



Compartment Review Presentation

Escanaba Forest Management Unit

Compartment 33025

Entry Year 2023

Acreage: 650

County Menominee

Management Area: Menominee End Moraine

Revision Date: 2021-06-29

Stand Examiner: Dustin Salter

Legal Description:

T35N R28W Sections 31 and 32

Identified Planning Goals:

This compartment has two major cover types. They are aspen and lowland conifer. There is one aspen/conifer stand and one mixed stand that will be clearcut this decade. Two northern hardwood stands will be thinned, to improve spacing and overall health. One planted red pine stand will also be thinned. There are five lowland conifer stands that will be harvested. These stands are over mature and are in need of treatment, while there still is a viable seed source. The eastern larch beetle has caused extensive mortality of the tamarack within this compartment and the surrounding area. Oak wilt has been present and treated in this compartment in the past. If any new epi-centers of oak wilt are identified, treat them as needed.

Soil and topography:

This compartment contains Pemene-Rubicon Complex, Onaway Loam, and Lupton-Tawas Association. This compartment is made up of well drained fine sandy loams with areas of poorly drained black muck. The terrain is nearly level with areas of undulating topography.

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

This compartment is located on the southern edge of a block of state forest land that is about 20 miles long and 8 miles wide in the southwestern part of Menominee County. In and around the compartment the land holdings are broken up, with many private parcels within this block of state land. The east edge of the compartment is completely surrounded by private property. The primary use for this area is for recreation.

Unique Natural Features:

None

Archeological, Historical, and Cultural Features:

None Known.

Special Management Designations or Considerations:

None

Watershed and Fisheries Considerations:

This compartment has unnamed tributaries that drain into Burke Creek. A 100' buffer is recommended for both of these waterbodies; buffers are recommended to protect these areas in accordance with BMPs.

Wildlife Habitat Considerations:

This compartment is within the Menominee End Moraine Management Area. It contains forest types that are adapted to sandy outwash plain conditions. Most of the Forest Unit's oak resource is located here, and perpetuation of this cover type is of high priority. Variable retention rates of mature oak trees are typically applied to stands to ensure a mast source for wildlife is maintained following timber harvest. Some lowland coniferous stands will be treated this inventory cycle to address impacts by Eastern Larch Beetle. The thickest area of cedar in this stand will be retained to provide wildlife winter cover.

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 active sand/gravel pits are about four miles to the northeast. There is good sand & gravel potential in the compartment on the uplands. Aquila's Back Forty project is roughly four miles north, and there may be potential for discovery of additional sulfide deposits, like Back Forty, in the area. Mineral rights one mile north of the compartment are currently under lease. The State does not own all the mineral rights within the compartment. Because the mineral estate is the dominant estate, reasonable access to the surface must be provided to private owners if they choose to explore or develop their mineral rights.

Vehicle Access:

The west edge of the compartment is accessed off of the Sturgeon Landing Road. There is a two track road that comes in from the southwest that provides access through the southern half of the compartment. There is another two track road that comes in from the northwest that provides access into the northern half. Currently the only access into section 32 is through private land.

Survey Needs:**Recreational Facilities and Opportunities:**

There are no developed facilities within this compartment. The primary recreational uses are hunting and four-wheeling.

Fire Protection:

This compartments landscape is broken up with lowland cover types so it would be very difficult for a large scale fire to occur. Access into this compartment is very good for suppression activities. There are also water sources nearby.

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:

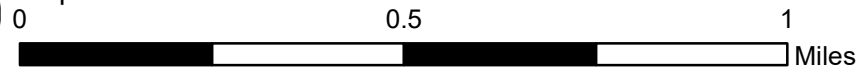
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

Cover Type & Treatments Map

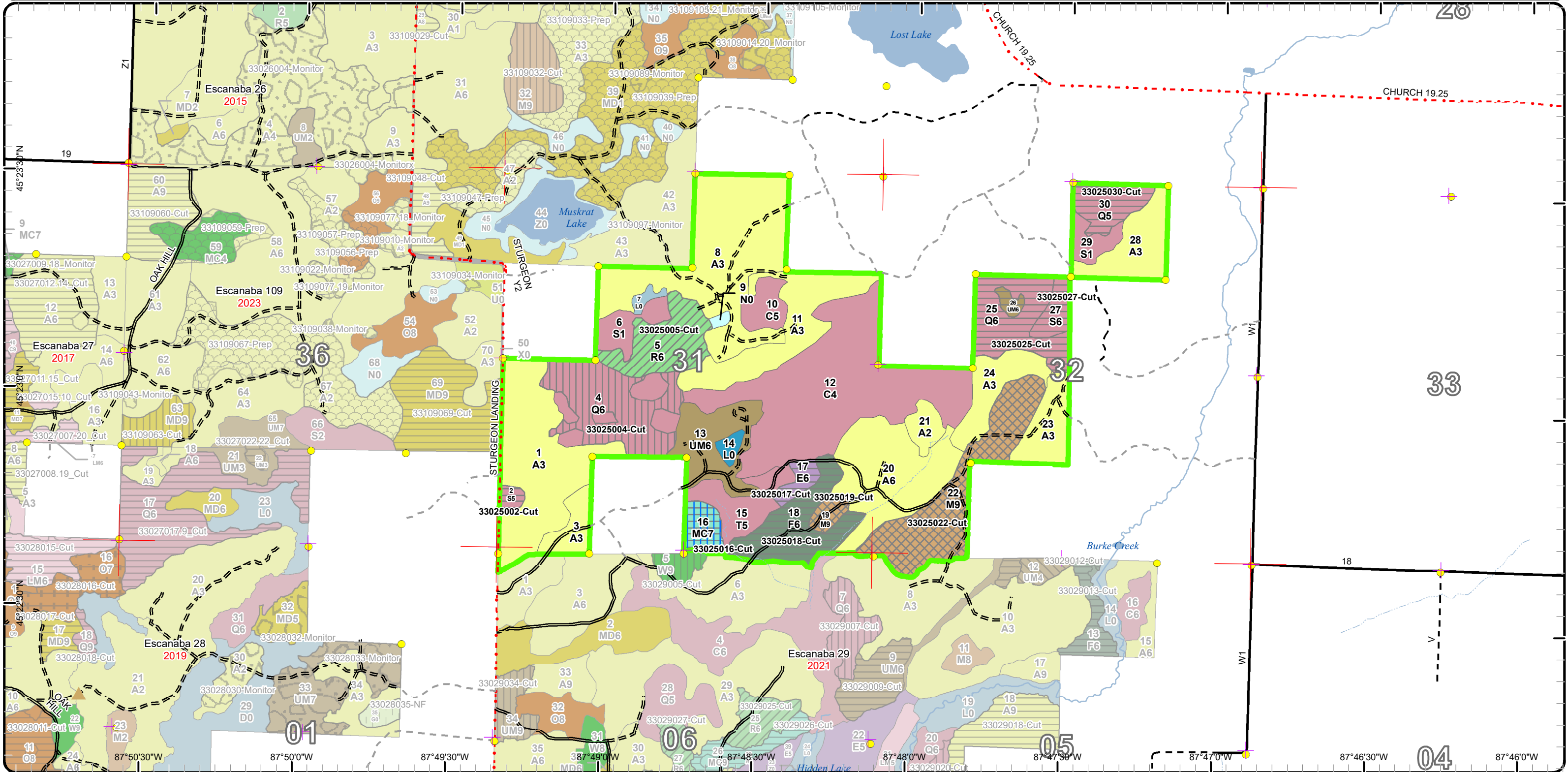
Compartment: 25

County: Menominee
 Unit: Escanaba
 Mgmt Area: Menominee End
 Moraine

YOE: 2023
 Acres: 650 GIS Calculated
 Examiner: Dustin Salter
 Map Revised: 6/29/2021
 Map Phase: Web-Post



- Miris Corners
- + Remonumented Section Corners
- Survey Grade Corners
- Counties
- 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
- ▲ Berms
- Intermittent Stream
- Lake/Pond
- Perennial River
- Lakes and Rivers
- Compartment Boundary
- Selection (Group, Single Tree)
- Clearcut (w/Reserves)
- Seed Tree (w/Reserves)
- Thinning (Crown, Low, Systematic)
- Shelter Wood (w/Reserves)
- 411 - Northern Hardwood
- 413 - Aspen
- 421 - Planted Pines
- 423 - Other Upland Conifers
- 429 - Mixed Upland Conifers
- 430 - Upland Mixed Forest
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 622 - Lowland Shrub
- 623 - Emergent Wetland
- 629 - Mixed Non-forested Wetland



Stand Boundary Map

Compartment: 25

County: Menominee
 Unit: Escanaba
 Mgmt Area: Menominee End
 Moraine

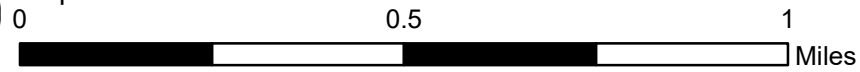
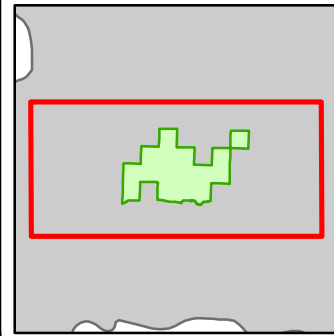
YOE: 2023

Acres: 650 GIS Calculated

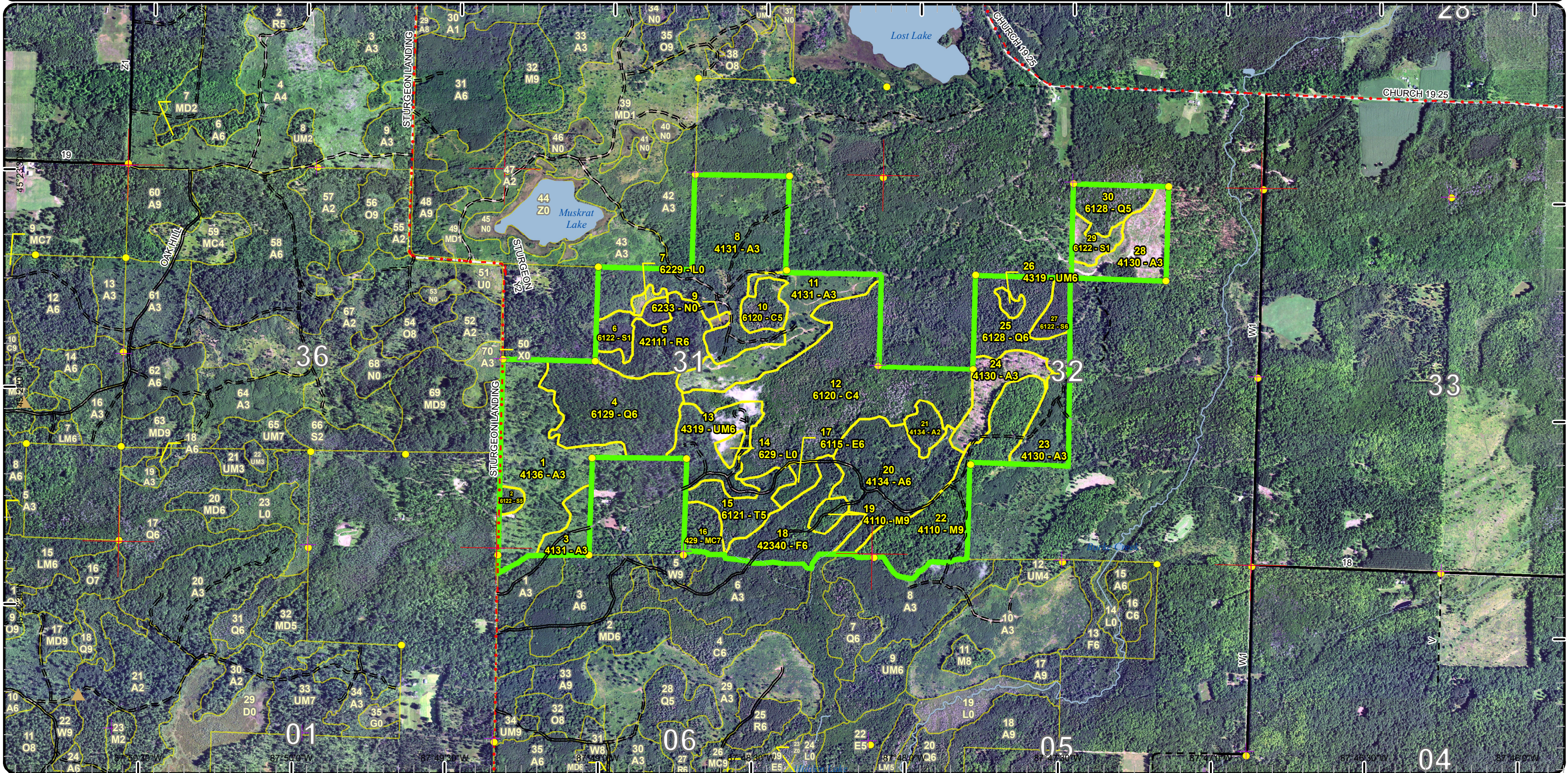
Examiner: Dustin Salter

Map Revised: 6/29/2021

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Special Conservation Areas

Compartment: 25

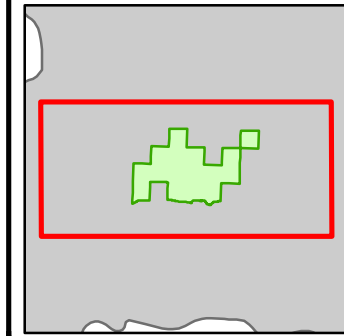
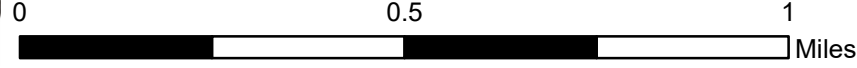
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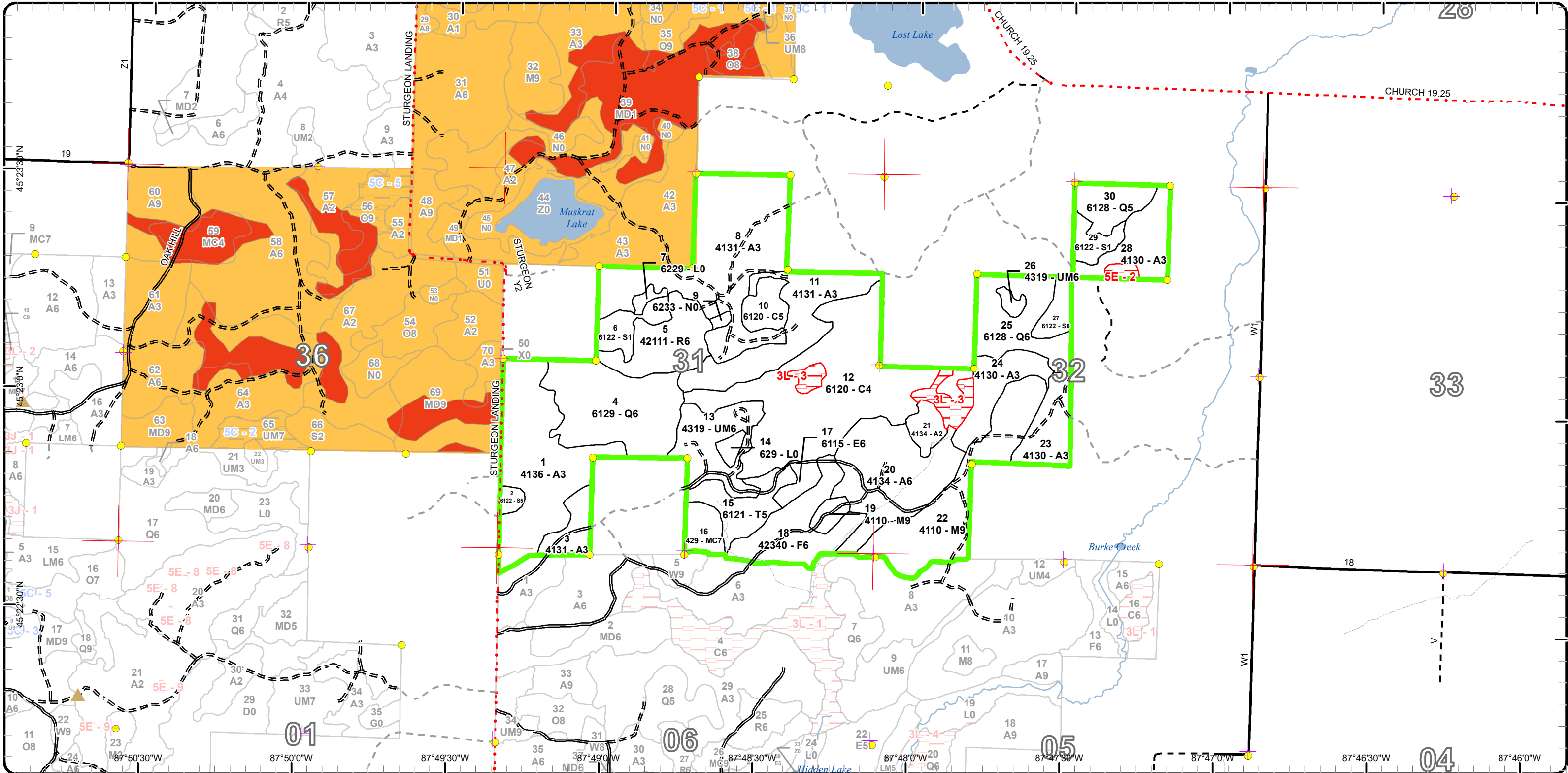
Examiner: Dustin Salter

Map Revised: 6/29/2021

Map Phase: Web-Post



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- ▲ Berms
- Intermittent Stream
- Lake/Pond
- Perennial River
- Lakes and Rivers
- Compartment Boundary
- Unavailable
- 3L: Other wildlife concerns
- 5E: Long-Term Retention
- Stand Boundaries
- Ecological Reference Areas
- Cold Water Streams
- Cold Water Lakes
- Non-Dedicated Natural Areas and National Natural Landmarks



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	86	90	0	45	0	0	0	0	0	0	0	0	0	0	0	0	56	277
Cedar	0	0	0	0	0	0	0	0	0	0	0	105	0	0	0	0	0	0	104
Lowland Conifers	0	0	0	0	0	0	0	0	0	0	39	46	0	0	0	0	0	0	85
Lowland Deciduous	0	0	0	0	0	0	0	0	0	0	5	0	0	0	0	0	0	0	5
Lowland Shrub	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
Lowland Spruce/Fir	0	16	0	0	0	0	0	0	0	0	10	0	0	0	0	0	0	0	26
Marsh	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Northern Hardwood	0	0	0	0	0	0	0	0	0	44	4	0	0	0	0	0	0	0	48
Red Pine	0	0	0	0	23	0	0	0	0	0	0	0	0	0	0	0	0	0	23
Tamarack	0	0	0	17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	16
Upland Conifers	0	0	0	0	0	0	0	0	0	0	8	0	0	0	0	0	0	0	8
Upland Mixed Forest	0	0	0	23	0	0	0	0	0	0	2	0	0	0	0	0	0	0	25
Upland Spruce/Fir	0	0	0	0	0	0	27	0	0	0	0	0	0	0	0	0	0	0	27
Total	6	102	90	40	68	0	0	27	0	0	44	68	151	0	0	0	0	56	649



Report 2 – Treatment Summary

Escanaba Mgt. Unit

Year of Entry: 2023

Acres of Harvest

Compartment 25

Total Compartment Acres: 650

Commercial Harvest - 198
 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
Lowland Conifers	39	0	0	0	36	0	0	0	0	75
Lowland Deciduous	5	0	0	0	0	0	0	0	0	5
Lowland Spruce/Fir	9	0	0	0	0	0	0	0	0	9
Northern Hardwood	0	48	0	0	0	0	0	0	0	48
Red Pine	0	0	0	0	0	23	0	0	0	23
Upland Conifers	0	0	0	8	0	0	0	0	0	8
Upland Mixed Forest	2	0	0	0	0	0	0	0	0	2
Upland Spruce/Fir	27	0	0	0	0	0	0	0	0	27
Total	82	48	0	8	36	23	0	0	0	198

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	198	0	0	0	0	0	0	0	0	198
Next Step	0	8	0	0	0	0	174	0	0	182
Total	198	8	0	0	0	0	174	0	0	380



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

Proposed Treatments:

2	33025002-Cut	2.6	6122 - Black Spruce Poletimber Medium	101	1-50		Harvest	Clearcut	612 - Lowland Coniferous Forest	Even-Aged	No
<p><u>Prescription Specs:</u> Cut all trees greater than three (3) inches at DBH, including cedar if present. No retention will be left due to forest health concerns and small stand size.</p> <p><u>Next Step Treatments:</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Acceptable Regen:</u> Tamarack, spruce and pine.</p> <p><u>Other Comment:</u> Mature very low quality lowland conifer stand. The stand is dying out due to flooding, eastern larch beetle and old age. This stand should be harvested to salvage as much wood products as possible. With the moss understory, this stand will regenerate very quickly following the removal of the overstory, which will allow full sunlight.</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2022</p>											
4	33025004-Cut	35.7	6129 - Mixed Coniferous Lowland Forest	Poletimber Well	116	111-140	Harvest	Shelterwood	6129 - Mixed Coniferous Lowland Forest	Two-Aged	No
<p><u>Prescription Specs:</u> Cut all trees greater than three (3) inches at DBH; except do not cut cedar. Cut only cedar that are less than seven (7) inches at DBH. This will allow access to harvest the other species and to create some canopy gaps for other lowland conifers to germinate and grow. The dense areas of cedar will be retained from the harvest, preserving the functional winter deer cover and the other species within these patches. Most of the dense patches of cedar are along the west and east edges of the stand.</p> <p><u>Next Step Treatments:</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Acceptable Regen:</u> Tamarack, spruce, pine, cedar and birch.</p> <p><u>Other Comment:</u> Mature lowland conifer stand, which needs to be harvested before all of the tamarack is killed by the eastern larch beetle. About half of the tamarack that was within the stand has already died out, due to the beetle. The spruce is also past maturity and is declining. The cedar is very variable throughout the stand. There are good quality pockets near the transitions to the upland stands, but overall most of the cedar is lower quality. If the smaller diameter cedar is harvested it will allow access to harvest the other species and in the denser areas of spruce and tamarack it will create some open gaps to allow full sunlight in to regenerate the spruce and tamarack. There were five strips previously cut out of this stand between 1962 and 1965.</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2022</p>											
5	33025005-Cut	23.3	42111 - Planted Red Pine, Mixed Deciduous	Poletimber Well	37	141-170	Harvest	Crown Thinning	4211 - Planted Red Pine	Even-Aged	No
<p><u>Prescription Specs:</u> Thin stand down to 80 basal area. Cut all aspen, balm, ironwood, cherry and spruce/fir greater than three (3) inches at DBH.</p> <p><u>Next Step Treatments:</u></p> <p><u>Acceptable Regen:</u></p> <p><u>Other Comment:</u> Planted red pine stand, that is only about 60% red pine, with a mix of other species. There is a significant amount of pin oak stumps sprouts throughout the stand, with a number of clumps dying of oak wilt. The red pine was planted in 1984. This stand needs to be thinned, to improve the growth of the red pine.</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2022</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
16	33025016-Cut	8.0	429 - Mixed Upland Conifers	Sawtimber Poor	108	1-50	Harvest	Seed Tree with Retention	4319 - Mixed Upland Forest	Even-Aged	No
<p><u>Prescription Specs:</u> Cut all trees greater than two (2) inches at DBH, including cedar if present. Some pine seed trees will be marked to retain. Following the harvest, the stand will be mechanically scarified to expose mineral soil to allow pine to more readily seed in.</p> <p><u>Next Step Treatments:</u> SitePrep, Scarification; Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Acceptable Regen:</u> Pine, aspen, balm, spruce/fir and oak.</p> <p><u>Other Comment:</u> This stand was cut in 1994 on contract 023-93-01; except the pine, cedar, hemlock, oak, and spruce less than 10" was retained. This stand has regenerated very poorly following the harvest. A large percentage of the stand is still open. This stand should be seed tree cut and scarified following the harvest to regenerate the stand. If scarification does not successfully regenerate the stand, trench and plant red pine.</p> <p><u>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /2022</p>											
17	33025017-Cut	4.8	6115 - Lowland Ash	Poletimber Well	108	81-110	Harvest	Clearcut	613 - Lowland Mixed Forest	Even-Aged	No
<p><u>Prescription Specs:</u> Cut all trees greater than three (3) inches at DBH, including cedar if present. No retention will be left due to forest health concerns and small stand size.</p> <p><u>Next Step Treatments:</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Acceptable Regen:</u> Maple, balm, aspen, birch, spruce/fir and ash.</p> <p><u>Other Comment:</u> Good quality black ash stand, with emerald ash borer possibly already within the stand. But, all species are mature and should be harvested, while the hardwood and balm are vigorous enough to stump sprout following the harvest. The majority of the tamarack within the stand has already died out due to the eastern larch beetle.</p> <p><u>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /2022</p>											
18	33025018-Cut	26.7	42340 - Upland Spruce/Fir	Poletimber Well	68	51-80	Harvest	Clearcut	4134 - Aspen, Spruce/Fir	Even-Aged	No
<p><u>Prescription Specs:</u> Cut all trees greater than three (3) inches at DBH, including cedar if present. No retention will be left due to forest health concerns and small stand size.</p> <p><u>Next Step Treatments:</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Acceptable Regen:</u> Aspen, balm and spruce/fir.</p> <p><u>Other Comment:</u> This is a two aged stand with older mature spruce/fir and younger aspen. The spruce/fir is being heavily defoliated by the spruce budworm, with some mortality occurring. This stand should be harvested to salvage the spruce/fir and allow the aspen to fully regenerate following the harvest.</p> <p><u>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /2022</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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19	33025019-Cut	4.1	4110 - Sugar Maple Association	Sawtimber Well	101	111-140	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven-Aged	No
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Prescription Mark stand down to 70 to 80 basal area. Focusing on lowering the percentage of ash and beech due to forest health concerns. Also, cut all
Specs: aspen, balm, spruce/fir and ironwood three (3) inches or greater at DBH.

Next Step Monitoring, Natural Regen (Re-Inventory)
Treatments:

Acceptable Maple, basswood, oak, beech and ash.
Regen:

Other Good quality hardwood stand, that is in need of a thinning to improve the growth of the residual trees. The stand was previously thinned in
Comment: 2004 on contract 029-03-01.

Site Condition

Proposed Start Date: 10/1 /2022

22	33025022-Cut	44.2	4110 - Sugar Maple Association	Sawtimber Well	90	111-140	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven-Aged	No
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Prescription Mark stand down to 80 basal area. Focusing on lowering the percentage of ash and beech due to forest health concerns. Also, cut all
Specs: aspen, balm, spruce/fir and ironwood three (3) inches or greater at DBH.

Next Step Monitoring, Natural Regen (Re-Inventory)
Treatments:

Acceptable Maple, basswood, oak, beech and ash.
Regen:

Other Mature good quality hardwood stand, that is ready to be thinned to improve the growth of the residual trees. This stand was previously
Comment: thinned in 1993-1994 on contract 003-93-01. There is some beech, pine and white oak, but not 2% of any one of the species.

Site Condition

Proposed Start Date: 10/1 /2022

25	33025025-Cut	26.2	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Well	108	81-110	Harvest	Clearcut with Retention	612 - Lowland Coniferous Forest	Even-Aged	No
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Prescription Cut all trees greater than three (3) inches at DBH, including cedar. Retain the dense clumps/patches of cedar within the stand. Most of
Specs: these clumps/patches are too small to delineate out of the harvest. These patches may either be excluded from the harvest with marking individual trees to retain or with a red line placed around them.

Next Step Monitoring, Natural Regen (Re-Inventory)
Treatments:

Acceptable Spruce, tamarack pine, cedar, birch, aspen, balm and maple.
Regen:

Other Stand was on contract 027-13-01 to be clearcut, but it was turned back uncompleted. This is a mature lowland conifer stand, with some
Comment: areas of lowland hardwood mixed in. This stand needs to be harvested as soon as possible to salvage as much tamarack and spruce/fir as possible. The eastern larch beetle is killing the tamarack, working its way up from the southern edge of the stand moving north and the spruce/fir is being defoliated by the spruce budworm.

Site Condition

Proposed Start Date: 10/1 /2022



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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
26 33025026-Cut	2.2	4319 - Mixed Upland Forest	Poletimber Well	108	81-110	Harvest	Clearcut with Retention	4319 - Mixed Upland Forest	Even-Aged	No
<p><u>Prescription Specs:</u> Cut all trees greater than three (3) inches at DBH, including cedar if present. The red pine will be retained to provide a seed source and diversity.</p> <p><u>Next Step Treatments:</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Acceptable Regen:</u> Spruce/fir, maple, birch, aspen, oak and pine.</p> <p><u>Other Comment:</u> Stand was on contract 027-13-01 to be clearcut, but it was turned back uncompleted. Mature mixed upland stand, with all of the species being mature. This stand needs to be harvested as soon as possible to salvage as much spruce/fir as possible. The spruce/fir is being defoliated by the spruce budworm, with some mortality occurring. Also, the aspen and birch are dying out due to their advanced age.</p> <p><u>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /2022</p>										
27 33025027-Cut	6.7	6122 - Black Spruce	Poletimber Well	106	111-140	Harvest	Clearcut	6122 - Black Spruce	Even-Aged	No
<p><u>Prescription Specs:</u> Cut all trees greater than three (3) inches at DBH, including cedar if present. No retention will be left due to forest health concerns and small stand size.</p> <p><u>Next Step Treatments:</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Acceptable Regen:</u> Spruce, tamarack and pine.</p> <p><u>Other Comment:</u> Good quality black spruce stand. This stand was on contract 027-13-01 to be clearcut, but it was turned back uncompleted. There is moss ground cover, which will allow the stand to regenerate very well following the removal of the overstory, after allowing full sunlight in to start the germination process.</p> <p><u>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /2022</p>										
30 33025030-Cut	13.0	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Medium	106	51-80	Harvest	Clearcut	613 - Lowland Mixed Forest	Even-Aged	No
<p><u>Prescription Specs:</u> Cut all trees greater than three (3) inches at DBH, including cedar. No retention will be left due to forest health concerns and small stand size. Portions of the treatment area may be excluded from the treatment area due to the high mortality of tamarack in that particular area.</p> <p><u>Next Step Treatments:</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Acceptable Regen:</u> Spruce/fir, tamarack, pine, ash, maple and cedar.</p> <p><u>Other Comment:</u> Mature lowland conifer stand, that has had at least half of the tamarack within the stand killed by the eastern larch beetle. This stand needs to be harvested to try and salvage as much wood products as possible. This stand was on contract 025-13-01, but was turned back uncompleted. If this stand is not harvested now, all of the tamarack and ash will be dead within a few years. The emerald ash borer is in close proximity to this stand. By removing the overstory, the ground will get full sunlight and the lowland conifer seed will begin to germinate and grow.</p> <p><u>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /2022</p>										

Total Treatment Acreage Proposed: 197.5

Report 4 – Site Conditions

Escanaba Mgt. Unit
Dustin Salter : Examiner

Compartment: 25
Year of Entry: 2023

Availability for Management

Total Acres	Acres Available	Acres Avail		Dominant Site Conditions	3L	5E
		With Condition	Not Available			
276	274	0	2	Aspen		2
104	94	0	10	Cedar	10	
85	85	0	0	Lowland Conifers		
5	5	0	0	Lowland Deciduous		
5	5	0	0	Lowland Shrub		
26	26	0	0	Lowland Spruce/Fir		
1	1	0	0	Marsh		
48	48	0	0	Northern Hardwood		
23	23	0	0	Red Pine		
17	17	0	0	Tamarack		
8	8	0	0	Upland Conifers		
25	25	0	0	Upland Mixed Forest		
27	27	0	0	Upland Spruce/Fir		
650	638		12	Total Forested Acres	10	2
	98%		2%	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	Dominant Site Availability	Dominant Site Condition	Acres	Other Site Condition	Other Site Condition	Other Site Condition	Other Site Condition
2	Unavailable	5E: Long-Term Retention		2	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Retention patch left from harvest.								
3	Unavailable	3L: Other wildlife concerns		10	5E: Long-Term Retention	Unspecified	Unspecified	Unspecified
Comments: Denser cedar areas that were retained to provide functional deer cover and long term retention.								

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 Lake	A coldwater lake has temperature and dissolved oxygen conditions that allow naturally-reproduced or stocked trout populations and those of other coldwater fish species to persist from year to year. Suitable conditions for coldwater fishes may occur in Michigan lakes if they are relatively deep, have substantial groundwater inflows, or are located in colder (northern) areas of the state. Such lakes are established by Director's action and designated as trout resources by Fisheries Order 200.
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.
SCA	Non-Dedicated Natural Areas and National Natural Landmarks	This category is comprised of those Natural, Wilderness and Wild Areas that have been nominated or proposed for legal dedication, but for which legal dedication by legislature has not occurred. The nomination process is defined by Part 351, Wilderness and Natural Areas, of the Natural Resources and Environmental Protection Act, 1994 PA 451. The program is administered by the DNR. Nominations require the submittal of a Natural Areas Nomination Packet to the DNR. This is an active program, with proposed sites in various stages of review. Final dedication of nominated Natural, Wilderness and Wild Areas is accomplished through legislative action.
HCVA	Legally dedicated Natural Areas, Wilderness or Wild Areas	The nomination process is defined by Part 351, Wilderness and Natural Areas, of the Natural Resources and Environmental Protection Act, 1994 PA 451. The program is administered by the DNR. Nominations require the submittal of a Natural Areas Nomination Packet to the DNR. This is an active program, with proposed sites in various stages of review. Final dedication of nominated Natural, Wilderness and Wild Areas is accomplished through legislative action.
ERA	Ecological Reference Areas	Ecological Reference Areas (ERAs) are high quality examples of natural communities that have been identified as Element Occurrences (EOs) by the Michigan Natural Features Inventory (MNFI) within the context of their natural community classification system. Element Occurrences with viability ranks of A (Excellent) or B (Good) and a Global (G) or State (S) element (rarity) ranking of endangered (1), threatened (2), or rare (3) serve as an initial base of ERAs. They may be located upon any ownership in the State. The system is comprised of individual or associations of natural community types that are managed for restoration and maintenance of natural ecological processes and values. The public may submit recommendations for lands as ERAs using the DNR Conservation Area Recommendation Form.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																	
1	4136 - Aspen, Mixed Conifer	Sapling Well	55.7	22	1-50	N/A	<p>This stand was cut in 1999 on contract 025-98-01. All species were cut, except oak, cedar, hemlock, beech, and some pine. In 2014 on contract 027-13-01 the overstory pine and oak was harvested. The stand was scarified prior to the harvest to help regenerate more pine and oak. The stand has three distinct age classes. Some mature pine and oak that was retained for seed/mast and diversity, the aspen regeneration from the 1999 harvest and the regeneration/stump sprouts from the last harvest in 2104. The stand is fully stocked.</p>																																																	
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2	6122 - Black Spruce	Poletimber Medium	2.6	101	1-50	N/A	<p>Mature very low quality lowland conifer stand. The stand is dying out due to flooding, eastern larch beetle and old age. This stand should be harvested to salvage as much wood products as possible. With the moss understory, this stand will regenerate very quickly following the removal of the overstory, which will allow full sunlight.</p>																																																	
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3	4131 - Aspen, Oak	Sapling Well	9.4	7	Immature	N/A	<p>Stand was clearcut in 2014 on contract 027-13-01. The white and red pine and white oak was retained. The stand has fully regenerated with aspen and pin oak.</p>																																																	
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4	6129 - Mixed Coniferous Lowland Forest	Poletimber Well	45.9	116	111-140	N/A	<p>Mature lowland conifer stand, which needs to be harvested before all of the tamarack is killed by the eastern larch beetle. About half of the tamarack that was within the stand has already died out, due to the beetle. The spruce is also past maturity and is declining. The cedar is very variable throughout the stand. There are good quality pockets near the transitions to the upland stands, but overall most of the cedar is lower quality. If the smaller diameter cedar is harvested it will allow access to harvest the other species and in the denser areas of spruce and tamarack it will create some open gaps to allow full sunlight in to regenerate the spruce and tamarack. There were five strips previously cut out of this stand between 1962 and 1965.</p>																																																	
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																												
5	42111 - Planted Red Pine, Mixed Deciduous	Poletimber Well	23.3	37	141-170	N/A	Planted red pine stand, that is only about 60% red pine, with a mix of other species. There is a significant amount of pin oak stumps sprouts throughout the stand, with a number of clumps dying of oak wilt. The red pine was planted in 1984. This stand needs to be thinned, to improve the growth of the red pine.																																												
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6	6122 - Black Spruce	Sapling Poor	9.4	3	Immature	N/A	Stand was clearcut in 2018 on contract 027-13-01. Some pine and spruce seed trees were marked to leave. The areas of the stand that have moss ground cover have already regenerated well with black spruce and a mix of other conifers.																																												
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7	6229 - Mixed lowland shrub	Nonstocked	1.9	0	Unspecified	No	Lowland shrub stand, with tagalder and holly.																																												
8	4131 - Aspen, Oak	Sapling Well	73.9	17	1-50	N/A	This stand was final harvested in 2004 on contract 036-03-01. The north third of the stand was treated for oak wilt as well. After the oak wilt area was harvested it was scarified with a brakke scarifier and than hand planted with a mix of red oak and white pine seedlings. There was one oak planted and than 3 to 4 pine planted and than another oak, with this being repeated throughout the area. The oak seedlings had tree shelters placed on them as well. These seedlings were planted in 2010. Most of the oak in the tree shelters has died, and there is very little pine that survived. The hazel brush filled in really thick in the planted area, probably shading out most of the seedlings. Otherwise the stand is fully stocked with aspen regeneration, with some mature pine and oak mixed in.																																												
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9	6233 - Wet Meadow	Nonstocked	1.0	0	Unspecified	No	Lowland marsh grass.																																												
10	6120 - Lowland Cedar	Poletimber Medium	8.5	116	51-80	N/A	Stand was cut in 2019 on contract 027-13-01. All of the cedar was retained. The residual cedar ranges from 20 to 100 basal area. Some black spruce is already regenerating in the stand.																																												
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																
11	4131 - Aspen, Oak	Sapling Well	33.4	2	1-50	N/A	Stand was clearcut in 2019 on contract 027-13-01. Some pine and oak was retained. The stand has regenerated well with aspen, except on the south end. The south end has more oak and maple regeneration, with conifers seeding in.																																																
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12	6120 - Lowland Cedar	Poletimber Poor	95.7	116	51-80	N/A	Stand was harvested in 2019 on contract 027-13-01. The cedar and hemlock was retained. Also there were two large retention patches retained. This is a two aged stand with mature cedar over spruce regeneration. The residual cedar varies from 30 to 100 basal area.																																																
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13	4319 - Mixed Upland Forest	Poletimber Well	23.3	27	1-50	N/A	This stand was clearcut in 1994 on contract 023-93-01; except the pine, cedar, hemlock, oak, and spruce less than 10" was retained. The stand is fully stocked, with three age classes. Younger aspen, older spruce/fir and mature pine, oak and cedar. The spruce/fir is being defoliated by the spruce budworm, but there isn't enough volume to try and salvage.																																																
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14	629 - Mixed non-forested wetland	Nonstocked	2.6		Unspecified	No	This stand is a mix of lowland brush, marsh grass and cattails.																																																
15	6121 - Tamarack	Poletimber Medium	16.5	27	1-50	N/A	Stand was cut in 1994 on contract 023-93-01. The cedar, pine and hemlock was retained. Also, all spruce less than ten (10) inches were retained. There was also a buffer retained along a small creek that flows along the west edge of the stand. This is a two-aged stand with an overstory of cedar and ash and a full understory of younger tamarack and spruce regeneration.																																																
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments				
16	429 - Mixed Upland Conifers	Sawtimber Poor	8.0	108	1-50	N/A	This stand was cut in 1994 on contract 023-93-01; except the pine, cedar, hemlock, oak, and spruce less than 10" was retained. This stand has regenerated very poorly following the harvest. A large percentage of the stand is still open. This stand should be seed tree cut and scarified following the harvest to regenerate the stand. If scarification does not succeed, trench and plant red pine.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Red Maple		5	Pole/Log	9	108	Ironwood		Low	5 - 10 feet	Sapling	
Quaking Aspen		15	Pole/Sapling	6	27	White Pine		Low	5 - 10 feet	Sapling	
Northern Pin Oak		10	Log/Pole	13	108	Black Cherry		Low	5 - 10 feet	Sapling	
Balsam Fir		20	Pole/Sapling	7	108						
White Spruce		15	Pole/Sap/Log	7	108						
Northern White Cedar		15	Pole/Sapling	6	27						
White Pine		20	XLog/Log/Pole	18	108						
17	6115 - Lowland Ash	Poletimber Well	4.8	108	81-110	N/A		Good quality black ash stand, with emerald ash borer possibly already within the stand. But, all species are mature and should be harvested, while the hardwood and balm are vigorous enough to stump sprout following the harvest. The majority of the tamarack within the stand has already died out due to the eastern larch beetle.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species			Density	Avg. Height	Size
Paper Birch		3	Pole/Log	9	108	Tag Alder			Medium	Variable	Tall Shrub
Balsam Poplar		10	Pole	7							
Black Spruce		5	Pole/Sap/Log	7	108						
Tamarack		5	Log/Pole	10	108						
Black Ash		65	Pole/Sap/Log	9	108						
Red Maple		10	Pole/Log	9	108						
Black Cherry		2	Pole/Sapling	5							
18	42340 - Upland Spruce/Fir	Poletimber Well	26.7	68	51-80	N/A	This is a two aged stand with older mature spruce/fir and younger aspen. The spruce/fir is being heavily defoliated by the spruce budworm, with some mortality occurring. This stand should be harvested to salvage the spruce/fir and allow the aspen to fully regenerate following the harvest.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Quaking Aspen		30	Pole/Sapling	7	37	Ironwood		Low	5 - 10 feet	Sapling	
Northern Pin Oak		5	Log/Pole	12	98						
Balsam Fir		33	Pole/Sap/Log	7	68						
White Spruce		30	Pole/Sap/Log	8	68						
Red Maple		2	Pole	8	68						
19	4110 - Sugar Maple Association	Sawtimber Well	4.1	101	111-140	N/A	Good quality hardwood stand, that is in need of a thinning to improve the growth of the residual trees. The stand was previously thinned in 2004 on contract 029-03-01.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Sugar Maple		30	Pole/Log	9	101	White Spruce		Low	5 - 10 feet	Sapling	
Basswood		40	Log/Pole	13	101	Ironwood		Low	10 - 20 feet	Sapling	
White Ash		10	Log/Pole	10	101						
Red Oak		20	Log/Pole	14	101						



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments				
20	4134 - Aspen, Spruce/Fir	Poletimber Well	44.6	37	51-80	N/A	This stand was cut between 1984 and 1988, there was some scattered pine and oak left. There is a small drain/creek that flows through the eastern third of this stand and a buffer was left on it when the stand was harvested. Fully stocked aspen stand with a mix of other species. The spruce/fir is being defoliated by the spruce budworm, but there isn't enough volume to harvest at this time. Harvest this stand next decade when the aspen is mature. There are some scattered large mature hardwoods scattered throughout the stand, but not 2% of any one species.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Quaking Aspen		55	Pole/Sapling	6	37	Hazelnut (Beaked)		Low	5 - 10 feet	Tall Shrub	
Northern Pin Oak		10	Log/Pole	14	101						
Ironwood		2	Pole/Sapling	5	37						
Balsam Fir		15	Pole/Sap/Log	7	68						
White Spruce		8	Pole/Sap/Log	7	68						
White Pine		5	Log/Pole/Sap	16	101						
Red Pine		3	Log/Pole/Sap	14	101						
Black Cherry		2	Pole/Sapling	5	37						
21	4134 - Aspen, Spruce/Fir	Sapling Medium	6.2	2	1-50	N/A	Stand was clearcut in 2019 on contract 027-13-01. The oak and cherry was retained. About 60% of the stand is stocked. The open areas will fill in with conifers over time.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Northern Pin Oak		5	Log/Pole	13	96	Tag Alder		Low	5 - 10 feet	Tall Shrub	
Quaking Aspen		40	Sapling	1	2						
Balsam Poplar		30	Sapling	1	2						
Balsam Fir		10	Sapling	1	2						
White Spruce		10	Sapling	1	2						
Black Cherry		5	Pole/Sapling	7	96						
22	4110 - Sugar Maple Association	Sawtimber Well	44.2	90	111-140	N/A	Mature good quality hardwood stand, that is ready to be thinned to improve the growth of the residual trees. This stand was previously thinned in 1993-1994 on contract 003-93-01. There is some beech, pine and white oak, but not 2% of any one of the species.				
Canopy Species		% Cover	Size Class	DBH	Age						
Sugar Maple		35	Log/Pole	12	90						
Basswood		30	Log/Pole	14	90						
White Ash		18	Log/Pole	11	90						
Red Oak		10	Log/Pole	15	90						
Balsam Fir		3	Pole/Log/Sap	8	90						
Ironwood		2	Pole/Sapling	5							
White Spruce		2	Pole/Log/Sap	9	90						
23	4130 - Aspen	Sapling Well	15.6	17	1-50	N/A	Stand was clearcut in 2004 on contract 029-03-01. There was a lowland ash pocket retained in the southeast corner of the stand. Fully stocked aspen stand with some residual spruce/fir, ash, pine and oak.				
Canopy Species		% Cover	Size Class	DBH	Age						
Balsam Poplar		2	Sapling/Pole	4	17						
White Ash		6	Pole/Sapling	6	60						
Quaking Aspen		68	Sapling/Pole	4	17						
Northern Pin Oak		2	Log/Pole	12	102						
Balsam Fir		10	Pole/Sapling	7	60						
Black Ash		2	Pole/Sapling	7	102						
Ironwood		2	Pole/Sapling	5	60						
White Spruce		8	Pole/Sap/Log	8	60						



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments	
24	4130 - Aspen	Sapling Well	17.1	5	1-50	N/A	Stand was clearcut in 2016 on contract 027-13-01. The oak and cedar was retained. Fully stocked aspen and balm stand, with some residual overstory oak.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Quaking Aspen		65	Sapling	2	5	Ironwood		
Northern Pin Oak		10	Log/Pole/Sap	13	102	Low		
Balsam Poplar		15	Sapling	2	5	< 5 feet		
Balsam Fir		5	Sapling	1	5	Sapling		
Black Cherry		5	Sapling	2	5			
25	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Well	26.2	108	81-110	N/A	Stand was on contract 027-13-01 to be clearcut, but it was turned back uncompleted. This is a mature lowland conifer stand, with some areas of lowland hardwood mixed in. This stand needs to be harvested as soon as possible to salvage as much tamarack and spruce/fir as possible. The eastern larch beetle is killing the tamarack and the spruce/fir is being defoliated by the spruce budworm.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Paper Birch		10	Pole/Log	9	108	Tag Alder		
Balsam Fir		2	Pole/Sap/Log	8	108	Low		
Black Spruce		30	Pole/Log/Sap	9	108	Variable		
Northern White Cedar		15	Log/Pole	10	108	Tall Shrub		
Tamarack		30	Pole/Log/Sap	9	108	High		
Black Ash		5	Pole/Sap/Log	8	108	Variable		
						Tall Shrub		
26	4319 - Mixed Upland Forest	Poletimber Well	2.2	108	81-110	N/A	Stand was on contract 027-13-01 to be clearcut, but it was turned back uncompleted. Mature mixed upland stand, with all of the species being mature. This stand needs to be harvested as soon as possible to salvage as much spruce/fir as possible. The spruce/fir is being defoliated by the spruce budworm, with some mortality occurring. Also, the aspen and birch are dying out due to their advanced age.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Paper Birch		25	Pole/Log	9	108			
Balsam Fir		35	Pole/Log/Sap	8	108			
Black Spruce		15	Log/Pole/Sap	10	108			
Northern Pin Oak		2	Pole/Sapling	6				
Red Pine		3	Log/Pole	16	108			
Red Maple		15	Log/Pole	10	108			
Quaking Aspen		3	Log/Pole	14	108			
Black Cherry		2	Pole/Sapling	7				
27	6122 - Black Spruce	Poletimber Well	6.7	106	111-140	N/A	Good quality black spruce stand. This stand was on contract 027-13-01 to be clearcut, but it was turned back uncompleted. There is moss ground cover, which will allow the stand to regenerate very well following the removal of the overstory, after allowing full sunlight in to start the germination process.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Black Spruce		90	Pole/Sap/Log	8	106	Tag Alder		
Tamarack		5	Pole/Log	9	106	Low		
White Pine		5	Log/Pole	12	106	5 - 10 feet		
						Tall Shrub		



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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28	4130 - Aspen	Sapling Well	20.5	5	1-50	N/A	Stand was clearcut in 2016 on contract 025-13-01. There was a 2.1 acre retention patch left on the south end of the stand. The stand has regenerated well with aspen and the open areas are regenerating with pine.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
	Quaking Aspen	70	Sapling	1	5		White Pine	Medium	< 5 feet	Sapling
	Northern Pin Oak	15	Sapling/Pole/Log	1	102		Red Pine	Low	< 5 feet	Sapling
	White Pine	5	Log/XLog/Pole	16	102		Hazelnut (Beaked)	Low	5 - 10 feet	Tall Shrub
	Red Pine	5	Log/XLog/Pole	16	102					
	Black Cherry	3	Sapling	1	5					
	Balsam Fir	2	Sapling	1	5					

29	6122 - Black Spruce	Sapling Poor	6.8	5	Immature	N/A	This stand was clearcut in 2016 on contract 025-13-01. There were a few seed trees retained. The stand is regenerating well with spruce, tamarack and white pine and will continue to fill in over time.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
	Black Spruce	70	Sapling	1	5		Tag Alder	Medium	Variable	Tall Shrub
	White Pine	15	Sapling	1	5		Michigan Holly	Low	Variable	Tall Shrub
	Tamarack	15	Sapling	1	5					

30	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Medium	13.0	106	51-80	N/A	Mature lowland conifer stand, that has had at least half of the tamarack within the stand killed by the eastern larch beetle. This stand needs to be harvested to try and salvage as much wood products as possible. This stand was on contract 025-13-01, but was turned back uncompleted. If this stand is not harvested now, all of the tamarack and ash will be dead within a few years. The emerald ash borer is in close proximity to this stand. By removing the overstory, the ground will get full sunlight and the lowland conifer seed will begin to germinate and grow.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
	Red Maple	2	Pole/Log	9	106		Tag Alder	Medium	Variable	Tall Shrub
	Paper Birch	3	Pole/Sap/Log	8	106		Michigan Holly	Medium	Variable	Tall Shrub
	Black Spruce	35	Log/Pole/Sap	10	106					
	Northern White Cedar	10	Pole/Log	9	106					
	Tamarack	35	Pole/Log/Sap	9	106					