



Compartment Review Presentation

Escanaba Forest Management Unit

Compartment 33008

Entry Year 2025

Acreage: 649

County Menominee

Management Area: Menominee-Marquette

Stand Examiner: Dan Beaudou

Legal Description:

T37N, R28W Sections 14 and 15

Identified Planning Goals:

This compartment is part of the Menominee-Marquette Management Area and is located about 9 miles west of Carney, Michigan near the Michigan-Wisconsin border. It is a mixture of upland and lowland types. Upland types are about 75% of the compartment and include mostly aspen, white pine and upland red maple and oak types. Lowland types are about 25% of the compartment and include mostly mixed lowland conifers and cedar timber types with some lowland non-forested types.

Treatments consist of selection harvest to mixed deciduous and northern hardwood stands for 40 acres. 59 acres of shelterwood in white pine dominated stands. 40 acres with regeneration monitoring on previous lowland treatments with regeneration present but due to slower growth rate decided to verify filling in next YOY. 29 acres of grass opening maintenance that were delineated from the 1998 DOQ imagery taken right after the prescribed burns. These stands are growing in with tree species needing immediate attention to remain in the opening category.

Soil and topography:

The major soil series include Pemene, Rubicon and complexes of Mancelona-Nadeau and Pemene-Rousseau for the uplands and Lupton-Tawas for the lowlands. Topography is gently rolling to level in most of the upland areas.

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

The compartment is mostly part of a contiguous block of state ownership to the north and south with private holdings east and west. Frequent recreational usage being easily accessed for fishing, hunting, trapping, berry and mushroom picking. There are several year-round permanent residents adjacent to and near the compartment.

Unique Natural Features:

The Pemene Creek flows north to south through section 15 and the DeHaas Creek flows east to west through section 14. The two creeks merge south of the compartment.

Archeological, Historical, and Cultural Features:

There are known concerns within the compartment. All proposed management activities have taken these concerns into consideration.

Special Management Designations or Considerations:

None

Watershed and Fisheries Considerations:

This compartment contains Pemene Creek, DeHaas Creek, and Hammond Brook which are all Designated Type 1 Trout Streams. A 300' buffer is recommended in riparian areas susceptible to Aspen regeneration. For areas not susceptible to Aspen regeneration, 100' plus 5' per 1% increase in slope.

Wildlife Habitat Considerations:

Compartment 8 is part of the Menominee End Moraine Management Area. This management area contains forest types that are adapted to sandy outwash plain conditions. The Shakey Lakes Savanna Natural Area is located here. Most of the unit's oak resource is located in this management area, and perpetuation of this cover type is of high priority. The presence of oak wilt disease increases the urgency to find management solutions to oak regeneration challenges. There are also opportunities to expand and link forest openings and upland brush habitats using prescribed burns and mechanical treatments. Featured wildlife species include black bear, ruffed grouse, and eastern bluebird.

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 pits are known to exist in the area. There is good sand & gravel potential on the drumlins in the compartment and surrounding area, but the compartment might be too far from populated areas (markets) for any aggregate resources present to have much

economic potential beyond use by the county road commission or DNR for road maintenance. There has been past metallic mineral exploration in the vicinity. There is evidence from geophysical data and mineral test wells of possible magmatic intrusions in the area that have the potential to host metallic and critical minerals. Potential for such deposits beneath sections 14 & 15 appears low, but there is some potential beneath Sec 22, and all State-owned mineral rights in Sec 22 are currently leased for metallic mineral exploration and development.

Vehicle Access:

Access is very good for this compartment with Houte's Spur Road and two-track roads through the majority of the area. County Road 577 passes through the east portion of the compartment.

Survey Needs:

For the proposed treatments, potentially six survey corners in section 14 may be needed.

Recreational Facilities and Opportunities:

No developed facilities currently exist. Recreational opportunities include hunting, fishing, trapping, forage picking and horseback riding.

Fire Protection:

The timber types in the compartment are generally low risk for fire hazard. however oak and pine are scattered through the area. Access is very good along CR-577, Houte's Spur Road, several abandoned dirt county roads and two-track roads. There is good access to water near the Pemene Creek.

Additional Compartment Information:

Oak wilt is present in the area. If oak wilt is found during this inventory period, it can be treated with current operating procedures to treat oak wilt epicenter and surrounding area.

The following reports from the Inventory are attached:

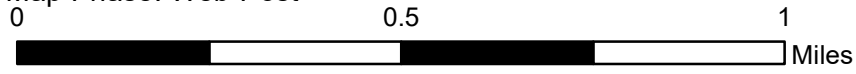
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

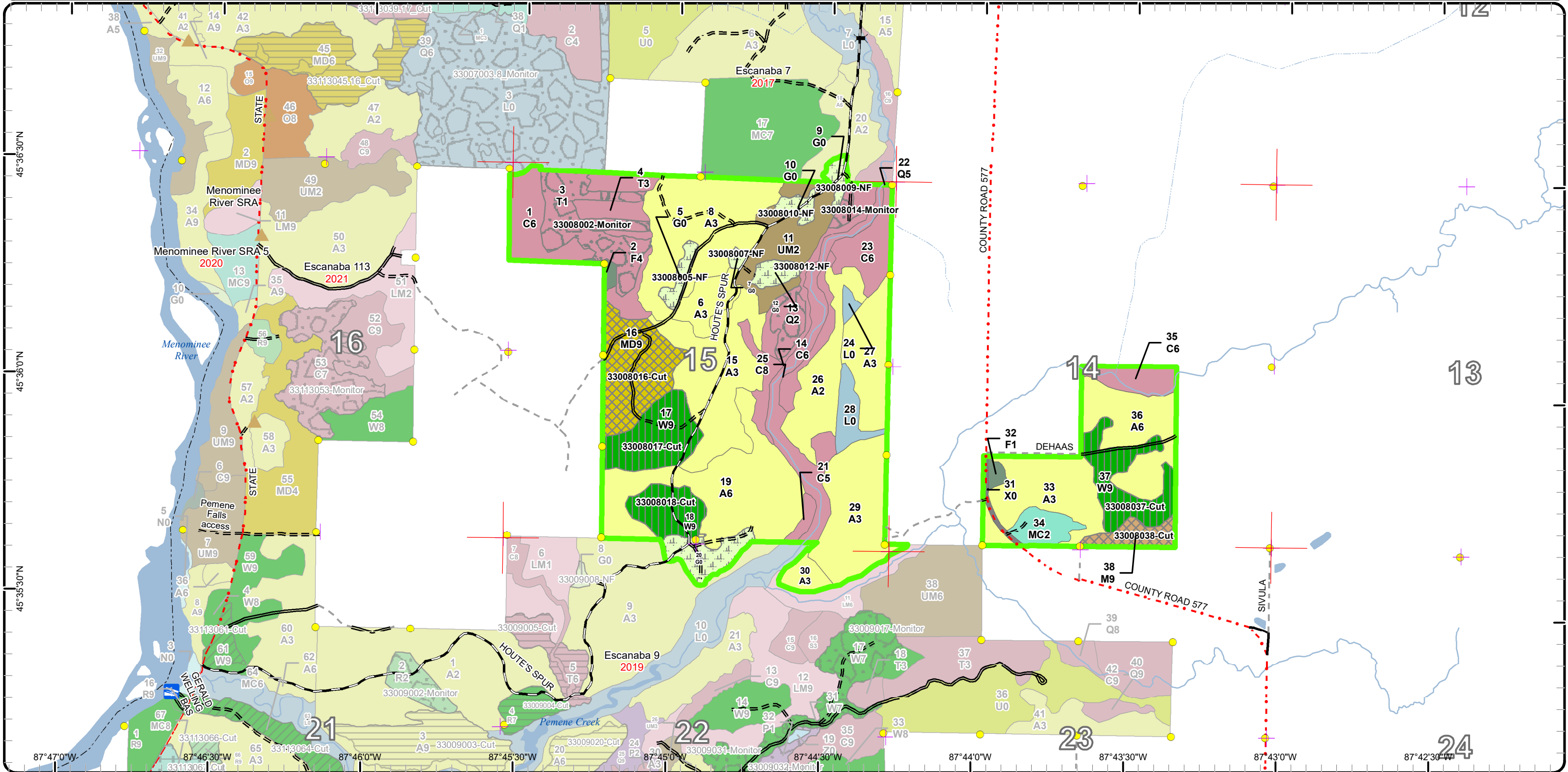
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

Cover Type & Treatments Map

Compartment: 8
 T37N-R28W Sec. 14 and 15
 County: Menominee
 Unit: Escanaba
 Mgmt Area: Menominee-Marquette
 YOE: 2025
 Acres: 648.8 GIS Calculated
 Examiner: Dan Beaudo
 Map Revised: 6/26/2023
 Map Phase: Web-Post

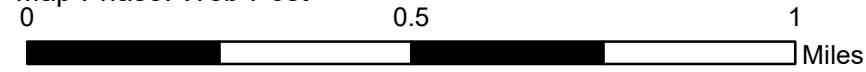


- Miris Corners
- Remonumented Section Corners
- Survey Grade Corners
- Counties
- DNR - Primary Forest Road
- DNR - Secondary Forest Road
- == DNR - Forest Access Route
- Federal / State / County - Paved Road
- County - Gravel Road
- County - Dirt Road (Seasonal)
- Private - Dirt / Gravel Road
- ▲ Berms
- ⚓ Boating Access Site
- ⚖ Bridges
- Intermittent Stream
- Lake/Pond
- Perennial River
- Lakes and Rivers
- Compartment Boundary
- Other Treatment - See Comments
- ⊠ Selection (Group, Single Tree)
- ⊠ Regeneration Survey
- ⊠ Shelter Wood (w/Reserves)
- 430 - Upland Mixed Forest
- 612 - Lowland Coniferous Forest
- 122 - Roads/Parking Lot
- 310 - Herbaceous Openland
- 622 - Lowland Shrub
- 411 - Northern Hardwood
- 413 - Aspen
- 419 - Mixed Upland Deciduous
- 422 - Natural Pines
- 423 - Other Upland Conifers
- 429 - Mixed Upland Conifers

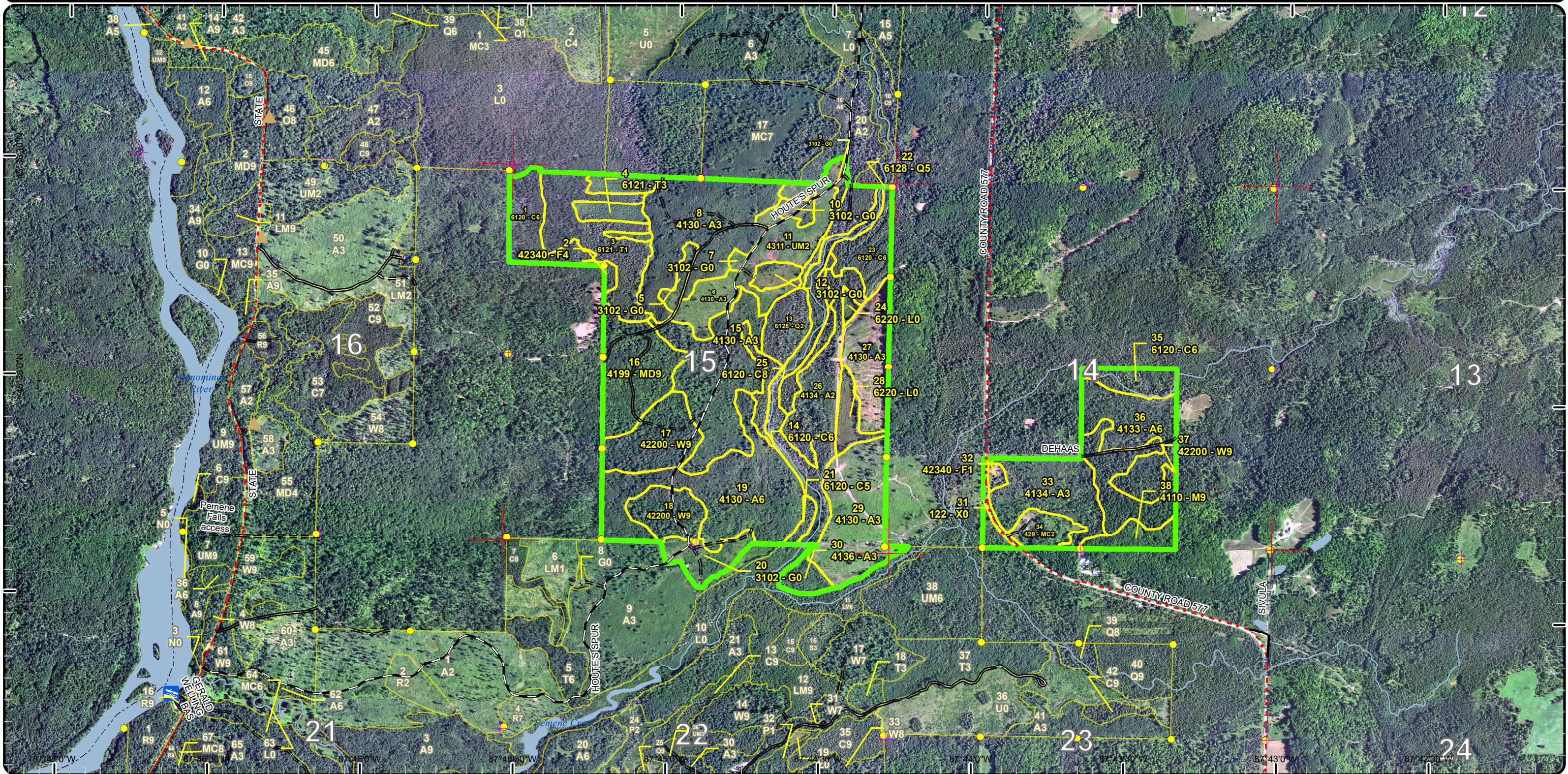


Stand Boundary Map

Compartment: 8
 T37N-R28W Sec. 14 and 15
 County: Menominee
 Unit: Escanaba
 Mgmt Area: Menominee-Marquette
 YOE: 2025
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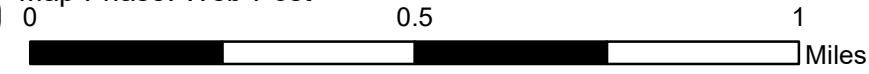


- Miris Corners
- + Remonumented Section Corners
- Survey Grade Corners
- Counties
- DNR - Primary Forest Road
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Federal / State / County - Paved Road
- County - Dirt Road (Seasonal)
- Private - Dirt / Gravel Road
- ▲ Berms
- Boating Access Site
- ⊗ Bridges
- Intermittent Stream
- Lake/Pond
- Perennial River
- Lakes and Rivers
- Compartment Boundary
- Stand Boundaries
- 310 - Herbaceous Openland
- 622 - Lowland Shrub
- 411 - Northern Hardwood
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- 423 - Other Upland Conifers
- 429 - Mixed Upland Conifers
- 430 - Upland Mixed Forest
- 612 - Lowland Coniferous Forest
- 122 - Roads/Parking Lot

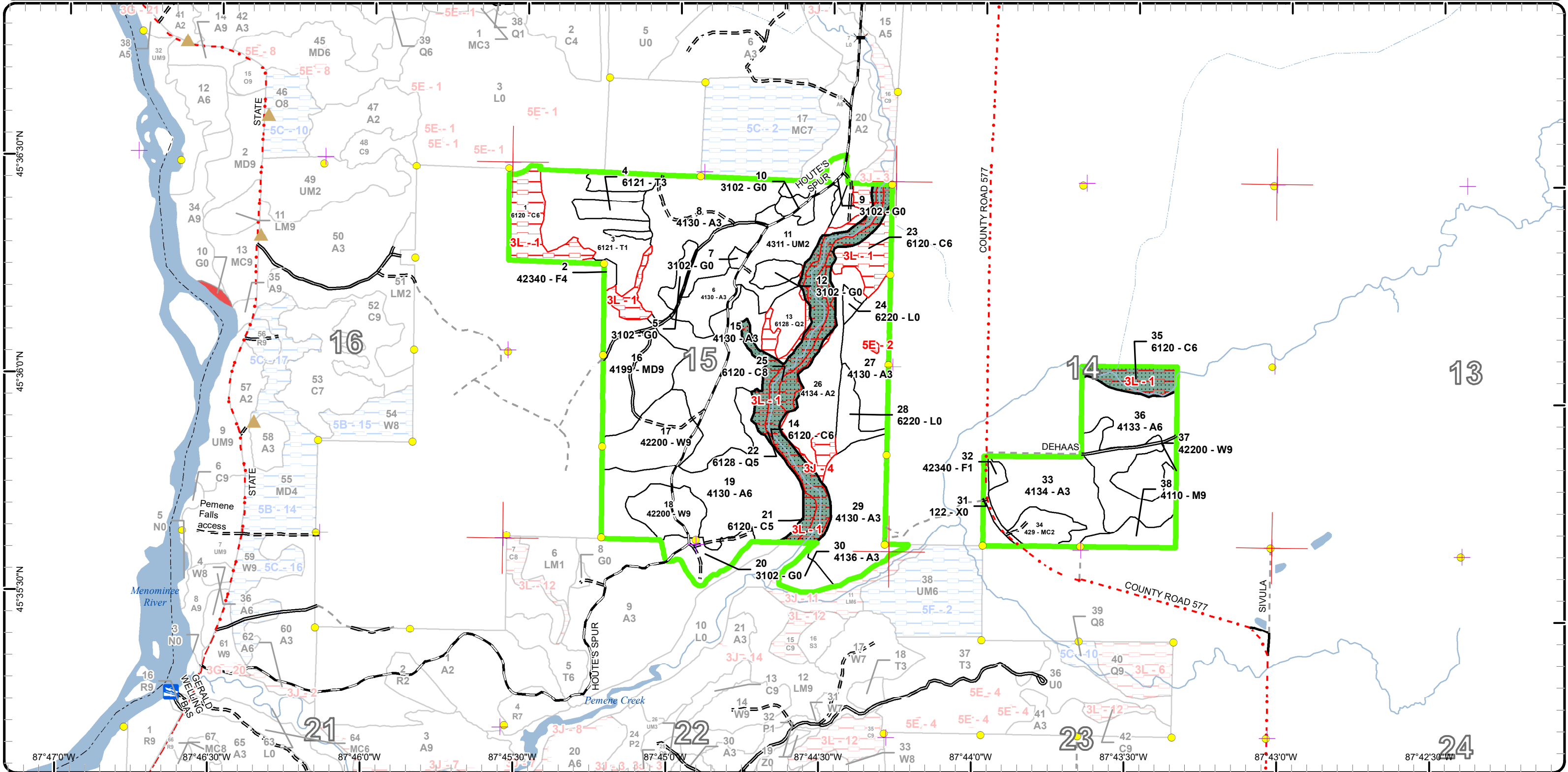


Special Conservation Areas

Compartment: 8
 T37N-R28W Sec. 14 and 15
 County: Menominee
 Unit: Escanaba
 Mgmt Area: Menominee-Marquette
 YOE: 2025
 Acres: 648.8 GIS Calculated
 Examiner: Dan Beaudou
 Map Revised: 6/26/2023
 Map Phase: Web-Post



- Miris Corners
- + Remonumented Section Corners
- Survey Grade Corners
- Counties
- DNR - Primary Forest Road
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Federal / State / County - Paved Road
- County - Dirt Road (Seasonal)
- Private - Dirt / Gravel Road
- ▲ Berms
- Boating Access Site
- ✕ Bridges
- Intermittent Stream
- Lake/Pond
- Perennial River
- Lakes and Rivers
- Compartment Boundary
- Unavailable
- 3J: Water quality / BMPs (stream, river, or lake)
- 3L: Other wildlife concerns
- 5E: Long-Term Retention
- Stand Boundaries
- SCA
- Ecological Reference Areas
- Cold Water Streams
- Cold Water Lakes
- Vernal 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	97	46	91	89	0	0	0	0	0	0	0	0	0	0	0	0	0	323
Cedar	0	0	0	0	0	0	0	0	10	3	7	0	0	6	14	17	0	0	57
Herbaceous Openland	29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	29
Lowland Conifers	0	20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	27	47
Lowland Shrub	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10
Mixed Upland Deciduous	0	0	0	0	0	0	0	0	0	31	0	0	0	0	0	0	0	0	31
Northern Hardwood	0	0	0	0	0	0	0	0	9	0	0	0	0	0	0	0	0	0	8
Tamarack	0	34	0	13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	47
Upland Conifers	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9	9
Upland Mixed Forest	0	24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24
Upland Spruce/Fir	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	4
Urban	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
White Pine	0	0	0	0	0	0	0	0	0	22	37	0	0	0	0	0	0	0	59
Total	41	175	46	104	89	0	0	0	19	56	44	0	0	6	14	17	0	40	650



Report 2 – Treatment Summary

Escanaba Mgt. Unit

Year of Entry: 2025

Acres of Harvest

Compartment 8

Total Compartment Acres: 649

Commercial Harvest - 98
 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
Mixed Upland Deciduous	0	31	0	0	0	0	0	0	0	31
Northern Hardwood	0	9	0	0	0	0	0	0	0	9
White Pine	0	0	0	0	59	0	0	0	0	59
Total	0	40	0	0	59	0	0	0	0	99

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	99	0	0	0	0	0	40	0	29	167
Next Step	0	0	0	0	0	0	99	0	0	99
Total	99	0	0	0	0	0	138	0	29	266



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:

5	33008005-NF	4.1	3102 - Grass	Nonstocked		Unspec ified	NonForestMgt	Other - Specify	310 - Herbaceous Openland		No
<p><u>Prescription</u> Prescribed fire, farming (dozing, disking, raking, herbiciding, seeding (native or naturalized species only)), fertilizing and liming, <u>Specs:</u> brushhog/saw removal of competing trees and establishment of native hard and soft mast producers such as red oak, crabapple or others.</p> <p><u>Next Step</u> <u>Treatments:</u></p> <p><u>Acceptable</u> <u>Regen:</u></p> <p><u>Other</u> <u>Comment:</u></p> <p><u>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /2024</p>											
7	33008007-NF	1.2	3102 - Grass	Nonstocked		Unspec ified	NonForestMgt	Other - Specify	310 - Herbaceous Openland		No
<p><u>Prescription</u> Prescribed fire, farming (dozing, disking, raking, herbiciding, seeding (native or naturalized species only)), fertilizing and liming, <u>Specs:</u> brushhog/saw removal of competing trees and establishment of native hard and soft mast producers such as red oak, crabapple or others.</p> <p><u>Next Step</u> <u>Treatments:</u></p> <p><u>Acceptable</u> <u>Regen:</u></p> <p><u>Other</u> <u>Comment:</u></p> <p><u>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /2024</p>											
9	33008009-NF	3.5	3102 - Grass	Nonstocked		Unspec ified	NonForestMgt	Other - Specify	310 - Herbaceous Openland		No
<p><u>Prescription</u> Prescribed fire, farming (dozing, disking, raking, herbiciding, seeding (native or naturalized species only)), fertilizing and liming, <u>Specs:</u> brushhog/saw removal of competing trees and establishment of native hard and soft mast producers such as red oak, crabapple or others.</p> <p><u>Next Step</u> <u>Treatments:</u></p> <p><u>Acceptable</u> <u>Regen:</u></p> <p><u>Other</u> <u>Comment:</u></p> <p><u>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /2024</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
10	33008010-NF	3.9	3102 - Grass	Nonstocked		Unspecified	NonForestMgt	Other - Specify	310 - Herbaceous Openland		No
<p><u>Prescription</u> Prescribed fire, farming (dozing, disking, raking, herbiciding, seeding (native or naturalized species only)), fertilizing and liming, brushhog/saw removal of competing trees and establishment of native hard and soft mast producers such as red oak, crabapple or others.</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u></p> <p><u>Other Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2024</p>											
12	33008012-NF	4.6	3102 - Grass	Nonstocked		Unspecified	NonForestMgt	Other - Specify	310 - Herbaceous Openland		No
<p><u>Prescription</u> Prescribed fire, farming (dozing, disking, raking, herbiciding, seeding (native or naturalized species only)), fertilizing and liming, brushhog/saw removal of competing trees and establishment of native hard and soft mast producers such as red oak, crabapple or others.</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u></p> <p><u>Other Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2024</p>											
16	33008016-Cut	31.3	4199 - Other Mixed Upland Deciduous	Sawtimber Well	80	81-110	Harvest	Single Tree Selection	4199 - Other Mixed Upland Deciduous	Uneven-Aged	No
<p><u>Prescription</u> Selection thin stand to 60-70 basal area improving the stand according to the Compleat Marker. Concentrate on removing poor quality maple and pine.</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> Species within the canopy layers.</p> <p><u>Other Comment:</u> Stand was last thinned in 2001 and now has closed canopy. Recommendations to selection thin hardwood stands on a 15 year interval. Thinning stand will improve the health and quality of the residual trees.</p> <p>Selection harvesting may be the most misunderstood system and is certainly the most complex. When stands of trees become overly dense, forest health risks increase. Removing the higher-risk trees and leaving the trees with higher potential improves the quality and character of the forest. The partially-opened canopy allows enough light to accelerate individual tree health, vigor and allows seedlings to grow. The young trees eventually replace the older trees as the older trees either die or are harvested.</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2024</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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17	33008017-Cut	22.7	42200 - Natural White Pine	Sawtimber Well	94	51-80	Harvest	Shelterwood	4220 - Natural White Pine	Uneven-Aged	No
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Prescription Cut all merchantable trees except retain 30-50 basal area of pine and oak.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Regen: Species within the canopy layers.

Other

Comment: This stage of the shelterwood system will improve sunlight to the forest floor aiding in seed germination. The increase in sunlight will also stimulate seedling growth. The residual canopy trees will provide shade to help deter forest pests like the white pine weevil. Residual oak will provide for diversity and mast production for seed and wildlife forage.

The shelterwood system lies somewhere in between the visual extremes of clearcutting and selection management. The parent forest is removed in several stages, with each stage successively establishing optimum environmental conditions for tree regeneration and then nursing the regeneration along to a point where the remaining parent forest can be harvested. Red oaks and white pine stands will often benefit from shelterwood harvesting.

Site Condition

Proposed Start Date: 10/1 /2024

18	33008018-Cut	14.4	42200 - Natural White Pine	Sawtimber Well	94	81-110	Harvest	Shelterwood	4220 - Natural White Pine	Uneven-Aged	No
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Prescription Cut all merchantable trees except retain 30-50 basal area of pine and oak.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Regen: Species within the canopy layers.

Other

Comment: This stage of the shelterwood system will improve sunlight to the forest floor aiding in seed germination. The increase in sunlight will also stimulate seedling growth. The residual canopy trees will provide shade to help deter forest pests like the white pine weevil. Residual oak will provide for diversity and mast production for seed and wildlife forage.

The shelterwood system lies somewhere in between the visual extremes of clearcutting and selection management. The parent forest is removed in several stages, with each stage successively establishing optimum environmental conditions for tree regeneration and then nursing the regeneration along to a point where the remaining parent forest can be harvested. Red oaks and white pine stands will often benefit from shelterwood harvesting.

Site Condition

Proposed Start Date: 10/1 /2024

20	33008020-NF	11.6	3102 - Grass	Nonstocked		Unspec ified	NonForestMgt	Other - Specify	310 - Herbaceous Openland		No
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Prescription Prescribed fire, farming (dozing, disking, raking, herbiciding, seeding (native or naturalized species only)), fertilizing and liming, brushhog/saw removal of competing trees and establishment of native hard and soft mast producers such as red oak, crabapple or others.

Specs:

Next Step

Treatments:

Acceptable Regen:

Other

Comment:

Site Condition

Proposed Start Date: 10/1 /2024



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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
37 33008037-Cut	21.6	42200 - Natural White Pine	Sawtimber Well	86	81-110	Harvest	Shelterwood	4220 - Natural White Pine	Uneven-Aged	No
<p><u>Prescription</u> Cut all merchantable trees except retain 30-50 basal area of pine and oak.</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> Species of the canopy layer.</p> <p><u>Other Comment:</u> This stage of the shelterwood system will improve sunlight to the forest floor aiding in seed germination. The increase in sunlight will also stimulate seedling growth. The residual canopy trees will provide shade to help deter forest pests like the white pine weevil. Residual oak will provide for diversity and mast production for seed and wildlife forage.</p> <p>The shelterwood system lies somewhere in between the visual extremes of clearcutting and selection management. The parent forest is removed in several stages, with each stage successively establishing optimum environmental conditions for tree regeneration and then nursing the regeneration along to a point where the remaining parent forest can be harvested. Red oaks and white pine stands will often benefit from shelterwood harvesting.</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2024</p>										
38 33008038-Cut	8.5	4110 - Sugar Maple Association	Sawtimber Well	75	111-140	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven-Aged	No
<p><u>Prescription</u> Selection thin stand to about 70 basal area according to Compleat Marker guide.</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> Species within the canopy layers.</p> <p><u>Other Comment:</u> This hardwood stand has closed canopy and last thinning was longer than 20 years ago.</p> <p>Selection harvesting may be the most misunderstood system and is certainly the most complex. When stands of trees become overly dense, forest health risks increase. Removing the higher-risk trees and leaving the trees with higher potential improves the quality and character of the forest. The partially-opened canopy allows enough light to accelerate individual tree health, vigor and allows seedlings to grow. The young trees eventually replace the older trees as the older trees either die or are harvested.</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2024</p>										

Approved Treatments:

3 33008002-Monitor	29.1	6121 - Tamarack	Sapling Poor	6	Immature	Monitoring	Natural Regen (Re-Inventory)	6129 - Mixed Coniferous Lowland Forest	Two-Aged	No
<p><u>Prescription</u> Regen Survey.</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u> Spruce, tamarack, cedar, and lowland hardwood.</p> <p><u>Other Comment:</u> Percent to Treat = 100% Stand was harvested in 2018 with moderate seedling recruitment during forest inventory stand examination in December 2022. Maintain monitoring treatment to follow through with regen check either in 2028 or next YOY 2035 stand examination.</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2028</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
13 33008014-Monitor	10.6	6128 - Lowland Coniferous, Mixed Deciduous	Sapling Medium	3	Immature	Monitoring	Natural Regen (Re-Inventory)	6129 - Mixed Coniferous Lowland Forest	Two-Aged	No
<p><u>Prescription</u> Regen survey.</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Spruce, tamarack, white pine, and cedar.</p> <p><u>Regen:</u></p> <p><u>Other</u> Percent to Treat = 100%</p> <p><u>Comment:</u> Stand was harvested in 2018 with moderate seedling recruitment during forest inventory stand examination in December 2022. Maintain monitoring treatment to follow through with regen check either in 2028 or next YOE 2035 stand examination.</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 7 /9 /2018</p>										

Total Treatment Acreage Proposed: 167.1

Report 4 – Site Conditions

Escanaba Mgt. Unit
Dan Beaudou : Examiner

Compartment: 8
Year of Entry: 2025

Availability for Management

Total Acres	Acres Available	Acres Avail		Dominant Site Conditions	Dominant Site Conditions		
		With Condition	Not Available		3J	3L	5E
323	322	0	0	Aspen			0
57	0	0	57	Cedar		57	
29	29	0	0	Herbaceous Openland			
47	11	0	36	Lowland Conifers	27	9	
10	10	0	0	Lowland Shrub			
31	31	0	0	Mixed Upland Deciduous			
9	9	0	0	Northern Hardwood			
47	42	0	5	Tamarack		5	
9	9	0	0	Upland Conifers			
23	23	0	0	Upland Mixed Forest			
4	4	0	0	Upland Spruce/Fir			
2	2	0	0	Urban			
59	59	0	0	White Pine			
649	550		99	Total Forested Acres	27	71	0
	85%		15%	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	3L: Other wildlife concerns	71	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Cedar stands subject to Deer Wintering Guidelines							
2	Unavailable	5E: Long-Term Retention	0	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Dense pocket of mature oak retained within the aspen clearcut.							

Report 4 – Site Conditions

Escanaba Mgt. Unit
Dan Beaudou : Examiner

Compartment: 8
Year of Entry: 2025

4	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	27	3L: Other wildlife concerns	Unspecified	Unspecified	Unspecified
Comments:							



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

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

SCA Name	SCA Category	Detail Type	Recommendation	Acres
DeHaas Creek Riparian Corridor	Spring Wetlands Riparian Area	Vernal Pool	SCA	10
Comments				
SCA--DeHaas Creek riparian corridor. Mature forest conditions will be maintained to promote large diameter trees, cavities, snags and dead woody debris for wildlife habitat. Some high ground and some low areas--flood plain.				



Report 6 – EXISTING SPECIAL CONSERVATION AREA DETAILS

* This is a list of SCA's for this compartment along with a 1/4 mile buffer surrounding the compartment. Refer to the Special Conservation Area Map for locations of the below listed Conservation Areas.

ERA = Ecological Reference Area
 HCVA = High Conservation Value Area
 SCA = Special Conservation Area

Conservation Area	Type	Description
SCA	Cold Water Stream	A coldwater stream has temperature and dissolved oxygen conditions that allow naturally-reproduced or stocked trout populations and those of other coldwater fish species (e.g., slimy sculpin) to persist from year to year. Coldwater streams in Michigan typically provide these conditions due to substantial contributions of groundwater to their stream flows. Such streams are established by Director's action and designated as trout resources by Fisheries Order 210.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																				
1	6120 - Lowland Cedar	Poletimber Well	17.0	140	111-140	N/A	<p>The stand was seen from adjacent stand 2 during a walk through. There are dead tops-mortality in tamarack and black spruce which have lowered their occurrence in the canopy.</p> <p>YOE 2015 Comments: Northwestern portion of stand was cut in 1960's to feed deer. Found cedar seedlings 6-18 inches high in several places in that area. Fir is hit hard by SBW. Found tamarack dying from Larch beetle in several places. Found cedar seedlings 2-3 inches high in forest floor.</p>																																																				
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2	42340 - Upland Spruce/Fir	Poletimber Poor	1.9	36	1-50	N/A	<p>This stand was previously typed as upland brush. The open areas are filling in with seedlings. There are some mature spruce and fir that have signs of spruce budworm.</p> <p>YOE 2015 Comments: Mostly a low hill with northern and eastern edges are low ground with some tag alder, balsam fir and black spruce edging in. Slowing regenerating to F stand. Was probably cut in the 1970's in winter to feed deer.</p>																																																				
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3	6121 - Tamarack	Sapling Poor	34.2	6	Immature	N/A	<p>Tamarack and black spruce are the most abundant seedling present with tamarack up to 6' tall. The black spruce and balsam are up to 3' tall. Good distribution throughout stand. Density right now would almost be ideal to minimize overcrowding stresses. White pine seedlings are also present.</p> <p>Comments from updating after timber sale: This stand was clearcut in 2018 on contract 025-15-01. The pine was retained along with all cedar greater than 8 inches in the western half of the stand. There was also a retention patch retained of better-quality cedar on the south end of the stand. The stand will regenerate with a mix of spruce and tamarack primarily.</p>																																																				
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4	6121 - Tamarack	Sapling Well	12.8	22	Immature	N/A	<p>This stand is made up of three separate pieces that were strip cut out of the parent stand during January 1999 by the Rabbit Foot Sale (33-040-95-01) timber sale. The tamarack is thick with black spruce and paper birch somewhat shorter than the tamarack. Good stocking almost seems too thick.</p> <p>YOE 2015 Comments: Stand last treated in 1998 as lowland conifer strip cuts on contract 040-95. Excellent regeneration 8-10 feet tall. Found cedar seedlings ranging from 2-6 inches tall to 18 inches tall growing from under the tamarack and spruce.</p>																																																				
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6	4130 - Aspen	Sapling Well	11.1	8	Immature	N/A	This stand was clearcut in September of 2015 by the Pemene Creek Crossing (33-025-15-01) timber sale. The oak, pine, and hemlock were retained. The northern portion of this stand around the opening is being planted with red pine along with the adjacent stand.																																			
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7	3102 - Grass	Nonstocked	1.2		Unspecified	No	This is a grassy opening with tree species encroaching. It was last prescribe burned in 1998.																																			
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8	4130 - Aspen	Sapling Well	52.3	22	Immature	N/A	This stand was cut in the fall of 1998 by the Rabbit Foot Sale (33-040-95-01) timber sale. Nice aspen regeneration with scattered large mixed pine, oak and balsam. YOE 2015 Comments: Occasional low ground with some low ponding areas (vernal pools?). Pockets of r and w pine logs. Some areas are heavier to big-toothed aspen. Scattered red oak log trees.																																			
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9	3102 - Grass	Nonstocked	3.5		Unspecified	Managed Opening	This is a grassy opening with tree species encroaching. Last prescribe burn was in 1998.																																			
10	3102 - Grass	Nonstocked	3.9		Unspecified	Managed Opening	This is a grassy opening with tree species encroaching. Last prescribe burn was in 1998.																																			
11	4311 - Pine, Aspen Mix	Sapling Medium	23.5	7	Immature	N/A	A portion of the stand was treated with herbicide. Areas that were wet or had taller regeneration did not get sprayed with herbicide leaving a mix of species. Red pine seedlings were flat planted in the open areas. This is now a mixed species stand that does not meet the 40 acre minimum size requirement for continued red pine plantation management. The whole stand would need to have herbicide re-applied and then replanted with red pine seedlings. The original treatment goal of planting to a red pine plantation was not met. Issues came up during the process that did not adequately remove competition, time lag allowed for competition to get taller than sprayer capability, pockets of wet areas during the treatments and planting phase. Previous to YOE 2025 Comments: This stand was sprayed with herbicide in 2018 and planted with red pine in 2019, without trenches. The low areas within the stand did not get sprayed with herbicide or planted. Stand was clearcut in 2015 on contract 025-15-01. The stand is on FTP 33-733 to be planted with red pine, per TMS recommendations.																																			
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13	6128 - Lowland Coniferous, Mixed Deciduous	Sapling Medium	20.1	3	Immature	N/A	This stand was clearcut in 2018 on contract 025-15-01. The pine and oak was retained. Also a 100' buffer was retained along Pemene Creek and a denser clump of cedar was retained in the southwest part of the stand.																																													
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14	6120 - Lowland Cedar	Poletimber Well	6.4	121	141-170	N/A	This stand was viewed from the adjacent stands agreeing with previous YOE data.																																													
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15	4130 - Aspen	Sapling Well	46.0	15	Immature	N/A	Stand was treated in 2007 by the Trolls Beginning (33-033-05-01) timber sale. Most of the merchantable aspen and spruce were cut leaving a low density of aspen to reduce sprouting of the root system. There is variable size to the aspen with some larger trees on decline but majority are 2-6" dbh.																																													
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16	4199 - Other Mixed Upland Deciduous	Sawtimber Well	31.3	80	81-110	N/A	Maturing hardwood stand containing mostly red maple and red oak. There is trace amounts of sugar maple, aspen, birch, red pine, balsam and spruce.																																													
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																	
17	42200 - Natural White Pine	Sawtimber Well	22.7	94	51-80	N/A	White pine dominated stand with oak and scattered red pine. The stand was shelterwood thinned in 2007 by the Trolls Beginning (33-033-05-01) timber sale. Still a low density of white pine seedlings. There is a trace of other species such as aspen, balsam, maple and spruce. YOE 2015 Comments: Some white pine seedlings less than 3 feet tall. Aspen and red maple (2-3" dbh) in pockets where last treatment was more open.																																																	
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18	42200 - Natural White Pine	Sawtimber Well	14.3	94	81-110	N/A	Stand was shelterwood treated in 2007 by the Trolls Beginning (33-033-05-01) timber sale. Canopy has filled and time for another thinning. There is a trace of other species such as oak, maple, balsam and spruce. YOE 2015 Comments: High ground with many scattered exposed boulders and some exposed outcroppings. Mostly low quality white pine logs. Scattered pockets of aspen and pin cherry saplings and white spruce seedlings in more open areas from last treatment.																																																	
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19	4130 - Aspen	Poletimber Well	58.4	33	Immature	N/A	Stand was treated in 1989 by the Pemene Creek Block (33-034-85) timber sale. Variable diameter to the aspen. YOE 2015 Comments: Mostly high ground but some lower ground included. Fair quality aspen due to poor site quality. Some tag alder on lower ground. Mostly well stocked aspen but areas are lightly stocked and more open. Other observed species: Pin oak, balsam fir, pin cherry, red maple, white spruce.																																																	
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20	3102 - Grass	Nonstocked	11.6		Unspecified	Managed Opening	This is a grassy opening that has pin cherry and aspen saplings. YOE 2015 Comments: mostly open with aspen in pockets and perimeter and prescribe burned in 1998.																																																	
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21	6120 - Lowland Cedar	Poletimber Medium	2.7	85	111-140	N/A	Small stand of cedar dominated lowland part of the Pemene Creek buffer. YOE 2015 Comments: Damage from SBW on spruce and fir. Other observed species: balm. SCA --Pemene Creek Riparian corridor.																																																	
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22	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Medium	27.0	120	51-80	N/A	this is a forested stand containing Pemenee Creek and buffer. Some grassy areas present along creek.																																														
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23	6120 - Lowland Cedar	Poletimber Well	14.1	136	111-140	N/A	YOE 2015 Comments: Stand is mix of leave strips and cut strips from harvest in 1967. Most of the stand is the leave strips and buffer along creek to the west side of the stand. Leave strips are mostly cedar with some black spruce, tamarack and paper birch. Balsam fir and white spruce have died out from age and spruce budworm infestation. Cut strips are balsam fir, white and black spruce, paper birch and balm. The balsam fir and spruce are hit hard from SBW and are dying out. Cedar seedlings were found in the more open areas of the cut strips. SCA removal--it is not a unique stand. It is similar to most mixed cedar and lowland conifer stands. Due to SBW most of the mature balsam fir has died and is either standing snags or down. However, a riparian corridor along the creek should be retained.																																														
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24	6220 - Alder/willow	Nonstocked	1.8		Unspecified	No	YOE 2015 Comments: This is a wet area east of old abandoned railroad grade. SCA removal--the stand is not unique but pretty typical to most areas resulting from impeded water flow--the old RR grade. It will not be treated but if surrounding stands are treated a buffer could be retained.																																														
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25	6120 - Lowland Cedar	Sawtimber Medium	7.0	96	51-80	N/A	Cedar dominated stand observed from adjacent stand.																																														
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26	4134 - Aspen, Spruce/Fir	Sapling Medium	25.0	6	Immature	N/A	Regeneration is filling in open areas. Some seedlings starting to show up. Stand will have full canopy next inventory cycle as the seedlings get bigger.																																														
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																															
27	4130 - Aspen	Sapling Well	23.0	7	Immature	N/A	Good aspen regeneration with scattered large oak, pine and a retention patch in the middle.																																															
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28	6220 - Alder/willow	Nonstocked	7.8		Immature	No	Wet marshy area with some scattered ash trees. This seems to have been created when the railroad grade was constructed and poor cross drainage applied.																																															
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29	4130 - Aspen	Sapling Well	37.5	7	Immature	N/A	Stand was clearcut in May of 2016 by the Pemene Creek Crossing (33-025-15-01) timber sale retaining the oak, pine and hemlock. Aspen has regenerated well with some other species mixed in. There is a trace of red pine, black spruce, and tamarack. The southern portion of the stand was moved into Compartment 8 from 9 due to access issues created by the Pemene and Hammond Creeks.																																															
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30	4136 - Aspen, Mixed Conifer	Sapling Well	5.8	22	Immature	N/A	This stand was moved from Compartment 9 during its last YOE. The stand was cut in May 2001 by the Hammond Brook Block (33-022-00-01) timber sale. All the cedar was retained along with some pine, spruce and tamarack seed trees. This is now an aspen mixed conifer stand. The spruce and fir look healthy with seemingly a spruce budworm die back.																																															
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31	122 - Road/Parking Lot	Nonstocked	2.2		Unspecified	No	County Road 577 and ROW.																																															



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32	42340 - Upland Spruce/Fir	Sapling Poor	1.9	20	Immature	N/A	This stand is filling in with tree species and will become part of the surrounding stand soon. YOE 2015 Comments: gravel pit and grassy opening with trees encroaching from the edges.																																																																	
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33	4134 - Aspen, Spruce/Fir	Sapling Well	32.9	22	Immature	N/A	Stand was cut in 2001 by the Lite Spam (33-025-00-01) timber sale. The stand was harvested on both sides of County Road 577. All trees were cut except cedar, oak, hemlock, black cherry and those pine and spruce marked with green paint. The stand is filling in with more spruce and pine. There are large red and white pine seed trees. A trace of jack pine, oak and tamarack. YOE 2015 Comments: Density varies from well stocked to more open. Mostly high ground but some low wet pockets with cattails that might be vernal pools in wet years. Portions of stand were cultivated fields in the 1939 photos with a homestead in the eastern portion along the N-S road in the eastern portion of the stand which was a county road at one time. Discussion with neighbor recalled his uncle remembering old residents sitting on porches and a pond near the house. Other observed species: red oak.																																																																	
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34	429 - Mixed Upland Conifers	Sapling Medium	8.8	15	Immature	N/A	This has three previous stands merged together. The west portion is an old gravel pit that continues to fill in with mixed species. There is a strip of larger pine dominated in the middle running north and south with some larger mixed conifers as well. The east side is an old opening that might have been a farm field years ago. This portion is also growing in with a variety of tree species and larger aspen. Age variable in aspen, balm, cherry, balsam, spruce, tamarack, white and red pine. YOE 2015 Comments: gravel pit and grassy opening with trees encroaching from the edges.																																																																	
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35	6120 - Lowland Cedar	Poletimber Well	9.7	74	81-110	N/A	The north side of creek is slight upland with spruce, pine, aspen that are sapling size. The DeHaas Creek runs along the south side of this stand including the buffer and butting up against private property on the north, west and east side. YOE 2015 Comments: This stand has cedar along DeHaas Creek, which flows through the stand. But, the other parts of the stand is a mix of species. There is lots of SBW damage, including mortality. This stand is mostly lowland with some upland knobs.																																																																	
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments				
36	4133 - Aspen, Mixed Pine	Poletimber Well	30.9	31	Immature	N/A	<p>Stand was treated in 1991 by the DeHaas Creek Sale (33-024-87) timber sale. All merchantable trees were harvested except cedar, oak and the pine was thinned. There seems to be a higher prevalence of pine and spruce seedlings. The west side of the stand has bigtooth aspen and large pine. There is a trace amount of oak, cherry, maple and red pine.</p> <p>YOE 2015 Comments: Nicely regenerated aspen stand with spruce/fir/wpine understory. Some SBW damage on spruce/fir. Occasional pockets of residual white and red pine log trees. Also, scattered trees of residual w/r pine and white spruce. Mostly well stocked regen with some areas more open. Other observed species: red pine, cedar.</p>				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
White Spruce		10	Pole	6		Balsam Fir		Medium	< 5 feet	Sapling	
Balsam Fir		5	Sapling	3		White Spruce		Medium	< 5 feet	Sapling	
Quaking Aspen		50	Pole	6	31	White Pine		Medium	5 - 10 feet	Sapling	
White Pine		25	Log	12							
37	42200 - Natural White Pine	Sawtimber Well	21.6	86	81-110	N/A	<p>Stand was treated in 1991 by the DeHaas Creek Sale (33-024-87) timber sale. All merchantable trees were harvested except cedar, oak and the pine was thinned. The stand is almost pure white pine with some red pine and oak.</p> <p>YOE 2015 comments: Stand density varies. Some areas could be lightly thinned but others are not yet ready. Some areas have heavy understory of balsam fir and white spruce. Other observed species: white spruce poles, quaking aspen poles.</p>				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
White Pine		90	XLog	18	86	Balsam Fir		Low	5 - 10 feet	Sapling	
Red Oak		5	Log	14		White Spruce		Low	10 - 20 feet	Sapling	
Red Pine		5	Log	12							
38	4110 - Sugar Maple Association	Sawtimber Well	8.5	75	111-140	N/A	<p>The stand has a smaller overall average dbh with some log sized trees. Dense canopy in need of being opened up.</p> <p>YOE 2015 Comments: Generally fair to poor quality poles due to past management though the soil type indicates good productivity for northern hardwoods AVO. Stand density is variable ranging from lightly stocked to well stocked. Other observed species: balm, balsam fir, white ash.</p>				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Basswood		20	Log	14		White Spruce		Low	10 - 20 feet	Sapling	
Bigtooth Aspen		5	Log	10		Ironwood		Low	10 - 20 feet	Sapling	
Sugar Maple		60	Log	10	75						
White Pine		5	Log	16							
Red Oak		10	Log	14							