



Compartment Review Presentation

Escanaba Forest Management Unit

Compartment 33007

Entry Year: 2027

Acreage: 632

County: Menominee

Management Area: Menominee-Marquette

Stand Examiner: Dustin Salter

Legal Description:

T37N R28W Sections 9 and 10

Identified Planning Goals:

This compartment is an equal mix of upland and lowland. The upland areas are predominantly aspen, spruce, and balsam fir. The Spruce Budworm has been present and active for over a decade in this compartment and area. The majority of the white spruce and balsam fir has been harvested, but the younger and sub-merchantable stems are dying. The lowland areas of the stand are a mix of tamarack, spruce, and low quality cedar. The lowland conifer stands that have been harvested over the past fifteen years are regenerating well with a mix of lowland conifer species. There are six stands prescribed for treatment. There are four aspen stands that will be clearcut to allow them to regenerate with aspen. A mixed deciduous and a white pine stand are all prescribed for shelterwood harvests. Both of these stands are very small. These stands will regenerate with a mix of pine, oak, and aspen.

Soil and topography:

Some of the soil map units within this compartment are: Lupton-Tawas association, Pemene-Nadeau complex, and Pemene Fine Sandy Loam. The soils vary greatly throughout the compartment. In the swamp conifer stands there is black muck over sand, which is poorly drained and nearly level. The upland sites vary a little, but most of them have loamy fine sand over gravelly sand. These sites have undulating and gently rolling slopes.

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

This compartment is on the north end of a block of state land that is approximately 7 miles wide and 20 miles long. This block of land has very broken up ownership. The majority of the non-state ownership is owned by private individuals. There is little to no development in or around this compartment and the only development are cabins, houses, and a campground along the Menominee River. This compartment is about three-quarters of a mile from the Menominee River. The land is primarily used for recreation: hunting, fishing, trapping, and camping.

Unique Natural Features:

None Known

Archeological, Historical, and Cultural Features:

None Known

Special Management Designations or Considerations:

None

Watershed and Fisheries Considerations:

Pemene Creek flows through the eastern half of the compartment and is a Designated Type 1 Trout Stream and cold transitional stream, less than 50 feet wide and has a predicted mean July water temperature of 66F (cold stream). A 300' buffer is recommended for Hunters Brook in riparian areas susceptible to Aspen regeneration. For areas not susceptible to Aspen regeneration, a minimum 100 feet, plus 5 feet per 1% increase in slope, riparian management zone is recommended to protect riparian areas in accordance with Best Management Practices. There are also wetland areas within this compartment (<https://www.mcgi.state.mi.us/wetlands/mcgiMap.html#>) If any treatments are near a wetland area, best management practices should be incorporated which include a 100' buffer.

Wildlife Habitat Considerations:

Much of this small compartment is now comprised of sapling aspen and lowland conifer forest, along with some white pine and balsam fir. Timber harvest treatments will focus on salvage of trees currently affected with spruce budworm and eastern larch beetle. A large mixed lowland conifer stand will be clearcut while retaining the dense pockets of cedar for wildlife values. Three upland conifer stands will be harvested to salvage spruce and fir. These treatments will create younger age classes of lowland conifer in areas where regeneration is likely. Pemene Creek will be protected by the designation of "special conservation area" stands along its bank. This designation will allow the development of some larger-sized trees, cavities and dens for wildlife, snags, and woody debris on the forest floor.

Mineral Resource and Development Concerns and/or Restrictions

No known potential exists for commercial oil & gas production in this part of the state. No active sand & gravel operations are known to exist in the vicinity, aside from a quarry across the border in Wisconsin a few miles northwest. The compartment is mostly low wetlands, but there may be some limited potential for sand & gravel development on the upland drumlins. The compartment, however, might be too far from populated areas (markets) for any aggregate resources present to have much value beyond use by the county road commission or DNR for local road maintenance. There has been past metallic mineral exploration in the area including core drilling and remote geophysical surveys, but no known test drilling has occurred within the compartment, and evidence from geophysical data does not indicate significant potential for metallic mineral targets beneath the compartment. There are no active mineral leases involving State-owned mineral rights within several miles.

Vehicle Access:

The majority of the compartment is easily accessible. The Houe's Spur road, runs from County Road 577 on the east side through the compartment and out to North State Road which is southwest of the compartment. The North State Road is also a county road. There are other two track roads that branch off of the Houe's Spur road that provide access to the eastern two-thirds of the compartment. The western third of the compartment is accessed off of two tracks branching off from the North State Road.

Survey Needs:

No registered corners will need to be set.

Recreational Facilities and Opportunities:

There are no developed facilities within this compartment. The major uses of this area are hunting, fishing, camping, trapping, and ORV riding.

Fire Protection:

Portions of this compartment have a high potential for a large fire. This is caused from the dying and dead balsam and spruce, due to the spruce budworm, scattered throughout the compartment. There are also large lowland conifer swamps that have little to no danger of fire. Water can be obtained from Pemene Creek that flows through the compartment.

Additional Compartment Information:

The following reports from the Inventory are attached:

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

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

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

Cover Type & Treatments Map

Compartment: 33007
T37N R28W Sections 9 and 10
County: Menominee
Unit: Escanaba
Mgmt. Area: Menominee-Marquette
YOE: 2027
Acres: 632 GIS Calculated
Examiner: Dustin Salter
Date Exported: 08/28/2025
Map Phase: Web Post



0 0.5 1 Miles

Survey Grade Corners

Berms

Bridges

DNR - Primary Forest Road

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

Perennial River

Lakes and Rivers

Counties

Compartment Boundary

Clearcut

Shelterwood

411 - Northern Hardwood

413 - Aspen

419 - Mixed Upland Deciduous

422 - Natural Pines

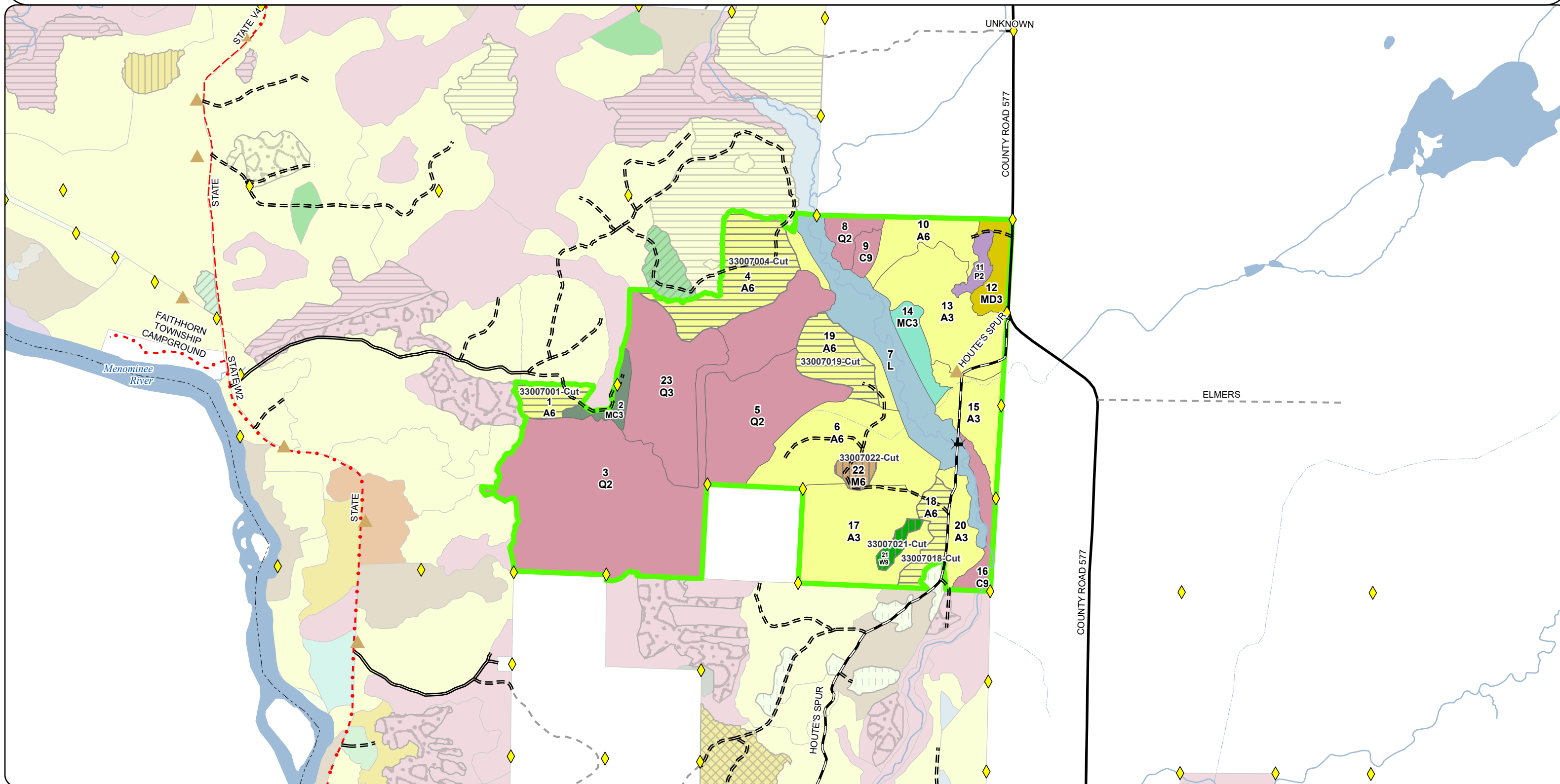
423 - Other Upland Conifers

429 - Mixed Upland Conifers

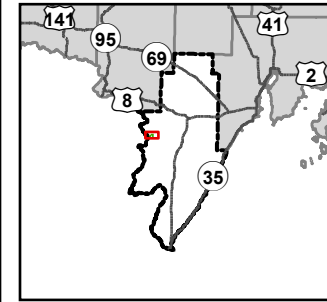
611 - Lowland Deciduous Forest

612 - Lowland Coniferous Forest

622 - Lowland Shrub



Stand Boundary Map



Compartment: 33007
T37N R28W Sections 9 and 10
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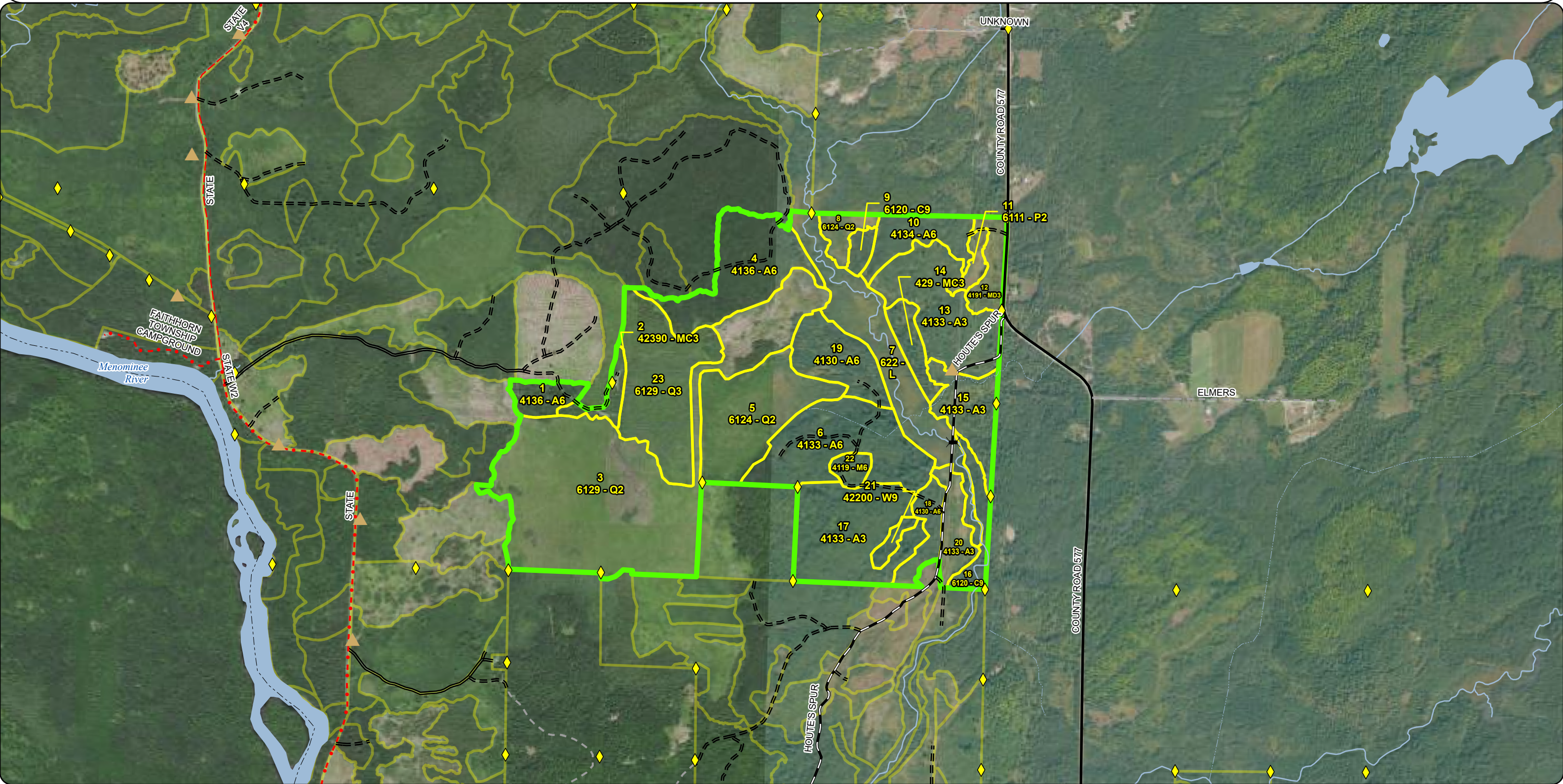
- Survey Grade Corners
- Berms
- Bridges
- DNR - Primary Forest Road
- DNR - Secondary Forest Road
- DNR - Forest Access Route

- Federal / State / County - Paved Road
- County - Gravel Road
- County - Dirt Road (Seasonal)
- Private - Dirt / Gravel Road
- Intermittent Stream
- Perennial River

- Lakes and Rivers
- Counties
- Compartment Boundary
- 411 - Northern Hardwood
- 413 - Aspen
- 419 - Mixed Upland Deciduous

- 422 - Natural Pines
- 423 - Other Upland Conifers
- 429 - Mixed Upland Conifers
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 622 - Lowland Shrub

0 0.5 1 Miles



Special Conservation Areas & Site Conditions Map

Compartment: 33007
T37N R28W Sections 9 and 10
County: Menominee
Unit: Escanaba
Mgmt. Area: Menominee-Marquette
YOE: 2027
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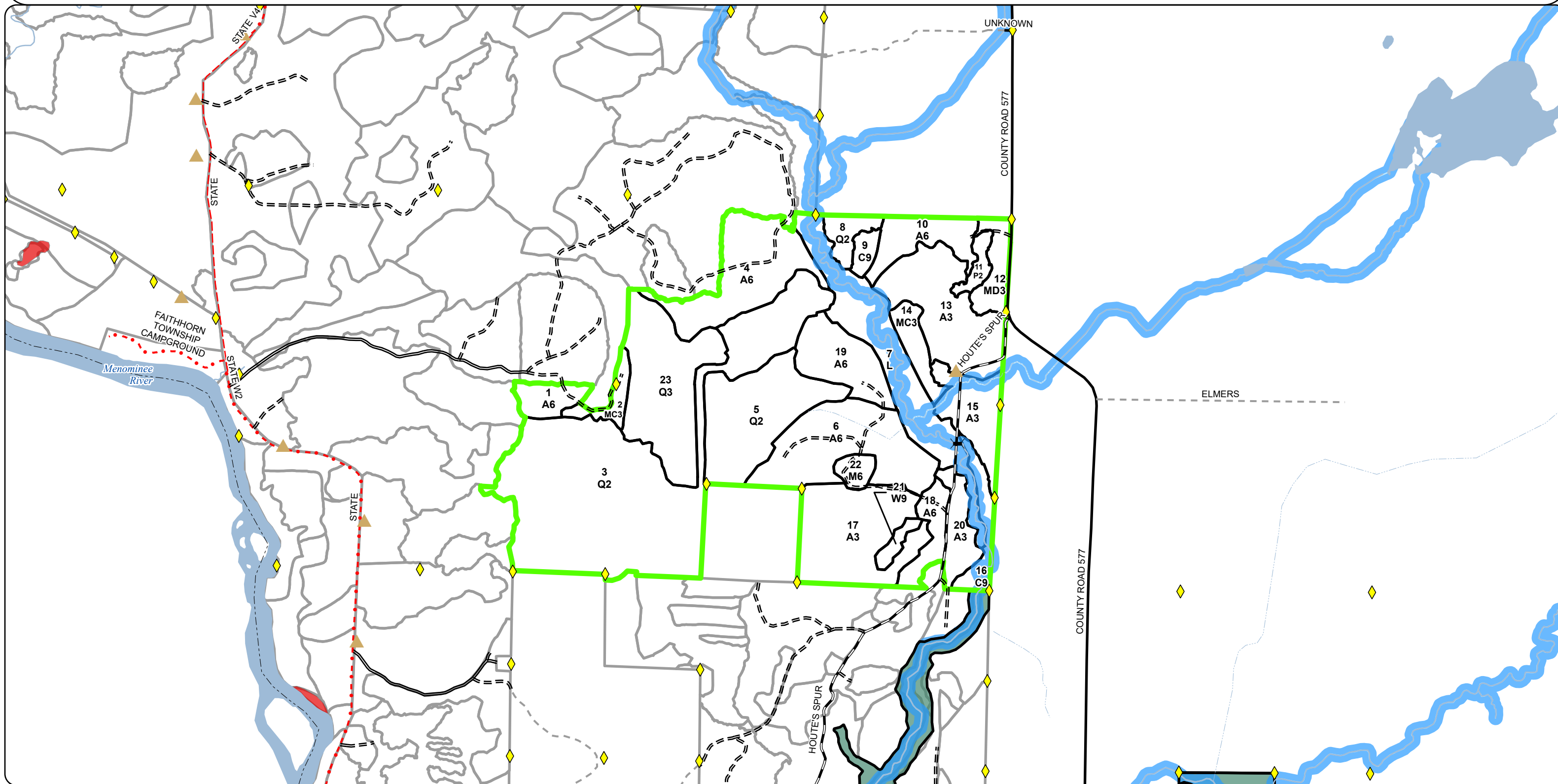


0 0.5 1 Miles

- Survey Grade Corners
- Berms
- Bridges
- DNR - Primary Forest Road
- 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
- Perennial River
- Lakes and Rivers
- Counties
- Compartment Boundary

- Stand Boundaries
- Ecological Reference Areas
- SCA
- Cold Water Streams
- High Priority Trout Stream Buffer
- Vernal Pool



Report 1 – Total Acres by Cover Type and Age Class

Compartment 7

Year of Entry 2027



Age Class

	Non-Forest	0-9	10-19	20-29	30-39	40-49	50-59	60-69	70-79	80-89	90-99	100-109	110-119	120-129	130-139	140-149	150+	Uneven-Aged	Total
Aspen	0	34	42	48	89	51	11	0	0	0	0	0	0	0	0	0	0	0	275
Cedar	0	0	0	0	0	0	0	0	0	0	0	0	0	15	0	0	0	0	15
Lowland Aspen/Balsam Poplar	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5
Lowland Conifers	0	157	98	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	255
Lowland Shrub	47	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	47
Mixed Upland Deciduous	0	11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	11
Northern Hardwood	0	0	0	0	0	0	0	0	0	0	0	5	0	0	0	0	0	0	5
Upland Conifers	0	0	0	10	7	0	0	0	0	0	0	0	0	0	0	0	0	0	17
White Pine	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	0	0	0	4
Total	47	207	140	58	96	51	11	0	0	0	0	5	0	15	4	0	0	0	634



Report 2 – Treatment Summary

Escanaba Mgt. Unit
Year of Entry: 2027

Acres of Harvest

Compartment 7
Total Compartment Acres: 632

Commercial Harvest - 172
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	78	0	0	0	0	0	0	0	0	78
Northern Hardwood	0	0	0	0	5	0	0	0	0	5
White Pine	0	0	0	0	4	0	0	0	0	4
Total	78	0	0	0	9	0	0	0	0	86

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	86	0	0	0	0	0	0	0	0	86
Next Step	0	0	0	0	0	0	86	0	0	86
Total	86	0	0	0	0	0	86	0	0	173



Standard

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

1	33007001-Cut	9.4	4136 - Aspen, Mixed Conifer	6	47	51-80	Harvest	Clearcut	413 - Aspen	Planting Record	No
<u>Prescription</u> Cut all trees greater than three (3) inches at DBH, except retain all pine. <u>Specs:</u> <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u> <u>Acceptable</u> Aspen, balm, pine, and spruce/fir. <u>Regen:</u> <u>Other</u> Mature fully stocked aspen stand with a lowland strip running through the center of the stand. There are some older residual pine within the stand. The spruce budworm is present and causing defoliation. This stand is ready to be regenerated, clearcutti <u>Comment:</u> <u>Site Condition:</u> <u>Proposed Start Date:</u> 10/01/2026											
4	33007004-Cut	37.8	4136 - Aspen, Mixed Conifer	6	45	81-110	Harvest	Clearcut	413 - Aspen	Planting Record	No
<u>Prescription</u> Cut all trees greater than three (3) inches at DBH, except retain all pine. A 300' buffer strip is being retained along the east edge to provide a forested corridor along the Pemene Creek, for wildlife, possible wood turtle habitat, and fisheries concerns <u>Specs:</u> <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u> <u>Acceptable</u> Aspen, pine, and spruce/fir. <u>Regen:</u> <u>Other</u> Mature moderate quality aspen stand that is ready to be harvested. The aspen will sprout following the harvest and some pine and spruce/fir will then seed in. <u>Comment:</u> <u>Site Condition:</u> <u>Proposed Start Date:</u> 10/01/2026											
18	33007018-Cut	11.1	4130 - Aspen	6	51	81-110	Harvest	Clearcut	413 - Aspen	Planting Record	No
<u>Prescription</u> Cut all trees greater than three (3) inches at DBH, except mark some pine to retain. Also, retain 3% of the stand in retention patches that are centered on areas with dense conifer regeneration. <u>Specs:</u> <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u> <u>Acceptable</u> Aspen and pine. <u>Regen:</u> <u>Other</u> Mature good quality aspen stand with a dense understory of white pine saplings. This aspen is mature and ready to harvest. The aspen will sprout back following the harvest. <u>Comment:</u> <u>Site Condition:</u> <u>Proposed Start Date:</u> 10/01/2026											
19	33007019-Cut	19.3	4130 - Aspen	6	37	51-80	Harvest	Clearcut	413 - Aspen	Planting Record	No
<u>Prescription</u> Cut all trees greater than three (3) inches at DBH, except mark to retain some white and red pine. A buffer strip is being retained along the west edge to provide a forested corridor along the Pemene Creek, for wildlife and possible wood turtle habitat. <u>Specs:</u> <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u> <u>Acceptable</u> Aspen, balm, pine, and spruce/fir. <u>Regen:</u> <u>Other</u> Mature moderate to low quality aspen stand. The majority of this site grows lower quality aspen, due to sandy conditions. The aspen should be harvested now to maximize the sprouting of the aspen while there is enough vigor to do so. This stand should b <u>Comment:</u> <u>Site Condition:</u> <u>Proposed Start Date:</u> 10/01/2026											



Standard

Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
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21	33007021-Cut	3.7	42200 - Natural White Pine	9	131	81-110	Harvest	Shelterwood	42290 - Natural Mixed Pine	Cutting Record	No
<u>Prescription</u> Cut all trees greater than three (3) inches at DBH, except retain all hemlock. Mark 20 basal area of pine and hemlock to retain throughout the stand. In areas with advanced pine regeneration, open these gaps up more by not leaving pine around the perime <u>Specs:</u> <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u> <u>Acceptable Regen:</u> Pine, hemlock, birch, and maple. <u>Other Comment:</u> Stand was cut in 2003-04 on contract 046-02-01. The shorter lived species were harvested from this stand, with all of the pine and hemlock being retained. This stand is ready to be harvested to allow some pine to regenerate before the understory is too <u>Site Condition:</u> <u>Proposed Start Date:</u> 10/01/2026											
22	33007022-Cut	5.0	4119 - Mixed Northern Hardwoods	6	104	81-110	Harvest	Shelterwood	4319 - Mixed Upland Forest	Cutting Record	No
<u>Prescription</u> Cut all trees greater than three (3) inches at DBH, except mark to leave 20 basal area of pine, oak, and maple. <u>Specs:</u> <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u> <u>Acceptable Regen:</u> Pine, maple, oak, birch, and spruce/fir. <u>Other Comment:</u> Mature low quality hardwood stand, that is ready to be harvested. The spruce/fir, birch, aspen, and ash are dying out due to age and forest health concerns. Due to the low quality of the hardwood stems, this stand should be shelterwood harvested to open <u>Site Condition:</u> <u>Proposed Start Date:</u> 10/01/2026											

Total Treatment
Acreage Proposed: 86.3



Availability for Management

Total Acres Acres Available Acres With Condition Acres Not Available

Dominant Site Conditions

3J 5E

199	189	0	10	Aspen	2	8
15	4	0	10	Cedar	10	
1	0	0	1	Lowland Aspen/Balsam Poplar		1
255	255	0	0	Lowland Conifers		
47	47	0	0	Lowland Shrub		
11	11	0	0	Mixed Upland Deciduous		
5	5	0	0	Northern Hardwood		
16	17	0	0	Upland Conifers		
4	4	0	0	White Pine		
553	531		22	Total Forested Acres	13	9
	96%		4%	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	5E: Long-Term Retention	7	Unspecified	Unspecified	Unspecified	Unspecified	Unspecified
Comments: These areas are long term retention within the stand and provide for winter cover for wildlife.								
3	Unavailable	3J: Water quality/BMPs (stream, river, or lake)	10	Unspecified	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Buffer along Pemene Creek.								
4	Unavailable	5E: Long-Term Retention	4	3B: Threatened, endangered, and special concern species	3J: Water quality/BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
Comments: A 300' buffer strip is being retained along the east edge to provide a forested corridor along the Pemene Creek, for wildlife, possible wood turtle habitat, and fisheries concerns.								

Report 4 – Site Conditions



5	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments: 							
6	Unavailable	3J: Water quality/BMPs (stream, river, or lake)	2	5E: Long-Term Retention	Unspecified	Unspecified	Unspecified
Comments: A small drain/creek flows through this retention area and into the Pemene Creek.							
7	Unavailable	5E: Long-Term Retention	4	3B: Threatened, endangered, and special concern species	3J: Water quality/BMPs (stream, river, or lake)	Unspecified	Unspecified
Comments: A 300' buffer strip is being retained along the east edge to provide a forested corridor along the Pemene Creek, for wildlife, possible wood turtle habitat, and fisheries concerns.							

Mgt. Unit

Compartment: #Type!
Year of Entry:

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

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

SCA Name	SCA Category	Detail Type	Recommendation	Acres
Comments				



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																		
1	4136 - Aspen, Mixed Conifer	Poletimber Well	9.4	47	51-80	N/A	Mature fully stocked aspen stand with a lowland strip running through the center of the stand. There are some older residual pine within the stand. The spruce budworm is present and causing defoliation. This stand is ready to be regenerated, clearcutting this stand will allow the aspen and balm to sprout following the harvest. Pine and spruce/fir will seed in following the harvest as well.																																																		
<table><tr><th>Canopy Species</th><th>% Cover</th><th>Size Class</th><th>DBH</th><th>Age</th></tr><tr><td>White Pine</td><td>5</td><td></td><td>15</td><td>104</td></tr><tr><td>Quaking Aspen</td><td>70</td><td></td><td>8</td><td>47</td></tr><tr><td>Black Cherry</td><td>3</td><td>Sapling</td><td>6</td><td>47</td></tr><tr><td>Black Spruce</td><td>10</td><td>Sapling</td><td>6</td><td>47</td></tr><tr><td>Balsam Fir</td><td>5</td><td>Sapling</td><td>6</td><td>47</td></tr><tr><td>Tamarack</td><td>2</td><td>Sapling</td><td>6</td><td>47</td></tr><tr><td>Balsam Poplar</td><td>3</td><td>Sapling</td><td>7</td><td>47</td></tr><tr><td>Red Pine</td><td>2</td><td></td><td>14</td><td>104</td></tr></table>		Canopy Species	% Cover	Size Class	DBH	Age		White Pine	5		15	104	Quaking Aspen	70		8	47	Black Cherry	3	Sapling	6	47	Black Spruce	10	Sapling	6	47	Balsam Fir	5	Sapling	6	47	Tamarack	2	Sapling	6	47	Balsam Poplar	3	Sapling	7	47	Red Pine	2		14	104	<table><tr><th>Sub-Canopy Species</th><th>Density</th><th>Avg. Height</th><th>Size</th></tr><tr><td>Tag Alder</td><td>Low</td><td>5 - 10 feet</td><td>5 - 10 feet</td></tr></table>		Sub-Canopy Species	Density	Avg. Height	Size	Tag Alder	Low	5 - 10 feet	5 - 10 feet
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2	42390 - Mixed Non-Pine Upland Conifers	Sapling Well	6.8	36	1-50	N/A	Fully stocked stand that is about 60% upland. The upland areas have pine and balsam fir growing and in the lowland areas, black spruce and tamarack are growing there. This stand was clearcut in 1989 on contract 33-86-01; except some residual mature pine was left.																																																		
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Black Cherry	Low	5 - 10 feet	5 - 10 feet																																																						
3	6129 - Mixed Coniferous Lowland Forest	Sapling Medium	149.5	5	Immature	N/A	Stand was clearcut between 2019 and 2022 on contract 040-17-01. There were seven retention patches retained, along with some scattered seed trees. This stand is regenerating very well with tamarack and black spruce, it is about 60% stocked at this time. The stand will continue to regenerate and it should be fully stocked by the next inventory cycle.																																																		
<table><tr><th>Canopy Species</th><th>% Cover</th><th>Size Class</th><th>DBH</th><th>Age</th></tr><tr><td>White Pine</td><td>5</td><td>Log</td><td>1</td><td>5</td></tr><tr><td>Balsam Fir</td><td>5</td><td>Log</td><td>1</td><td>5</td></tr><tr><td>Balsam Poplar</td><td>5</td><td>Log</td><td>1</td><td>5</td></tr><tr><td>Tamarack</td><td>45</td><td>Log</td><td>1</td><td>5</td></tr><tr><td>Black Spruce</td><td>30</td><td>Log</td><td>1</td><td>5</td></tr><tr><td>Northern White Cedar</td><td>10</td><td></td><td>9</td><td>126</td></tr></table>		Canopy Species	% Cover	Size Class	DBH	Age		White Pine	5	Log	1	5	Balsam Fir	5	Log	1	5	Balsam Poplar	5	Log	1	5	Tamarack	45	Log	1	5	Black Spruce	30	Log	1	5	Northern White Cedar	10		9	126	<table><tr><th>Sub-Canopy Species</th><th>Density</th><th>Avg. Height</th><th>Size</th></tr><tr><td>Tag Alder</td><td>Medium</td><td>5 - 10 feet</td><td>5 - 10 feet</td></tr></table>		Sub-Canopy Species	Density	Avg. Height	Size	Tag Alder	Medium	5 - 10 feet	5 - 10 feet										
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4	4136 - Aspen, Mixed Conifer	Poletimber Well	41.4	45	81-110	N/A	Mature moderate quality aspen stand that is ready to be harvested. The aspen will sprout following the harvest and some pine and spruce/fir will then seed in.																																																		
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																		
5	6124 - Lowland Spruce-Fir	Sapling Medium	46.2	15	Immature	N/A	This stand was clearcut in the winter of 2009-10 on contract 028-07-01. There were seed tree clumps left throughout the stand. This stand has regenerated well with tamarack and black spruce, except in the center of the stand where it is lower and wetter. The stand should be fully stocked by the next inventory cycle.																																																		
<table><tr><th>Canopy Species</th><th>% Cover</th><th>Size Class</th><th>DBH</th><th>Age</th></tr><tr><td>Tamarack</td><td>40</td><td>Log</td><td>1</td><td>15</td></tr><tr><td>Balsam Fir</td><td>10</td><td>Log</td><td>1</td><td>15</td></tr><tr><td>Black Spruce</td><td>40</td><td>Log</td><td>1</td><td>15</td></tr><tr><td>White Pine</td><td>10</td><td>Log</td><td>1</td><td>15</td></tr></table>		Canopy Species	% Cover	Size Class	DBH	Age		Tamarack	40	Log	1	15	Balsam Fir	10	Log	1	15	Black Spruce	40	Log	1	15	White Pine	10	Log	1	15	<table><tr><th>Sub-Canopy Species</th><th>Density</th><th>Avg. Height</th><th>Size</th></tr><tr><td>Red Osier Dogwood</td><td>Medium</td><td>5 - 10 feet</td><td>5 - 10 feet</td></tr><tr><td>Tag Alder</td><td>High</td><td>5 - 10 feet</td><td>5 - 10 feet</td></tr></table>				Sub-Canopy Species	Density	Avg. Height	Size	Red Osier Dogwood	Medium	5 - 10 feet	5 - 10 feet	Tag Alder	High	5 - 10 feet	5 - 10 feet														
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6	4133 - Aspen, Mixed Pine	Poletimber Well	48.2	37	51-80	N/A	Good quality aspen stand with some pockets of mature pine and oak mixed in. This stand will be ready for harvest next entry period. This stand was clearcut between 1986 and 1990 on contract 022-86-01; except some pine and oak were retained.																																																		
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7	622 - Lowland Shrub	None	47.0			No	Pemene Creek flows through this stand. This stand is the floodplain of the creek and is a mix of lowland shrub, cattails, and grasses.																																																		
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8	6124 - Lowland Spruce-Fir	Sapling Medium	7.6	8	Immature	N/A	Stand was clearcut in 2018 on contract 040-17-01. Some seed trees were retained. This stand is about 60% stocked, with mostly conifer seedlings, except the northeast corner has balm regeneration. This stand should be fully stocked by the next inventory cycle. This stand has a dense understory of tag alder.																																																		
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9	6120 - Lowland Cedar	Sawtimber Well	4.4	126	201+	N/A	Stand was thinned in 1993-94 on contract 018-92-01. In 2005 the growth rate of the residual cedar had increased by 50% following the thinning. In 2015 growth rates have doubled since the thinning. Due to the age of the stand most of the other species, then cedar have died out due to age. The stand has a dense understory of black spruce seedlings.																																																		
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10	4134 - Aspen, Spruce/Fir	Poletimber Well	17.4	38	51-80	N/A	Fully stocked moderate quality aspen stand, that will be ready to be harvested next inventory cycle. The spruce/fir are dying out of the stand, due to the spruce budworm. This stand was clearcut in 1987 on contract 026-86-01.																																												
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11	6111 - Lowland Balsam Poplar	Sapling Medium	4.9	7	Immature	N/A	Stand was clearcut in 2018 on contract 33-040-17. There is a small bog on the north end that was buffered and there was a dense patch of cedar retained along the eastern edge of the stand. The deer have heavily browsed the ash stump sprouts. The stand has dense balm regeneration around the perimeter. The center of the stand is lower and wetter and has less regeneration. Conifers are seeding into this area. It should be fully regenerated by the next inventory cycle.																																												
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12	4191 - Mixed Upland Deciduous with Conifer	Sapling Well	11.3	7	Immature	N/A	Stand had the overstory removed in 2018 on contract 33-040-17. Some pine and cedar seed trees were retained. The stand was shelterwood cut in 1993-94 on contract 018-92-01. This stand is nearly fully regenerated with a mix of aspen, balm and a mix of conifers. Some of the regeneration is from the treatment 30 years ago.																																												
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13	4133 - Aspen, Mixed Pine	Sapling Well	41.7	17	Immature	N/A	Moderate quality fully stocked aspen stand, with the more open areas filling in with black cherry and conifers. This stand was clearcut in 2008 on contract 027-07-01; except some pine and cedar were retained.																																												
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Tag Alder	Low	5 - 10 feet	5 - 10 feet																																																



14

429 - Mixed Upland Conifers

Sapling Well

9.7

28

1-50

N/A

Canopy Species	% Cover	Size Class	DBH	Age
Black Cherry	10	Log	1	17
Quaking Aspen	2	Log	2	17
Balsam Poplar	3	Pole	4	28
White Pine	18		17	104
Red Pine	2		16	104
Northern White Cedar	10		9	104
White Spruce	15	Pole	2	28
Balsam Fir	10	Log	2	28
White Pine	30	Pole	3	28

Sub-Canopy Species	Density	Avg. Height	Size
Tag Alder	Low	5 - 10 feet	5 - 10 feet

Stand was thinned in 1992, than again in 1997, than a shelterwood cut was done in 2008 on contract 027-07-01. About 30 BA of pine was retained. This stand is now fully stocked, with the north and south ends having more aspen and balm and the center of the stand has dense conifer regeneration. The regeneration is a mix of age classes between 17 and 33.

15

4133 - Aspen, Mixed Pine

Sapling Well

20.6

7

1-50

N/A

Canopy Species	% Cover	Size Class	DBH	Age
Black Cherry	5	Log	1	7
Quaking Aspen	60	Log	1	7
Black Spruce	5	Log	1	7
White Pine	5		16	126
Northern White Cedar	5		10	126
White Pine	15	Pole	3	32
Balsam Poplar	3	Log	1	7
Tamarack	2	Log	1	7

Sub-Canopy Species	Density	Avg. Height	Size
Tag Alder	Low	5 - 10 feet	5 - 10 feet

Fully stocked stand with two age classes of aspen and white pine, due to the different harvests. Most of the aspen is from the sprouting from the last harvest and most of the white pine regeneration is from the previous harvest. This stand had the merchantable trees harvested in 2018 on contract 33-40-17. The cedar was retained, along with some pine seed trees. There is a small drain/creek that flows through this stand and into the Pemene Creek. The drain was buffered and retained. The stand was previously cut in 1993 on contract 18-92-01.

16

6120 - Lowland Cedar

Sawtimber Well

10.2

126

201+

N/A

Canopy Species	% Cover	Size Class	DBH	Age
Black Ash	5		8	126
Northern White Cedar	65		10	126
Black Spruce	15		9	126
Tamarack	15		9	126

Sub-Canopy Species	Density	Avg. Height	Size
White Pine	Full	< 5 feet	< 5 feet
Beech	Low	5 - 10 feet	5 - 10 feet
Balsam Fir	Low	< 5 feet	< 5 feet
Tag Alder	Low	5 - 10 feet	5 - 10 feet

Moderate to high quality cedar stand, that provides a buffer along Pemene Creek as well as a travel corridor. A large portion of species other than cedar have died out of the stand, due to the old age of the stand.

17

4133 - Aspen, Mixed Pine

Sapling Well

47.8

21

1-50

N/A

Canopy Species	% Cover	Size Class	DBH	Age
White Ash	2	Log	1	21
Bigtooth Aspen	25	Pole	4	21
Red Pine	5		16	131
Quaking Aspen	35	Pole	4	21
White Pine	3	Log	2	21
White Pine	15		16	131
Red Maple	5	Log	3	21
Red Oak	5		14	131
Balsam Fir	2	Log	2	21
White Spruce	3	Log	2	21

Two aged stand with mature pine and oak over a fully stocked understory of aspen saplings. This stand was cut in 2003-04 on contract 046-02-01. The pine and oak was retained.



18

4130 - Aspen

Poletimber Well

11.1

51

81-110

N/A

Mature good quality aspen stand with a dense understory of white pine saplings. This aspen is mature and ready to harvest. The aspen will sprout back following the harvest.

Canopy Species	% Cover	Size Class	DBH	Age
Balsam Fir	2	Sapling	7	51
White Pine	3		16	104
Quaking Aspen	90		8	51
White Spruce	3	Sapling	7	51
Red Pine	2		15	104

Sub-Canopy Species	Density	Avg. Height	Size
White Pine	High	>20 feet	>20 feet
Black Cherry	Low	10 - 20 feet	10 - 20 feet

19

4130 - Aspen

Poletimber Well

23.6

37

51-80

N/A

Mature moderate to low quality aspen stand. The majority of this site grows lower quality aspen, due to sandy conditions. The aspen should be harvested now to maximize the sprouting of the aspen while there is enough vigor to do so. This stand should be harvested to spread out the aspen age classes, with numerous aspen stands near 40 years old in the compartment.

Canopy Species	% Cover	Size Class	DBH	Age
Balsam Fir	5	Sapling	7	55
Black Cherry	3	Sapling	5	37
Balsam Poplar	14	Sapling	7	37
White Pine	3		9	104
White Spruce	10	Sapling	6	55
Quaking Aspen	65		7	37

Sub-Canopy Species	Density	Avg. Height	Size
Blackberry/Raspberry	Low	< 5 feet	< 5 feet
Tag Alder	Low	5 - 10 feet	5 - 10 feet

20

4133 - Aspen, Mixed Pine

Sapling Well

13.0

7

Immature

N/A

This stand was clearcut in 2018 on contract 33-040-17. Some pine and cedar seed trees were retained. Fully stocked stand with a mix of aspen, balm, and white pine. The white regeneration is a mix of ages between 7 and 25 years old. Some cedar regeneration present.

Canopy Species	% Cover	Size Class	DBH	Age
White Pine	25	Log	2	20
Tamarack	3	Log	1	7
Quaking Aspen	40	Log	1	7
White Spruce	5	Log	1	7
White Pine	2		16	104
Black Cherry	5	Log	1	7
Balsam Poplar	20	Log	1	7

Sub-Canopy Species	Density	Avg. Height	Size
Tag Alder	Medium	5 - 10 feet	5 - 10 feet
Red Osier Dogwood	Low	5 - 10 feet	5 - 10 feet
Northern White Cedar	Trace	< 5 feet	< 5 feet

21

42200 - Natural White Pine

Sawtimber Well

3.7

131

81-110

N/A

Stand was cut in 2003-04 on contract 046-02-01. The shorter lived species were harvested from this stand, with all of the pine and hemlock being retained. This stand is ready to be harvested to allow some pine to regenerate before the understory is too dense with spruce/fir and brush to allow for pine regeneration. This stand will be shelterwood cut, following the Natural Pine guidance. Which requires a minimum of 20 basal area of pine and hemlock to be retained.

Canopy Species	% Cover	Size Class	DBH	Age
Red Pine	5		15	131
Hemlock	10		12	131
White Pine	85		17	131

Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	Low	>20 feet	>20 feet
Witch Hazel	Low	5 - 10 feet	5 - 10 feet
Ironwood	Low	10 - 20 feet	10 - 20 feet
White Spruce	Medium	>20 feet	>20 feet
Quaking Aspen	Medium	>20 feet	>20 feet
White Pine	Medium	5 - 10 feet	5 - 10 feet



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