry	3	Pole	9	
Yellow Birch	1	Sapling/Pole	4	
Quaking Aspen	80	Pole	6	31
Black Ash	5	Pole	6	
Paper Birch	1	Pole	5	

Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple	Low	Variable	Sapling
Balsam Fir	Low	Variable	Sapling

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
44	6139 - Mixed Lowland Forest	Sawtimber Well	7.0	91	Unspecified	N/A	Mixed stand of lowland species. Adjacent to upland hardwoods. The timber is mature.

Canopy Species	% Cover	Size Class	DBH	Age
Balsam Fir	10	Pole/Log	8	
Northern White Cedar	10	Log/Pole	10	
Red Maple	25	Log/Pole	11	91
Hemlock	5	Log/Pole	10	
White Spruce	20	Log/Pole	12	
Yellow Birch	20	Log/Pole	10	
Black Ash	10	Pole	8	