



Compartment Review Presentation

Atlanta Forest Management Unit

Compartment 54086

Entry Year 2022

Acreage: 928

County Alpena

Management Area: Alpena Lake Plain

Revision Date: 2020-08-27

Stand Examiner: Daniel Natzke

Legal Description:

T30N, R06E, Sections 21, 28 and 33.

Identified Planning Goals:

Most of the aspen in the compartment is about the same age: roughly 50 years old. The goal here will be to continue to break up this block of 50-year-old aspen to approach a more balanced age class distribution. Oak is a common associate in many of these 50-year-old aspen stands. We can expect oak to reproduce mainly from coppice origin rather than seed, however at a diminishing proportion. The compartment sees a fair amount of recreational traffic. Aesthetic concerns should be addressed along favorite paths. Along with recreation has come ORV damage. Work has been done in the past to remediate some of this damage, but the damage continues. As such, the remediation effort should also continue.

Soil and topography:

All of the soils in Compartment 86 consist of the Negwegon till substratum-Ossineke-Algonquin till substratum Association. The Negwegon and Ossineke soils are both moderately well drained soils situated on the summits and side slopes of ridges, drumlins, and ground moraines. These soils have a loamy surface texture. Negwegon soils are derived of lacustrine clay sediments deposited over loamy glacial till. Ossineke soils are derived of loamy glacial till. The Algonquin soils are somewhat poorly drained, situated in the flats between ridges and drumlins. These soils derived of lacustrine clay sediments deposited over loamy glacial till and have a loamy surface texture. Well drained Klacking sands may form narrow ridges. The compartment's wetlands are situated on Wakely mucky sand and Cathro muck. Both are very poorly drained and feature seasonally perched water tables.

The compartment is mostly upland with a rolling character. Of note, a narrow band of steep ridges run north-south almost crossing the entire compartment's center. West of this ridge in the center of the compartment, another network of ridges radiates in an east-west orientation. Mucky soils are found at the margins of these hills as the surface transitions from undulating to flat.

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

Hunting and agricultural lands surround the compartment.

Unique Natural Features:

Of some interest is the compartment's naturally regenerated red pine. Generally, these are 50 years old or older and occur in areas with a water table near the surface. It seems that natural regeneration pulses occurred about 120-100 years ago, about 80 years ago, and about 50 years ago.

Archeological, Historical, and Cultural Features:

A review of the archaeological and natural features databases reveals no occurrences of concern. However there may be new sites to investigate.

Special Management Designations or Considerations:

There are no special management designations or considerations for this compartment.

Watershed and Fisheries Considerations:

Wildlife Habitat Considerations:

This compartment is an excellent opportunity to manage for wildlife. It is an independent compartment in Alpena county, providing wildlife and timber management in an area primarily consisting of private property. Habitat components of heavy aspen and lowlands provide food and cover for multiple species at a variety of age classes. We are working to maintain mast producing trees as well as keep a good age rotation of aspen. Species which benefit from our management include white-tailed deer, black bear, ruffed grouse, woodcock, and many other game and non-game species.

Mineral Resource and Development Concerns and/or Restrictions

Sections 21, 28, & 33, T30N-R6E, Alpena County

A group of active sand/gravel pits occur roughly four miles to the northeast and appear to be associated with an esker. Hints of this glacial feature appear to extend down into the northern end of the compartment and would be a good source of gravel. Elsewhere in the compartment, sand & gravel potential appears to be limited. This area has been drilled and is producing gas from the Antrim Shale. There may be some potential for additional Antrim wells within the compartment. However, at current low gas prices, additional development is unlikely for the foreseeable future. No known metallic mineral potential exists in this part of the state.

Vehicle Access:

Access to the compartment is reasonably good from Werth Road and Black Road. The compartment's south half remains the most difficult to access, relying on very indirect paths for vehicle traffic. Future management activities will have to consider road repairs and improvements.

Survey Needs:

The entire compartment is well-surveyed. All major survey monuments defining public and private ownership are described in records or have been found on site.

Recreational Facilities and Opportunities:

Wildlife viewing and hunting are the most popular recreational activities in this compartment. The compartment does not contain any formal recreation infrastructure beyond forest roads.

Fire Protection:

Surrounding volunteer fire departments would respond to a wildfire in the area as would D.N.R. Fire task forces from Alpena, Lincoln and Atlanta.

Additional Compartment Information:

This compartment is primarily upland, a relative rarity for the Alpena Lake Plain.

The following reports from the Inventory are attached:

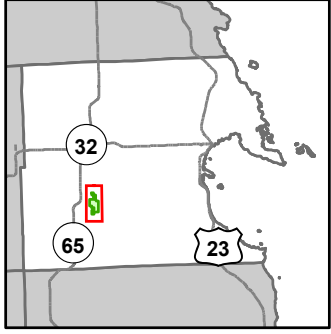
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

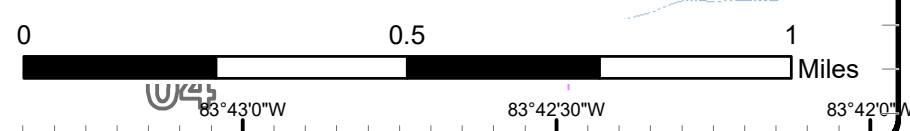
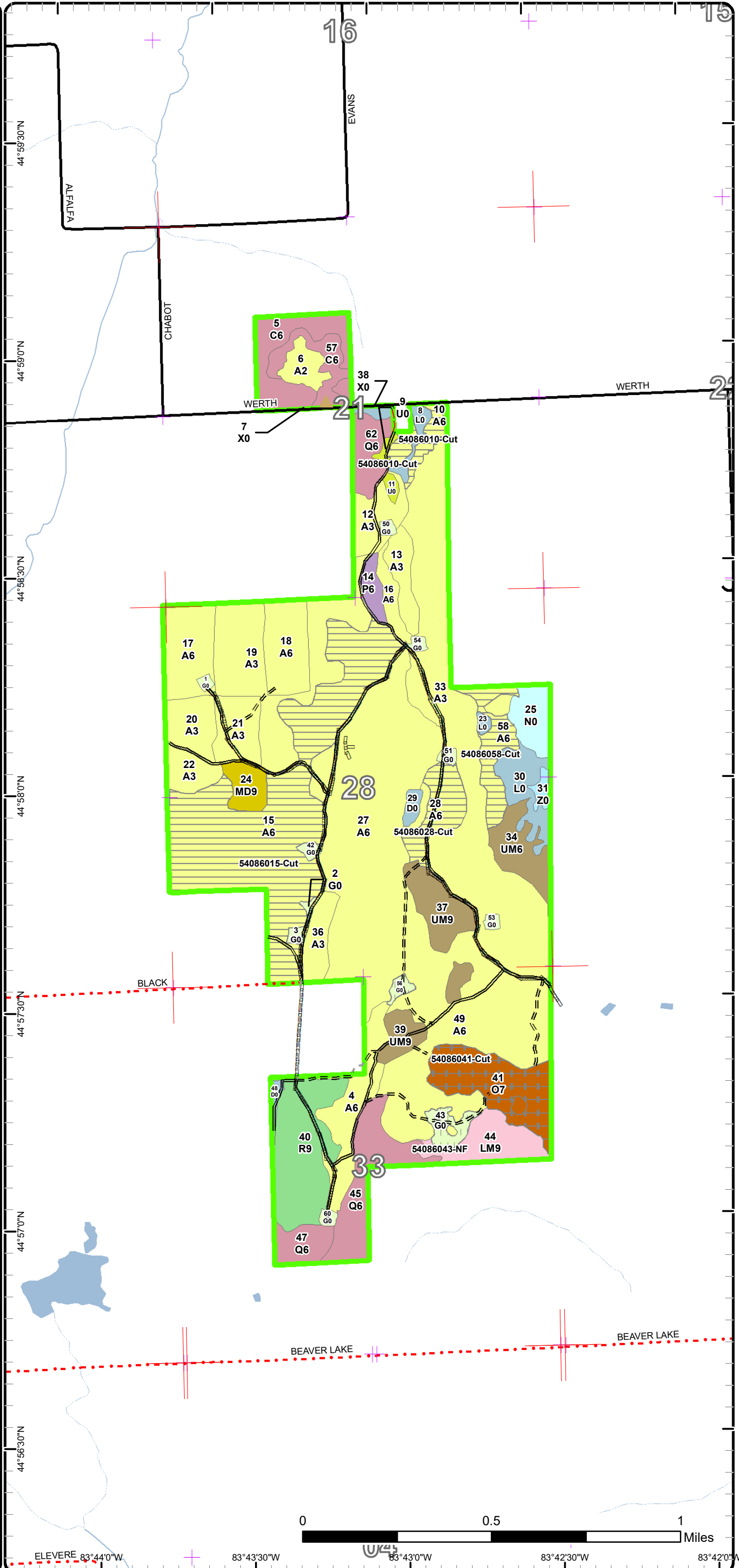
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

Cover Type & Treatments Map

Compartment: 86
 T30N, R06E, Sec. 21, 28, 33
 County: Alpena
 Unit: Atlanta
 Mgmt Area: Alpena Lake Plain
 YOE: 2022
 Acres: 928 GIS Calculated
 Examiner: Daniel Natzke
 Map Revised: 10/22/2020
 Map Phase: Post-Review

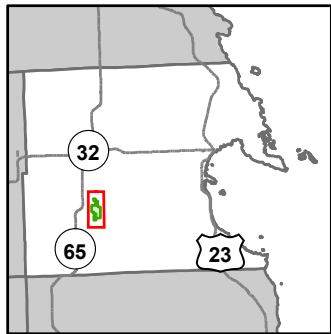


- Miris Corners
- Remonumented Section Corners
- Counties
- == DNR - Secondary Forest Road
- == DNR - Forest Access Route
- Federal / State / County - Paved Road
- - - County - Gravel Road
- - - County - Dirt Road (Seasonal)
- - - Private - Dirt / Gravel Road
- Intermittent Stream
- Lake/Pond
- Perennial River
- Lakes and Rivers
- ▲ Berms
- Pipeline
- Compartment Boundary
- Clearcut (w/Reserves)
- Harvest, Overstory Removal
- Opening Maintenance
- 412 - Oak Types
- 413 - Aspen
- 419 - Mixed Upland Deciduous
- 421 - Planted Pines
- 430 - Upland Mixed Forest
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 613 - Lowland Mixed Forest
- 122 - Roads/Parking Lot
- 310 - Herbaceous Openland
- 330 - Low Density Trees
- 500 - Water
- 622 - Lowland Shrub
- 623 - Emergent Wetland

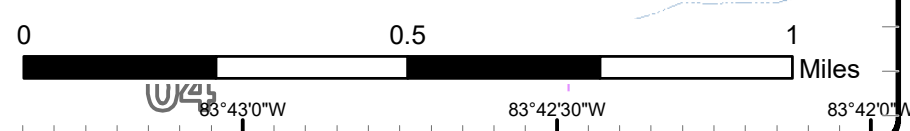
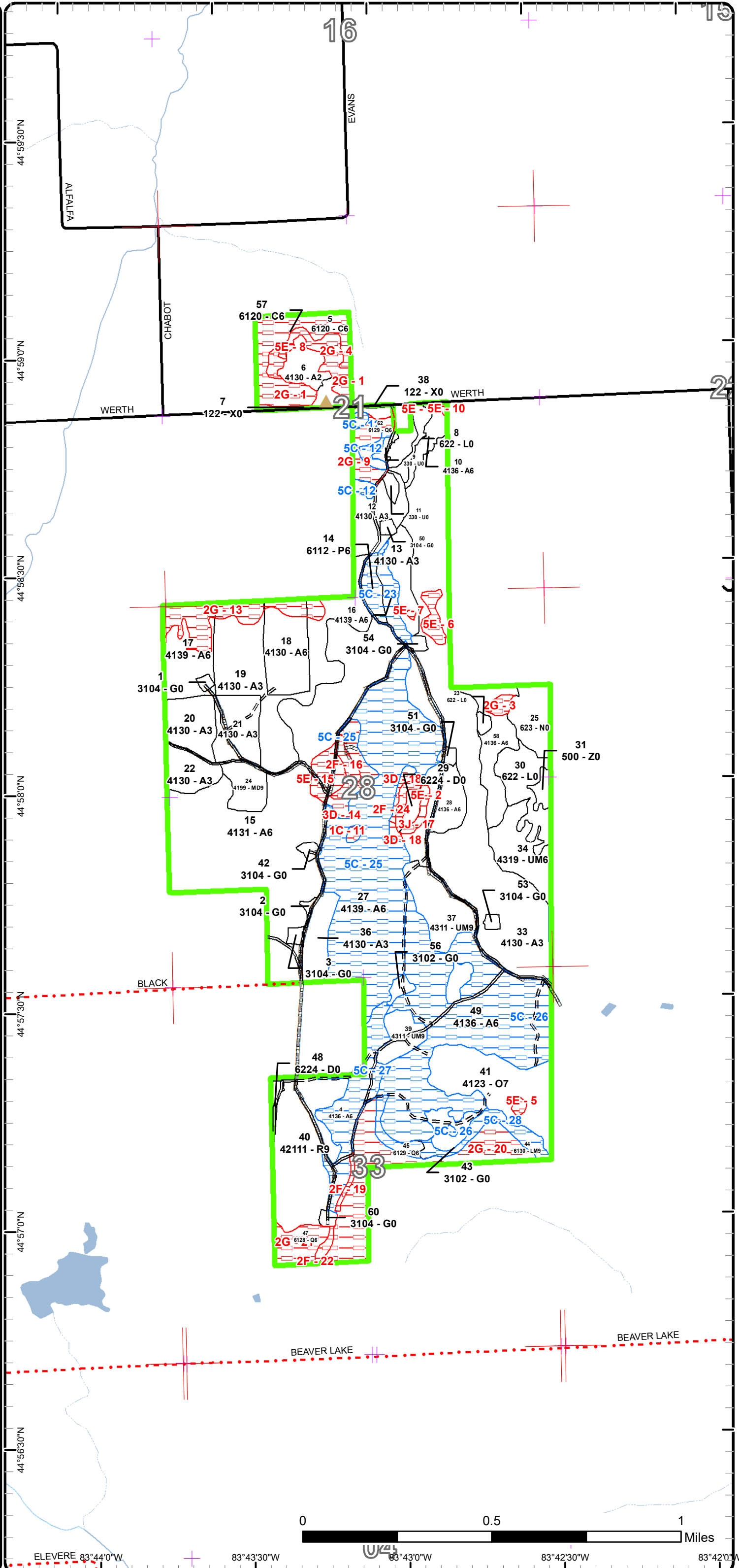


Special Conservation Areas

Compartment: 86
 T30N, R06E, Sec. 21, 28, 33
 County: Alpena
 Unit: Atlanta
 Mgmt Area: Alpena Lake Plain
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- .- Private - Dirt / Gravel Road
- Intermittent Stream
- Lake/Pond
- Perennial River
- Lakes and Rivers
- ▲ Berms
- Pipeline
- Compartment Boundary
- Available w/ Constraints
- Unavailable
- 5C: Delay treatment for age/size class diversity or exceptional site quality
- 1C: Other dept or div proc/practices
- 2F: Too steep
- 2G: Too wet (sensitive soils, does not include access issues)
- 3D: Recreational / Scenic values
- 3J: Water quality / BMPs (stream, river, or lake)
- 5E: Long-Term Retention
- Stand Boundaries
- Cold Water Streams



Report 1 – Total Acres by Cover Type and Age Class

Atlanta Mgt. Unit

Compartment 86

Year of Entry 2022

Daniel Natzke : 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	121	12	78	52	0	385	6	0	0	0	0	0	0	0	0	0	0	654
Cedar	0	0	0	0	0	0	0	0	0	0	0	32	0	0	0	0	0	0	32
Herbaceous Openland	17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17
Low-Density Trees	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
Lowland Aspen/Balsam Poplar	0	0	0	0	0	0	5	0	0	0	0	0	0	0	0	0	0	0	5
Lowland Conifers	0	0	0	0	0	0	0	9	0	0	0	11	26	0	0	0	0	0	46
Lowland Mixed Forest	0	0	0	0	0	0	0	0	0	0	0	17	0	0	0	0	0	0	17
Lowland Shrub	20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	20
Marsh	11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	11
Mixed Upland Deciduous	0	0	0	0	0	0	0	0	8	0	0	0	0	0	0	0	0	0	8
Oak	0	0	0	0	0	0	0	0	0	30	0	0	0	0	0	0	0	0	30
Red Pine	0	0	0	0	0	0	0	37	0	0	0	0	0	0	0	0	0	0	37
Treed Bog	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
Upland Mixed Forest	0	0	0	0	0	18	23	0	0	0	0	0	0	0	0	0	0	0	41
Urban	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
Water	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
Total	60	121	12	78	52	18	413	52	8	30	0	60	26	0	0	0	0	0	930



Report 2 – Treatment Summary

Atlanta Mgt. Unit
Year of Entry: 2022

Acres of Harvest

Compartment 86
Total Compartment Acres: 928

Commercial Harvest - 183
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
Aspen	154	0	0	0	0	0	0	0	0	154
Oak	0	0	0	0	0	0	29	0	0	29
Total	154	0	0	0	0	0	29	0	0	183

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	183	0	0	0	0	0	0	7	0	191
Next Step	0	0	0	0	0	0	183	0	0	183
Total	183	0	0	0	0	0	183	7	0	374



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

10	54086010-Cut	8.3	4136 - Aspen, Mixed Conifer	Poletimber Well	55	81-110	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
<p><u>Prescription</u> Clearcut with 3-10% area retention (pre-excluded). Mark to retain spruce, red pine, white pine, especially those pine with cavities or dead tops., not to exceed 10BA. Cut outside of spring. 2" requirement. Grouse, rabbitat, raptor specifications.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Any combination of aspen, maple, oak, balsam fir, spruce and pine yielding a stand of at least moderate stocking.</p> <p><u>Regen:</u></p> <p><u>Other</u> Should legacy oak exist, protect them with bumper trees or place them at the center of a small leave clump.</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2021</p>											
15	54086015-Cut	118.1	4131 - Aspen, Oak	Poletimber Well	56	81-110	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
<p><u>Prescription</u> Clearcut with 3-10% area retention and leave-tree standards. Retention pre-excluded near the bog in the east. Mark to retain red and white pine not to exceed 10BA, especially those with cavities or dead tops. Grouse specs. Raptor specs. Identify and protect survey monuments and bearing trees in the stand's southwest.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Any combination of aspen, maple, oak, balsam fir, spruce and pine yielding a stand of at least moderate stocking.</p> <p><u>Regen:</u></p> <p><u>Other</u> Should legacy oak exist, mark to retain and protect with bumper trees, or place the oak at the center of a small leave clump surrounded by trees of other species.</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2021</p>											
28	54086028-Cut	14.0	4136 - Aspen, Mixed Conifer	Poletimber Well	50	81-110	Harvest	Clearcut	413 - Aspen	Even-Aged	No
<p><u>Prescription</u> Clearcut without area retention due to small stand size. However, mark to retain no more than 10BA of native pines and spruce. Grouse spec. Raptor spec. Rabbitat along the bog edge. Cut outside of spring.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Any combination of aspen, maple, oak, balsam fir, spruce and pine yielding a stand of at least moderate stocking.</p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2021</p>											



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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
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41	54086041-Cut	29.0	4123 - Red Oak	Sawtimber Poor	86	1-50	Harvest	Overstory Removal	4199 - Other Mixed Upland Deciduous	Even-Aged	No
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Prescription Overstory removal. Cut in the dormant season to enhance sprouting potential. Use a roundwood operation to protect advanced regeneration. Work with wildlife biologist to select an area to maintain the oak overstory and lean toward a higher 10% area retention for that location.

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Any combination of aspen, maple, oak, balsam fir, spruce and pine yielding a stand of at least moderate stocking.

Regen:

Other

Comment:

Site Condition

Proposed Start Date: 10/1 /2021

43	54086043-NF	5.6	3102 - Grass	Nonstocked			Unspec ified	NonForestMgt /Grass Planting	310 - Herbaceous Openland		No
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Prescription Opening will be maintained on an ongoing rotational basis to produce wildlife forage through burning, mowing, planting, or other agriculture practices

Next Step

Treatments:

Acceptable

Regen:

Other

Comment:

Site Condition

Proposed Start Date: 10/1 /2021

56	54086056-NF	1.8	3102 - Grass	Nonstocked			Unspec ified	NonForestMgt /Grass Planting	310 - Herbaceous Openland		No
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Prescription Opening will be maintained on an ongoing rotational basis to produce wildlife forage through burning, mowing, planting, or other agriculture practices

Next Step

Treatments:

Acceptable

Regen:

Other

Comment:

Site Condition

Proposed Start Date: 10/1 /2021



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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
58 54086058-Cut	14.0	4136 - Aspen, Mixed Conifer	Poletimber Well	54	81-110	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
<p><u>Prescription</u> Clearcut with retention. Retention, focusing on wet areas, may exceed 10% when protecting fragile soils and to improve operability. Mark to retain individual native pine and spruce not to exceed 10 BA. Cut outside of spring. Waive the 2" specification. Grouse, raptor, rabbitat specifications. Protect survey corner and bearing trees in the stand's northwest.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u> Any combination of aspen, maple, oak, balsam fir, spruce and pine yielding a stand of at least moderate stocking.</p> <p><u>Other Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2021</p>										

Total Treatment Acreage Proposed: 190.8

Report 4 – Site Conditions

Atlanta Mgt. Unit
Daniel Natzke : Examiner

Compartment: 86
Year of Entry: 2022



Availability for Management

Total Acres	Acres Available	Acres Avail With Condition	Acres Not Available
654	399	209	46
32	3	0	29
17	17	0	0
3	3	0	0
5	0	5	0
46	0	9	38
17	0	8	10
20	20	0	0
11	11	0	0
8	8	0	0
30	29	0	1
37	37	0	0
4	4	0	0
40	40	0	0
2	2	0	0
3	3	0	0
928	575	230	124
	62%	25%	13%

Dominant Site Conditions

	Availability for Management				Dominant Site Conditions							
	Total Acres	Acres Available	Acres Avail With Condition	Acres Not Available	5C	1C	2F	2G	3D	3J	5E	
Aspen	654	399	209	46	209	1	5	18	8	3	11	
Cedar	32	3	0	29				29			1	
Herbaceous Openland	17	17	0	0	0							
Low-Density Trees	3	3	0	0								
Lowland Aspen/Balsam Poplar	5	0	5	0	5							
Lowland Conifers	46	0	9	38	9		1	36				
Lowland Mixed Forest	17	0	8	10	8			10				
Lowland Shrub	20	20	0	0								
Marsh	11	11	0	0								
Mixed Upland Deciduous	8	8	0	0								
Oak	30	29	0	1							1	
Red Pine	37	37	0	0				0				
Treed Bog	4	4	0	0						0	0	
Upland Mixed Forest	40	40	0	0								
Urban	2	2	0	0								
Water	3	3	0	0								
Total Forested Acres	928	575	230	124	230	1	6	92	8	3	12	
Relative Percent		62%	25%	13%								

**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	2G: Too wet (sensitive soils, does not include access issues)	21	5D: Unproductive Forest Land	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

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2	Unavailable	5E: Long-Term Retention	1	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
Comments: Predesignated retention for harvest in the stand to the east.							
3	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	2	5E: Long-Term Retention	Unspecified	Unspecified	Unspecified
Comments: This area's generally wet. May pick a way through on some higher ground to reach the far north. Might be a good idea to situation retention here.							
4	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	7	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
5	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
6	Unavailable	5E: Long-Term Retention	4	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
7	Unavailable	5E: Long-Term Retention	0	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
8	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

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9	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	6	5D: Unproductive Forest Land	Unspecified	Unspecified	Unspecified
Comments: Too wet. This area represents a drainage. Standing water visible between roots and hummocks. Non-productive. A few hemlock in there...							
10	Unavailable	5E: Long-Term Retention	0	2G: Too wet (sensitive soils, does not include access issues)	Unspecified	Unspecified	Unspecified
Comments:							
11	Unavailable	1C: Other dept or div proc/practices	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
12	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	5	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
13	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	16	Unspecified	Unspecified	Unspecified	Unspecified
Comments: North end of stand 17 features many small ponds and drainages.							
14	Unavailable	3D: Recreational / Scenic values	7	5E: Long-Term Retention	Unspecified	Unspecified	Unspecified
Comments: May be used for retention for harvest in the stand to the east. This area receives a good deal of traffic. Plan for aesthetics!							

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15	Unavailable	5E: Long-Term Retention	6	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
Comments: Retention for harvest in stand 27, to the west. Also serves to protect the bog.							
16	Unavailable	2F: Too steep	3	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
Comments: Steep slopes lead directly to bog.							
17	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	4	Unspecified	Unspecified	Unspecified	Unspecified
Comments: 100' setback to observe water quality Best Management Practices.							
18	Unavailable	3D: Recreational / Scenic values	2	5E: Long-Term Retention	Unspecified	Unspecified	Unspecified
Comments: Bring this over the ridge crest to address aesthetics. This area is well-traveled. May be used for future retention.							
19	Unavailable	2F: Too steep	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments: A relatively steep slope terminating directly into cedar swamp.							
20	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	32	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Plenty of standing water is discouraging...							

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21	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	8	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Standing water almost everywhere. Dense alder in southwest corner. Not worth cutting.							
22	Unavailable	2F: Too steep	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Dry ridge that terminates directly into swamp on either side.							
23	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	11	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
24	Unavailable	2F: Too steep	1	3J: Water quality / BMPs (stream, river, or lake)	3D: Recreational / Scenic values	Unspecified	Unspecified
Comments: Steep slope leads directly to bog. When delineating on the ground bring this from the slope westward over the ridge crest to address aesthetics. This area sees daily use even in the winter.							
25	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	95	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
26	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	87	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

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Compartment: 86
Year of Entry: 2022



27	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	21	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
28	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	11	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Mgt. Unit

Compartment: #Type!

Year of Entry:



Report 5 – PROPOSED SPECIAL CONSERVATION AREA* (SCA) DETAILS

* This is a partial list of SCAs for this compartment. Not included are those areas identified under other Department initiatives (Natural Rivers, Deer Wintering Areas, etc.). Those will be identified in separate, future map and report products.

SCA Name	SCA Category	Detail Type	Recommendation	Acres
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
-------------------	------	-------------



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																																			
1	3104 - Degraded	Nonstocked	0.8	0	Unspecified		Well pad opening.																																																																			
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4	4136 - Aspen, Mixed Conifer	Poletimber Well	21.9	50	81-110	N/A	West lobe contains aspen overtopping planted red pine. South portion includes significantly more conifer in all strata. The ridge this stand sits on relates to stand 27 farther to the north. The ridge terminates directly in lowland conifer swamp.																																																																			
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5	6120 - Lowland Cedar	Poletimber Well	21.7	109	1-50	N/A	Edge called from stand 57 and Werth Rd. It looks just like the poorer stuff in stand 62. Generally very dense pole and sapling sized trees but probably non-productive and also probably the same age as stand 57 and most of the other lowland conifers in the area... 100ish.																																																																			
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																																									
6	4130 - Aspen	Sapling Medium	7.1	5	Immature	N/A	There's a bit of a bare patch in the southwest and in some areas along the margins of the harvest area. Otherwise the stand has regenerated to at least a medium stocking of aspen plus a few associates. Cedar and hemlock standards from the previous stand remain.																																																																									
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7	122 - Road/Parking Lot	Nonstocked	0.7	0	Unspecified	No	Werth Road. Ground cover: bituminous macadam.																																																																									
8	622 - Lowland Shrub	Nonstocked	4.9	0	Unspecified	No	Dense alder spiked with common swampy arboreal species such as black spruce, tamarack balsam fir, northern white cedar, white birch, red maple...																																																																									
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9	330 - Low-Density Trees	Nonstocked	1.3		Unspecified	No	Just your average degraded opening. Small boulder pile in the southwest that could be handy to restore some berms.																																																																									
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10	4136 - Aspen, Mixed Conifer	Poletimber Well	8.6	55	81-110	N/A	A fairly narrow finger of upland makes it to Werth Rd. On either side the stand falls quickly into swamp or lowland brush. Balsam fir generally in a merchantable size. Quaking aspen showing conk and look decadent. I suspect there is an older cohort here probably in the 80-100 year old range to fit with the remnant red oak and red pine of the same (estimated) age. Big tooth is still healthy. Very dense fir transition to drainages and lowland brush. Next to the opening, it seems that balsam poplar is seeding in.																																																																									
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
11	330 - Low-Density Trees	Nonstocked	1.4		Unspecified		Old gravel/sand pit. It looks like it's being used as a scramble site. Ponds on the east side. DEQ records refer to this as the Johnson sand and gravel pit.
		Sub-Canopy Species		Density	Avg. Height	Size	
		Balsam Poplar		Low	Variable	Sapling	
		Bigtooth Aspen		Low	>20 feet	Pole	
		Red Pine		Low	Variable	Sapling	
		Jack Pine		Low	Variable	Sapling	
		Reed Canary Grass		Medium	Unspecified	Non-Wood	
		Spotted Knapweed		High	Unspecified	Non-Wood	
		Cattail spp.		Low	Unspecified	Non-Wood	
		Balsam Fir		Low	Variable	Sapling	
12	4130 - Aspen	Sapling Well	11.8	26	1-50	N/A	A trail to two private parcels cuts through the stand. A small area of wetland in the northeast. Quaking aspen is doing particularly well in the northeast. Should be a small pole stand at the next year of entry.
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Red Oak		3	Pole/Sap/Log	12		Red Maple	
Bigtooth Aspen		55	Sapling	3	26	White Pine	
Red Pine		9	Log/Pole	10		Beech	
Jack Pine		2	Pole/Sapling	5		Dogwood (spp.)	
Balsam Fir		3	Pole/Sapling	5		Alder	
White Pine		2	Log/Pole	10		Choke Cherry	
Paper Birch		2	Sapling/Pole	4			
Quaking Aspen		20	Pole/Sapling	5	26		
Red Maple		4	Sapling	3			
13	4130 - Aspen	Sapling Well	9.0	5	Immature	N/A	Kind of an oddball stand with some dense leatherleaf, of all things, cladding the west of the stand next to the ridge. Is it wetland? Is it a seasonally perched water table? Ground felt good... Seems almost pure quaking aspen but there may be some big tooth that I didn't see.
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Quaking Aspen		75	Sapling	1	5	Leatherleaf	
Red Maple		20	Sapling	1	5	Red Oak	
Red Oak		2	Sapling	1	5		
White Pine		3	Sapling	1	5		
14	6112 - Lowland Aspen	Poletimber Well	5.0	55	51-80	N/A	Unusual stand of aspen in my experience. Aspen growing on a lumpy blanket of leather leaf. A few odd pockets of fairly dense red maple saplings. Seems quality generally decreases southward.
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Red Maple		28	Pole/Sapling	6		Red Maple	
Red Oak		9	Pole/Log	8		Serviceberry (Juneberry)	
Quaking Aspen		42	Pole	8	55	Red Oak	
Red Pine		14	Log/XLog/Pole	14		Leatherleaf	
Jack Pine		3	Pole	8		Paper Birch	
White Spruce		1	Pole	8		Beech	
Paper Birch		1	Pole	6		Balsam Fir	
White Pine		2	Pole/Log	9			



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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15	4131 - Aspen, Oak	Poletimber Well	122.8	56	81-110	N/A	Odd patch of red pine regen, about 80 years old in the west. Ridges seem to tend to have more oak. Some autumn olive in the stand's far south. An odd pocket of larger and, ostensibly, older aspen in the southwest. Estimate age about 80.
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Red Maple		11	Pole/Sapling	6		Red Maple	
Red Oak		21	Log/XLog/Pole	15		White Pine	
Quaking Aspen		5	Pole	6	56	Serviceberry (Juneberry)	
Bigtooth Aspen		50	Pole/Log	8	56	Witch Hazel	
Beech		1	Pole	5		Beech	
Balsam Fir		3	Pole	7		Autumn Olive	
Red Pine		6	Log/XLog/Pole	13			
White Pine		3	Pole	7			

16	4139 - Aspen, Mixed Deciduous	Poletimber Well	5.8	63	111-140	N/A	Productive ridge featuring big tooth and quite a number of red pine.
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Red Maple		17	Pole	6		Red Maple	
Red Oak		5	Log/XLog/Pole	15		Dogwood (spp.)	
Bigtooth Aspen		53	Pole/Log	9	63	Serviceberry (Juneberry)	
Red Pine		17	Log/XLog/Pole	13		Beech	
White Oak		1	Log/XLog	15		Hazelnut (Spp.)	
White Pine		2	Log/XLog	16		Ironwood	
Paper Birch		1	Pole	6		White Spruce	
Quaking Aspen		4	Pole	7		Balsam Fir	

17	4139 - Aspen, Mixed Deciduous	Poletimber Well	20.4	36	81-110	N/A	The stand's north contains a network of small ponds and drainages.
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Red Maple		15	Pole/Sap/Log	6		Red Maple	
Quaking Aspen		47	Pole	7	36	Alder	
Paper Birch		15	Pole/Sapling	5		Balsam Fir	
Bigtooth Aspen		10	Pole	7		Witch Hazel	
White Pine		1	Pole/Sapling	5			
White Spruce		2	Pole	7			
Balsam Fir		3	Pole	6			
Red Oak		1	Log	12			
Balsam Poplar		6	Pole	7			



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments	
18	4130 - Aspen	Poletimber Well	18.4	36	51-80	N/A	Impressive growth for a stand this age. In the stand's south, some big tooth are approaching log size already with 5 sticks of merchantable height. The stand slopes downward to the north. The western fringes of the stand has a strange mix of upland and lowland characteristics that bleed in to stand 19 to the west. Hummocky leatherleaf in the north with quaking aspen.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Red Maple		10	Sapling/Pole	4	36	Sugar Maple		
Quaking Aspen		28	Pole/Sapling	6	36	Witch Hazel		
Bigtooth Aspen		47	Pole/Sapling	6	36	Red Oak		
Red Oak		7	Pole/Sap/Log	7		Balsam Fir		
Balsam Fir		2	Pole/Sapling	5		White Pine		
Red Pine		1	Sapling	4		Leatherleaf		
White Pine		1	Pole/Sapling	5				
Choke Cherry		1	Pole/Sapling	6				
Paper Birch		3	Pole/Sapling	5				
19	4130 - Aspen	Sapling Well	47.9	27	1-50	N/A		High variability across the stand. The northern arm of the stand contains more conifer than elsewhere. White pine were about 60 and red pine about 100, some with large fire scars. A possible double plow line in the area with pine.
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Red Maple		10	Sapling	3		Alder		
Red Oak		4	Pole/Sapling	6		Balsam Fir		
Quaking Aspen		30	Sapling/Pole	4	27	Choke Cherry		
White Pine		5	Log/Pole/Sap	12	63	Serviceberry (Juneberry)		
Red Pine		6	XLog/Log/Pole	18	100	Red Maple		
Balsam Poplar		2	Sapling/Pole	4		White Pine		
Bigtooth Aspen		39	Pole/Sapling	5	27	Red Pine		
White Spruce		1	Pole	7				
Choke Cherry		1	Sapling/Pole	4				
Paper Birch		2	Sapling	3				
20	4130 - Aspen	Sapling Well	12.1	16	201+	N/A		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Red Oak		4	Sapling	3		Autumn Olive		
Quaking Aspen		12	Sapling	3	16	Dogwood (spp.)		
Bigtooth Aspen		79	Sapling	4	16	Blackberry/Raspberry		
Balsam Fir		3	Sapling	3		Witch Hazel		
Black Cherry		1	Pole/Sapling	5		Balsam Fir		
Ironwood		1	Sapling	3		Choke Cherry		
						Red Maple		



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22	4130 - Aspen	Sapling Well	8.8	27	Immature	N/A	Highly variable site quality across the stand. Sizes range from saplings to poles already.																																																																			
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23	622 - Lowland Shrub	Nonstocked	1.1		Unspecified	No	Connects to emergent wetland to the east through the aspen.																																																																			
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24	4199 - Other Mixed Upland Deciduous	Sawtimber Well	8.1	75	51-80	N/A	A difficult stand to comprehend, probably as a result of past species cuts/thinnings such as "cut all aspen, red maple and oak marked to cut". The sapling understory is approaching merchantability.																																																																			
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25	623 - Emergent Wetland	Nonstocked	10.9		Unspecified	No																																																																				
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27	4139 - Aspen, Mixed Deciduous	Poletimber Well	112.5	50	111-140	N/A	Ridges tend toward more red oak, seems more xeric. A good portion of the eastern stand margin, just below the ridge, contains an area that likely has a high water table.																																																																													
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28	4136 - Aspen, Mixed Conifer	Poletimber Well	16.0	50	81-110	N/A	Sort of a low spot next to the bog: hummocky. RM shows heavy browse. Quaking aspen in lowest spots shows conk. The trail that bisects the stand seems like it's probably wet part of the year. High water table?																																																																													
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29	6224 - Treed Bog	Nonstocked	2.3		Unspecified	No																																																																														
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30	622 - Lowland Shrub	Nonstocked	13.8		Unspecified	No	Dense brush grading into emergent lowland grasses on the boundary with the beaver pond.																																																																													
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31	500 - Water	Nonstocked	2.6		Unspecified	No	Looks like a beaver pond from the edge.																																																																													
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																																							
33	4130 - Aspen	Sapling Well	105.0	5	Immature	N/A	Scattered residual, chiefly of white and red pine in clumps throughout the stand. Otherwise the stand is fully stocked with aspen and associates throughout.																																																																							
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34	4319 - Mixed Upland Forest	Poletimber Well	14.7	55	111-140	N/A	Western edge along recent aspen clearcut is dry and dominated by big tooth aspen. This slowly grades into something more like lowland popple. These lowland areas are especially reminiscent of an spruce bud worm sanitization stand. Generally clear understory and gently rolling. A dense cedar fringe leads to lowland brush in the east. The cedar and big tooth aspen both seem in good health. Perhaps the digitated margins are related to pitted outwash land forms. This lowland fringe is particularly attractive.																																																																							
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36	4130 - Aspen	Sapling Well	9.6	28	1-50	N/A	Heavy browse to red maple.																																																																							
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37	4311 - Pine, Aspen Mix	Sawtimber Well	18.2	48	81-110	N/A	The northern portion is a low spot under which may drain the bog to the north. Very heavy browse to maple. The stand becomes poorer and drier to the south.																																																																							
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38	122 - Road/Parking Lot	Nonstocked	0.9	0	Unspecified	No	Werth Road. Ground cover: bituminous macadam.																																																																							



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39	4311 - Pine, Aspen Mix	Sawtimber Well	7.5	50	51-80	N/A	Red maple shows heave understory browse. This stand is situated on one of those strange flats where one wonders just how close the water table is.																																																								
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40	42111 - Planted Red Pine, Mixed Deciduous	Sawtimber Well	36.6	61	111-140	N/A	An unthinned portion of the plantation in the south is overtopped by aspen. Along the north private/state boundary, there's a strip of log size red pine originally planted by the neighboring property owner years ago. It is probable that there is also a gate trespass just north of the trail that separates this strip and the pine plantation to the south. The location of the found DNR monument supports that a portion of the red pine strip is on state land. The best quality and growth of red pine are in the northern reaches of the plantation. The stand contains numerous areas with significant deciduous patches. Hold at least another 10 years... 13 QD points reveal the current BA is about 126 sq. ft.																																																								
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41	4123 - Red Oak	Sawtimber Poor	30.1	86	1-50	N/A	Scattered oak overstory. Surmise about 30 BA. Browse heaviest on stand margins or areas that seem more densely shaded. Very few oak recruit as stump sprouts, only a handful noted near the turn circle in NE. Rest of oak stumps either browsed completely or never sprouted. A few odd wet patches in the East. Failure for oak but according to regen requirements, at least moderate stocking aspen and maple. So this is a success...																																																								
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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43 3102 - Grass Nonstocked 5.6 Unspecified No

Sub-Canopy Species	Density	Avg. Height	Size
White Pine	Low	Variable	Sapling
Red Pine	Low	>20 feet	Log
Blackberry/Raspberry	Medium	< 5 feet	Tall Shrub
Bigtooth Aspen	Low	>20 feet	Pole
Rye (annual)	Medium	Unspecified	Non-Wood
Mixed Grasses	High	Unspecified	Non-Wood

South end of the stand seems to have a plow line. The aspen are top killed (few sprouts), fire charred bark on log-sized red maple. Was it an escaped burn? A wild fire? Result seems to have released some clumps of white pine.

44 6130 - Fir, Aspen, Maple Sawtimber Well 17.1 100 81-110 N/A

Canopy Species	% Cover	Size Class	DBH	Age
Balsam Poplar	15	Pole/Log	9	
Balsam Fir	19	Pole	6	
White Spruce	29	Log/Pole	11	100
Red Maple	10	Pole	7	
Bigtooth Aspen	4	Log/Pole	10	
Paper Birch	5	Pole	6	
Quaking Aspen	18	Log/Pole	12	

Sub-Canopy Species	Density	Avg. Height	Size
Tag Alder	Medium	10 - 20 feet	Tall Shrub
Balsam Fir	High	Variable	Sapling
Red Maple	High	Variable	Sapling

Only the fringes of this stand would be operable. Once interior, standing water is evident. Decadent 90-100 year old Quaking aspen is falling out of the stand, releasing mostly fir. Black ash has died out. There's a good amount of wind throw on the southern boundary.

45 6129 - Mixed Coniferous Lowland Forest Poletimber Well 25.8 110 111-140 N/A

Canopy Species	% Cover	Size Class	DBH	Age
Balsam Fir	19	Pole	6	
Northern White Cedar	37	Pole/Log/Sap	9	110
Red Maple	8	Pole/Log/Sap	7	59
Black Spruce	11	Pole/Log	8	80
Black Cherry	1	Sapling	4	
Quaking Aspen	6	Pole	8	
Paper Birch	1	Pole	6	
White Pine	12	Log/XLog/Pole	16	
Red Pine	3	Log/XLog	13	
White Spruce	1	Log	14	

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

Generally very wet. Roots over muck. Becomes wetter and poorer the farther south one travels. A few tamerack mix in toward the south. In the north center, a stringer of red maple and quaking aspen may be found.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																												
47	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Well	9.3	60	81-110	N/A	Yeah... It's way too wet. Standing water in about 80% of the stand. The ridge is dry but ends in "too wet" on either side. Neglected to core a balsam. Estimated they're probably about 60. I did age spruce which probably dates the stand's initiation at close to 100 years ago. Red pine on the ridge are almost certainly around 100.																																																												
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48	6224 - Treed Bog	Nonstocked	1.9	0	Unspecified	No	A patch of treed black spruce bog that terminates in muskeg in the north.																																																												
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Spotted Knapweed	Full	Unspecified	Non-Wood																																																																
Reed Canary Grass	Low	Unspecified	Non-Wood																																																																
Sweet Fern	Medium	< 5 feet	Tall Shrub																																																																
Balsam Fir	Low	5 - 10 feet	Sapling																																																																
White Pine	Low	Variable	Sapling																																																																



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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53 3104 - Degraded Nonstocked 1.0 0 Unspecified Aspen and pine encroaching. Old well in the middle.

Sub-Canopy Species	Density	Avg. Height	Size
Mixed Grasses	Medium	5 - 10 feet	Non-Wood
Spotted Knapweed	High	Unspecified	Non-Wood
Reed Canary Grass	Medium	Unspecified	Non-Wood
Autumn Olive	Trace	5 - 10 feet	Tall Shrub
White Pine	Low	5 - 10 feet	Sapling
Quaking Aspen	Low	10 - 20 feet	Sapling

54 3104 - Degraded Nonstocked 1.1 0 Unspecified

Sub-Canopy Species	Density	Avg. Height	Size
Reed Canary Grass	Medium	Unspecified	Non-Wood
Blackberry/Raspberry	Low	< 5 feet	Tall Shrub
Spotted Knapweed	High	Unspecified	Non-Wood
Sweet Fern	Low	< 5 feet	Tall Shrub

56 3102 - Grass Nonstocked 1.8 Unspecified No Practicing ground for doughnuts and drifting.

Sub-Canopy Species	Density	Avg. Height	Size
Mixed Grasses	High	Unspecified	Non-Wood
Spotted Knapweed	Medium	Unspecified	Non-Wood
Aspen (spp.)	Low	< 5 feet	Seeding
Balsam Fir	Low	Variable	Sapling
White Pine	Low	Variable	Sapling

57 6120 - Lowland Cedar Poletimber Well 10.5 109 141-170 N/A

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	2	Pole	6	
Paper Birch	7	Pole/Sapling	5	
Quaking Aspen	6	Log/Pole	10	
Balsam Fir	2	Pole	7	
White Spruce	2	Log	10	
Northern White Cedar	60	Pole/Log/Sap	7	109
Hemlock	7	Pole/Log	9	
Black Spruce	8	Pole	7	
Tamarack	3	Pole	7	
White Pine	2	Log/Pole	14	
Red Pine	1	Log	15	

Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	Medium	5 - 10 feet	Sapling
Hemlock	Low	10 - 20 feet	Sapling

One productive upland near Werth Road. The stand basically falls off into wetland soon thereafter and nearly encircles stand 6 with productive cedar lowland. In general, a 100-200 feet deeper brings one to a new stand, non-productive cedar swamp. Failed berm at the exit to Werth Road.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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58	4136 - Aspen, Mixed Conifer	Poletimber Well	15.9	54	81-110	N/A	Seems 50/50 wet/dry. North end becomes increasingly wet and takes on something of a lowland hardwood stand in drainage connecting the lowland brush to the west and the emergent wetland to the east. Once out of these red maple dominated areas, the quaking aspen's in the majority. Quaking in many places is showing conk.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Quaking Aspen		45	Pole	9	54	Alder		Low	5 - 10 feet	Tall Shrub	
Red Maple		10	Pole	8		Ironwood		Low	Variable	Sapling	
Red Oak		5	Log/XLog	14		Serviceberry (Juneberry)		Low	Variable	Tall Shrub	
White Pine		13	Log/Pole/XLog	14		Hazelnut (Spp.)		Low	5 - 10 feet	Tall Shrub	
Paper Birch		7	Pole	7		Leatherleaf		Trace	< 5 feet	Tall Shrub	
Bigtooth Aspen		3	Log/Pole	11							
White Spruce		7	Pole/Log	8							
Balsam Fir		3	Pole	7							
Red Pine		6	Log/XLog	16							
Black Cherry		1	Pole	6							

60	3104 - Degraded	Nonstocked	1.1	0	Unspecified		
Sub-Canopy Species		Density	Avg. Height	Size			
Spotted Knapweed		High	Unspecified	Non-Wood			
Sweet Fern		Medium	< 5 feet	Tall Shrub			
Red Pine		Low	Variable	Sapling			
Autumn Olive		Trace	5 - 10 feet	Tall Shrub			

62	6129 - Mixed Coniferous Lowland Forest	Poletimber Well	11.3	109	81-110	N/A	A rather diverse stand in terms of land forms and species. In the south, natural red pine grows on sphagnum hummocks bedecked in leatherleaf. North of that, a drainage dominated by northern white cedar snakes its way northward. Even farther north, this drainage becomes even poorer with dense alder, tamarack and stunted cedar composing the stand. This drainage then connects with lowland brush adjacent to Werth Road. Some upland can be found in the northwest and adjacent to the upland opening. Even so, these have quite a bit of fir and swamp confers represented. Each of these would be difficult to break out into stands of their own. Since they're all mostly lowland types they'll exist as a single stand.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Red Maple		6	Pole/Sapling	6		Tag Alder		High	Variable	Tall Shrub	
Balsam Poplar		2	Pole	5		Balsam Fir		High	Variable	Sapling	
Northern White Cedar		30	Pole/Log/Sap	8	109	Red Oak		Trace	Variable	Sapling	
Tamarack		8	Pole	7		Leatherleaf		High	< 5 feet	Tall Shrub	
Quaking Aspen		4	Pole/Log	8		Red Maple		Medium	Variable	Sapling	
Balsam Fir		14	Pole/Sapling	5							
Hemlock		1	Log/Pole	11							
Red Oak		2	Log/XLog	17							
White Pine		10	Log/XLog	14							
Paper Birch		4	Pole	5							
Bigtooth Aspen		1	Pole	7							
Red Pine		17	Log/XLog/Pole	15	60						