



Compartment Review Presentation

Escanaba Forest Management Unit

Compartment 33019

Entry Year 2024

Acreage: 547

County Menominee

Management Area: Menominee End Moraine

Stand Examiner: Dustin Salter

Legal Description:

T36N R28W Sections 9, 16, and 21

Identified Planning Goals:

The high deer population in this area, has caused a significant change in the future forest. The deer have heavily browsed and killed the majority of the hardwood and oak stump sprouts following the harvests from the last entry. The white pine regeneration is also being heavily browsed. Oak wilt has been a problem in the past within the compartment. There have been many oak wilt epi-centers treated. There is an active epi-center in stand 6, along the compartment line. This epi-center will be treated as funding is available. Stands 5, 7, and 9 all had oak wilt treatments. The deer heavily browsed and killed nearly all of the stump sprouts, so now stands 5 and 7 are being planted with white spruce and stand 9 is being planted with red pine. The areas with heavy mortality are converting to ironwood and spruce/fir. The spruce budworm is also still active in the area. The majority of the balsam fir has already died out and most of the spruce is heavily defoliated. The spruce budworm has been active in this area for over twenty years. The eastern larch beetle is also present and has caused a significant amount of tamarack mortality.

Soil and topography:

Topography is level with some rolling hills. Soils include well-drained sandy loams and poorly drained black muck over sandy loam. Prominent soil series are Pemene, Lupton and Cathro.

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

This compartment is located in the center of a block of state forest land that is about 20 miles long and 8 miles wide in the southwestern part of Menominee County. This compartment is broken up into two different sections, with private land between them. The majority of the compartment is bounded by private property. The private property has numerous camps and is used primarily for recreation.

Unique Natural Features:

None Known.

Archeological, Historical, and Cultural Features:

None Known.

Special Management Designations or Considerations:

None.

Watershed and Fisheries Considerations:

The northern portion of this compartment contains Rosebush Creek and the southeastern portion runs along the Shakey River. A 100' buffer is recommended for both of these waterbodies; buffers are recommended to protect these areas in accordance with BMPs.

Wildlife Habitat Considerations:

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 aggregate pits are known to exist within five miles. There is good sand & gravel potential on the drumlins in the area, but the compartment appears to be primarily wetlands, and sand & gravel development potential appears low. There has been some sparse mineral exploration in the area north of the compartment in the past, and the Back Forty project is roughly 2 miles southwest. There may be potential for discovery of additional ore deposits, like Back Forty, in the area. There is no current mineral leasing in the compartment.

Vehicle Access:

The Chalk Hills Road, which is a county road runs between the two sections of this compartment. The northern portion can be accessed through state land off a few two track roads. The only access into the southern portion of the compartment is

on two track roads through private property.

Survey Needs:

No survey corners will be needed.

Recreational Facilities and Opportunities:

There are no developed recreational facilities within the compartment. This area is used primarily for hunting, firewood cutting, and four wheeling.

Fire Protection:

This compartment is comprised of primarily deciduous cover types, so the risk of a large fire is low. There is heavy sedge through most of the upland stands, so it has the potential to carry a fire. We have had a fire burn through the sedge in the recent past. There are no water sources within the compartment. There is a location along the Chalk Hills Road, where the Shakey River crosses that the VFD's have set up to draft water.

Additional Compartment Information:

The following reports from the Inventory are attached:

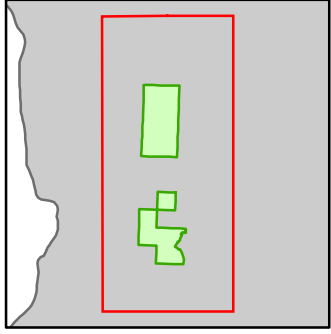
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

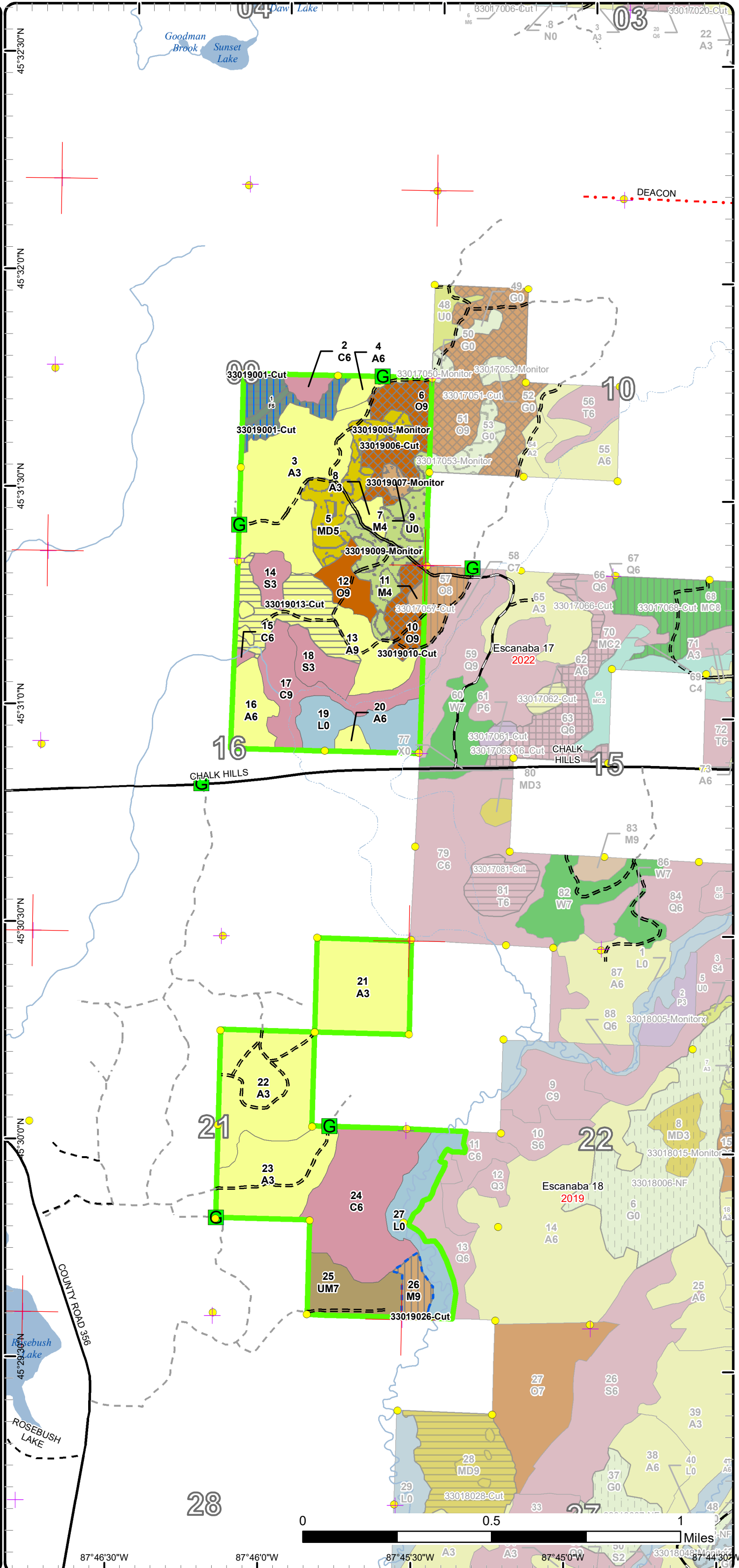
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

Cover Type & Treatments Map

Compartment: 19
 T36N-R28W Sec. 09, 16, and 21
 County: Menominee
 Unit: Escanaba
 Mgmt Area: Menominee End Moraine
 YOE: 2024
 Acres: 546.8 GIS Calculated
 Examiner: Dustin Salter
 Map Revised: 6/27/2022
 Map Phase: Web-Post

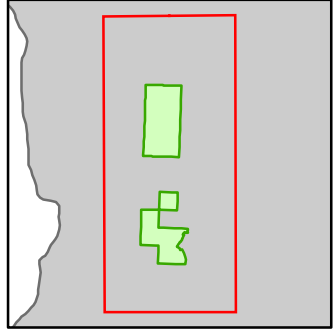


- Miris Corners
- Remonumented Section Corners
- Survey Grade Corners
- - - Counties
- DNR - Primary Forest Road
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Federal / State / County - Paved Road
- - - Federal / State - Dirt / Gravel Road
- - - County - Gravel Road
- - - Private - Dirt / Gravel Road
- Intermittent Stream
- Lake/Pond
- Perennial River
- Lakes and Rivers
- G** Gate
- G** Compartment Boundary
- ▨ Treatments with Site Conditions
- ▨ Selection (Group, Single Tree)
- ▨ Clearcut (w/Reserves)
- ▨ Seed Tree (w/Reserves)
- ▨ Regeneration Survey
- ▨ Shelter Wood (w/Reserves)
- 411 - Northern Hardwood
- 412 - Oak Types
- 413 - Aspen
- 419 - Mixed Upland Deciduous
- 423 - Other Upland Conifers
- 430 - Upland Mixed Forest
- 612 - Lowland Coniferous Forest
- 320 - Upland Shrub
- 622 - Lowland Shrub

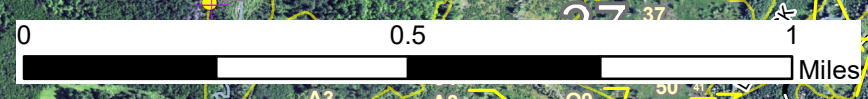
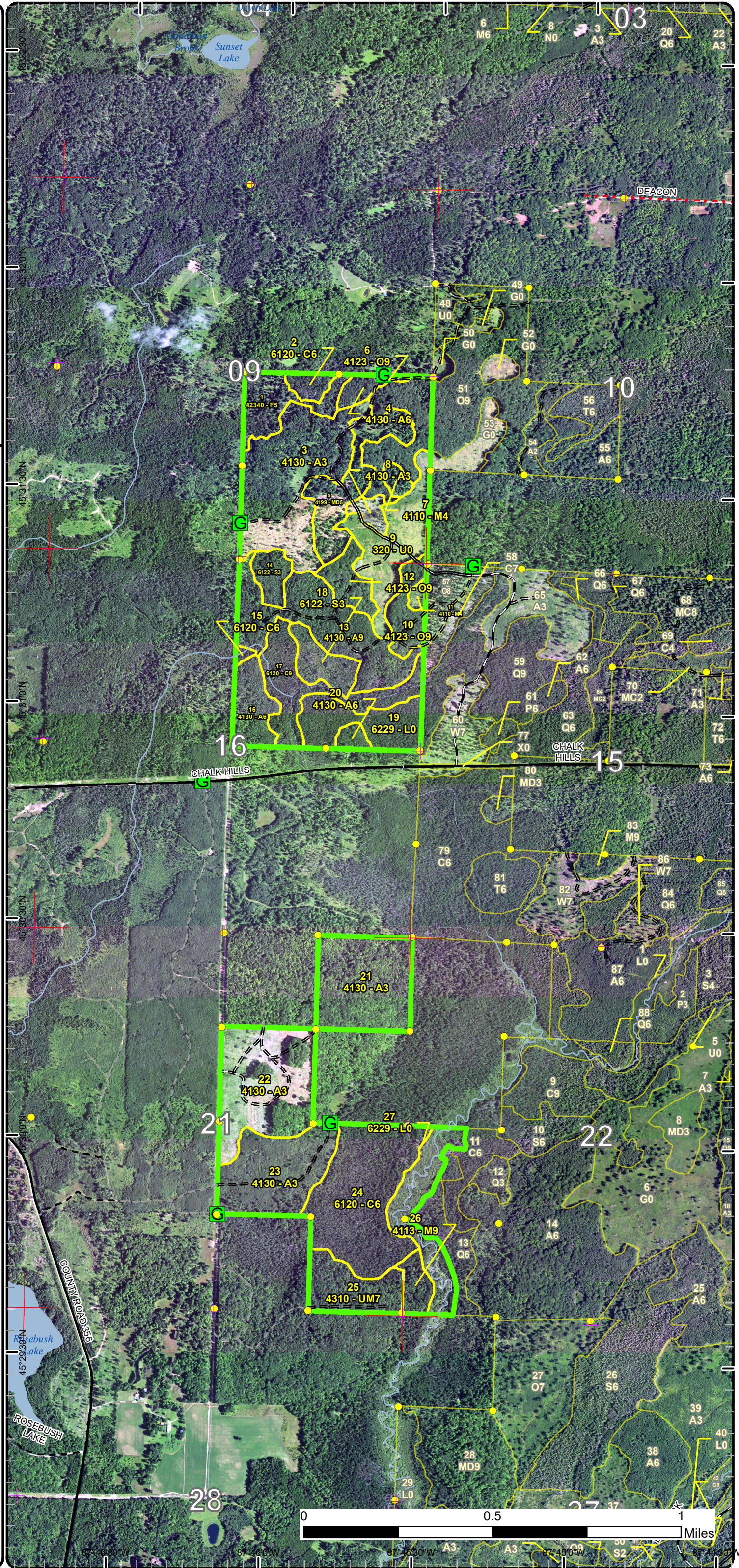


Stand Boundary Map

Compartment: 19
T36N-R28W Sec. 09, 16, and 21
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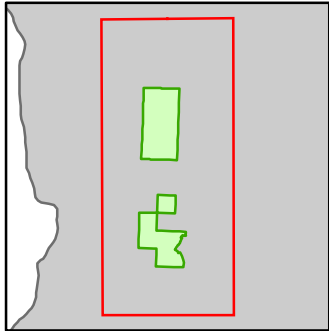


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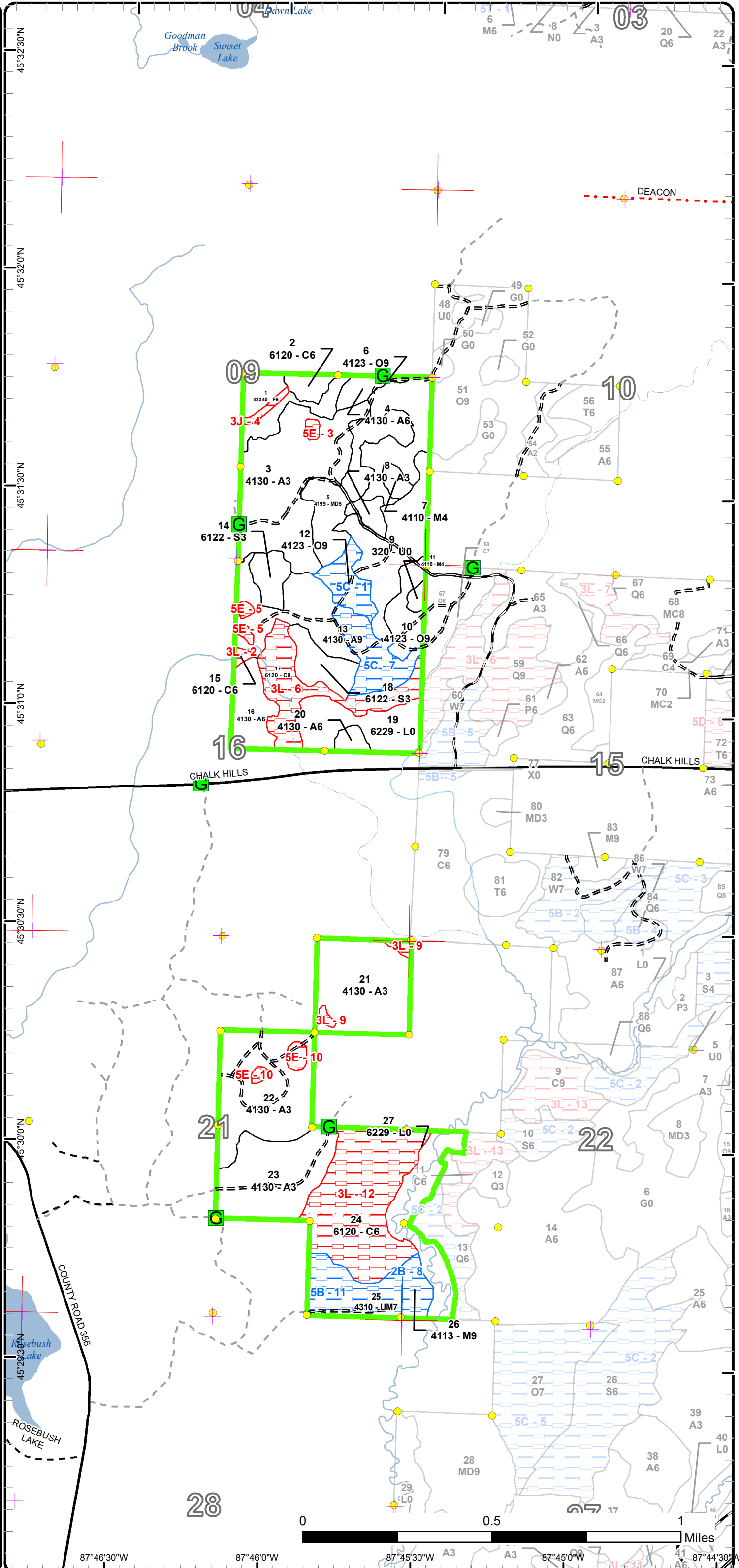


Special Conservation Areas

Compartment: 19
 T36N-R28W Sec. 09,16, and 21
 County: Menominee
 Unit: Escanaba
 Mgmt Area: Menominee End Moraine
 YOE: 2024
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 Map Revised: 6/27/2022
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- Lake/Pond
- Perennial River
- Lakes and Rivers
- Gate
- Compartment Boundary
- Available w/ Constraints
- 5B: Maintain for regeneration purposes
- 5C: Delay treatment for age/size class diversity or exceptional site quality
- Unavailable
- 3J: Water quality / BMPs (stream, river, or lake)
- 3L: Other wildlife concerns
- 5E: Long-Term Retention
- Stand Boundaries
- Cold Water Streams



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+	Unnever-Aged	Total
Aspen	0	148	37	5	17	0	43	0	0	0	0	0	0	0	0	0	0	0	250
Cedar	0	0	0	0	0	0	0	0	0	0	0	5	83	0	0	0	0	0	88
Lowland Shrub	47	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	47
Lowland Spruce/Fir	0	0	0	0	19	0	0	0	0	0	0	0	0	0	0	0	0	0	19
Mixed Upland Deciduous	0	0	0	24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24
Northern Hardwood	0	0	0	0	0	0	2	0	3	0	0	7	0	0	0	0	0	0	12
Oak	0	0	0	0	0	0	0	0	0	0	0	43	0	0	0	0	0	0	43
Upland Mixed Forest	0	0	0	0	0	0	0	0	0	0	0	20	0	0	0	0	0	0	20
Upland Shrub	29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	29
Upland Spruce/Fir	0	0	0	0	0	0	0	0	0	16	0	0	0	0	0	0	0	0	16
Total	76	148	37	29	36	0	45	0	3	16	0	75	83	0	0	0	0	0	548



Report 2 – Treatment Summary

Escanaba Mgt. Unit

Year of Entry: 2024

Acres of Harvest

Compartment 19

Total Compartment Acres: 547

Commercial Harvest - 72
 Harvests with Site Condition - 7
 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	25	0	0	0	0	0	0	0	0	25
Northern Hardwood	0	0	0	0	7	0	0	0	0	7
Oak	0	33	0	0	0	0	0	0	0	33
Upland Spruce/Fir	0	0	0	15	0	0	0	0	0	15
Total	25	33	0	15	7	0	0	0	0	80

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	80	0	0	0	0	0	56	0	0	135
Next Step	0	0	29	0	0	27	80	0	0	135
Total	80	0	29	0	0	27	135	0	0	270



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	33019001-Cut	14.6	42340 - Upland Spruce/Fir	Poletimber Medium	83	1-50	Harvest	Seed Tree with Retention	429 - Mixed Upland Conifers	Two-Aged	No
<p><u>Prescription</u> Cut all trees greater than three (3) inches; except retain pine and cedar seed trees. Also retain a buffer along the small drain on the south edge of the stand.</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> Pine, spruce/fir, aspen, balm, tamarack, and maple.</p> <p><u>Other Comment:</u> This stand is a mix of mature white pine with a younger age class of spruce/fir. All of the species are mature and are ready to be harvested. The spruce/fir has been heavily defoliated by the spruce budworm. This stand will be seed tree harvested. This will open the stand to allow partial sunlight in to begin to regenerate pine and spruce/fir. The residual seed trees will provide partial shade. There is also a drain that flows through the southern edge of the stand, that will be buffered.</p> <p>WLD Comments: This stand is in conditional range and has a canopy composition of 12% cedar. Much of the cedar is scattered, and lacking in shelter qualities. The biologist and forester agreed to retain some clumps of cedar for seed. Some cedar will be harvested.</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2023</p>											
6	33019006-Cut	21.5	4123 - Red Oak	Sawtimber Well	108	81-110	Harvest	Single Tree Selection	4122 - Oak, Pine	Two-Aged	No
<p><u>Prescription</u> Thin the stand down to 60 basal area, leaving a mix of species. As equipment is available, treat the oak wilt epi-center.</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> Oak, maple, pine, and spruce/fir.</p> <p><u>Other Comment:</u> Mature good quality red oak stand, that is ready to be thinned. This will improve the growth of the residual stems and remove the poor quality stems. This stand was last thinned in 2016 on contract 029-14-01. There is an oak wilt epicenter on the west edge of the stand.</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2023</p>											
10	33019010-Cut	11.2	4123 - Red Oak	Sawtimber Well	108	81-110	Harvest	Single Tree Selection	4122 - Oak, Pine	Two-Aged	No
<p><u>Prescription</u> Thin stand down to 60 basal area, leaving a mix of species.</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> Oak, maple, pine, and spruce/fir.</p> <p><u>Other Comment:</u> Mature good quality red oak stand, that is ready to be thinned. This will improve the growth of the residual stems and remove the poor quality stems. This stand was last thinned in 2016 on contract 029-14-01.</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2023</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 33019013-Cut	25.1	4130 - Aspen	Sawtimber Well	50	51-80	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
<p><u>Prescription</u> Cut all trees greater than three (3) inches at DBH; except retain some white pine seed trees on the east end of the stand. Also, retain some dense clumps of oak, along with the dense patches of cedar on the east end. The eastern half of the stand will be harvested this entry and the western half will be harvested next entry, to break up the aspen age classes.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Aspen, balm, maple, oak, pine, and spruce/fir.</p> <p><u>Regen:</u></p> <p><u>Other</u> Mature good quality aspen stand, with some older mature oak, maple, spruce, and cedar. This stand needs to be harvested while the aspen is vigorous enough to sprout following the harvest. There is a small amount of pine, birch, and tamarack but not enough to show in the canopy species.</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2023</p>										
26 33019026-Cut	7.1	4113 - R.Maple, Conifer	Sawtimber Well	107	81-110	Harvest	Shelterwood with Retention	4319 - Mixed Upland Forest	Two-Aged	No
<p><u>Prescription</u> Cut all trees greater than three (3) inches at DBH; except mark to retain 20 to 30 basal area. There will be a mix of species retained. These residual trees will provide seed and partial shade for the conifer species. Leave a higher basal area closer to the river.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Maple, pine, birch, spruce/fir, and hemlock.</p> <p><u>Regen:</u></p> <p><u>Other</u> Mature red maple and upland conifer stand. All of the species are mature and the stand should be harvested, but with this stand being so small and the access issues this stand will have a site condition applied to it. This stand should be shelterwood cut, to begin to regenerate the stand.</p> <p><u>Comment:</u></p> <p><u>Site Condition</u> Unknown Access</p> <p><u>Proposed Start Date:</u> 10/1 /2023</p>										

Approved Treatments:

5 33019005-Monitor	24.0	4199 - Other Mixed Upland Deciduous	Poletimber Medium	27	1-50	Monitoring	Artificial Regen(1yr)	42311 - Planted Spruce, Mixed Deciduous	Two-Aged	No
<p><u>Prescription</u> Regeneration survey following planting.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Pesticide, Skidder - Release</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Planted spruce, white pine, and red pine. The stand also has maple and oak stems.</p> <p><u>Regen:</u></p> <p><u>Other</u> Percent to Treat = 100%</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2023</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
7 33019007-Monitor	3.1	4110 - Sugar Maple Association	Poletimber Poor	75	1-50	Monitoring	Artificial Regen(1yr)	42311 - Planted Spruce, Mixed Deciduous	Two-Aged	No
<p><u>Prescription</u> Regeneration survey. <u>Specs:</u> <u>Next Step</u> ; Pesticide, Skidder - Release <u>Treatments:</u> <u>Acceptable</u> Maple, spruce/fir, and pine. <u>Regen:</u> <u>Other</u> Percent to Treat = 100% <u>Comment:</u> <u>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /2022</p>										
9 33019009-Monitor	28.6	320 - Upland Shrub	Nonstocked	0	Unspecified	Monitoring	Artificial Regen(1yr)	4211 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> Regen check one year after the initial red pine planting. <u>Specs:</u> <u>Next Step</u> Planting, Initial Plant <u>Treatments:</u> <u>Acceptable</u> Planted red pine. <u>Regen:</u> <u>Other</u> Percent to Treat = 100% <u>Comment:</u> <u>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /2022</p>										

Total Treatment Acreage Proposed: 135.2

Report 4 – Site Conditions

Escanaba Mgt. Unit
Dustin Salter : Examiner

Compartment: 19
Year of Entry: 2024

Availability for Management

Total Acres	Acres Available	Acres Avail		Acres Not Available	Dominant Site Conditions					
		With Condition			2B	5B	5C	3J	3L	5E
250	226	16	8	Aspen			16		2	6
88	5	0	83	Cedar					83	
47	47	0	0	Lowland Shrub						
19	19	0	0	Lowland Spruce/Fir						
24	24	0	0	Mixed Upland Deciduous						
12	5	7	0	Northern Hardwood	7					
43	33	10	0	Oak			10			
20	0	20	0	Upland Mixed Forest		20				
29	29	0	0	Upland Shrub						
16	15	0	2	Upland Spruce/Fir				2		
547	401	53	93	Total Forested Acres	7	20	26	2	85	6
	73%	10%	17%	Relative Percent						

**Due to limitations in the current Site Conditions Analysis tool, all nonforested acres are considered available. Future development will enable analysis of nonforested types.*

Site No.	Dominant Site Cond Availability	Dominant Site Condition	Acres	Other Site Condition	Other Site Condition	Other Site Condition	Other Site Condition
1	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	10	Unspecified	Unspecified	Unspecified	Unspecified
Comments: There are a number of mature high quality red oak stands in the compartment. By delaying the treatment, there will be oak to harvest each entry period.							
2	Unavailable	3L: Other wildlife concerns	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
3	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Escanaba Mgt. Unit
Dustin Salter : Examiner

Compartment: 19
Year of Entry: 2024

4	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
5	Unavailable	5E: Long-Term Retention	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
6	Unavailable	3L: Other wildlife concerns	26	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
Comments: Rosebush Creek flows through this stand. This stand is also factor limited due to the high percentage of cedar and the deer winter range guidelines.							
7	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	16	Unspecified	Unspecified	Unspecified	Unspecified
Comments: This part of stand 13 is being delayed, to break up the large aspen stand. This way the aspen age classes getting more balanced over time.							
8	Available	2B: Unknown if access through adjacent landowner(s) is possible	7	Unspecified	Unspecified	Unspecified	Unspecified
Comments: This stand is small, so we might not be able to sell the sale. Two different landowners would need to give permission to access this stand.							
9	Unavailable	3L: Other wildlife concerns	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Escanaba Mgt. Unit
Dustin Salter : Examiner

Compartment: 19
Year of Entry: 2024

10	Unavailable	5E: Long-Term Retention	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
11	Available	5B: Maintain for regeneration purposes	20	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Shelterwood harvest.							
12	Unavailable	3L: Other wildlife concerns	56	Unspecified	Unspecified	Unspecified	Unspecified
Comments: This stand is factor limited due to the high percentage of cedar and the deer winter range guidelines.							

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
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Comments



Report 6 – EXISTING SPECIAL CONSERVATION AREA DETAILS

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

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

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



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																											
1	42340 - Upland Spruce/Fir	Poletimber Medium	16.3	83	1-50	N/A	This stand is a mix of mature white pine with a younger age class of spruce/fir. All of the species are mature and are ready to be harvested. The spruce/fir has been heavily defoliated by the spruce budworm. This stand will be seed tree harvested. This will open the stand to allow partial sunlight in to begin to regenerate pine and spruce/fir. The residual seed trees will provide partial shade. There is also a drain that flows through the southern edge of the stand, that will be buffered.																																											
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2	6120 - Lowland Cedar	Poletimber Well	4.7	106	51-80	N/A	Stand was cut in the late winter of 2017 on contract 029-14-01. All species were cut; except cedar. The stand averages 60 basal area of residual cedar. Where the cedar is over 20 basal area, there is little to no regeneration. The residual cedar is small and poor quality.																																											
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3	4130 - Aspen	Sapling Well	56.3	6	1-50	N/A	Stand was clearcut in the summer of 2016 on contract 029-14-01. All species were cut; except some spruce, pine, and oak were retained. One retention patch was also retained. There were two oak wilt epi-centers treated in this stand in 2015.																																											
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4	4130 - Aspen	Poletimber Well	5.2	26	51-80	N/A	Stand was clearcut in 1995 on contract 030-94-01. Some oak was retained, along with some advanced spruce/fir regeneration. The stand is fully stocked with aspen.																																											
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5	4199 - Other Mixed Upland Deciduous	Poletimber Medium	23.9	27	1-50	N/A	This is a two aged stand, with a mix of red maple poles and log sized oak. Only about half of the stand is stocked. During the last inventory period it was approved to trench and plant spruce in the open areas. In 2020, the open areas were trenched. The plan is to plant spruce in 2022. This stand was planted in May of 2022. The trenched areas were planted, along with some flat planting in the other open areas. Part of this stand was clearcut in 1995 and other areas were cut in 2003 as part of an oak wilt sale, there were a few epi-centers of oak wilt that were treated.																																											
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6	4123 - Red Oak	Sawtimber Well	21.6	108	81-110	N/A	Mature good quality red oak stand, that is ready to be thinned. This will improve the growth of the residual stems and remove the poor quality stems. This stand was last thinned in 2016 on contract 029-14-01. There is an oak wilt epicenter on the west edge of the stand.																																					
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7	4110 - Sugar Maple Association	Poletimber Poor	3.1	75	1-50	N/A	Low density maple stand, with very little regeneration. This area was cut in 2003 as part of an oak wilt sale. This stand was approved to trench and plant white spruce, during the last inventory cycle. The stand was trenched in 2020 and will be planted in 2022. This stand was planted in May of 2022.																																					
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9	320 - Upland Shrub	Nonstocked	28.6	0	Unspecified	4211 - Planted Red Pine	This stand was clearcut in 2014 on contract 022-13-01. This stand was clearcut, to treat numerous oak wilt epi-centers. Parts of the stand sprouted with oak and maple, but the deer heavily browsed and killed nearly of the sprouts. This stand was approved to plant red pine in 2020. This stand had herbicide applied in July of 2021. Only about half of the sedge and vegetation was killed. This stand was to be trenched in 2022, but the decision was made to flat plant the red pine without trenches. This stand was planted in May of 2022.																																					
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11	4110 - Sugar Maple Association	Poletimber Poor	1.9	55	1-50	N/A	Low density maple poles, with very little regeneration. This stand was cut in 2014 on contract 022-13-01 to treat an oak wilt epi-center. This stand had a vibratory plow line placed around it. The oak and hardwood that sprouted following the harvest, were heavily browsed and killed by deer. Over time the stand should start to fill in with pine and spruce/fir.																																					
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12	4123 - Red Oak	Sawtimber Well	10.2	108	81-110	N/A	Mature good quality red oak stand that isn't ready to be thinned again yet. This stand was last thinned in 2016 on contract 029-14-01.																																																	
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13	4130 - Aspen	Sawtimber Well	43.0	50	51-80	N/A	Mature good quality aspen stand, with some older mature oak, maple, spruce, and cedar. This stand needs to be harvested while the aspen is vigorous enough to sprout following the harvest. There is a small amount of pine, birch, and tamarack but not enough to show in the canopy species.																																																	
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14	6122 - Black Spruce	Sapling Well	7.6	30	1-50	N/A	Stand was clearcut in 1992 on contract 039-87-01. There were some various sized seed tree clumps retained. There is some cedar regeneration less than 3' tall.																																																	
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15	6120 - Lowland Cedar	Poletimber Well	1.1	112	111-140	N/A	Small moderate to poor quality cedar stand with a mix of other lowland species.																																																	
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16	4130 - Aspen	Poletimber Well	14.2	37	51-80	N/A	Moderate quality aspen stand with a semi open area with mature oak and maple in the southwest part of the stand.																																																	
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17	6120 - Lowland Cedar	Sawtimber Well	26.4	112	111-140	N/A	Mature good quality cedar stand with some denser areas of spruce and tamarack. Rosebush Creek flows through this stand.																																											
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18	6122 - Black Spruce	Sapling Well	11.2	30	1-50	N/A	Stand was clearcut in 1992 on contract 039-87-01. There were some 1/10th acre seed tree patches retained. There is some cedar regeneration present, but less than three feet tall.																																											
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19	6229 - Mixed lowland shrub	Nonstocked	22.4	0	Unspecified	612 - Lowland Coniferous Forest	Stand was cut in the late winter of 2017 on contract 029-14-01. All species were cut, except some seed trees and clumps were retained. There are some spruce, white pine and balsam seedlings showing through the snow. Over time more the stand will continue to regenerate. A very high percentage of the ash and maple stump sprouts from the harvest, have been heavily browsed and killed by deer.																																											
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20	4130 - Aspen	Poletimber Well	3.2	37	51-80	N/A	Fully stocked moderate quality aspen stand, with some mature oak, cedar and spruce/fir within it.																																											
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21	4130 - Aspen	Sapling Well	39.5	5	Immature	N/A	Stand was cut in 2017 under contract 33-028-14-01. Some scattered oak, all white pine and two retention patches were retained. A small oak wilt epi-center in the southwest corner of the stand was treated on the contract as well. A very high percentage of the maple and oak stump sprouts from the harvest, have been heavily browsed and killed by deer.																																											
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22	4130 - Aspen	Sapling Well	47.4	5	Immature	N/A	Stand was cut in 2017 under contract 33-028-14-01. Two retention patches were retained. These patches were dense areas of mature red oak. One of the patches now has oak wilt and is slowly dying out. Due to access issues this epicenter will be hard to treat. The stand regenerated well with aspen. A very high percentage of the maple and oak stump sprouts from the harvest, have been heavily browsed and killed by deer.																																																
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23	4130 - Aspen	Sapling Well	36.8	17	Immature	N/A	Fully stocked moderate quality aspen stand with some residual pine and oak. The stand was clearcut in 2005 on contract 021-04-01. The pine and oak were retained.																																																
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24	6120 - Lowland Cedar	Poletimber Well	55.5	112	81-110	N/A	Low quality cedar stand, with better quality cedar along the transition zones. The majority of the tamarack has died out of this stand, due to the eastern larch beetle. The spruce is dying out due to its age. This stand should have been harvested last entry.																																																
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25	4310 - Pine, Oak Mix	Sawtimber Poor	19.6	107	1-50	N/A	Stand was shelterwood cut during winter of 2017-18 under contract 33-028-14-01. Oak, pine, and cedar were marked to retain. About 30 basal area was retained. The stand is regenerating with a mix of white pine, red maple, and aspen primarily. A very high percentage of the oak and maple stump sprouts have been heavily browsed and killed by deer. The deer are also heavily browsing the pine regeneration.																																																
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26	4113 - R.Maple, Conifer	Sawtimber Well	7.1	107	81-110	N/A	Mature red maple and upland conifer stand. All of the species are mature and the stand should be harvested, but with this stand being so small and the access issues this stand will have a site condition applied to it. This stand should be shelterwood cut, to begin to regenerate the stand.																																																	
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27	6229 - Mixed lowland shrub	Nonstocked	24.2		Unspecified	No	Lowland brush and marsh grass stand, with the Shakey River flowing through it.																																																	
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