



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:

Compartment 33007 contains upland habitat types dominated by aspen, pine, and some limited hardwoods, as well as lowland habitat types dominated by lowland conifers. Pemene Creek and associated floodplains flow through this compartment. Aspen clearcuts and shelterwood treatments in white pine and hardwood stands planned during this year of entry will benefit featured species in this compartment that rely on open canopied habitats. These featured species include American Woodcock, White-tailed Deer, Wild Turkey, Black Bear, and Golden-winged Warbler.

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: 11/14/2025
Map Phase: Post Review



0 0.5 1 Miles

Survey Grade Corners



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

Streams

Lakes and Rivers

Compartment Boundary

Clearcut

Shelterwood

Treatments with Site Conditions

411 - Northern Hardwood

413 - Aspen

419 - Mixed Upland Deciduous

422 - Natural Pines

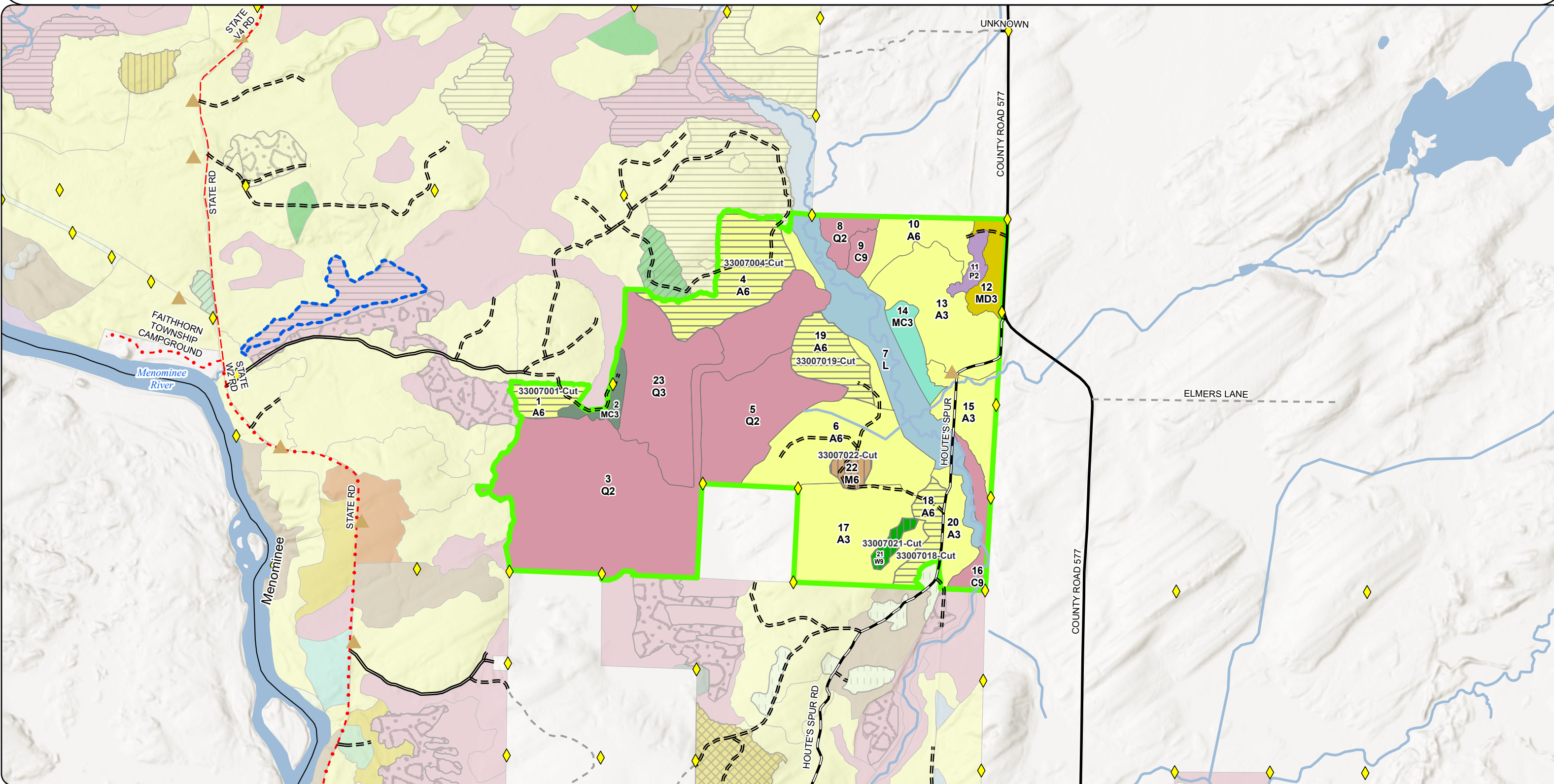
423 - Other Upland Conifers

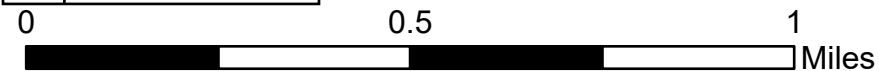
429 - Mixed Upland Conifers













611 - Lowland Deciduous Forest

612 - Lowland Coniferous Forest

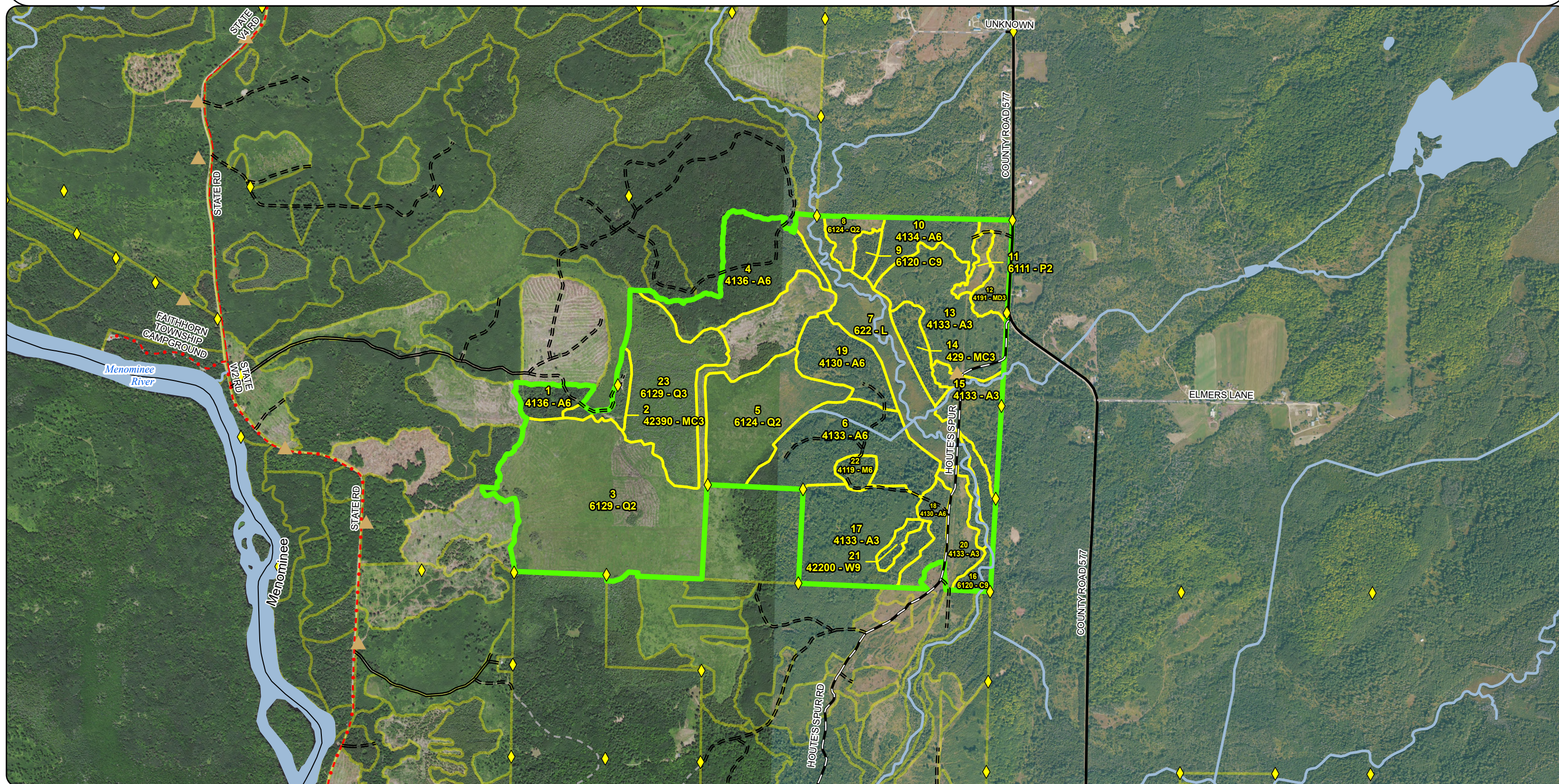
622 - Lowland Shrub





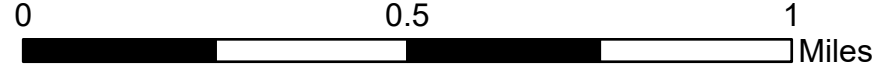
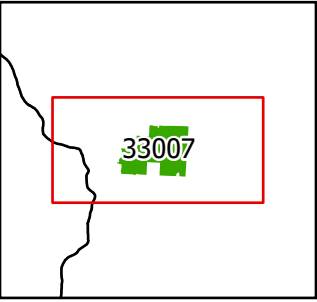
- | | | | |
|---|---------------------------------------|---|-------------------------------|
|  | Survey Grade Corners |  | County - Dirt Road (Seasonal) |
|  | Berm |  | Private - Dirt / Gravel Road |
|  | DNR - Primary Forest Road |  | Streams |
|  | DNR - Secondary Forest Road |  | Lakes and Rivers |
|  | DNR - Forest Access Route |  | Compartment Boundary |
|  | Federal / State / County - Paved Road | | 411 - Northern Hardwood |
|  | County - Gravel Road | | 413 - Aspen |
| | | | 419 - Mixed Upland Deciduous |

- 422 - Natural Pines
423 - Other Upland Conifers
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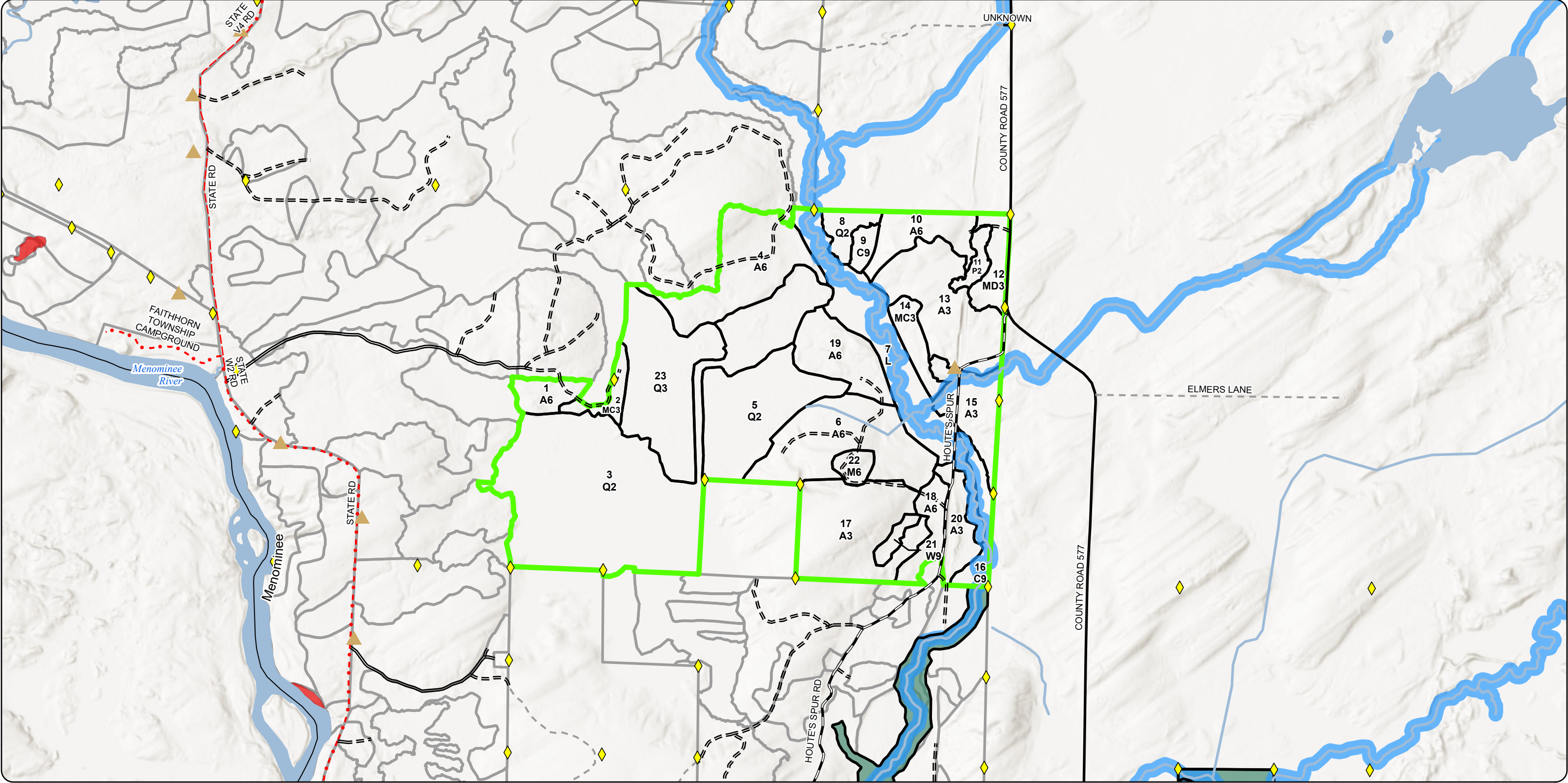


**Special Conservation Areas
& Site Conditions Map**

Compartment: 33007
T37N R28W Sections 9 and 10
County: Menominee
Unit: Escanaba
Mgmt. Area: Menominee-Marquette
YOE: 2027
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- Survey Grade Corners
- Berm
- DNR - Primary Forest Road
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Federal / State / County - Paved Road

County - Gravel RoadCounty - Dirt Road (Seasonal)Private - Dirt / Gravel RoadStreamsLakes and RiversCompartment BoundaryStand BoundariesEcological Reference AreasSCACold Water StreamsHigh Priority Trout Stream BufferVernal Pool

Report 1 – Total Acres by Cover Type and Age Class



Age Class

	Non-Forest	0-9	10-19	20-29	30-39	40-49	50-59	60-69	70-79	80-89	90-99	100-109	110-119	120-129	130-139	140-149	150+	Uneven-Aged	Total
Aspen	0	34	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

	Clearecut	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



S t a n d	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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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 <u>Comment:</u> stand. The spruce budworm is present and causing defoliation. This stand is ready to be regenerated, clearcutti <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 <u>Specs:</u> forested corridor along the Pemene Creek, for wildlife, possible wood turtle habitat, and fisheries concerns <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 <u>Comment:</u> will then seed in. <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 <u>Specs:</u> centered on areas with dense conifer regeneration. <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 <u>Comment:</u> sprout back following the harvest. <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 <u>Specs:</u> west edge to provide a forested corridor along the Pemene Creek, for wildlife and possible wood turtle habitat. <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 <u>Comment:</u> be harvested now to maximize the sprouting of the aspen while there is enough vigor to do so. This stand should b <u>Site Condition:</u> <u>Proposed Start Date:</u> 10/01/2026											



S t a n d	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
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</u> Pine, hemlock, birch, and maple. <u>Regen:</u> <u>Other</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 <u>Comment:</u> 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</u> Pine, maple, oak, birch, and spruce/fir. <u>Regen:</u> <u>Other</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 <u>Comment:</u> 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 86.3
Acreage Proposed:

Report 4 – Site Conditions

Escanaba Mgt. Unit
Dustin Salter : Examiner

Compartment: 7
Year of Entry: 2027



Availability for Management

Total Acres	Acres Available	Acres With Condition	Acres Not Available
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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.						
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size			
Quaking Aspen		70	Pole/Log	8	47	Tag Alder				Low	5 - 10 feet	5 - 10 feet	
Balsam Poplar		3	Pole/Sapling	7	47								
Balsam Fir		5	Pole/Sapling	6	47								
Black Spruce		10	Pole/Sapling	6	47								
Tamarack		2	Pole/Sapling	6	47								
White Pine		5	Log/Pole	15	104								
Red Pine		2	Log/Pole	14	104								
Black Cherry		3	Pole/Sapling	6	47								
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.						
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size			
Paper Birch		3	Sapling/Pole	3	36	Black Cherry				Low	5 - 10 feet	5 - 10 feet	
Balsam Poplar		2	Sapling/Pole	3	36	Tag Alder				Medium	5 - 10 feet	5 - 10 feet	
Balsam Fir		10	Sapling/Pole	3	36								
Black Spruce		45	Sapling/Pole	4	36								
Tamarack		15	Sapling/Pole	4	36								
White Pine		5	Log/Pole/Sap	16	104								
Red Pine		20	Sapling/Pole/Log	4	36								
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.					
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size			
Balsam Poplar		5	Sapling	1	5	Tag Alder				Medium	5 - 10 feet	5 - 10 feet	
Balsam Fir		5	Sapling	1	5								
Black Spruce		30	Sapling	1	5								
Northern White Cedar		10	Pole/Log	9	126								
Tamarack		45	Sapling	1	5								
White Pine		5	Sapling	1	5								
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.						
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size			
Red Maple		2	Log/Pole	10	104	White Pine				Medium	5 - 10 feet	5 - 10 feet	
Quaking Aspen		73	Pole/Log	8	45	Black Cherry				Low	10 - 20 feet	10 - 20 feet	
White Spruce		12	Pole/Log/Sap	7	45	Witch Hazel				Medium	5 - 10 feet	5 - 10 feet	
White Pine		10	Log/XLog	16	104	Balsam Fir				Medium	10 - 20 feet	10 - 20 feet	
Red Pine		3	Log/Pole	15	104								



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>Balsam Fir</td><td>10</td><td>Sapling</td><td>1</td><td>15</td></tr><tr><td>Black Spruce</td><td>40</td><td>Sapling</td><td>1</td><td>15</td></tr><tr><td>Tamarack</td><td>40</td><td>Sapling</td><td>1</td><td>15</td></tr><tr><td>White Pine</td><td>10</td><td>Sapling</td><td>1</td><td>15</td></tr></table>		Canopy Species	% Cover	Size Class	DBH	Age		Balsam Fir	10	Sapling	1	15	Black Spruce	40	Sapling	1	15	Tamarack	40	Sapling	1	15	White Pine	10	Sapling	1	15	<table><tr><th>Sub-Canopy Species</th><th>Density</th><th>Avg. Height</th><th>Size</th></tr><tr><td>Tag Alder</td><td>High</td><td>5 - 10 feet</td><td>5 - 10 feet</td></tr><tr><td>Red Osier Dogwood</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	High	5 - 10 feet	5 - 10 feet	Red Osier Dogwood	Medium	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.																																																		
<table><tr><th>Canopy Species</th><th>% Cover</th><th>Size Class</th><th>DBH</th><th>Age</th></tr><tr><td>Red Oak</td><td>2</td><td>Log/XLog</td><td>16</td><td>104</td></tr><tr><td>Quaking Aspen</td><td>55</td><td>Pole/Log/Sap</td><td>6</td><td>37</td></tr><tr><td>Bigtooth Aspen</td><td>15</td><td>Pole/Log/Sap</td><td>7</td><td>37</td></tr><tr><td>White Spruce</td><td>5</td><td>Pole/Sapling</td><td>5</td><td>37</td></tr><tr><td>White Pine</td><td>21</td><td>Log/XLog</td><td>16</td><td>104</td></tr><tr><td>Red Pine</td><td>2</td><td>Log/XLog</td><td>16</td><td>104</td></tr></table>		Canopy Species	% Cover	Size Class	DBH	Age		Red Oak	2	Log/XLog	16	104	Quaking Aspen	55	Pole/Log/Sap	6	37	Bigtooth Aspen	15	Pole/Log/Sap	7	37	White Spruce	5	Pole/Sapling	5	37	White Pine	21	Log/XLog	16	104	Red Pine	2	Log/XLog	16	104	<table><tr><th>Sub-Canopy Species</th><th>Density</th><th>Avg. Height</th><th>Size</th></tr><tr><td>White Pine</td><td>Medium</td><td>10 - 20 feet</td><td>10 - 20 feet</td></tr><tr><td>Black Cherry</td><td>Low</td><td>>20 feet</td><td>>20 feet</td></tr><tr><td>Tag Alder</td><td>Trace</td><td>5 - 10 feet</td><td>5 - 10 feet</td></tr></table>				Sub-Canopy Species	Density	Avg. Height	Size	White Pine	Medium	10 - 20 feet	10 - 20 feet	Black Cherry	Low	>20 feet	>20 feet	Tag Alder	Trace	5 - 10 feet	5 - 10 feet
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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.																																																		
		<table><tr><th>Sub-Canopy Species</th><th>Density</th><th>Avg. Height</th><th>Size</th></tr><tr><td>Tamarack</td><td>Low</td><td>>20 feet</td><td>>20 feet</td></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	Tamarack	Low	>20 feet	>20 feet	Tag Alder	Medium	5 - 10 feet	5 - 10 feet																																							
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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 balsam 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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Red Osier Dogwood	Low	5 - 10 feet	5 - 10 feet																																																						
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.																																																		
<table><tr><th>Canopy Species</th><th>% Cover</th><th>Size Class</th><th>DBH</th><th>Age</th></tr><tr><td>Balsam Poplar</td><td>2</td><td>Log/Pole</td><td>10</td><td>126</td></tr><tr><td>Black Spruce</td><td>3</td><td>Log/Pole</td><td>11</td><td>126</td></tr><tr><td>Northern White Cedar</td><td>90</td><td>Log/Pole</td><td>10</td><td>126</td></tr><tr><td>Tamarack</td><td>2</td><td>Log/Pole</td><td>10</td><td>126</td></tr><tr><td>Black Ash</td><td>3</td><td>Pole</td><td>9</td><td>126</td></tr></table>		Canopy Species	% Cover	Size Class	DBH	Age		Balsam Poplar	2	Log/Pole	10	126	Black Spruce	3	Log/Pole	11	126	Northern White Cedar	90	Log/Pole	10	126	Tamarack	2	Log/Pole	10	126	Black Ash	3	Pole	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>Low</td><td>5 - 10 feet</td><td>5 - 10 feet</td></tr><tr><td>Balsam Fir</td><td>Low</td><td>< 5 feet</td><td>< 5 feet</td></tr><tr><td>Tamarack</td><td>Low</td><td>< 5 feet</td><td>< 5 feet</td></tr><tr><td>Black Spruce</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	Low	5 - 10 feet	5 - 10 feet	Balsam Fir	Low	< 5 feet	< 5 feet	Tamarack	Low	< 5 feet	< 5 feet	Black Spruce	Medium	5 - 10 feet	5 - 10 feet	
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments			
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.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Quaking Aspen		75	Pole	7	38	Black Cherry		Medium	10 - 20 feet	10 - 20 feet
Balsam Fir		5	Sapling/Pole	3	38					
White Spruce		15	Sapling/Pole	4	38					
White Pine		5	Sapling/Pole/Log	1	38					
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.			
Canopy Species		% Cover	Size Class	DBH	Age					
Balsam Poplar		70	Sapling	1	7					
Balsam Fir		5	Sapling	1	7					
Black Spruce		10	Sapling	1	7					
Northern White Cedar		10	Log/Pole	10	126					
White Pine		5	Sapling	1	7					
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.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Quaking Aspen		30	Sapling	1	7	Tag Alder		Low	5 - 10 feet	5 - 10 feet
Balsam Poplar		25	Sapling	1	7					
Balsam Fir		10	Sapling	1	7					
White Spruce		10	Sapling	1	7					
White Pine		15	Sapling	1	7					
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.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Quaking Aspen		60	Sapling	3	17	Tag Alder		Low	5 - 10 feet	5 - 10 feet
Balsam Poplar		5	Sapling	2	17	Blackberry/Raspberry		Low	5 - 10 feet	5 - 10 feet
White Spruce		5	Sapling	2	17					
White Pine		5	Log/XLog	17	104					
White Pine		15	Sapling	2	17					
Black Cherry		10	Sapling	2	17					



Stand

Level 4 Cover Type

Size Density

Acres

Stand Age

BA Range

Managed Site

General Comments

14

429 - Mixed Upland Conifers

Sapling Well

9.7

28

1-50

N/A

Canopy Species

% Cover

Size Class

DBH

Age

Quaking Aspen

2

Sapling

2

17

Balsam Poplar

3

Sapling/Pole

4

28

Balsam Fir

10

Sapling

2

28

White Spruce

15

Sapling/Pole

2

28

Northern White Cedar

10

Pole/Log

9

104

White Pine

18

Log/XLog

17

104

White Pine

30

Sapling/Pole

3

28

Red Pine

2

Log/XLog

16

104

Black Cherry

10

Sapling

1

17

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

Quaking Aspen

60

Sapling

1

7

Balsam Poplar

3

Sapling

1

7

Black Spruce

5

Sapling

1

7

Northern White Cedar

5

Log/Pole

10

126

Tamarack

2

Sapling

1

7

White Pine

15

Sapling/Pole

3

32

White Pine

5

Log/XLog

16

126

Black Cherry

5

Sapling

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 Spruce

15

Pole/Log/Sap

9

126

Northern White Cedar

65

Log/Pole

10

126

Tamarack

15

Pole/Log/Sap

9

126

Black Ash

5

Pole/Sap/Log

8

126

Sub-Canopy Species

Density

Avg. Height

Size

Balsam Fir

Low

< 5 feet

< 5 feet

Tag Alder

Low

5 - 10 feet

5 - 10 feet

White Pine

Full

< 5 feet

< 5 feet

Beech

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

Red Maple

5

Sapling

3

21

White Ash

2

Sapling

1

21

Red Oak

5

Log/Pole

14

131

Quaking Aspen

35

Sapling/Pole

4

21

Bigtooth Aspen

25

Sapling/Pole

4

21

Balsam Fir

2

Sapling

2

21

White Spruce

3

Sapling

2

21

White Pine

3

Sapling

2

21

White Pine

15

Log/XLog

16

131

Red Pine

5

Log/XLog

16

131

Canopy Species

% Cover

Size Class

DBH

Age

Red Maple

5

Sapling

3

21

White Ash

2

Sapling

1

21

Red Oak

5

Log/Pole

14

131

Quaking Aspen

35

Sapling/Pole

4

21

Bigtooth Aspen

25

Sapling/Pole

4

21

Balsam Fir

2

Sapling

2

21

White Spruce

3

Sapling

2

21

White Pine

3

Sapling

2

21

White Pine

15

Log/XLog

16

131

Red Pine

5

Log/XLog

16

131

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.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
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	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen		90	Pole/Log/Sap	8	51	White Pine	High	>20 feet	>20 feet
Balsam Fir		2	Pole/Sapling	7	51	Black Cherry	Low	10 - 20 feet	10 - 20 feet
White Spruce		3	Pole/Sapling	7	51				
White Pine		3	Log/XLog	16	104				
Red Pine		2	Log/Pole	15	104				
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	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen		65	Pole/Sap/Log	7	37	Blackberry/Raspberry	Low	< 5 feet	< 5 feet
Balsam Poplar		14	Pole/Sapling	7	37	Tag Alder	Low	5 - 10 feet	5 - 10 feet
Balsam Fir		5	Pole/Sapling	7	55				
White Spruce		10	Pole/Sapling	6	55				
White Pine		3	Pole/Log/Sap	9	104				
Black Cherry		3	Pole/Sapling	5	37				
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	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen		40	Sapling	1	7	Tag Alder	Medium	5 - 10 feet	5 - 10 feet
Balsam Poplar		20	Sapling	1	7	Red Osier Dogwood	Low	5 - 10 feet	5 - 10 feet
White Spruce		5	Sapling	1	7	Northern White Cedar	Trace	< 5 feet	< 5 feet
Tamarack		3	Sapling	1	7				
White Pine		25	Sapling	2	20				
White Pine		2	Log/XLog	16	104				
Black Cherry		5	Sapling	1	7				
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	Sub-Canopy Species	Density	Avg. Height	Size
White Pine		85	Log/XLog/Pole	17	131	White Pine	Medium	5 - 10 feet	5 - 10 feet
Red Pine		5	Log/Pole/XLog	15	131	White Spruce	Medium	>20 feet	>20 feet
Hemlock		10	Log/Pole	12	131	Balsam Fir	Low	>20 feet	>20 feet
						Quaking Aspen	Medium	>20 feet	>20 feet
						Ironwood	Low	10 - 20 feet	10 - 20 feet
						Witch Hazel	Low	5 - 10 feet	5 - 10 feet



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																																						
22	4119 - Mixed Northern Hardwoods	Poletimber Well	5.0	104	81-110	N/A	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 the canopy to allow pine and hardwoods to seed in and sprout. This stand will regenerate with a mix of pine, spruce/fir, aspen, and a mix of hardwoods.																																																																						
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Sub-Canopy Species	Density	Avg. Height	Size																																																																										
White Pine	Low	5 - 10 feet	5 - 10 feet																																																																										
Ironwood	Low	5 - 10 feet	5 - 10 feet																																																																										
23	6129 - Mixed Coniferous Lowland Forest	Sapling Well	51.5	12	1-50	N/A	This stand was cut between 2012 and 2014 on contract 026-11-01. All species were cut; except cedar and some seed trees. On average about 60BA of cedar was retained, with areas as high as 170 BA. At least half of the cedar has died out of the stand, not sure of the reason. This has allowed for more sunlight to reach the ground allowing very good germination. The stand is now nearly fully stocked with a mix of lowland conifer seedlings. This stand will continue to seed in over time.																																																																						
<table><tr><th>Canopy Species</th><th>% Cover</th><th>Size Class</th><th>DBH</th><th>Age</th></tr><tr><td>Quaking Aspen</td><td>2</td><td>Sapling</td><td>1</td><td>12</td></tr><tr><td>Balsam Fir</td><td>3</td><td>Sapling</td><td>1</td><td>12</td></tr><tr><td>Black Spruce</td><td>20</td><td>Sapling</td><td>1</td><td>12</td></tr><tr><td>Northern White Cedar</td><td>25</td><td>Pole/Log</td><td>7</td><td>126</td></tr><tr><td>Tamarack</td><td>40</td><td>Sapling</td><td>1</td><td>12</td></tr><tr><td>White Pine</td><td>10</td><td>Sapling</td><td>1</td><td>12</td></tr></table>						Canopy Species		% Cover	Size Class	DBH	Age	Quaking Aspen	2	Sapling	1	12	Balsam Fir	3	Sapling	1	12	Black Spruce	20	Sapling	1	12	Northern White Cedar	25	Pole/Log	7	126	Tamarack	40	Sapling	1	12	White Pine	10	Sapling	1	12	<table><tr><th>Sub-Canopy Species</th><th>Density</th><th>Avg. Height</th><th>Size</th></tr><tr><td>Tag Alder</td><td>High</td><td>5 - 10 feet</td><td>5 - 10 feet</td></tr><tr><td>Red Osier Dogwood</td><td>Low</td><td>< 5 feet</td><td>< 5 feet</td></tr></table>				Sub-Canopy Species	Density	Avg. Height	Size	Tag Alder	High	5 - 10 feet	5 - 10 feet	Red Osier Dogwood	Low	< 5 feet	< 5 feet																				
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