



Compartment Review Presentation

Escanaba Forest Management Unit

Compartment 33058

Entry Year 2024

Acreage: 932

County Menominee

Management Area: Green Bay Lake Plain

Stand Examiner: Dustin Salter

Legal Description:

T35N R26W Sections 1, 12, and 13

Identified Planning Goals:

The high deer population in this area, has caused a significant change in the future forest. The deer have heavily browsed and killed the majority of the hardwood stump sprouts following the harvests from the last entry. The areas with heavy mortality are converting to ironwood and spruce/fir. The spruce budworm is also still active in the area. The majority of the balsam fir has already died out and most of the spruce is heavily defoliated. The spruce budworm has been active in this area for over twenty years. I identified an area of emerald ash borer mortality within the compartment. All of merchantable ash should be harvested, prior to it all dying. The eastern larch beetle is also present and has caused a significant amount of tamarack mortality.

Soil and topography:

Topography is level with some gently rolling hills. Soils include well-drained sandy loams and poorly drained black muck over loam and sandy loam. Prominent soil series are Cathro-Ensley, Lupton-Cathro, Onaway sandy loam, Onaway-Nadeau, and Ingalls fine sand.

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

This compartment is within a block of state land that is eight miles wide and twenty miles long on the east half of Menominee County. There are no private in-holdings within this compartment but the entire north and west sides of the compartment are owned by private landowners. The land to the east and south of this compartment is state forest land. The private property around the compartment is a mix of agricultural and recreational lands. There are numerous camps and residences around the compartment. The primary uses for the private land and state forest land are agricultural, timber production and recreation.

Unique Natural Features:

None Known.

Archeological, Historical, and Cultural Features:

None Known.

Special Management Designations or Considerations:

The northeastern portion of the compartment is part of the Cedar River GEMS.

Watershed and Fisheries Considerations:

This compartment contains Elmoor Creek to the north and Walton River to the south. A 100' buffer is recommended for both of these waterbodies; buffers are recommended to protect these areas in accordance with BMPs.

Wildlife Habitat Considerations:

Mineral Resource and Development Concerns and/or Restrictions

No known potential exists for commercial oil & gas production in this part of the state. The State-owned Westman Dam Road aggregate pit is less than one mile to the west. The compartment appears to be primarily wetlands, and sand & gravel development potential appears limited, but there may be some good potential on the upland drumlins. No known potential exists for metallic minerals beneath the compartment, but little information is known for the subsurface here. There is no current mineral leasing in the compartment. The State does not own all the mineral rights within the compartment. Because the mineral estate is the dominant estate, the surface owner must provide the owner of the mineral rights reasonable access to the surface for mineral exploration and development.

Vehicle Access:

The primary access into the compartment is from the Westman Dam Road. The Westman Dam Road, is a county road that runs north to south about a half a mile from the western edge of the compartment. There are two-track roads that split

off and head into different parts of the compartment. There is a limited amount of roads within the compartment due to the large amount of lowland stands throughout it. The stands on the west side of the compartment are best accessed through private property.

Survey Needs:

No registered corners will be needed.

Recreational Facilities and Opportunities:

There are no developed facilities within this compartment. The primary uses are hunting, camping, four-wheeling, snowmobiling, and fishing along the Walton River and Elwood Creek.

Fire Protection:

This area has a very low probability of supporting a large forest fire. The landscape is very broken up with low wet ground. The Walton River and the Elwood Creek provides an adequate water source in a couple of locations within the compartment.

Additional Compartment Information:

The following reports from the Inventory are attached:

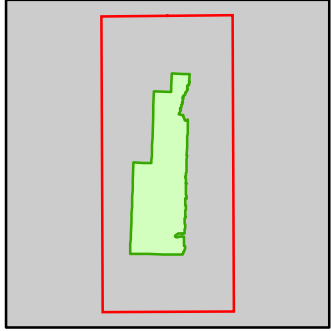
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

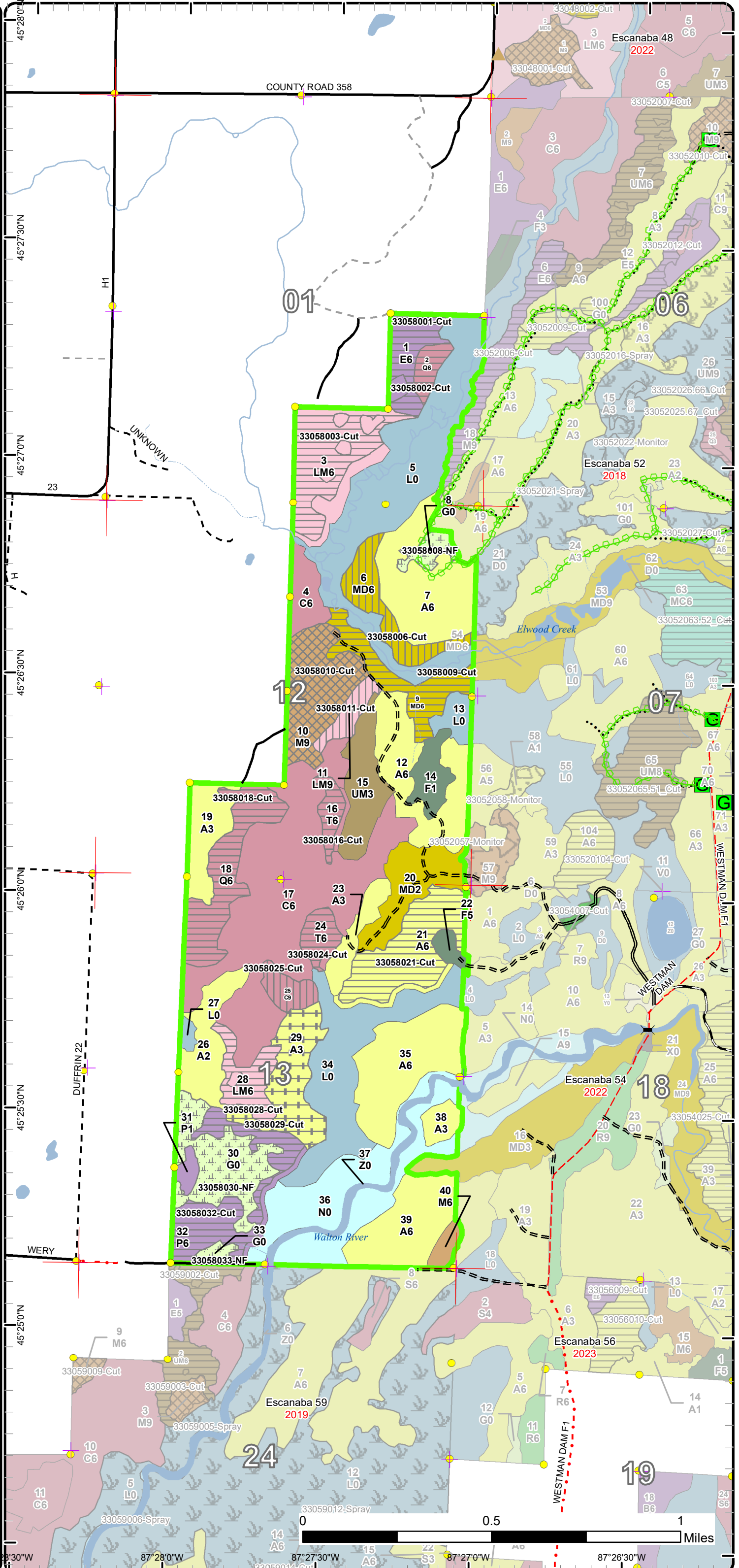
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

Cover Type & Treatments Map

Compartment: 58
 T35N-R26W Sec. 01,12,13
 County: Menominee
 Unit: Escanaba
 Mgmt Area: Green Bay Lake Plain
 YOE: 2024
 Acres: 932.3 GIS Calculated
 Examiner: Dustin Salter
 Map Revised: 6/27/2022
 Map Phase: Web-Post

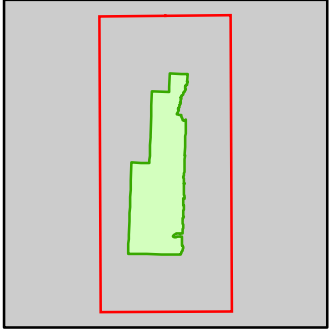


- Miris Corners
- + Remonumented Section Corners
- Survey Grade Corners
- Counties
- DNR - Primary Forest Road
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Federal / State / County - Paved Road
- Federal / State - Dirt / Gravel Road
- County - Gravel Road
- County - Dirt Road (Seasonal)
- Private - Dirt / Gravel Road
- DNR - Management Access
- Designated Hunter Walking Trails
- Intermittent Stream
- Island in Lake or River
- Lake/Pond
- Perennial River
- Lakes and Rivers
- Berms
- Gate
- Bridges
- Compartment Boundary
- Other Treatment - See Comments
- Selection (Group, Single Tree)
- Clearcut (w/Reserves)
- Harvest, Overstory Removal
- Shelter Wood (w/Reserves)
- 411 - Northern Hardwood
- 413 - Aspen
- 419 - Mixed Upland Deciduous
- 423 - Other Upland Conifers
- 430 - Upland Mixed Forest
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 613 - Lowland Mixed Forest
- 310 - Herbaceous Openland
- 500 - Water
- 622 - Lowland Shrub
- 623 - Emergent Wetland

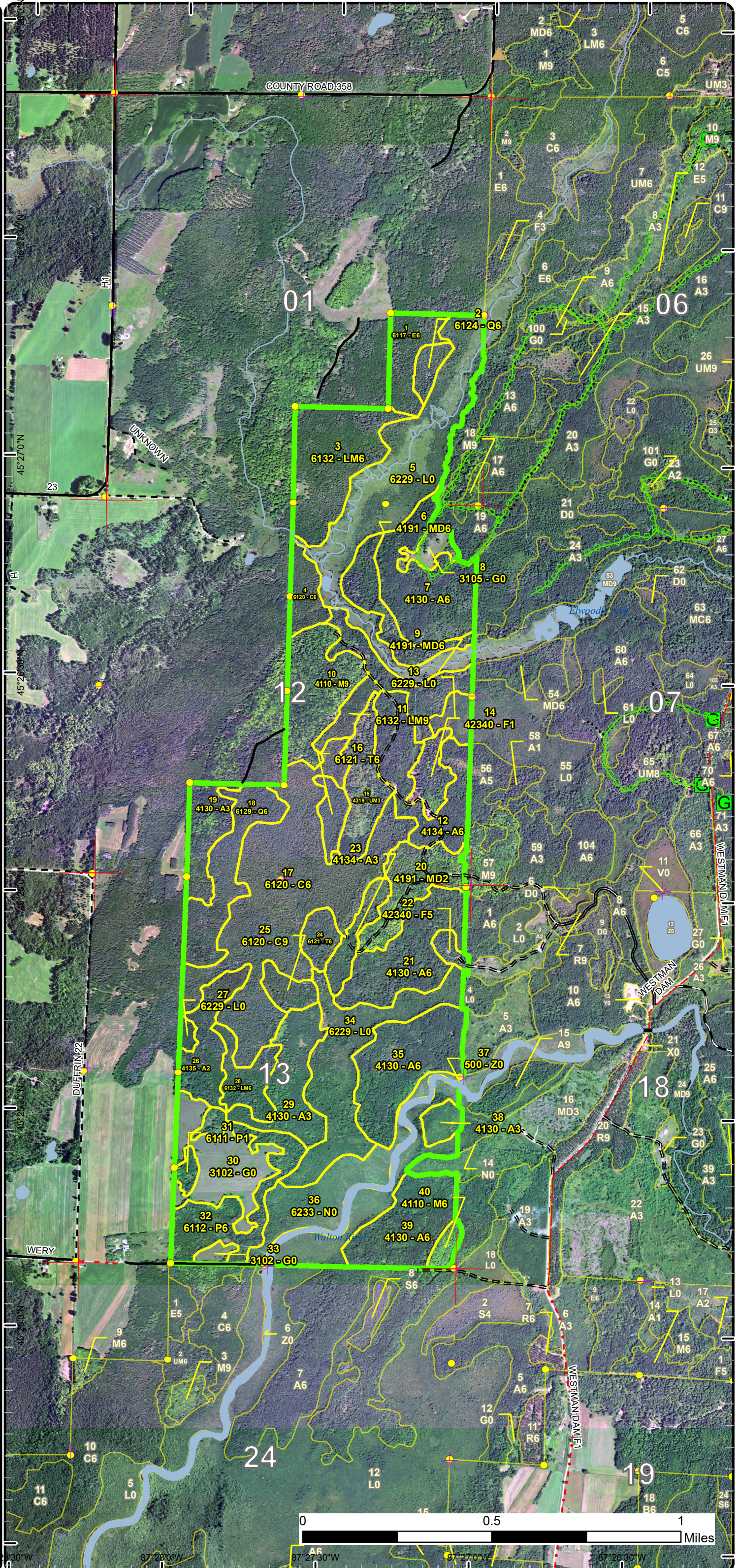


Stand Boundary Map

Compartment: 58
 T35N-R26W Sec. 01,12,13
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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	43	38	40	142	0	0	0	0	0	0	0	0	0	0	0	0	0	263
Cedar	0	0	0	0	0	0	0	0	0	0	0	0	0	11	120	0	0	0	131
Herbaceous Openland	39	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	39
Lowland Aspen/Balsam Poplar	0	3	0	0	0	0	0	0	0	0	32	0	0	0	0	0	0	0	35
Lowland Conifers	0	0	0	0	0	0	0	0	0	0	6	29	0	0	0	0	0	0	35
Lowland Deciduous	0	0	0	0	0	0	0	0	0	0	16	0	0	0	0	0	0	0	16
Lowland Mixed Forest	0	0	0	0	0	0	0	0	0	0	42	0	14	0	7	0	0	0	63
Lowland Shrub	138	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	138
Marsh	59	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	59
Mixed Upland Deciduous	0	0	0	0	0	0	0	0	0	18	21	0	0	0	0	0	0	23	61
Northern Hardwood	0	0	0	0	0	0	0	0	0	4	32	0	0	0	0	0	0	0	36
Tamarack	0	0	0	0	0	0	0	0	0	0	16	0	0	0	0	0	0	0	16
Upland Mixed Forest	0	0	0	21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	21
Upland Spruce/Fir	0	10	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	14
Water	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6
Total	242	56	38	61	146	0	0	0	0	22	165	29	14	11	127	0	0	23	933



Report 2 – Treatment Summary

Escanaba Mgt. Unit

Year of Entry: 2024

Acres of Harvest

Compartment 58

Total Compartment Acres: 932

Commercial Harvest - 280
 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	32	0	0	0	0	0	27	0	0	60
Cedar	0	0	0	0	8	0	0	0	0	8
Lowland Aspen/Balsam Poplar	29	0	0	0	0	0	0	0	0	29
Lowland Conifers	35	0	0	0	0	0	0	0	0	35
Lowland Deciduous	14	0	0	0	0	0	0	0	0	14
Lowland Mixed Forest	44	0	0	0	7	0	0	0	0	51
Mixed Upland Deciduous	21	0	0	0	18	0	0	0	0	38
Northern Hardwood	0	32	0	0	0	0	0	0	0	32
Tamarack	14	0	0	0	0	0	0	0	0	14
Total	188	32	0	0	33	0	27	0	0	281

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	281	0	0	0	0	0	0	0	39	319
Next Step	0	0	0	0	0	0	253	0	0	253
Total	281	0	0	0	0	0	253	0	39	573



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:

1	33058001-Cut	14.3	6117 - Lowland Deciduous, Mixed Coniferous	Poletimber Well	95	81-110	Harvest	Clearcut with Retention	613 - Lowland Mixed Forest	Even-Aged	No
<p><u>Prescription Specs:</u> Cut all trees greater than three (3) inches at DBH. Except, do not cut cedar greater than ten (10) inches at DBH and also retain any dense patches of cedar.</p> <p><u>Next Step Treatments:</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Acceptable Regen:</u> Spruce, tamarack, cedar, balsam fir, white pine, balm, aspen, ash, and birch.</p> <p><u>Other Comment:</u> Good quality mature black ash stand with a mix of lowland conifers. The emerald ash borer is present, along with the spruce budworm. This stand needs to be harvested prior to the majority of the trees dying. This stand was prescribed for harvest last entry, but due to poor access the sale was not prepared. There is a good quality road coming through the private property to the north, from recent logging activity.</p> <p>WLD Comments: This stand is in conditional range and has a canopy composition of 15% cedar. Much of the cedar is scattered, and lacking in shelter qualities. The biologist and forester identified retention areas to be excluded from harvest as well as all cedar over 10in DBH. This will provide ample cover as well as a seed source. The remainder of the stand will be treated. This stand is one of seven stands where cedar will be harvested in compartment 58. The harvest of cedar in these seven stands will equal between 300-400 cords of cedar being harvested in total.</p> <p><u>Site Condition</u> Proposed Start Date: 10/1 /2023</p>											
2	33058002-Cut	5.8	6124 - Lowland Spruce-Fir	Poletimber Well	95	81-110	Harvest	Clearcut with Retention	612 - Lowland Coniferous Forest	Even-Aged	No
<p><u>Prescription Specs:</u> Cut all trees greater than three (3); except do not cut the cedar greater than eight (8) inches at DBH.</p> <p><u>Next Step Treatments:</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Acceptable Regen:</u> Spruce, tamarack, balsam fir, cedar, pine, ash, and balm.</p> <p><u>Other Comment:</u> Good quality black spruce stand with some good quality cedar along the western edge of the stand. The emerald ash borer, eastern larch beetle, and the spruce budworm are all present and defoliation and mortality. This stand needs to be harvested now, before the insects kill all of their associated species. Only the small diameter cedar will be harvested to allow the other species to be harvested. This will also create some more open areas to allow the lowland conifers to regenerate with full sunlight.</p> <p>WLD Comments: WLD Comments: This stand is in conditional range and has a canopy composition of 25% cedar. The biologist and forester identified retention areas to be excluded from harvest as well as all cedar over 8in DBH. This will provide ample cover as well as a seed source. The remainder of the stand will be treated. This stand is one of seven stands where cedar will be harvested in compartment 58. The harvest of cedar in these seven stands will equal between 300-400 cords of cedar being harvested in total.</p> <p><u>Site Condition</u> Proposed Start Date: 10/1 /2023</p>											



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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
3 33058003-Cut	30.3	6132 - Mixed Lowland Forest with Cedar	Poetimber Well	95	81-110	Harvest	Clearcut with Retention	613 - Lowland Mixed Forest	Even-Aged	No
<p><u>Prescription</u> Cut all trees greater than three (3) inches at DBH. The dense patches of cedar will be retained.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u> Spruce, tamarack, balsam fir, pine, aspen, balm, cedar, and ash.</p> <p><u>Other Comment:</u> Low to moderate quality mature black ash stand with a mix of lowland conifers. The emerald ash borer, eastern larch beetle, along with the spruce budworm are all present within the stand. This stand needs to be harvested prior to the majority of the trees dying. There are a number of dense good quality patches of cedar that will be retained. Most of the good quality cedar will be within the retention patches. This stand was prescribed for harvest last entry, but due to poor access the sale was not prepared. There is a good quality road coming through the private property to the north, from recent logging activity.</p> <p>WLD Comments: This stand is in conditional range and has a canopy composition of 30% cedar. The biologist and forester identified retention areas to be excluded from harvest. This will provide ample cover as well as a seed source. The remainder of the stand will be treated. This stand is one of seven stands where cedar will be harvested in compartment 58. The harvest of cedar in these seven stands will equal between 300-400 cords of cedar being harvested in total.</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2023</p>										
6 33058006-Cut	17.9	4191 - Mixed Upland Deciduous with Conifer	Poetimber Well	84	81-110	Harvest	Shelterwood	4191 - Mixed Upland Deciduous with Conifer	Even-Aged	No
<p><u>Prescription</u> Cut all trees greater than three (3) inches at DBH. Mark to retain 20 to 30 basal area of primarily hardwood and pine, including black cherry.</p> <p><u>Specs:</u> Leave a higher basal area within 100' of Elwood Creek.</p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u> Maple, birch, aspen, ash, pine, and spruce/fir.</p> <p><u>Other Comment:</u> This stand is a mix of mature hardwoods and upland conifers. The emerald ash borer and the spruce budworm are present and causing defoliation with some balsam fir mortality. This stand is ready to be harvested, but with its proximity to the Elwood Creek we will do a shelterwood harvest. With this harvest we will manage for a mix of hardwood and conifers. We will leave a higher density of residual trees within 100' of the creek to prevent erosion and future beaver issues.</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2023</p>										
8 33058008-NF	5.8	3105 - Mixed Upland Herbaceous	Nonstocked		Unspec ified	NonForestMgt	Other - Specify	310 - Herbaceous Openland		No
<p><u>Prescription</u> Prescribed fire, farming (dozing, disking, raking, herbiciding, seeding (native or naturalized species only), fertilizing and liming, brushhog/saw removal of competing trees and establishment of native hard and soft mast producers such as red oak, crabapple or others. Also sharecropping could be considered for this opening.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u></p> <p><u>Other Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2023</p>										



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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
9 33058009-Cut	20.5	4191 - Mixed Upland Deciduous with Conifer	Poletimber Well	92	51-80	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. Leave a buffer along Elwood Creek, minimizing the width due to the forest health concerns.</p> <p><u>Next Step Treatments:</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Acceptable Regen:</u> Maple, spruce/fir, pine, aspen, and ash.</p> <p><u>Other Comment:</u> Mature hardwood and conifer stand. The stand is ready to be harvested, the hardwood and aspen is mature and the spruce/fir is being defoliated by the spruce budworm. The emerald ash borer is within the area as well. There is a trace of cedar in the stand.</p> <p><u>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /2023</p>										
10 33058010-Cut	32.1	4110 - Sugar Maple Association	Sawtimber Well	94	111-140	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven-Aged	No
<p><u>Prescription Specs:</u> Mark this stand down to 70 to 80 basal area, removing the majority of the ash and beech due to forest health concerns. Retain some wolfy and scale free beech throughout the stand.</p> <p><u>Next Step Treatments:</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Acceptable Regen:</u> Maple, basswood, birch, beech, and ash.</p> <p><u>Other Comment:</u> Mature high quality hardwood stand, that is ready to be thinned. Thinning the stand will improve the spacing of the residual trees, which will improve the growth of the residual trees. The stand was previously thinned in 1999 on contract 33-99-01. There is a trace amount of yellow birch, hemlock, and balsam fir. Beech scale is present within the stand and the emerald ash borer is nearby.</p> <p><u>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /2023</p>										
11 33058011-Cut	7.3	6132 - Mixed Lowland Forest with Cedar	Sawtimber Well	131	141-170	Harvest	Shelterwood with Retention	613 - Lowland Mixed Forest	Two-Aged	No
<p><u>Prescription Specs:</u> Cut all trees greater than three (3) inches at DBH; except do not cut cedar or hemlock. Cut only those cedar needed to operate in the stand, to harvest the other designated species.</p> <p><u>Next Step Treatments:</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Acceptable Regen:</u> Maple, birch, spruce/fir, tamarack, pine, and ash.</p> <p><u>Other Comment:</u> Mature good quality cedar and mixed hardwood stand. The hardwood is mature and should be harvested, prior to it dying out of the stand. The emerald ash borer is nearby. This stand was on contract 022-15-01 to have a seed tree cut done, but the treatment was not completed and was turned back.</p> <p>WLD Comments: This stand is in conditional range and has a canopy composition of 45% cedar. The biologist and forester identified agreed to only harvest the cedar needed for operability. Due to the variety of tree species within this stand, there will need to be cedar harvested. The cedar that isn't harvested for operability will provide ample cover as well as a seed source. This stand is one of seven stands where cedar will be harvested in compartment 58. The harvest of cedar in these seven stands will equal between 300-400 cords of cedar being harvested in total.</p> <p><u>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /2023</p>										



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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
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16	33058016-Cut	6.2	6121 - Tamarack	Poletimber Well	93	141-170	Harvest	Clearcut with Retention	612 - Lowland Coniferous Forest	Even-Aged	No
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Prescription Specs: Cut all trees greater than three (3) inches at DBH. The dense strip along the eastern edge of the stand will be retained.

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

Acceptable Regen: Tamarack, spruce, pine, birch, and cedar.

Other Comment: Mature good quality tamarack and cedar stand. The majority of the cedar is poor quality, except along the transition zone along stand 5. The eastern larch beetle is causing some tamarack mortality. This stand needs to be harvested before all of the tamarack dies. The dense cedar along the eastern edge of the stand will be retained, to provide a travel corridor and a seed source. Due to the very high deer population, it will be difficult to regenerate cedar in this stand.

WLD Comments: This stand is in conditional range and has a canopy composition of 40% cedar. Much of the cedar is scattered, and lacking in shelter qualities. It is also surrounded by a larger cedar stand that offers more quality cedar for cover. The biologist and forester agreed to harvest the cedar in this stand to be able to salvage the tamarack and regenerate tamarack. It is unlikely that cedar will regenerate within this stand due to deer density. This stand is one of seven stands where cedar will be harvested in compartment 58. The harvest of cedar in these seven stands will equal between 300-400 cords of cedar being harvested in total.

Site Condition

Proposed Start Date: 10/1 /2023

18	33058018-Cut	29.4	6129 - Mixed Coniferous Lowland Forest	Poletimber Well	103	141-170	Harvest	Clearcut with Retention	612 - Lowland Coniferous Forest	Two-Aged	No
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Prescription Specs: Cut all trees greater than three (3) inches at DBH. Except retain the dense patches of cedar and the patches of cedar where the tamarack has already died out. All cedar greater than ten (10) inches at DBH, will also be retained.

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

Acceptable Regen: Tamarack, spruce, pine, birch, maple, ash, and cedar.

Other Comment: Mature mixed lowland stand, that is ready to be harvested. The tamarack is dying out, due to the eastern larch beetle. The majority of the cedar is low quality; except in the transition zone along stand 19. The dense patches of cedar will be retained, to provide functional winter cover for deer. The larger diameter cedar will also be retained, to preserve the majority of the transition zone. The rest of the cedar will be harvested to provide full sunlight for the tamarack and spruce to regenerate.

WLD Comments: This stand is in conditional range and has a canopy composition of 30% cedar. The biologist and forester identified retention areas to be excluded from harvest as well as agreed to retain cedar over 10in DBH. This will provide ample retention for a seed source. There is a large cedar stand to the east of this stand that will not be harvested. The remainder of the stand will be treated and cedar will be harvested. This is one of seven stands within compartment 58 where cedar will be harvested. In total there will be 300-400 cords of cedar harvested in compartment 58.

Site Condition

Proposed Start Date: 10/1 /2023

21	33058021-Cut	32.4	4130 - Aspen	Poletimber Well	37	51-80	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
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Prescription Specs: Cut all trees greater than three (3) inches at DBH; except retain a one chain buffer along the southern edge of the stand. The retention has already been excluded from the treatment area.

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

Acceptable Regen: Aspen, maple, spruce/fir, and white pine.

Other Comment: Fully stocked aspen stand, with some older hardwood and aspen within the stand. Harvest this stand to spread out the age classes of aspen throughout the compartment. The retention area will provide a wildlife travel corridor along the lowland brush stand.

Site Condition

Proposed Start Date: 10/1 /2023



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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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24	33058024-Cut	7.6	6121 - Tamarack	Poletimber Well	93	111-140	Harvest	Clearcut with Retention	6121 - Tamarack	Even-Aged	No
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Prescription Specs: Cut all trees greater than three (3) inches at DBH. The dense patches of cedar will be retained. There is one patch in the southeast corner of the stand.

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

Acceptable Regen: Tamarack, spruce, birch, and cedar.

Other Comment: Mature tamarack stand, with a significant amount of cedar. The majority of the cedar is low quality, except along the transition with stand 23. A significant amount of tamarack along the perimeter of the stand has already died due to the eastern larch beetle. If the stand is not harvested soon, the majority of the tamarack will die within a few years, losing a viable seed source. Due to the very high deer population, it will be difficult to regenerate cedar in this stand.

WLD Comments: This stand is in conditional range and has a canopy composition of 25% cedar. Much of the cedar is scattered, and lacking in shelter qualities. It is also surrounded by a larger cedar stand that offers more quality cedar for cover. The biologist and forester agreed to harvest the cedar in this stand to be able to salvage the tamarack and regenerate tamarack. The biologist and forester agreed to retain the best patch of cedar which is in the SE corner. It is unlikely that cedar will regenerate within this stand due to deer density. This stand is one of seven stands where cedar will be harvested in compartment 58. The harvest of cedar in these seven stands will equal between 300-400 cords of cedar being harvested in total.

Site Condition

Proposed Start Date: 10/1 /2023

25	33058025-Cut	7.6	6120 - Lowland Cedar	Sawtimber Well	130	141-170	Harvest	Shelterwood	6132 - Mixed Lowland Forest with Cedar	Two-Aged	No
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Prescription Specs: Cut all trees greater than three (3) inches at DBH; except cedar. The only cedar that will be harvested are those that are needed to operate in the stand.

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

Acceptable Regen: Spruce/fir, tamarack, birch, maple, balm, ash, and cedar.

Other Comment: Mature good quality cedar stand with a significant amount of hardwood and other conifers mixed in. The hardwoods and conifers are dying out of the stand and should be harvested now, while there is a chance to regenerate them. The cedar will be retained.

WLD Comments: This stand is in conditional range and has a canopy composition of 50% cedar. The biologist and forester identified agreed to only harvest the cedar needed for operability. Due to the variety of tree species within this stand, there will need to be cedar harvested. The cedar that isn't harvested for operability will provide ample cover as well as a seed source. This stand is surrounded by a large high quality cedar stand. This stand is one of seven stands where cedar will be harvested in compartment 58. The harvest of cedar in these seven stands will equal between 300-400 cords of cedar being harvested in total.

Site Condition

Proposed Start Date: 10/1 /2023



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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
28 33058028-Cut	13.3	6132 - Mixed Lowland Forest with Cedar	Poletimber Well	119	81-110	Harvest	Clearcut with Retention	613 - Lowland Mixed Forest	Even-Aged	No
<p><u>Prescription</u> Cut all trees greater than three (3) inches at DBH. There are some dense patches of cedar along the western edge that will be retained.</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> Tamarack, spruce/fir, balm, aspen, ash, and cedar.</p> <p><u>Regen:</u></p> <p><u>Other</u> Mature lowland ash and conifer stand. All species are in need of a harvest. The emerald ash borer is present and the eastern larch beetle is causing tamarack mortality. The majority of the tamarack is low quality, except for a few pockets along the western edge of the stand.</p> <p><u>Comment:</u></p> <p>WLD Comments: This stand is in conditional range and has a canopy composition of 25% cedar. Much of the cedar is scattered, and lacking in shelter qualities. There is a higher quality cedar stand to the north of this stand. The biologist and forester identified retention areas to be excluded from harvest. The remainder of the stand will be treated and some cedar will be harvested. This is one of seven stands within compartment 58 where cedar will be harvested. In total there will be 300-400 cords of cedar harvested in compartment 58.</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2023</p>										
29 33058029-Cut	27.2	4130 - Aspen	Sapling Well	14	1-50	Harvest	Overstory Removal	413 - Aspen	Even-Aged	No
<p><u>Prescription</u> Cut all merchantable trees, except cedar, hemlock, and pine. Only about 60% of the stand has a partial overstory that will be harvested.</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable</u></p> <p><u>Regen:</u></p> <p><u>Other</u> This is a two aged stand with a full understory of aspen regeneration and a partial overstory of white ash poles/logs. The emerald ash borer is present, so the overstory ash should be harvested prior to it dying. This stand was clearcut in 2008 on contract 027-05-01; except the ash, cedar, hemlock and pine was retained. There was also some aspen, balm, and spruce/fir that wasn't cut with the sale as well.</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2023</p>										
30 33058030-NF	30.3	3102 - Grass	Nonstocked		Unspecified	NonForestMgt	Other - Specify	310 - Herbaceous Openland		No
<p><u>Prescription</u> Prescribed fire, farming (dozing, disking, raking, herbiciding, seeding (native or naturalized species only), fertilizing and liming, brushhog/saw removal of competing trees and establishment of native hard and soft mast producers such as red oak, crabapple or others. Also sharecropping could be considered for this opening.</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable</u></p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2023</p>										



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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
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32	33058032-Cut	28.6	6112 - Lowland Aspen	Poletimber Well	96	51-80	Harvest	Clearcut with Retention	6111 - Lowland Balsam Poplar	Even-Aged	No
<p><u>Prescription</u> Cut all trees greater than three (3) inches at DBH; except the cedar and white pine.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Aspen, balm, ash, spruce/fir, tamarack, maple, and pine.</p> <p><u>Regen:</u></p> <p><u>Other</u> Low quality lowland aspen, balm, and ash stand with some pockets of dense lowland brush. All species are mature and should be harvested, before they die due to age and the emerald ash borer. The emerald ash borer is present. There is some pine, but not in the species list.</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2023</p>											

33	33058033-NF	2.8	3102 - Grass	Nonstocked		Unspec ified	NonForestMgt	Other - Specify	310 - Herbaceous Openland		No
<p><u>Prescription</u> Prescribed fire, farming (dozing, disking, raking, herbiciding, seeding (native or naturalized species only), fertilizing and liming, brushhog/saw</p> <p><u>Specs:</u> removal of competing trees and establishment of native hard and soft mast producers such as red oak, crabapple or others. Also sharecropping could be considered for this opening.</p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable</u></p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2023</p>											

Total Treatment 319.4
Acreage Proposed:

Report 4 – Site Conditions

Escanaba Mgt. Unit
Dustin Salter : Examiner

Compartment: 58
Year of Entry: 2024

Availability for Management

Total Acres	Acres Available	Acres Avail		Dominant Site Conditions	3L	5E
		With Condition	Not Available			
262	258	0	4	Aspen		4
131	8	0	123	Cedar	123	
39	39	0	0	Herbaceous Openland		
35	32	0	3	Lowland Aspen/Balsam Poplar	3	
35	35	0	0	Lowland Conifers		
16	14	0	1	Lowland Deciduous		1
63	59	0	4	Lowland Mixed Forest		4
138	138	0	0	Lowland Shrub		
59	59	0	0	Marsh		
62	62	0	0	Mixed Upland Deciduous		
36	36	0	0	Northern Hardwood		
16	14	0	2	Tamarack	1	0
21	21	0	0	Upland Mixed Forest		
14	14	0	0	Upland Spruce/Fir		
6	6	0	0	Water		
932	795		137	Total Forested Acres	127	10
	85%		15%	Relative Percent		

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

Site No.	Dominant Site Cond Availability	Dominant Site Condition	Acres	Other Site Condition	Other Site Condition	Other Site Condition	Other Site Condition
1	Unavailable	3L: Other wildlife concerns	11	Unspecified	Unspecified	Unspecified	Unspecified
Comments: This stand is factor limited due to the high percentage of cedar and the deer winter range guidelines.							
2	Unavailable	3L: Other wildlife concerns	112	Unspecified	Unspecified	Unspecified	Unspecified
Comments: This stand is factor limited due to the high percentage of cedar and the deer winter range guidelines.							

Report 4 – Site Conditions

Escanaba Mgt. Unit
Dustin Salter : Examiner

Compartment: 58
Year of Entry: 2024

3	Unavailable	5E: Long-Term Retention	1	3L: Other wildlife concerns	Unspecified	Unspecified	Unspecified
Comments:							
4	Unavailable	3L: Other wildlife concerns	1	5E: Long-Term Retention	Unspecified	Unspecified	Unspecified
Comments: Dense strip of cedar, that will provide a travel corridor and retention.							
5	Unavailable	5E: Long-Term Retention	0	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
6	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
8	Unavailable	5E: Long-Term Retention	2	3L: Other wildlife concerns	Unspecified	Unspecified	Unspecified
Comments:							
9	Unavailable	5E: Long-Term Retention	1	3L: Other wildlife concerns	Unspecified	Unspecified	Unspecified
Comments:							
10	Unavailable	5E: Long-Term Retention	1	3L: Other wildlife concerns	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Escanaba Mgt. Unit
Dustin Salter : Examiner

Compartment: 58
Year of Entry: 2024

11	Unavailable	5E: Long-Term Retention	1	3L: Other wildlife concerns	Unspecified	Unspecified	Unspecified
Comments:							
12	Unavailable	5E: Long-Term Retention	1	3L: Other wildlife concerns	Unspecified	Unspecified	Unspecified
Comments:							
13	Unavailable	5E: Long-Term Retention	3	3L: Other wildlife concerns	Unspecified	Unspecified	Unspecified
Comments: This will be long term retention, but will also provide a travel corridor for wildlife along the lowland brush stand.							
14	Unavailable	3L: Other wildlife concerns	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments: This retention is meant to provide a corridor for wildlife to move along the river, roosting trees, perching trees for birds of prey to use for hunting the adjacent opening, and provide mature trees for tree stands for those that hunt the area.							

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				
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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.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																	
1	6117 - Lowland Deciduous, Mixed Coniferous	Poletimber Well	16.1	95	81-110	N/A	Good quality mature black ash stand with a mix of lowland conifers. The emerald ash borer is present, along with the spruce budworm. This stand needs to be harvested prior to the majority of the trees dying. This stand was prescribed for harvest last entry, but due to poor access the sale was not prepared. There is a good quality road coming through the private property to the north, from recent logging activity.																																																	
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2	6124 - Lowland Spruce-Fir	Poletimber Well	5.8	95	81-110	N/A	Good quality black spruce stand with some good quality cedar along the western edge of the stand. The emerald ash borer, eastern larch beetle, and the spruce budworm are all present and defoliation and mortality. This stand needs to be harvested now, before the insects kill all of their associated species. Only the small diameter cedar will be harvested to allow the other species to be harvested. This will also create some more open areas to allow the lowland conifers to regenerate with full sunlight.																																																	
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3	6132 - Mixed Lowland Forest with Cedar	Poletimber Well	41.6	95	81-110	N/A	Low to moderate quality mature black ash stand with a mix of lowland conifers. The emerald ash borer, eastern larch beetle, along with the spruce budworm are all present within the stand. This stand needs to be harvested prior to the majority of the trees dying. There are a number of dense good quality patches of cedar that will be retained. This stand was prescribed for harvest last entry, but due to poor access the sale was not prepared. There is a good quality road coming through the private property to the north, from recent logging activity.																																																	
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4	6120 - Lowland Cedar	Poletimber Well	11.0	120	81-110	N/A	Lowland cedar stand with denser areas of black spruce and white birch. The eastern portion of this stand was cut through, about 40 years ago. It appears some larger conifer trees were cut. In about 20 years, when the spruce, tamarack, and hardwoods are mature this stand can be harvested again.																																																	
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																				
5	6229 - Mixed lowland shrub	Nonstocked	80.1		Unspecified	No	Lowland brush/grass stand, with the Elwood Creek flowing through it. There are some ash poles and balm saplings along the edges.																																																				
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6	4191 - Mixed Upland Deciduous with Conifer	Poletimber Well	17.9	84	81-110	N/A	This stand is a mix of mature hardwoods and upland conifers. The emerald ash borer and the spruce budworm are present and causing defoliation with some balsam fir mortality. This stand is ready to be harvested, but with its proximity to the Elwood Creek we will do a shelterwood harvest. With this harvest we will manage for a mix of hardwood and conifers. We will leave a higher density of residual trees within 100' of the creek to prevent erosion and future beaver issues.																																																				
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7	4130 - Aspen	Poletimber Well	39.8	26	1-50	N/A	Fully stocked aspen stand, with some pockets of spruce/fir and lowland brush. Stand was clearcut in 1995 on contract 017-94-01.																																																				
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8	3105 - Mixed Upland Herbaceous	Nonstocked	5.8		Unspecified	No	Grass opening that has a hunter walking trail running through it. There are some scattered sugar maple logs, spruce poles/saplings, and balm seedlings around the perimeter of the stand.																																																				
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10	4110 - Sugar Maple Association	Sawtimber Well	32.1	94	111-140	N/A	Mature high quality hardwood stand, that is ready to be thinned. Thinning the stand will improve the spacing of the residual trees, which will improve the growth of the residual trees. The stand was previously thinned in 1999 on contract 33-99-01. There is a trace amount of yellow birch, hemlock, and balsam fir. Beech scale is present within the stand and the emerald ash borer is nearby.																																																	
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11	6132 - Mixed Lowland Forest with Cedar	Sawtimber Well	7.3	131	141-170	N/A	Mature good quality cedar and mixed hardwood stand. The hardwood is mature and should be harvested, prior to it dying out of the stand. The emerald ash borer is nearby. This stand was on contract 022-15-01 to have a seed tree cut done, but the treatment was not completed and was turned back.																																																	
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12	4134 - Aspen, Spruce/Fir	Poletimber Well	34.2	35	51-80	N/A	Fully stocked aspen stand with some dense pockets of conifer and lowland brush. There are also some residual older hardwoods within the stand. About half of the spruce/fir is older, about 65 years of age. Stand was clearcut in 1987 on contract 053-84-01.																																																	
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13	6229 - Mixed lowland shrub	Nonstocked	6.6		Unspecified	No	Lowland brush stand, with some ash and spruce around the perimeter.																																																	
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14	42340 - Upland Spruce/Fir	Sapling Poor	10.3	6	1-50	N/A	Young spruce/fir stand with some residual pine. Over time more conifers will continue to seed in. Most of the hardwood and aspen stump sprouts have been heavily browsed and killed by deer. The stand was clearcut in 2016 on contract 022-15-01. The hemlock, cedar, white pine, beech, and white spruce were retained.																																																											
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15	4319 - Mixed Upland Forest	Sapling Well	20.8	22	1-50	N/A	Fully stocked aspen and spruce/fir stand, with some residual mature hardwoods and cedar scattered throughout the stand. This stand was clearcut in 2000 on contract 033-99-01.																																																											
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16	6121 - Tamarack	Poletimber Well	7.5	93	141-170	N/A	Mature good quality tamarack and cedar stand. The majority of the cedar is poor quality, except along the transition zone along stand 5. The eastern larch beetle is causing some tamarack mortality. This stand needs to be harvested before all of the tamarack dies. The dense cedar along the eastern edge of the stand will be retained, to provide a travel corridor and a seed source.																																																											
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17	6120 - Lowland Cedar	Poletimber Well	112.0	131	111-140	N/A	Mature cedar stand with some dense pockets of tamarack. A very large percentage of the tamarack has already died out of the stand, due to the eastern larch beetle. The cedar around the perimeter of the stand is moderate quality, but the majority of the cedar is low quality and not very dense.																																																											
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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18	6129 - Mixed Coniferous Lowland Forest	Poletimber Well	29.4	103	141-170	N/A	Mature mixed lowland stand, that is ready to be harvested. The tamarack is dying out, due to the eastern larch beetle. The majority of the cedar is low quality; except in the transition zone along stand 19. The dense patches of cedar will be retained, to provide functional winter cover for deer. The rest of the cedar will be harvested to provide full sunlight for the tamarack and spruce to regenerate.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Paper Birch		5	Pole/Sap/Log	8	103	Tag Alder		Low	5 - 10 feet	Tall Shrub	
Black Spruce		20	Pole/Sap/Log	8	103	Balsam Fir		Low	< 5 feet	Sapling	
Northern White Cedar		30	Pole/Sap/Log	7	103						
Tamarack		40	Pole/Sap/Log	8	103						
Black Ash		3	Pole/Sapling	7	103						
Red Maple		2	Log/Pole	10	103						

19	4130 - Aspen	Sapling Well	17.2	6	Immature	N/A	Stand was clearcut in 2016 on contract 022-15-01. The cedar was retained. The upland areas of the stand has fully regenerated with aspen. The lowland areas are regenerating with tamarack and spruce.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Black Cherry		2	Sapling	1	6						
Tamarack		3	Sapling	1	6						
Northern White Cedar		5	Log/Pole	10	103						
Balsam Fir		3	Sapling	1	6						
White Ash		5	Sapling	1	6						
Balsam Poplar		5	Sapling	1	6						
Bigtooth Aspen		65	Sapling	1	6						
Quaking Aspen		10	Sapling	1	6						
Black Spruce		2	Sapling	1	6						

20	4191 - Mixed Upland Deciduous with Conifer	Sapling Medium	23.4	5	1-50	N/A	Stand was clearcut in 2017 on contract 022-15-01. The cedar, hemlock, white pine, and beech were retained. This stand is uneven aged. There is some mature beech, maple, and cedar, a significant amount of older hardwood and balsam/fir saplings and the new young aspen regeneration. The stand has not fully regenerated yet, but will continue to fill in with conifers over time. Deer have heavily browsed and killed the majority of the hardwood stump sprouts following the last harvest.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
White Ash		10	Sapling	3	35	Blackberry/Raspberry		Low	5 - 10 feet	Tall Shrub	
Black Cherry		10	Sapling	2	35						
Ironwood		5	Sapling	3	35						
Beech		15	Pole/Sap/Log	6	93						
Balsam Poplar		5	Sapling	1	5						
White Spruce		10	Sapling	3	35						
Balsam Fir		10	Sapling	3	35						
Red Maple		5	Sapling	1	5						
Northern White Cedar		5	Log/Pole	10	93						



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments	
21	4130 - Aspen	Poletimber Well	35.8	37	51-80	N/A	Fully stocked aspen stand, with some older hardwood and aspen within the stand. Harvest this stand to spread out the age classes of aspen throughout the compartment.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
White Spruce		10	Pole/Sapling	7	37	Ironwood		
Black Cherry		2	Pole/Sapling	5	37	Low		
Red Maple		3	Pole/Sapling	5	37	10 - 20 feet		
Balsam Fir		5	Pole/Sapling	6	37	Sapling		
Bigtooth Aspen		25	Pole/Log/Sap	8	37	Medium		
Quaking Aspen		55	Pole/Log/Sap	7	37	5 - 10 feet		
						Tall Shrub		
22	42340 - Upland Spruce/Fir	Poletimber Medium	3.8	35	1-50	N/A	Fully stocked spruce/fir stand. There is some spruce budworm defoliation, but there isn't enough volume to harvest at this time.	
Canopy Species		% Cover	Size Class	DBH	Age			
Red Maple		3	Log/Pole/Sap	10	93			
Quaking Aspen		2	Log/Pole	10	93			
Balsam Fir		25	Sapling/Pole	4	35			
White Spruce		55	Sapling/Pole	4	35			
White Pine		15	Sapling/Pole/Log	4	35			
23	4134 - Aspen, Spruce/Fir	Sapling Well	10.5	14	1-50	N/A	Stand was clearcut in 2008 on contract 027-05-01. The cedar, hemlock, pine, and ash was retained. Fully stocked aspen stand with some residual older ash and cedar. There are also some pockets of older spruce/fir poles/saplings.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Bigtooth Aspen		30	Sapling	3	14	Ironwood		
Balsam Fir		10	Pole/Sapling	5	50	Low		
Northern White Cedar		5	Log/Pole	12	93	10 - 20 feet		
White Spruce		10	Pole/Sapling	6	50	Sapling		
Quaking Aspen		30	Sapling	3	14	Low		
White Ash		10	Pole/Log/Sap	9	93	5 - 10 feet		
Black Cherry		5	Sapling	2	14	Sapling		
24	6121 - Tamarack	Poletimber Well	8.0	93	111-140	N/A	Mature tamarack stand, with a significant amount of cedar. The majority of the cedar is low quality, except along the transition with stand 23. A significant amount of tamarack along the perimeter of the stand has already died due to the eastern larch beetle. If the stand is not harvested soon, the majority of the tamarack will die within a few years, losing a viable seed source.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Tamarack		65	Pole/Log/Sap	9	93	Northern White Cedar		
Paper Birch		5	Pole/Sapling	7	93	Low		
Black Spruce		5	Pole/Log/Sap	8	93	10 - 20 feet		
Northern White Cedar		25	Pole/Log/Sap	8	130	Sapling		



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
25	6120 - Lowland Cedar	Sawtimber Well	7.6	130	141-170	N/A	Mature good quality cedar stand with a significant amount of hardwood and other conifers mixed in. The hardwoods and conifers are dying out of the stand and should be harvested now, while there is a chance to regenerate them. The cedar will be retained.
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Paper Birch		25	Pole/Log	9	93	Tag Alder	
Black Spruce		5	Log/Pole/Sap	10	93	Low	
Northern White Cedar		50	Log/Pole	12	130	5 - 10 feet	
Tamarack		5	Pole/Log	9	93	Tall Shrub	
Balsam Fir		5	Pole/Log/Sap	8	93		
Black Ash		5	Pole/Sapling	7	93		
Balsam Poplar		5	Log/Pole	12	93		
26	4135 - Aspen, Cedar	Sapling Medium	20.2	6	1-50	N/A	Stand was clearcut in 2016 on contract 022-15-01. The cedar, white spruce, hemlock, and beech were retained. There was also a retention patch left in the southern part of the stand. Most of the residual cedar is in dense patches. The upland areas have regenerated with aspen and balm and the low areas are regenerating with conifers.
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Bigtooth Aspen		20	Sapling	1	6	Balsam Fir	
Balsam Poplar		15	Sapling	1	6	Low	
Northern White Cedar		20	Pole/Log	9	131	5 - 10 feet	
Quaking Aspen		45	Sapling	1	6	Tall Shrub	
						Sapling	
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						Sapling	
27	6229 - Mixed lowland shrub	Nonstocked	2.1		Unspecified	No	Lowland brush with some ash and birch saplings and poles.
Sub-Canopy Species		Density	Avg. Height	Size			
Paper Birch		Low	>20 feet	Pole			
Black Ash		Medium	>20 feet	Sapling			
28	6132 - Mixed Lowland Forest with Cedar	Poletimber Well	13.9	119	81-110	N/A	Mature lowland ash and conifer stand. All species are in need of a harvest. The emerald ash borer is present and the eastern larch beetle is causing tamarack mortality. The majority of the tamarack is low quality, except for a few pockets along the western edge of the stand.
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Paper Birch		2	Pole/Sapling	7	119	Tag Alder	
Tamarack		5	Log/Pole/Sap	10	119	Medium	
Black Ash		40	Pole/Log/Sap	8	119	5 - 10 feet	
Northern White Cedar		25	Pole/Log/Sap	8	119	Tall Shrub	
Black Spruce		13	Pole/Sap/Log	7	119	Sapling	
Green Ash		10	Pole/Log	9	119		
Quaking Aspen		5	Log/Pole	12			
29	4130 - Aspen	Sapling Well	27.2	14	1-50	N/A	This is a two aged stand with a full understory of aspen regeneration and a partial overstory of white ash poles/logs. The emerald ash borer is present, so the overstory ash should be harvested prior to it dying. This stand was clearcut in 2008 on contract 027-05-01; except the ash, cedar, hemlock and pine was retained. There was also some aspen, balm, and spruce/fir that wasn't cut with the sale as well.
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
White Spruce		2	Sapling/Pole/Log	1	14	Ironwood	
Balsam Fir		2	Sapling/Pole/Log	1	14	Low	
Black Cherry		3	Sapling	1	14	5 - 10 feet	
Quaking Aspen		10	Sapling	1	14	Tall Shrub	
White Ash		10	Pole/Log/Sap	8	103	Sapling	
Bigtooth Aspen		65	Sapling	2	14		
Balsam Poplar		8	Sapling/Pole	1	14		



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																										
30	3102 - Grass	Nonstocked	30.3		Unspecified	No	Grass opening with a significant amount of spotted knapweed. The farmer to the west has in the past planted this field illegally, but not recently.																																																										
31	6111 - Lowland Balsam Poplar	Sapling Poor	3.3	6	Immature	N/A	Stand was clearcut in 2016 on contract 022-15-01. The stand has some balm and aspen regen, but the stand hasn't regenerated yet. Deer have heavily browsed and killed the majority of the hardwood stump sprouts following the last harvest. Over time more conifers may seed in.																																																										
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32	6112 - Lowland Aspen	Poletimber Well	31.8	96	51-80	N/A	Low quality lowland aspen, balm, and ash stand with some pockets of dense lowland brush. All species are mature and should be harvested, before they die due to age and the emerald ash borer. The emerald ash borer is present. There is some pine, but not in the species list.																																																										
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33	3102 - Grass	Nonstocked	2.8		Unspecified	No	Poor quality grass opening with some white pine poles and balm seedlings.																																																										
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34	6229 - Mixed lowland shrub	Nonstocked	49.0		Unspecified	No	Lowland brush stand with some ash and cedar scattered through it.																																																										
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36	6233 - Wet Meadow	Nonstocked	59.1		Unspecified	No	Lowland marsh grass, that is the floodplain of the Walton River. The Walton River flows through the center of the stand.																																																										
37	500 - Water	Nonstocked	6.0		Unspecified	No	Walton River																																																										



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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38	4130 - Aspen	Sapling Well	6.0	8	Immature	N/A	Fully stocked aspen stand. This sale was clearcut in 2014 on contract 024-12-01. All species were cut; except white pine, beech, and elm.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Red Maple		10	Sapling	1	8	Tag Alder		Low	5 - 10 feet	Tall Shrub
Quaking Aspen		80	Sapling	1	8					
Black Ash		5	Sapling	1	8					
Green Ash		5	Sapling	1	8					

39	4130 - Aspen	Poletimber Well	31.2	33	51-80	N/A	Fully stocked aspen stand with pockets of lowland brush and spruce/fir. This stand was clearcut in 1988 on contract 046-88-01.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
White Spruce		5	Pole/Sap/Log	5	33	Tag Alder		Low	5 - 10 feet	Tall Shrub
Quaking Aspen		45	Pole/Sapling	6	33	Ironwood		Low	10 - 20 feet	Sapling
Bigtooth Aspen		30	Pole/Sapling	6	33					
Red Maple		5	Pole/Sapling	5	33					
Paper Birch		5	Pole/Sapling	5	33					
Balsam Fir		10	Pole/Sap/Log	5	33					

40	4110 - Sugar Maple Association	Poletimber Well	4.3	80	81-110	N/A	Good quality hardwood pole stand.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Red Maple		3	Pole	8	80	Ironwood		Medium	10 - 20 feet	Sapling
Basswood		7	Pole/Log	9	80					
White Ash		15	Log/Pole	10	80					
Sugar Maple		75	Pole/Log/Sap	8	80					