



Compartment Review Presentation

Escanaba Forest Management Unit

Compartment 33015

Entry Year 2026

Acreage: 731

County Menominee

Management Area: Menominee-Marquette

Stand Examiner: Dustin Salter

Legal Description:

T36N R27W Sections 9, 16, and 17

Identified Planning Goals:

This compartment is nearly evenly divided between upland and lowland forest. The upland forested areas consist primarily of mixed hardwoods and aspen. The lowland areas are primarily mixed lowland conifer. The northern hardwood stands have been prescribed for a selection harvest. These harvests will improve the residual stems and allow some gaps for regeneration. Three aspen stands are mature and have been prescribed for harvest. These stand had a significant amount of balsam fir, but most has died out due to the spruce budworm. A lowland balsam/ash stand is mature and is also being harvested. One small lowland ash stand is prescribed for harvest, the emerald ash borer is present and causing mortality. There have been numerous lowland harvests completed over the past decade. These stands had significant forest health issues, including eastern larch beetle, spruce budworm, and the threat of the emerald ash borer. These stands are regenerating very well with a mix of species, but with primarily spruce, balsam, and tamarack.

Soil and topography:

The topography of this compartment is flat to gently rolling uplands. The soil types are mostly poorly drained to very poorly drained soils in the lowland conifer areas. The soil type classifications in the lowland areas include Cathro and Ensley soil series. The uplands consist of fine sandy loams, which are moderately drained and include the Onaway soil series.

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

This compartment is located on the western half of Menominee County. Including this compartment, there are three compartments that are isolated from all other state land by two miles. These three compartments are completely surrounded by private property. These compartments are broken up with many private in-holdings. The primary uses of the private property are residential, recreational, and agricultural. The primary use of the state land is recreational. There is an eighty acre parcel of state land within this compartment that has no access to the public, because it is surrounded by private property.

Unique Natural Features:

No Unique Natural Features known.

Archeological, Historical, and Cultural Features:

No Archeological, Historical, or Cultural Features known.

Special Management Designations or Considerations:

None

Watershed and Fisheries Considerations:

This compartment contains Ross Creek, which flows into the Little Cedar River. Ross Creek is technically a Type 1 Trout Stream, however, a 2020 fisheries survey did not capture brook trout and recommended removal of the trout designation on Ross Creek.

Wildlife Habitat Considerations:

The largest cover types in this 731 acre compartment are northern hardwoods (21%), aspen (18%), lowland Conifers (13%) and cedar (12%), with the remainder of the compartment being composed of a scattering of other upland and lowland cover types. 204 acres of treatments are proposed for this YOE, representing about 28% of the compartment. Proposed treatments include single tree selections in northern hardwoods (136 acres), clearcuts in aspen and lowland deciduous cover types (66 acres), and shelterwood treatments in lowland deciduous stands (2 acres). Featured species for this compartment include American Woodcock, Black Bear, White-tailed Deer, and Wild Turkey. Clearcuts and shelterwood treatments which create young forest condition will benefit all of these species.

Mineral Resource and Development Concerns and/or Restrictions

No known potential exists for commercial oil & gas production in this part of the state. The closest known active sand & gravel pit is just over two miles south, but there is some evidence of several former pits in the vicinity of the compartment.

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 local road maintenance. There has been past metallic mineral exploration in the county including remote geophysical surveys, but no known test drilling has occurred within one mile of the compartment. State-owned mineral rights about one mile north are currently nominated for leasing within the compartment. Evidence from geophysical data does not indicate any significant potential for subsurface metallic mineral targets beneath the compartment, but available data is limited.

Vehicle Access:

The Cheese Factory Road and Ziel Lane (County Roads) provide access to the western portion of the compartment. The Klatt Road (State Maintained) provides access to the eastern half of the compartment, with some additional two-track roads branching off of it. There is an eighty acre block that has no roads into it and is only accessible through private property.

Survey Needs:

One registered corner will need to be established.

Recreational Facilities and Opportunities:

There are no developed recreational facilities within the compartment. Overall this area is used primarily for recreation, such as hunting, orving, and snowmobiling.

Fire Protection:

This area poses very little threat from a wildfire. The majority of the uplands have hardwood species and they are surrounded by lowland forest types. There is good access to potential water sources.

Additional Compartment Information:

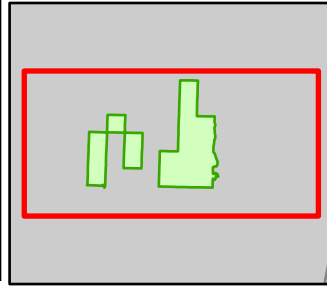
The following reports from the Inventory are attached:

- 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**

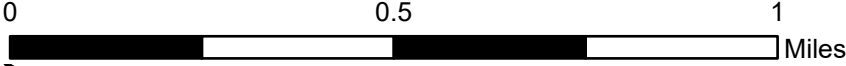
The following information is displayed, where pertinent, on the attached compartment maps:

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

Cover Type & Treatments Map

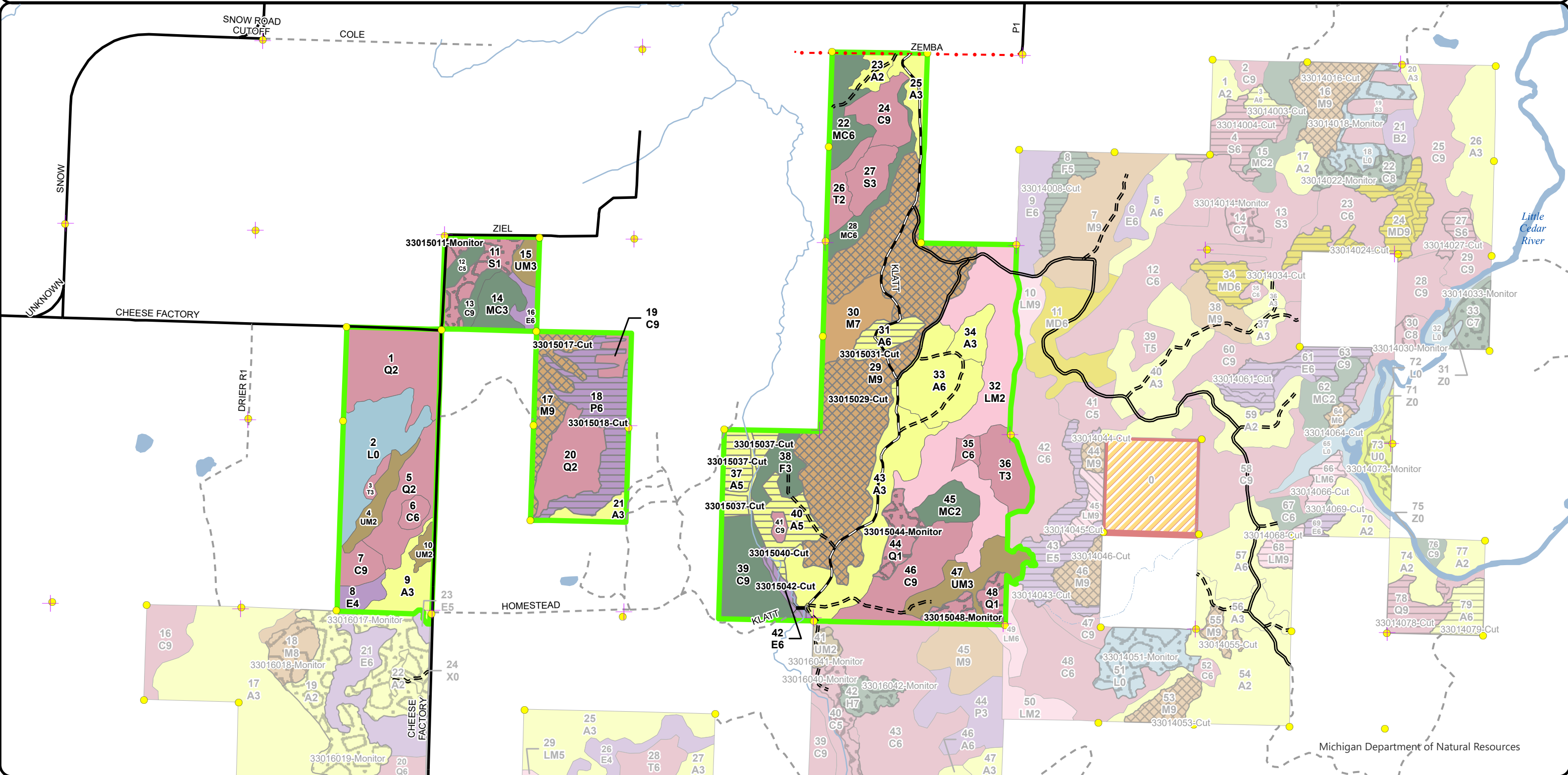


Compartment: 33015
 T36N, R27W, Sec: 9, 16, 17
 County: Menominee
 Unit: Escanaba
 Mgmt Area: Menominee-
 Marquette
 YOE: 2026
 Acres: 731.1 GIS Calculated
 Examiner: Dustin Salter
 Map Revised: 07/15/2024
 Map Phase: Web - Post

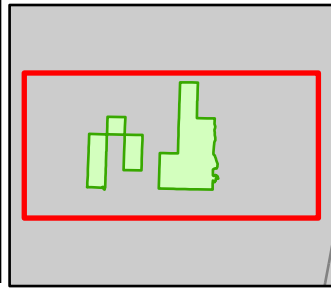


- Bridges
- Survey Grade Corners
- Remonumented Section Corners
- DNR - Primary Forest Road
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Federal / State / County - Paved Road
- County - Gravel Road
- Private - Dirt / Gravel Road
- Intermittent Stream
- Lake/Pond
- Perennial River
- Lakes and Rivers
- Compartment Boundary

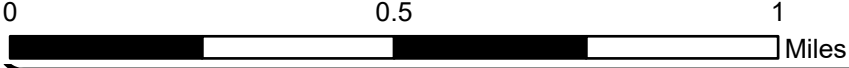
- Counties
- Selection (Group, Single Tree)
- Clearcut (w/Reserves)
- Regeneration Survey
- Shelter Wood (w/Reserves)
- 411 - Northern Hardwood
- 413 - Aspen Types
- 423 - Other Upland Conifers
- 430 - Upland Mixed Forest
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 613 - Lowland Mixed Forest
- 622 - Lowland Shrub



Stand Boundary Map

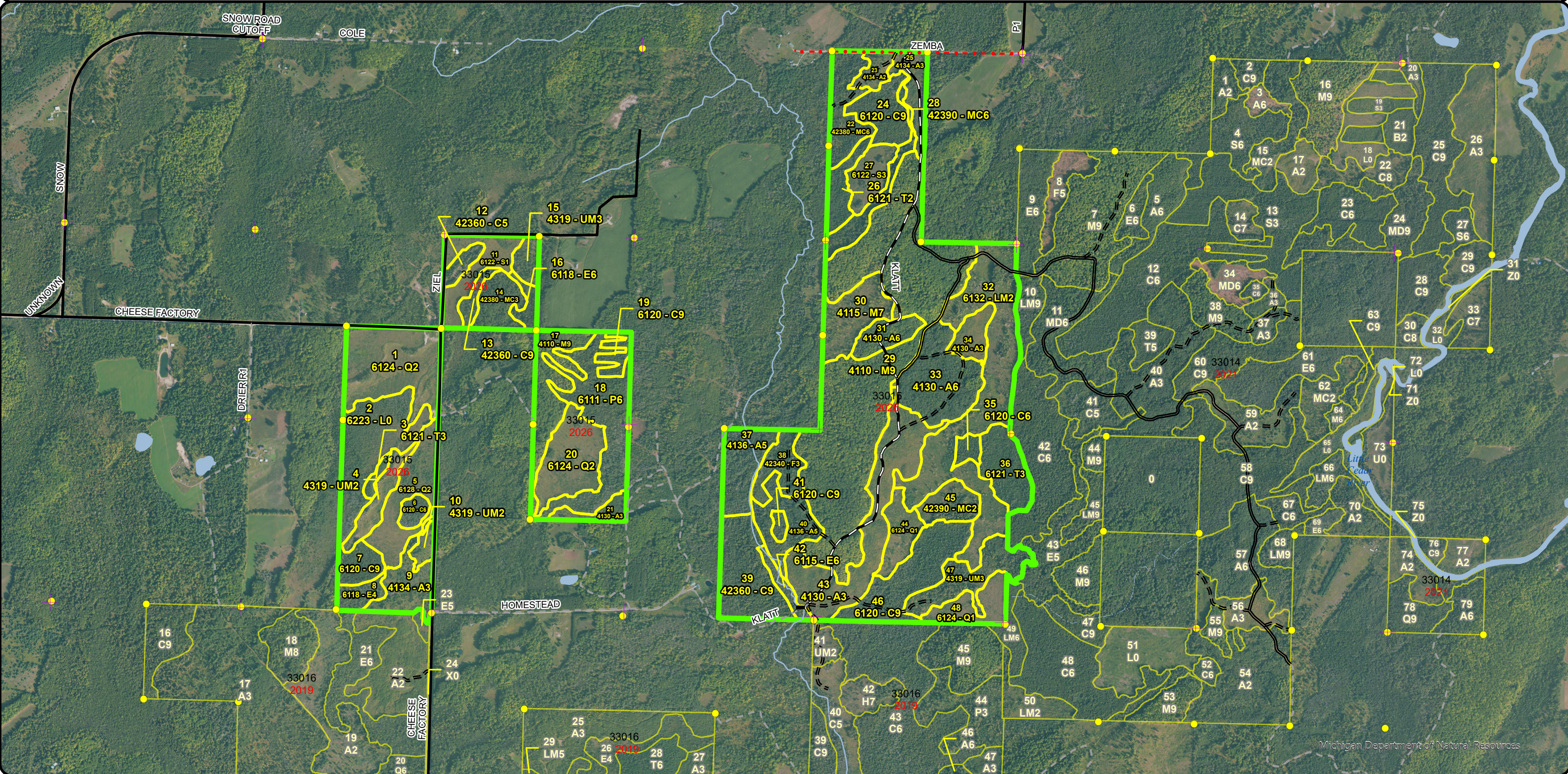


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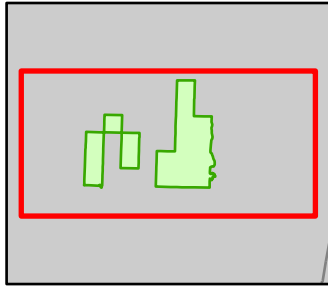
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- State Forests



**Special Conservation Areas
& Site Conditions Map**

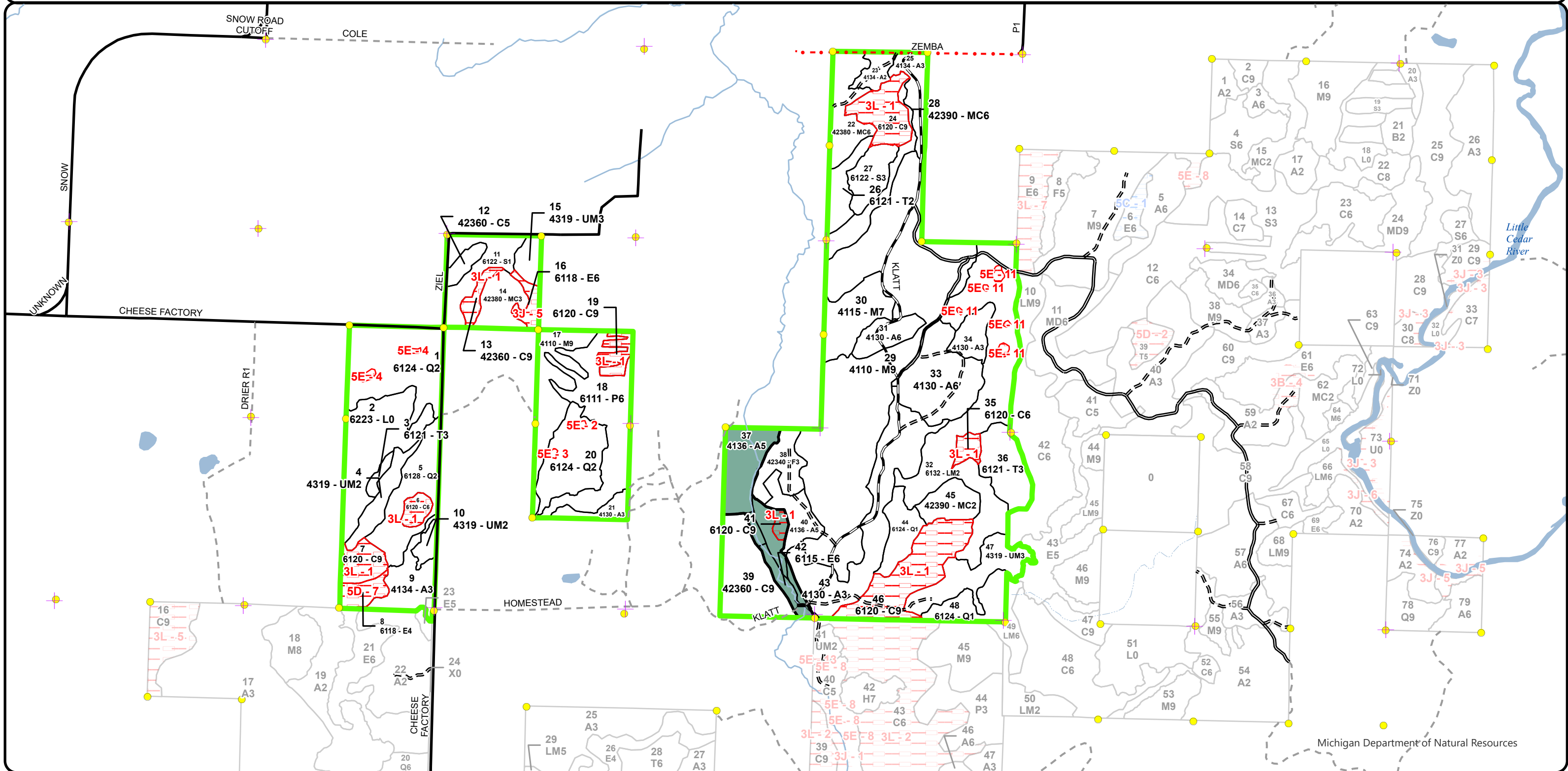
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 Miles

- Bridges
- Survey Grade Corners
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- DNR - Primary Forest Road
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Federal / State / County - Paved Road
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- Private - Dirt / Gravel Road
- Intermittent Stream
- Lake/Pond
- Perennial River
- Lakes and Rivers
- Compartment Boundary
- Counties
- SCA

- Unavailable
- 3J: Water quality / BMPs (stream, river, or lake)
- 3L: Other wildlife concerns
- 5D: Unproductive Forest Land
- 5E: Long-Term Retention
- Stand Boundaries
- Cold Water Streams
- 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	77	0	26	0	22	14	0	0	0	0	0	0	0	0	0	0	0	139
Cedar	0	0	0	0	0	0	0	0	0	0	0	22	28	37	0	0	0	0	87
Lowland Aspen/Balsam Poplar	0	0	0	0	0	32	0	0	0	0	0	0	0	0	0	0	0	0	32
Lowland Conifers	0	92	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	92
Lowland Deciduous	0	0	0	0	0	0	0	0	0	4	9	0	0	0	0	0	0	0	13
Lowland Mixed Forest	0	59	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	59
Lowland Shrub	28	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	28
Lowland Spruce/Fir	0	24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24
Northern Hardwood	0	0	0	0	0	0	0	0	118	35	0	0	0	0	0	0	0	0	152
Tamarack	0	0	0	14	8	2	0	0	0	0	0	0	0	0	0	0	0	0	24
Upland Conifers	0	0	10	0	23	0	0	0	0	0	0	0	0	0	0	0	0	9	42
Upland Mixed Forest	0	11	22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	33
Upland Spruce/Fir	0	0	0	0	10	0	0	0	0	0	0	0	0	0	0	0	0	0	10
Total	28	263	32	40	41	24	46	0	0	118	39	9	22	28	37	0	0	9	735



Report 2 – Treatment Summary

Escanaba Mgt. Unit

Year of Entry: 2026

Acres of Harvest

Compartment 15

Total Compartment Acres: 731

Commercial Harvest - 204
 Harvests with Site Condition - 0
 Next Step Harvest - 0
 Habitat Cut - 0

Cover Type by Harvest Method

	Clearcut	Selection	Patch Clearcut	Seed Tree	Shelterwood	Thinning	Overstory Removal	Salvage	Other	Total Acres
Aspen	34	0	0	0	0	0	0	0	0	34
Lowland Aspen/Balsam Poplar	32	0	0	0	0	0	0	0	0	32
Lowland Deciduous	0	0	0	0	3	0	0	0	0	3
Northern Hardwood	0	136	0	0	0	0	0	0	0	136
Total	66	136	0	0	3	0	0	0	0	204

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	204	0	0	0	0	0	34	0	0	238
Next Step	0	0	0	0	0	0	204	0	0	204
Total	204	0	0	0	0	0	238	0	0	443



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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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Proposed Treatments:

<p>11 33015011-Monitor 13.9 6122 - Black Spruce Sapling Poor 7 Immature Monitoring Natural Regen (Re-Inventory) 613 - Lowland Mixed Forest Even-Aged No</p> <p><u>Prescription</u> Regen survey. <u>Specs:</u> <u>Next Step</u> <u>Treatments:</u> <u>Acceptable</u> Spruce/fir, tamarack, balm, cedar, and ash. <u>Regen:</u> <u>Other</u> This stand was clearcut in 2017 on contract 33-023-15. Some seed trees were retained along with a patch non-merchantable ash in the northeast corner of the stand. The deer have heavily browsed and killed the majority of the ash and maple stump sprouts following the harvest. The stand will continue to fill in with conifers over time. <u>Comment:</u> <u>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /2025</p>
<p>17 33015017-Cut 18.5 4110 - Sugar Maple Association Sawtimber Well 92 81-110 Harvest Single Tree Selection 411 - Northern Hardwood Uneven-Aged No</p> <p><u>Prescription</u> Thin stand down to 70 to 80 basal area. Retain the beech in the stand. <u>Specs:</u> <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u> <u>Acceptable</u> Maple, basswood, beech, ash, and pine. <u>Regen:</u> <u>Other</u> Stand was thinned in 2007 on contract 035-06-01. Decent quality hardwood stand with a thick layer of sedge. No hardwood regeneration is showing up following the last harvest. The northern third of the stand was not thinned in 2007, it had a lower basal area. The stand is ready to be thinned again, to improve the growth of the residual stems. Beech bark disease is present. <u>Comment:</u> <u>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /2025</p>
<p>18 33015018-Cut 31.6 6111 - Lowland Balsam Poplar Poletimber Well 50 81-110 Harvest Clearcut with Retention 613 - Lowland Mixed Forest Even-Aged No</p> <p><u>Prescription</u> Cut all trees greater than three (3) inches at DBH, except retain the cedar in the northern half of the stand. Retain the yellow birch. <u>Specs:</u> <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u> <u>Acceptable</u> Balm, aspen, spruce/fir, maple, birch, tamarack, cedar, and ash. <u>Regen:</u> <u>Other</u> Two aged stand with mature cedar, ash, and other hardwoods with younger, but mature balm and aspen. Over mature stand with a significant amount of mortality. The emerald ash borer is present and is causing ash mortality. The spruce budworm has killed most of the spruce and balsam fir. The balm and aspen are dying out due to age, wet soils, and windthrow. The cedar are blowing over and the tops are dying out. This stand needs to be harvested soon, while the balm and aspen are vigorous enough to sprout. Conifers will seed in over time. The cedar in the northern half of the stand is better quality and will be retained, but the southern half (which is the narrow portion) of the stand the cedar should be cut to salvage it and to allow the balm and aspen to fully sprout. This stand is in deer conditional range and has a canopy composition of 15% cedar. Harvest of cedar outside of planned retention areas has been agreed upon between FRD and WLD in this stand. This harvest is estimated to produce about 50 cords. <u>Comment:</u> <u>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /2025</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
29 33015029-Cut	117.7	4110 - Sugar Maple Association	Sawtimber Well	89	81-110	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven-Aged	No
<p><u>Prescription Specs:</u> Thin stand down to 70 to 80 basal area. Retain the majority of the beech and yellow birch, only marking to cut those needed for operational purposes.</p> <p><u>Next Step Treatments:</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Acceptable Regen:</u> Maple, basswood, ash, beech, and birch.</p> <p><u>Other Comment:</u> Good quality hardwood stand, with a dense sedge mat. The stand was thinned in 2008 on contract 021-06-01. The stand was previously thinned between 1987 - 89 on contract 056-85-01. The stand is ready to be thinned again. The thinning will improve the growth of the residual stems. Beech bark disease is present.</p> <p><u>Site Condition</u> Proposed Start Date: 10/1 /2025</p>										
31 33015031-Cut	7.8	4130 - Aspen	Poletimber Well	49	51-80	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
<p><u>Prescription Specs:</u> Cut all trees greater than three (3) inches at DBH, except retain the sub-merchantable sugar maple.</p> <p><u>Next Step Treatments:</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Acceptable Regen:</u> Aspen, maple, pine, and spruce/fir.</p> <p><u>Other Comment:</u> Fully stocked aspen stand with some pole sized sugar maple. The aspen is mature and is ready to be harvested. This stand will regenerate with aspen.</p> <p><u>Site Condition</u> Proposed Start Date: 10/1 /2025</p>										
37 33015037-Cut	12.5	4136 - Aspen, Mixed Conifer	Poletimber Medium	52	51-80	Harvest	Clearcut with Retention	4134 - Aspen, Spruce/Fir	Even-Aged	No
<p><u>Prescription Specs:</u> Cut all trees greater than three (3) inches at DBH; except cedar. A 25' to 30' buffer will be retained along Ross Creek and its tributary, per agreement with FD, WLD, and FRD.</p> <p><u>Next Step Treatments:</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Acceptable Regen:</u> Aspen, balsam, birch, maple, pine, and spruce/fir.</p> <p><u>Other Comment:</u> Mature aspen stand. This stand was a 50/50 mix of aspen and spruce/fir, but the spruce budworm has killed the majority of the spruce/fir. So now the stand is primarily just a semi open aspen stand. This stand needs to be harvested while the aspen is vigorous enough to sprout to fully regenerate the stand. Ross Creek runs along the eastern edge of the stand, with a small tributary running west to east through the southern half of the stand. Minimize the width of the buffer, due to forest health issues.</p> <p><u>Site Condition</u> Proposed Start Date: 10/1 /2025</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
40 33015040-Cut	13.7	4136 - Aspen, Mixed Conifer	Poletimber Medium	46	51-80	Harvest	Clearcut with Retention	4319 - Mixed Upland Forest	Even-Aged	No
<p><u>Prescription</u> Cut all trees greater than three (3) inches at DBH, except cedar. A 40' to 50' buffer will be retained along Ross Creek, per agreement with FD, WLD, and FRD.</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, birch, ash, pine, and spruce/fir.</p> <p><u>Regen:</u></p> <p><u>Other</u> Variable stand, with a mix of species and ages. All species are mature and ready to be harvested. This stand had a high percentage of spruce/fir, but most has been killed by the spruce budworm. This stand will regenerate with aspen and balm, and the open areas will seed in with spruce/fir and a mix of other conifers.</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2025</p>										
42 33015042-Cut	2.5	6115 - Lowland Ash	Poletimber Well	94	81-110	Harvest	Shelterwood with Retention	613 - Lowland Mixed Forest	Two-Aged	No
<p><u>Prescription</u> Cut all trees ash, balm, and aspen greater than three (3) inches at DBH. All maple, basswood, cedar, and birch will be retained. A 40' to 50' buffer will be retained along Ross Creek, per agreement with FD, WLD, and FRD.</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, birch, aspen, balm, ash, pine, tamarack, and spruce/fir.</p> <p><u>Regen:</u></p> <p><u>Other</u> Mature black ash stand that is dying out due to the emerald ash borer. The ash, aspen, and balm should be harvested before they die out of the stand. By harvesting these species, it will allow all three species to sprout providing shade along Ross Creek in the future. Ross creek flows through the stand. There is only a narrow strip of the stand on the southwest side of the stand. Only cut the wider strip of the stand on the east/north side, leaving a narrow no-cut buffer along the creek. The maple, basswood and cedar will be retained, providing partial shade along the creek until the other species sprout.</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2025</p>										
44 33015044-Monitor	9.6	6124 - Lowland Spruce-Fir	Sapling Poor	6	Immature	Monitoring	Natural Regen (Re-Inventory)	613 - Lowland Mixed Forest	Even-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/fir, tamarack, balm, ash, pine, and maple.</p> <p><u>Regen:</u></p> <p><u>Other</u> Stand was clearcut in 2018 on contract 33-024-16. Some cedar seed trees were marked to retain. The stand is about 40% stocked with primarily balsam fir and spruce. The stand will continue to fill in with more conifers and balm. Deer have heavily browsed and killed all of the ash stump sprouts from the harvest.</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2025</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
48 33015048-Monitor	10.5	6124 - Lowland Spruce-Fir	Sapling Poor	6	Immature	Monitoring	Natural Regen (Re-Inventory)	613 - Lowland Mixed Forest	Even-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/fir, tamarack, balm, ash, pine, and maple.</p> <p><u>Regen:</u></p> <p><u>Other</u> This stand was clearcut in 2018 on contract 33-024-16. Some cedar seed trees were marked to retain. The stand is about 50% stocked with primarily balsam fir and spruce. The stand will continue to fill in with more conifers and balm. Deer have heavily browsed and killed all of the ash stump sprouts from the harvest.</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2025</p>										

Total Treatment 238.3
Acreage Proposed:

Report 4 – Site Conditions

Escanaba Mgt. Unit
Dustin Salter : Examiner

Compartment: 15
Year of Entry: 2026

Availability for Management

Total Acres	Acres Available	Acres Avail With Condition		Acres Not Available	Dominant Site Conditions			
					3J	3L	5D	5E
138	138	0	0				0	
86	27	0	59			59	0	
32	32	0	0					
92	90	0	1					1
13	4	0	9		4		5	
59	58	0	2					2
28	28	0	0					
23	23	0	0					
152	152	0	0					
24	24	0	0					
42	42	0	0					
33	33	0	0					
10	10	0	0					
731	660		71		4	59	5	3
	90%		10%					

**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	60	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Cedar stands that will probably not be treated.							
2	Unavailable	5E: Long-Term Retention	0	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
3	Unavailable	5E: Long-Term Retention	0	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Escanaba Mgt. Unit
Dustin Salter : Examiner

Compartment: 15
Year of Entry: 2026

4	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
5	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	4	Unspecified	Unspecified	Unspecified	Unspecified
Comments: A small creek/drain flows through the center of this stand. This stand provides a buffer along it.							
7	Unavailable	5D: Unproductive Forest Land	5	Unspecified	Unspecified	Unspecified	Unspecified
Comments: This stand is mostly open with scattered patches of merchantable wood.							
11	Unavailable	5E: Long-Term Retention	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Retention patches with dense cedar and a mix of other species.							

Mgt. Unit

Compartment: #Type!

Year of Entry:



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

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

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

Comments



Report 6 – EXISTING SPECIAL CONSERVATION AREA DETAILS

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

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

Conservation Area	Type	Description
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	6124 - Lowland Spruce-Fir	Sapling Medium	32.1	7	Immature	N/A	This stand was clearcut in 2017 on contract 33-023-15. Some seed trees were retained along with two retention patches with dense cedar. The deer have heavily browsed and killed the majority of the ash and maple stump sprouts from the last harvest. Lowland stand with a long narrow gravel ridge running through the middle of the stand. The stand is regenerating with spruce/fir and tamarack primarily. The stand will continue to fill in over time.																																								
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Balsam Fir	20	Sapling	1	7																																											
2	6223 - Inundated Shrub Swamp	Nonstocked	27.9		Unspecified	No	Old cedar stand that has been flooded out, with only some scattered cedar remaining. In portions of the stand there is some tamarack and spruce regeneration.																																								
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3	6121 - Tamarack	Sapling Well	1.9	43	1-50	N/A	Dense tamarack saplings/poles.																																								
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4	4319 - Mixed Upland Forest	Sapling Medium	8.1	6	Immature	N/A	This stand was clearcut in 2018 on contract 33-023-15. This stand had a treatment added in 2016 as part of the SBW review. This stand is a narrow gravel ridge. The stand is about 50% stocked with balm and conifers primarily. These species will continue to fill in over the next ten years.																																								
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5	6128 - Lowland Coniferous, Mixed Deciduous	Sapling Medium	18.9	8	Immature	N/A	This stand was clearcut in 2016 on contract 33-023-15. The stand is regenerating well with a mix of conifers and balm. Conifers will continue to seed in over time, until the stand is fully stocked. There is some advanced tamarack and spruce regeneration within the stand.																																								
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
6	6120 - Lowland Cedar	Poletimber Well	3.4	112	51-80	N/A	Very poor quality cedar stand.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Northern White Cedar		95	Pole/Sap/Log	7	112	Tag Alder	Medium	5 - 10 feet	Tall Shrub
Black Ash		5	Pole/Sapling	6	112	Tamarack	Low	10 - 20 feet	Sapling
7	6120 - Lowland Cedar	Sawtimber Well	7.0	112	111-140	N/A	Lowland cedar stand with a strip of upland along the western edge. The western edge is good quality cedar and and the further east you go the cedar quality goes down.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Northern White Cedar		75	Log/Pole	10	112	Tag Alder	Low	5 - 10 feet	Tall Shrub
Paper Birch		10	Pole/Log	9	112	Balsam Fir	Low	< 5 feet	Sapling
Black Ash		10	Pole/Log/Sap	8	112				
Black Spruce		3	Log/Pole	10	112				
Red Maple		2	Log/Pole	11	112				
8	6118 - Lowland Deciduous with Cedar	Poletimber Poor	5.1	102	1-50	N/A	Low quality stand, where most of the species have died out due to forest health issues. The spruce/fir have been killed by the spruce budworm. The eastern larch beetle has killed nearly all of the tamarack, which comprised a substantial percentage of the stand. The emerald ash borer is present and is killing the ash. There isn't enough volume to harvest this stand. If there is enough volume left when the ash stand in Comp 16 is cut, cut this stand with it. The western edge is upland with red maple and birch.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple		25	Log/Pole	12	102	Balsam Fir	Low	< 5 feet	Sapling
Northern White Cedar		30	Pole/Log	9	102	Tag Alder	Medium	5 - 10 feet	Tall Shrub
Paper Birch		20	Pole/Log	9	102	Tamarack	Low	< 5 feet	Sapling
Black Ash		25	Pole/Log/Sap	9	102				
9	4134 - Aspen, Spruce/Fir	Sapling Well	12.8	8	Immature	N/A	Stand was clearcut in 2016 on contract 025-16-01. There is some sub-merchantable aspen still present. This stand was approved for treatment, via a chapter 7 request in December of 2015 to treat due to spruce budworm. Stand had been clearcut in 1994 on contract 024-93-01. Fully stocked aspen and spruce/fir stand. The aspen and spruce/fir is a mix of 30 and 8 years old, but most of the regeneration is from the last harvest.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir		15	Sapling/Pole	3	30	Blackberry/Raspberry	Low	5 - 10 feet	Tall Shrub
White Spruce		15	Sapling	3	30				
Tamarack		5	Sapling	1	8				
Quaking Aspen		55	Sapling	1	8				
Balsam Poplar		10	Sapling	1	8				
10	4319 - Mixed Upland Forest	Sapling Medium	3.1	8	Immature	N/A	This stand was clearcut in 2016 on contract 33-023-15. This stand was previously thinned in 1994 on contract 024-93-01. Nearly fully stocked stand of balm and spruce/fir. About half of the spruce/fir regeneration is about 30 years old.		
Canopy Species		% Cover	Size Class	DBH	Age				
Quaking Aspen		10	Sapling	1	8				
White Pine		10	Sapling	1	8				
Balsam Poplar		40	Sapling	1	8				
White Spruce		15	Sapling	1	8				
Balsam Fir		25	Sapling	1	8				



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																														
11	6122 - Black Spruce	Sapling Poor	13.9	7	Immature	N/A	This stand was clearcut in 2017 on contract 33-023-15. Some seed trees were retained along with a patch non-merchantable ash in the northeast corner of the stand. The deer have heavily browsed and killed the majority of the ash and maple stump sprouts following the harvest. The stand will continue to fill in with conifers over time.																																														
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12	42360 - Upland Cedar	Poletimber Medium	3.6	113	1-50	N/A	Stand was cut in 2007 on contract 035-06-01. All cedar and hemlock was retained along with the advanced spruce and balsam regeneration. There are three distinct age classes present; older cedar, advanced balsam/spruce regeneration, and regeneration from the last harvest. This stand is an old gravel pit.																																														
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13	42360 - Upland Cedar	Sawtimber Well	3.4	113	201+	N/A	High quality upland cedar stand. The stand is mostly upland, except the western edge is lower and wetter.																																														
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14	42380 - Non Pine Upland Conifer, Mixed Deciduous	Sapling Well	10.0	17	1-50	N/A	Stand was clearcut in 2007 on contract 035-06-01. All cedar and hemlock were retained along with the advanced balsam fir/spruce regeneration. Fully stocked aspen and spruce/fir stand with denser cedar in the western half. The spruce/fir is a mix of 40 year old advanced regeneration and younger regeneration from the latest harvest.																																														
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15	4319 - Mixed Upland Forest	Sapling Well	4.7	17	Immature	N/A	Stand was clearcut in 2007 on contract 035-06-01. The cedar was retained along with some spruce seed trees. The cedar have all died and most of the spruce has died out. Fully stocked mixed aspen and spruce/fir stand.																																														
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16	6118 - Lowland Deciduous with Cedar	Poletimber Well	3.8	106	81-110	N/A	Mature black ash stand, with dense cedar on the south end. A small creek/drain flows through this narrow stand. Leave the stand to provide a buffer along the creek. The emerald ash borer is present and is causing some mortality.																																																					
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17	4110 - Sugar Maple Association	Sawtimber Well	18.5	92	81-110	N/A	Stand was thinned in 2007 on contract 035-06-01. Decent quality hardwood stand with a thick layer of sedge. No hardwood regeneration is showing up following the last harvest. The northern third of the stand was not thinned in 2007, it had a lower basal area. The stand is ready to be thinned again, to improve the growth of the residual stems. Beech bark disease is present.																																																					
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18	6111 - Lowland Balsam Poplar	Poletimber Well	31.6	50	81-110	N/A	Two aged stand with mature cedar, ash, and other hardwoods with younger, but mature balm and aspen. Over mature stand with a significant amount of mortality. The emerald ash borer is present and is causing ash mortality. The spruce budworm has killed most of the spruce and balsam fir. The balm and aspen are dying out due to age, wet soils, and windthrow. The cedar are blowing over and the tops are dying out. This stand needs to be harvested soon, while the balm and aspen are vigorous enough to sprout. Conifers will seed in over time. The cedar in the northern half of the stand is better quality and will be retained, but the southern half (which is the narrow portion) of the stand the cedar should be cut to salvage it and to allow the balm and aspen to fully sprout.																																																					
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19	6120 - Lowland Cedar	Sawtimber Well	4.3	112	141-170	N/A	Moderate to low quality cedar stand. The cedar in the west half has larger diameters and is denser. About half of the shorter lived species have died out of this stand. The spruce budworm has killed most of the balsam fir and the eastern larch beetle has been killed most of the tamarack. The white birch has died out due to age.																																																					
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20	6124 - Lowland Spruce-Fir	Sapling Medium	20.7	7	Immature	N/A	Stand was seed tree cut in 2107 on contract 33-023-15. Two retention patches were retained with dense cedar, along with some scattered seed trees. Stand is regenerating very well with a mix of conifers, by the next entry the stand should be fully stocked.																																																					
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22	42380 - Non Pine Upland Conifer, Mixed Deciduous	Poletimber Well	14.4	35	1-50	N/A	Stand was clearcut in 1988 on contract 056-85-01. Only the hemlock was retained. This stand is about 60% upland. The stand has fully regenerated with a mix of spruce/fir and aspen in the upland areas and tamarack, balm, and ash in the lowland areas.																																										
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23	4134 - Aspen, Spruce/Fir	Sapling Medium	4.7	6	1-50	N/A	This stand was shelterwood cut in 2018 on contract 33-024-16. There was 20 basal area of the overstory retained for seed and provide partial shade. Two aged stand with mature sugar maple and basswood over young aspen and spruce/fir regeneration.																																										
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24	6120 - Lowland Cedar	Sawtimber Well	12.1	136	141-170	N/A	Mature dense good quality cedar stand. There were 5 east - west strips cut out of this stand in 1964. These strips have filled in with primarily spruce, birch, balm, and balsam fir. It looks as though the shorter lived species were cut out of the leave strips as well. The emerald ash borer is present and is causing ash mortality. The spruce budworm has killed most of the spruce and balsam fir regeneration. Nearly all of the tamarack has been killed by the eastern larch beetle.																																										
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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26	6121 - Tamarack	Sapling Medium	7.7	34	Immature	N/A	Moderately stocked tamarack stand growing on a low site index site.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Black Spruce		10	Sapling/Pole	4	34	Tag Alder		Medium	5 - 10 feet	Tall Shrub
Northern White Cedar		5	Pole/Log	9	101					
Tamarack		85	Sapling/Pole	4	34					

27	6122 - Black Spruce	Sapling Well	9.5	6	Immature	N/A	Stand was clearcut in 2018 on contract 33-024-16. There were three retention patches left, that had dense cedar. Stand has fully regenerated with spruce and a mix of other conifers.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Balsam Fir		15	Sapling	1	6	Willow spp.		Low	< 5 feet	Tall Shrub
Balsam Poplar		2	Sapling	1	6	Tag Alder		Low	5 - 10 feet	Tall Shrub
Black Spruce		50	Sapling	1	6	Red Osier Dogwood		Low	5 - 10 feet	Tall Shrub
Tamarack		18	Sapling	1	6					
Northern White Cedar		15	Pole/Log	9	101					

28	42390 - Mixed Non-Pine Upland Conifers	Poletimber Well	9.0	35	1-50	N/A	Stand was clearcut in 1988 on contract 056-85-01. Fully stocked upland mix stand. This stand is a narrow strip between the upland hardwoods and lowland conifers.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Balsam Fir		25	Pole/Sapling	5	35	Blackberry/Raspberry		Low	5 - 10 feet	Tall Shrub
Bigtooth Aspen		10	Pole/Sapling	5	35	Tag Alder		Low	5 - 10 feet	Tall Shrub
Paper Birch		5	Pole/Sapling	5	35					
Balsam Poplar		8	Pole/Sapling	5	35					
White Spruce		30	Pole/Sapling	5	35					
Tamarack		20	Sapling/Pole	4	35					
Black Cherry		2	Pole/Sapling	5	35					

29	4110 - Sugar Maple Association	Sawtimber Well	117.7	89	81-110	N/A	Good quality hardwood stand, with a dense sedge mat. The stand was thinned in 2008 on contract 021-06-01. The stand was previously thinned between 1987 - 89 on contract 056-85-01. The stand is ready to be thinned again. The thinning will improve the growth of the residual stems. Beech bark disease is present.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
White Ash		5	Log/Pole	12	89	Musclewood/Hornbeam		Medium	< 5 feet	Tall Shrub
Yellow Birch		2	Log/Pole	10	89	Beech		Low	5 - 10 feet	Sapling
Beech		3	Log/Pole	13	89	Balsam Fir		Low	< 5 feet	Sapling
Basswood		15	Log/Pole	14	89	White Spruce		Low	< 5 feet	Sapling
Sugar Maple		75	Log/Pole	13	89	Ironwood		Medium	5 - 10 feet	Sapling



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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30	4115 - Y.Birch, Hemlock NH	Sawtimber Poor	15.7	95	1-50	N/A	This stand was shelterwood cut in 2018 on contract 33-024-16. There was about 20 basal area retained in the stand to provide shade and a seed source. The deer have heavily browsed the hardwood stump sprouts and have killed most of them. Two aged stand with a mix of mature hardwoods, cedar, and hemlock over a partially stocked understory with a mix of species. The understory will continue to fill in over time with conifers and balm.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Yellow Birch		25	Pole/Log	9	95	Balsam Fir		Medium	< 5 feet	Sapling	
Beech		20	Log/Pole	12	95	White Spruce		Medium	< 5 feet	Sapling	
Northern White Cedar		15	Pole/Log	9	95	Beech		Low	< 5 feet	Sapling	
Hemlock		5	Log/Pole	14	95	Quaking Aspen		Medium	5 - 10 feet	Sapling	
Basswood		10	Log/Pole	11	95	Willow spp.		Low	5 - 10 feet	Tall Shrub	
Sugar Maple		15	Log/Pole	10	95	Balsam Poplar		Medium	< 5 feet	Sapling	
Green Ash		10	Log/Pole	11	95	Ironwood		Medium	< 5 feet	Sapling	
						Blackberry/Raspberry		Medium	5 - 10 feet	Tall Shrub	

31	4130 - Aspen	Poletimber Well	7.8	49	51-80	N/A	Fully stocked aspen stand with some pole sized sugar maple. The aspen is mature and is ready to be harvested. This stand will regenerate with aspen.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Bigtooth Aspen		10	Pole/Log	9	49						
Ironwood		5	Pole/Sapling	5	49						
Sugar Maple		20	Pole/Sapling	6	49						
White Ash		5	Pole/Sapling	6	49						
Balsam Fir		5	Pole/Sapling	6	49						
Quaking Aspen		50	Pole/Log/Sap	8	49						

32	6132 - Mixed Lowland Forest with Cedar	Sapling Medium	59.3	7	1-50	N/A	This stand was cut in 2017 and 2018 on contract 33-024-16. The northern third of the stand was cut in 2017 and the southern 2/3rds was cut in 2018. All hemlock was retained. Also, all cedar greater than 10" was also retained. A large percentage of the cedar that was retained has blown over. The five retention patches still remain. This stand is two aged with mature cedar over an understory of mixed species, with balm having the highest percentage. The majority of the maple and ash stump sprouts from the harvest have been browsed and killed by deer. The stand will continue to seed in with balm and a mix of conifers.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Green Ash		5	Sapling	1	7	Tag Alder		Medium	5 - 10 feet	Tall Shrub	
Red Maple		5	Sapling	1	7	Willow spp.		Low	< 5 feet	Tall Shrub	
Balsam Fir		15	Sapling	1	7						
Balsam Poplar		35	Sapling	1	7						
Black Spruce		10	Sapling	1	7						
Tamarack		5	Sapling	1	7						
Northern White Cedar		25	Log/Pole	12	124						

33	4130 - Aspen	Poletimber Well	25.5	27	1-50	N/A	Stand was clearcut in 1996-97 on contract 007-96-01. All cedar, elm, hemlock, and cherry was retained. Fully stocked aspen stand with some older hardwoods and spruce/fir. The spruce/fir is dying out of the stand due to the spruce budworm, but there isn't enough volume to try and salvage.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
White Spruce		10	Pole/Sap/Log	6	73	Blackberry/Raspberry		Medium	5 - 10 feet	Tall Shrub	
Balsam Fir		8	Pole/Sapling	6	73						
White Ash		5	Pole/Sapling	7	73						
Quaking Aspen		60	Pole/Sapling	5	27						
Ironwood		5	Pole/Sapling	5	73						
Black Cherry		2	Pole/Sapling	5	27						
Sugar Maple		5	Log/Pole	10	73						
Basswood		5	Pole/Log/Sap	7	73						



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments	
34	4130 - Aspen	Sapling Well	6.8	6	Immature	N/A	Stand was clearcut in 2018 on contract 33-024-16. Fully stocked aspen and balm stand. The majority of the stand is upland and has regenerated with aspen and in the center of the stand there is a lower area that has regenerated with balm.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
White Spruce		5	Sapling	1	6	Blackberry/Raspberry		
Balsam Fir		5	Sapling	1	6	Ironwood		
Balsam Poplar		30	Sapling	1	6	Low		
Quaking Aspen		60	Sapling	1	6	< 5 feet		
						Sapling		
35	6120 - Lowland Cedar	Poletimber Well	2.9	126	201+	N/A	Moderate to low quality cedar stand. The western half is better quality than the east half. The majority of the tamarack has died out due to the eastern larch beetle.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Black Ash		2	Pole/Log	9	126	Balsam Fir		
Northern White Cedar		85	Pole/Log/Sap	9	126	Tag Alder		
Tamarack		8	Pole/Sap/Log	7	126	Medium		
Black Spruce		5	Pole/Log	8	126	5 - 10 feet		
						Tall Shrub		
36	6121 - Tamarack	Sapling Well	14.0	27	Immature	N/A	Stand was clearcut between 1995 and 98 on contract 035-92-01. Fully stocked tamarack stand. There are some cedar seedlings scattered throughout the stand, that are 1 to 2 foot tall.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Black Ash		3	Sapling/Pole	2	27	Tag Alder		
Northern White Cedar		2	Log/Pole	12	126	Red Osier Dogwood		
Balsam Fir		10	Sapling	1	27	Northern White Cedar		
Black Spruce		10	Sapling	2	27	Low		
Paper Birch		5	Sapling/Pole	3	27	< 5 feet		
Tamarack		70	Sapling/Pole	2	27	Sapling		
37	4136 - Aspen, Mixed Conifer	Poletimber Medium	14.4	52	51-80	N/A	Mature aspen stand. This stand was a 50/50 mix of aspen and spruce/fir, but the spruce budworm has killed the majority of the spruce/fir. So now the stand is primarily just a semi open aspen stand. This stand needs to be harvested while the aspen is vigorous enough to sprout to fully regenerate the stand. Ross Creek runs along the eastern edge of the stand, with a small tributary running west to east through the southern half of the stand. Minimize the width of the buffer, due to forest health issues.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Balsam Poplar		5	Pole/Log/Sap	8	52	Black Cherry		
White Spruce		10	Pole/Sap/Log	7	52	Low		
Quaking Aspen		55	Log/Pole	10	52	10 - 20 feet		
Northern White Cedar		10	Log/Pole	13	126	Sapling		
Black Ash		5	Pole/Sapling	7	92			
Red Maple		5	Pole/Log	8	92			
Balsam Fir		5	Pole/Sapling	7	52			
Paper Birch		5	Pole/Log	8	52			



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																	
38	42340 - Upland Spruce/Fir	Sapling Well	9.8	32	Immature	N/A	Stand was clearcut in 1992 on contract 013-92-01. All cedar, hemlock, pine, and beech were retained. Nearly fully stocked spruce/fir stand with a couple clumps of aspen.																																																	
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39	42360 - Upland Cedar	Sawtimber Well	23.3	126	111-140	N/A	Two aged stand with mature cedar with an understory of aspen, balm, spruce, and balsam fir. The stand was cut in 1995 on contract 013-92-01. All cedar, hemlock, pine, beech, and elm were retained. There were some cedar and pine marked to cut. The residual basal area ranges from 30 to 240, with mostly cedar. The eastern half of the stand has a much higher density of cedar.																																																	
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40	4136 - Aspen, Mixed Conifer	Poletimber Medium	13.7	46	51-80	N/A	Variable stand, with a mix of species and ages. All species are mature and ready to be harvested. This stand had a high percentage of spruce/fir, but most has been killed by the spruce budworm. This stand will regenerate with aspen and balm, and the open areas will seed in with spruce/fir and a mix of other conifers.																																																	
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41	6120 - Lowland Cedar	Sawtimber Well	1.7	126	171-200	N/A	Dense cedar stand, where most of the shorter lived species have already died out due to age and forest health issues.																																																	
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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42	6115 - Lowland Ash	Poletimber Well	3.7	94	81-110	N/A	Mature black ash stand that is dying out due to the emerald ash borer. The ash, aspen, and balm should be harvested before they die out of the stand. By harvesting these species, it will allow all three species to sprout providing shade along Ross Creek in the future. Ross creek flows through the stand. There is only a narrow strip of the stand on the southwest side of the stand. Only cut the wider strip of the stand on the east/north side, leaving a narrow no-cut buffer along the creek. The maple, basswood and cedar will be retained, providing partial shade along the creek until the other species sprout.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	5	Log/Pole	13	94	Tag Alder	Low	5 - 10 feet	Tall Shrub
Basswood	5	Log/Pole	13	94	Balsam Poplar	Low	5 - 10 feet	Sapling
Balsam Poplar	5	Log/Pole	10	94				
Northern White Cedar	5	Log/Pole	14	126				
Quaking Aspen	10	Log/Pole	10	94				
Black Ash	70	Pole/Log/Sap	9	94				

43	4130 - Aspen	Sapling Well	38.6	6	Immature	N/A	Stand was clearcut in 2018 on contract 33-024-16. Fully stocked aspen stand.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Balsam Poplar	10	Sapling	1	6	Blackberry/Raspberry	Medium	5 - 10 feet	Tall Shrub
Balsam Fir	5	Sapling	1	6				
Ironwood	5	Sapling	1	6				
Black Cherry	5	Sapling	1	6				
Quaking Aspen	70	Sapling	1	6				
White Spruce	5	Sapling	1	6				

44	6124 - Lowland Spruce-Fir	Sapling Poor	9.6	6	Immature	N/A	Stand was clearcut in 2018 on contract 33-024-16. Some cedar seed trees were marked to retain. The stand is about 40% stocked with primarily balsam fir and spruce. The stand will continue to fill in with more conifers and balm. Deer have heavily browsed and killed all of the ash stump sprouts from the harvest.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	40	Sapling	1	6	Tag Alder	Medium	5 - 10 feet	Tall Shrub
Black Spruce	25	Sapling	1	6	Red Osier Dogwood	Medium	5 - 10 feet	Tall Shrub
Balsam Poplar	20	Sapling	1	6				
Tamarack	15	Sapling	1	6				

45	42390 - Mixed Non-Pine Upland Conifers	Sapling Medium	8.7	126	1-50	N/A	Stand was clearcut in 2018 on contract 33-024-16. All of the cedar was retained, with an average residual basal area of 30. This stand was previously shelterwood cut between 1995 & 1998 on contract 035-92-01. This stand is multi aged, with mature cedar in the southern half, spruce/fir advanced regeneration, and young aspen and balm sprouts from the last harvest. This stand will continue to fill in with more conifers and balm.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Northern White Cedar	25	Log/Pole	12	126	Blackberry/Raspberry	Medium	5 - 10 feet	Tall Shrub
Quaking Aspen	5	Sapling	1	6	Ironwood	Low	< 5 feet	Sapling
Black Cherry	10	Sapling	2	28				
Balsam Poplar	10	Sapling	1	6				
Balsam Fir	20	Sapling	2	28				
White Spruce	20	Sapling	2	28				
Tamarack	10	Sapling	2	28				



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																					
46	6120 - Lowland Cedar	Sawtimber Well	24.7	130	171-200	N/A	Moderate to low quality cedar stand. The western third and northern edge is better quality, but the southern third is a mix with different species and low quality cedar. A significant amount of trees other than cedar have died out of the stand due to age and forest health issues.																																																					
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47	4319 - Mixed Upland Forest	Sapling Well	16.9	18	1-50	N/A	Stand was cut in 2006 on contract 037-01-01. All species were cut, except for some seed trees and only cedar less than 7.5" inches were cut. The stand had a significant amount of cedar retained, but at least half of it has blown over or died since the harvest. The stand is fully stocked with mature cedar and a fully stocked understory of aspen, balm, and balsam fir.																																																					
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