



Compartment Review Presentation

Escanaba Forest Management Unit

Compartment 33046

Entry Year 2024

Acreage: 1,178

County Menominee

Management Area: Green Bay Lake Plain

Stand Examiner: Dustin Salter

Legal Description:

T36N R25W Sections 20 and 21.

Identified Planning Goals:

The high deer population in this area, has caused a significant change in the future forest. The deer have heavily browsed and killed the majority of the hardwood stump sprouts following the harvests from the last entry. The white pine regeneration is also being heavily browsed. 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 about 10 years. The emerald ash borer is present and is causing mortality. The stands with higher densities of ash need to be harvested soon, prior to it dying out. The eastern larch beetle is also present and has caused a significant amount of tamarack mortality.

Soil and topography:

Topography is mostly gently rolling to level, but there are some steeper hills as well. The upland soils are primarily well drained sands and loams and lowlands are mucks/peats. The major soil series include the complexes of Onaway, Nadeau, Rousseau, Sundell, and Loxley-Dawson.

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 two private in-holdings within this compartment but the entire western edge of the compartment is owned by private landowners. 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.

Archeological, Historical, and Cultural Features:

None Known.

Special Management Designations or Considerations:

None.

Watershed and Fisheries Considerations:

This compartment contains the Cedar River, Devils Creek, and unnamed tributaries. A 100' buffer is recommended for all waterbodies within this compartment; 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 nearest active aggregate pit is more than four miles to the southwest. The compartment appears to be primarily wetlands, and sand & gravel development potential appears limited, but there may be some good potential on the uplands in the northwest of Sec 20. There has been some sparse mineral exploration in the area of the compartment in the past. Any potential metallic mineral bearing formations would be greater than 100 feet beneath the surface. There is no current mineral leasing in the compartment.

Vehicle Access:

Access into the western portion of the compartment is via the Westman Dam Road and the Schuster Road. The Westman Dam Road is a county road and the Schuster Road is maintained by the state. The eastern portion of the compartment is accessed off of County Road 551.

Survey Needs:

None needed.

Recreational Facilities and Opportunities:

The Cedar River Campground is within stand 59. The area east of the Big Cedar River, has a number of segments of the Cedar River Pathway. The Schuster Road is part of the Forest Island ORV Trail. The Trail also runs north through stands 44 and 45.

Fire Protection:

The probability of a large fire is very low in this compartment. This compartment is broken up with upland and lowland stands. There is also very good access throughout the compartment. Water can be accessed from the Big Cedar River and Devil's Creek.

Additional Compartment Information:

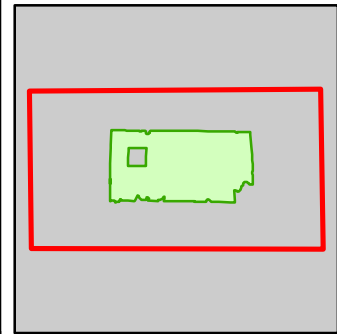
The following reports from the Inventory are attached:

- 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**

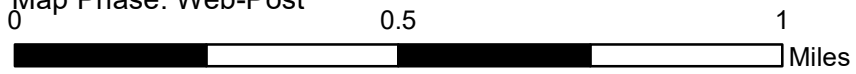
The following information is displayed, where pertinent, on the attached compartment maps:

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

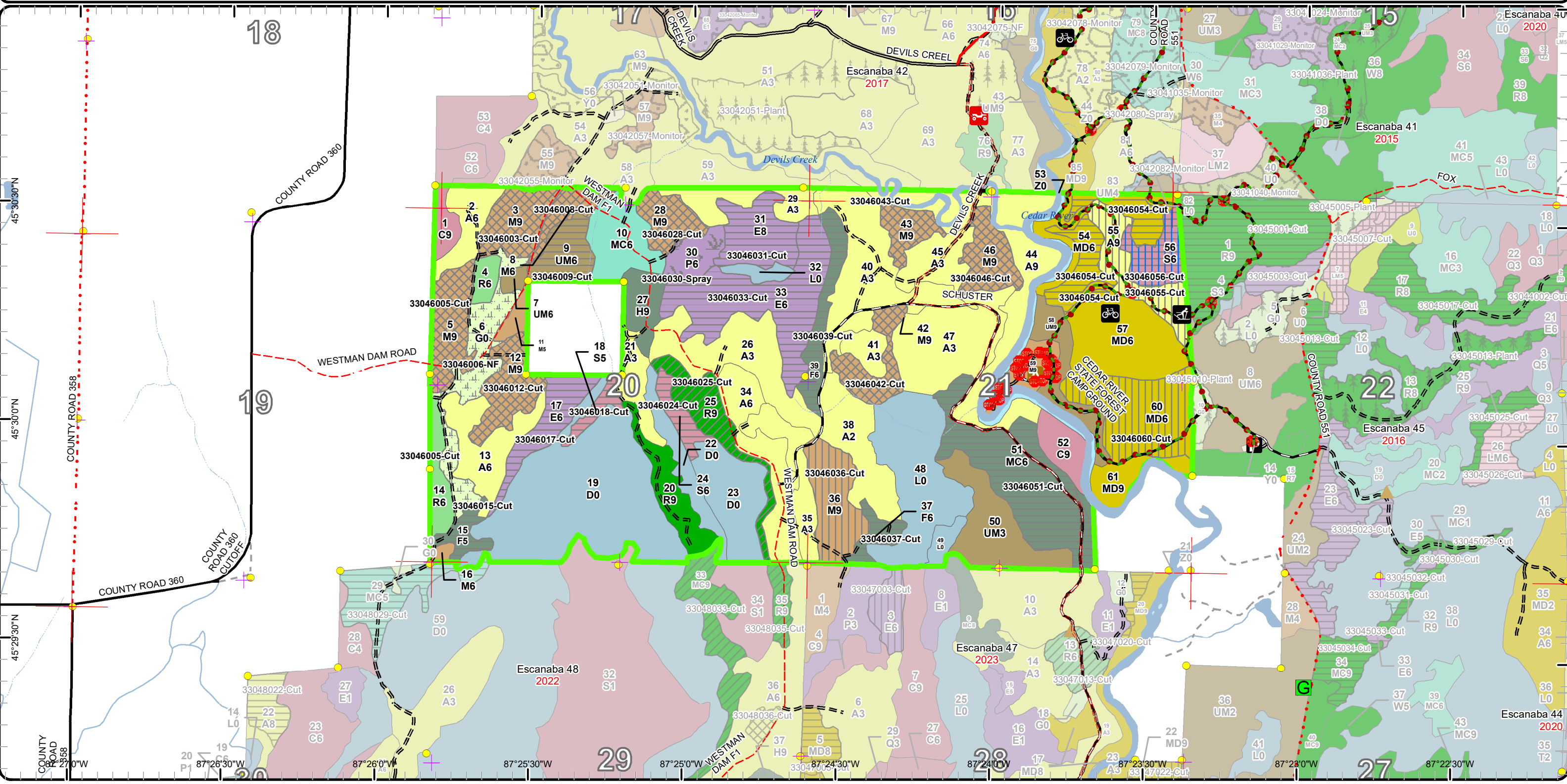
Cover Type & Treatments Map



Compartment: 46
 T36N-R25W Sec. 20 and 21
 County: Menominee
 Unit: Escanaba
 Mgmt Area: Green Bay Lake Plain
 YOE: 2024
 Acres: 1178 GIS Calculated
 Examiner: Dustin Salter
 Map Revised: 6/27/2022
 Map Phase: Web-Post

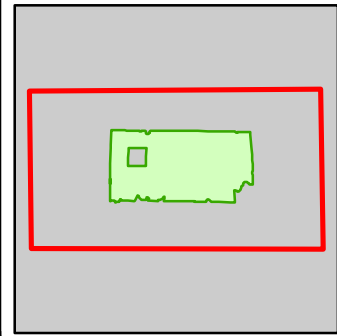
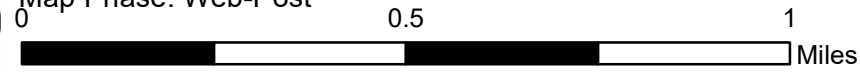


- Miris Corners
- Remonumented Section Corners
- Survey Grade Corners
- Counties
- DNR - Primary Forest Road
- DNR - Secondary Forest Road
- == DNR - Forest Access Route
- Federal / State / County - Paved Road
- - - County - Gravel Road
- - - County - Dirt Road (Seasonal)
- - - Private - Dirt / Gravel Road
- 🚲 Bike Trails
- 🏂 Ski Trails
- 🚗 ORV Routes
- Designated Hiking Trails
- - - Designated Bicycle Trails
- Designated Equestrian Trails
- Designated Ski Trails
- Designated Multi-Use Trails
- Designated ATV Trails
- - - Designated ORV Route
- ▲ Berms
- G Gate
- 🌳 Bridges
- 🏕️ Campground
- P Parking Lot
- 🛑 Sign
- 🌟 Trailhead
- Intermittent Stream
- Island in Lake or River
- Lake/Pond
- Perennial River
- Lakes and Rivers
- 🟩 Compartment Boundary
- ☒ Pesticide
- ☒ Other Treatment - See Comments
- ☒ Selection (Group, Single Tree)
- ☒ Clearcut (w/Reserves)
- ☒ Seed Tree (w/Reserves)
- ☒ Thinning (Crown, Low, Systematic)
- ☒ Shelter Wood (w/Reserves)
- 411 - Northern Hardwood
- 413 - Aspen
- 419 - Mixed Upland Deciduous
- 421 - Planted Pines
- 422 - Natural Pines
- 423 - Other Upland Conifers
- 429 - Mixed Upland Conifers
- 430 - Upland Mixed Forest
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 310 - Herbaceous Openland
- 500 - Water
- 622 - Lowland Shrub

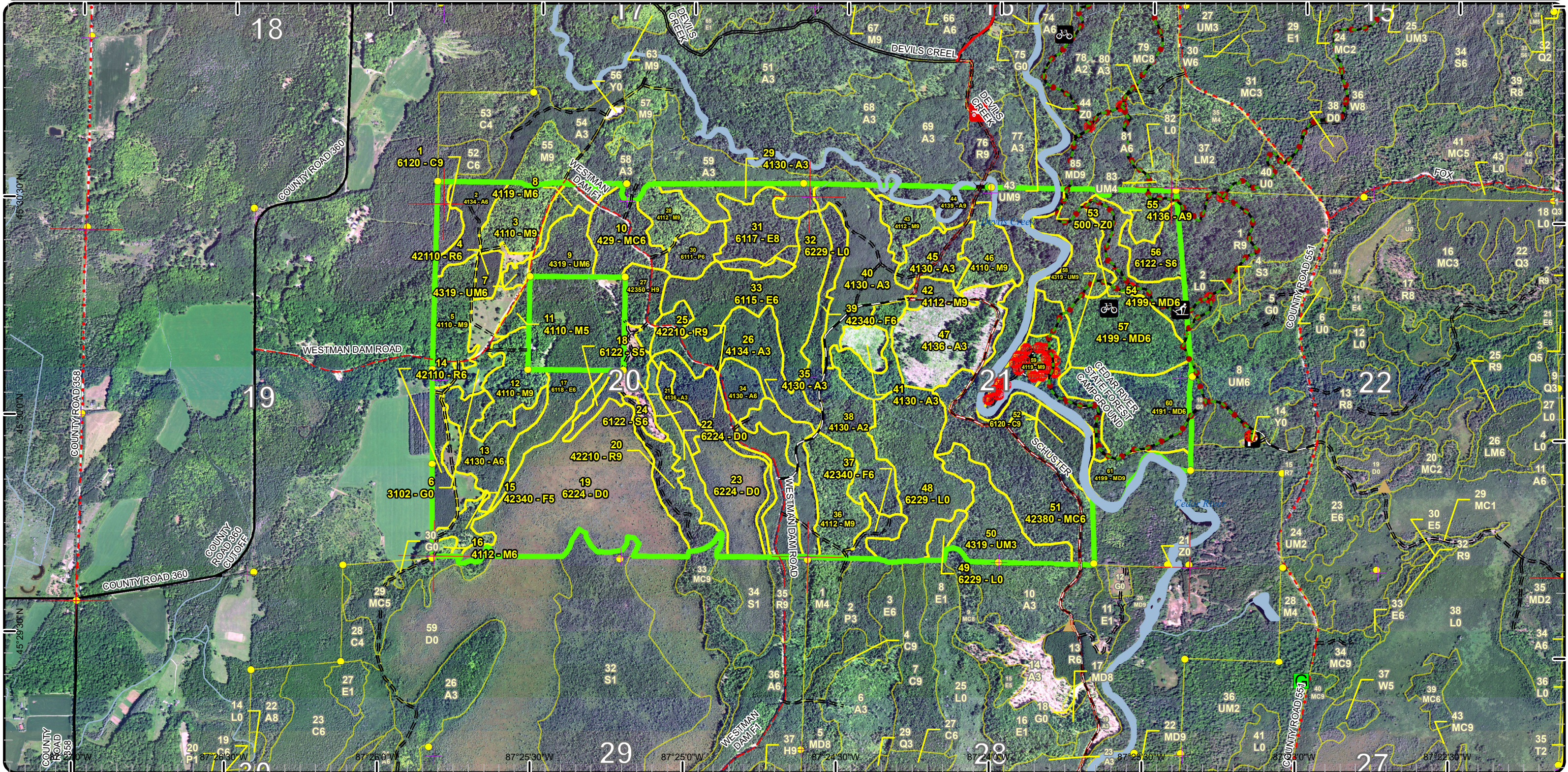


Stand Boundary Map

Compartment: 46
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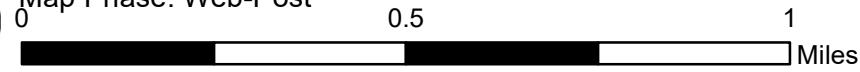


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- 421 - Planted Pines
- 422 - Natural Pines
- 423 - Other Upland Conifers

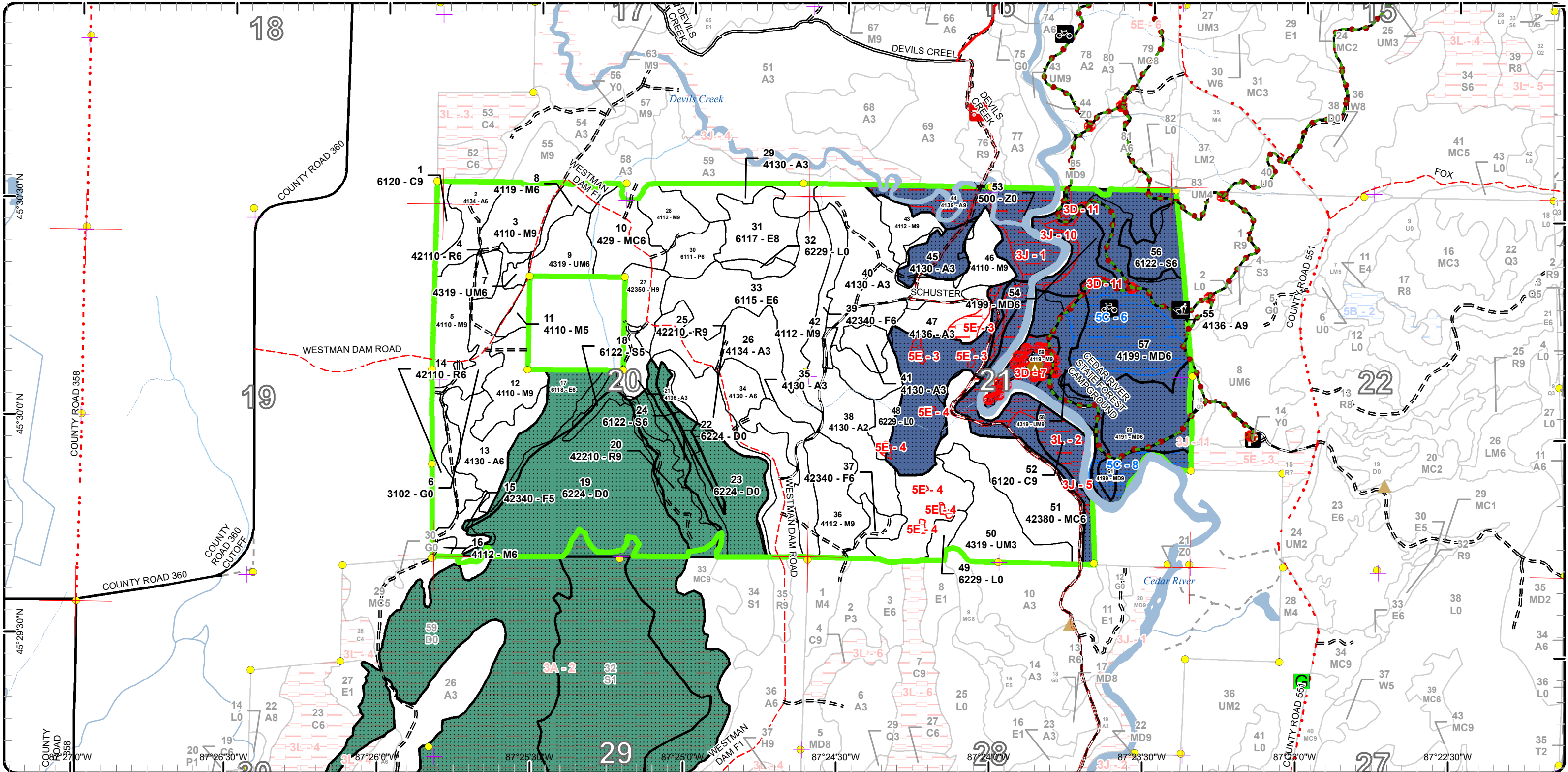


Special Conservation Areas

Compartment: 46
 T36N-R25W Sec. 20 and 21
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 Unit: Escanaba
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- 🛑 Sign
- 🌟 Trailhead
- Intermittent Stream
- Island in Lake or River
- Lake/Pond
- Perennial River
- Lakes and Rivers
- 🟩 Compartment Boundary
- 🟦 Available w/ Constraints
- 5C: Delay treatment for age/size class diversity or exceptional site quality
- 🚫 Unavailable
- 3D: Recreational / Scenic values
- 3J: Water quality / BMPs (stream, river, or lake)
- 3L: Other wildlife concerns
- 5E: Long-Term Retention
- 🟨 Stand Boundaries
- 🟩 SCA
- Cold Water Streams
- Cold Water Lakes
- Spring or Seep
- Habitat Corridor



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	94	73	35	62	0	0	0	45	19	0	0	0	0	0	0	0	0	328
Cedar	0	0	0	0	0	0	0	0	0	0	0	6	0	10	0	0	0	0	16
Hemlock	0	0	0	0	0	0	0	0	0	0	0	0	12	0	0	0	0	0	12
Herbaceous Openland	24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24
Lowland Aspen/Balsam Poplar	0	0	0	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10
Lowland Deciduous	0	0	0	0	0	0	0	0	0	0	67	16	0	0	0	0	0	0	83
Lowland Shrub	55	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	55
Lowland Spruce/Fir	0	0	0	0	0	0	0	0	0	11	13	0	0	0	0	0	0	0	24
Mixed Upland Deciduous	0	0	0	0	0	0	0	0	0	105	11	0	0	0	0	0	0	0	116
Northern Hardwood	0	0	0	0	0	0	4	0	8	141	0	0	0	0	0	0	0	0	153
Red Pine	0	0	0	0	0	15	0	16	0	18	0	0	0	0	0	0	0	0	49
Treed Bog	131	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	131
Upland Conifers	0	0	0	20	0	0	0	0	0	0	0	0	0	0	0	0	0	52	72
Upland Mixed Forest	0	0	0	28	3	0	0	14	0	0	0	0	0	0	16	0	0	0	60
Upland Spruce/Fir	0	0	0	0	0	0	0	28	0	0	0	0	0	0	0	0	0	0	28
Water	18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	18
Total	228	94	73	93	65	15	4	58	53	294	91	22	12	10	16	0	0	52	1179



Report 2 – Treatment Summary

Escanaba Mgt. Unit

Year of Entry: 2024

Acres of Harvest

Compartment 46

Total Compartment Acres: 1,178

Commercial Harvest - 433
 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	0	0	0	0	19	0	0	0	0	19
Lowland Deciduous	83	0	0	0	0	0	0	0	0	83
Lowland Spruce/Fir	11	0	0	13	0	0	0	0	0	25
Mixed Upland Deciduous	23	0	0	0	37	0	0	0	0	60
Northern Hardwood	0	114	0	0	22	0	0	0	0	136
Red Pine	0	0	0	0	0	18	0	0	0	18
Upland Conifers	51	0	0	0	0	0	0	0	0	51
Upland Mixed Forest	14	0	0	0	0	0	0	0	0	14
Upland Spruce/Fir	28	0	0	0	0	0	0	0	0	28
Total	209	114	0	13	79	18	0	0	0	433

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	433	0	0	0	0	10	0	0	24	467
Next Step	0	0	0	0	0	0	425	0	0	425
Total	433	0	0	0	0	10	425	0	24	891



S t a n d	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
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Proposed Treatments:

3	33046003-Cut	17.7	4110 - Sugar Maple Association	Sawtimber Well	85	111-140	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven-Aged	No
<p><u>Prescription</u> Thin stand down to 70 to 80 basal area. Retain some wolfy and scale free beech throughout the stand.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Maple, basswood, ash, and beech.</p> <p><u>Regen:</u></p> <p><u>Other</u> High quality sugar maple stand, that is ready to be thinned again. The stand was last thinned in 2007 on contract 028-05-01. Thinning the stand will remove the poor quality and mature trees, releasing the residual trees to improve their growth.</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2023</p>											
5	33046005-Cut	19.5	4110 - Sugar Maple Association	Sawtimber Well	85	81-110	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven-Aged	No
<p><u>Prescription</u> Thin stand down to 70 to 80 basal area. Focus on removing the majority of the beech and ash, before they are killed by beech bark disease and the emerald ash borer. Retain some wolfy and scale free beech throughout the stand.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Maple, basswood, ash, and beech.</p> <p><u>Regen:</u></p> <p><u>Other</u> Good quality hardwood stand, with a significant amount of beech. This stand is ready to be thinned. Beech scale is present within the stand. There is a dense understory of beech regeneration in the southern half of the stand. Thinning the stand will remove the poor quality and mature trees, releasing the residual trees to improve their growth. This stand was last thinned in 2007 on contract 028-05-01.</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2023</p>											
6	33046006-NF	24.2	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
8 33046008-Cut	8.0	4119 - Mixed Northern Hardwoods	Poetimber Well	75	81-110	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven-Aged	No
<p><u>Prescription</u> Thin stand down to 60 to 70 basal area. Also, cut all balsam fir, spruce, ironwood, aspen, and balm greater than four (4) inches at DBH. <u>Specs:</u> Retain some wolfy and scale free beech throughout the stand. <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u> <u>Acceptable</u> Maple, basswood, ash, and beech. <u>Regen:</u> <u>Other</u> Moderate quality hardwood stand, with a significant amount of balsam fir in the understory. This stand has a high percentage of beech poles. This stand is ready to be thinned. Thinning the stand will remove the poor quality and mature trees, releasing the residual trees to improve their growth. Beech scale is present in the area, so the percentage of beech needs to be lowered while it is still alive. <u>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /2023</p>										
9 33046009-Cut	13.9	4319 - Mixed Upland Forest	Poetimber Well	65	51-80	Harvest	Clearcut with Retention	4319 - Mixed Upland Forest	Even-Aged	No
<p><u>Prescription</u> Cut all trees greater than three (3) inches at DBH; except cedar and beech. <u>Specs:</u> <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u> <u>Acceptable</u> Aspen, balm, spruce/fir, pine, birch, maple, and ash. <u>Regen:</u> <u>Other</u> Mature spruce/fir stand, with older hardwoods scattered throughout. The spruce/fir ages range from 30 to 75 years old. The spruce budworm is causing defoliation of the spruce/fir. This stand needs to be regenerated, prior to the spruce/fir dying out and while the aspen and balm are vigorous enough to sprout. <u>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /2023</p>										
12 33046012-Cut	17.9	4110 - Sugar Maple Association	Sawtimber Well	85	51-80	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven-Aged	No
<p><u>Prescription</u> Thin stand down to 70 basal area, removing the majority of the beech and ash due to forest health concerns. Also, cut all ironwood, aspen, balm, and spruce fir greater than four (4) inches at DBH. Retain some wolfy and scale free beech throughout the stand. <u>Specs:</u> <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u> <u>Acceptable</u> Maple, birch, basswood, beech, and ash. <u>Regen:</u> <u>Other</u> Moderate to poor quality hardwood stand, that is ready to be thinned. Thinning the stand will remove the low quality and mature stems, improving the vigor of the remaining stems. Beech scale is present within the stand and the emerald ash borer is nearby. This stand was last thinned in 1996 on contract 020-94-01. <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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15	33046015-Cut	7.0	42340 - Upland Spruce/Fir	Poletimber Medium	65	51-80	Harvest	Clearcut with Retention	4319 - Mixed Upland Forest	Even-Aged	No
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Prescription Cut all trees greater than three (3) inches at DBH; except white pine and beech.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Spruce/fir, maple, aspen, balm, birch, pine, beech, and ash.

Regen:

Other Variable aged spruce/fir stand, with some older hardwoods mixed in. The spruce/fir ranges in age from 30 to 80 years old. The balsam fir and spruce is being defoliated by the spruce budworm. This stand needs to be harvested prior to mortality occurring.

Site Condition

Proposed Start Date: 10/1 /2023

17	33046017-Cut	15.5	6118 - Lowland Deciduous with Cedar	Poletimber Well	103	81-110	Harvest	Clearcut with Retention	613 - Lowland Mixed Forest	Two-Aged	No
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Prescription Cut all trees greater than three (3) inches at DBH; except cedar. Cut only those cedar needed to operate in the stand.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Tamarack, spruce/fir, balm, ash, pine, and cedar.

Regen:

Other Moderate to low quality black ash stand, with a higher percentage of cedar in the northern third of the stand. The ash needs to be harvested prior to the arrival of the emerald ash borer, which is in the area. Cutting this stand will allow the lowland hardwoods to stump sprout and the open areas will seed in with tamarack and spruce.

Comment: WLD Comments: This stand is in conditional range and has a canopy composition of 25% cedar. WLD and FRD agreed to only cut the cedar needed for operability. It's understood that some cedar will be harvested.

Site Condition

Proposed Start Date: 10/1 /2023

18	33046018-Cut	4.4	6122 - Black Spruce	Poletimber Medium	87	51-80	Harvest	Clearcut	612 - Lowland Coniferous Forest	Even-Aged	No
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Prescription Cut all trees greater than three (3) inches at DBH. There will be no retention due to small stand size.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Spruce/fir, tamarack, and pine.

Regen:

Other Moderate to low quality mature black spruce stand. This stand is ready to be harvested. Clearcutting the stand will allow full sunlight to reach the sphagnum moss, allowing germination of the lowland conifers.

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	33046024-Cut	6.9	6122 - Black Spruce	Poletimber Well	85	81-110	Harvest	Clearcut	612 - Lowland Coniferous Forest	Even-Aged	No
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Prescription Cut all trees greater than three (3) inches at DBH. There will be no retention due to small stand size.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Spruce, tamarack, and pine.

Regen:

Other Comment: Mature lowland conifer stand, that is ready to be harvested. Clearcutting the stand will allow full sunlight to reach the sphagnum moss, allowing germination of the lowland conifers.

Site Condition

Proposed Start Date: 10/1 /2023

25	33046025-Cut	18.0	42210 - Natural Red Pine	Sawtimber Well	88	111-140	Harvest	Crown Thinning	42210 - Natural Red Pine	Uneven-Aged	No
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Prescription Thin stand down to 70 to 80 basal area. Also, cut all merchantable aspen and spruce/fir.

Specs:

Next Step

Treatments:

Acceptable Red and white pine.

Regen:

Other Comment: High quality natural red pine stand, with a fully stocked understory of balsam fir, white pine and spruce from the the last thinning. The last thinning was in 1999 on contract 027-99-01. This stand is ready to be thinned again. This will improve the growth of the residual stems.

Site Condition

Proposed Start Date: 10/1 /2023

28	33046028-Cut	12.2	4112 - Maple, Beech, Cherry Association	Sawtimber Well	85	111-140	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven-Aged	No
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Prescription Thin stand down to 70 to 80 basal area, removing the majority of the beech and ash due to forest health concerns. Also, cut all ironwood, aspen, balm, and spruce/fir greater than four (4) inches at DBH. Retain some wolfy and scale free beech throughout the stand.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Maple, basswood, beech, ash, and birch.

Regen:

Other Comment: Good quality red maple stand, that is ready to be thinned. The southern half of the stand has a dense understory of balsam fir regeneration. Thinning the stand will remove the low quality and mature stems, improving the vigor of the remaining stems. This stand was last thinned in 2006 on contract 027-04-01.

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
30 33046030-Spray	10.0	6111 - Lowland Balsam Poplar	Poletimber Well	26	51-80	Pesticide	Hand Application	6112 - Lowland Aspen	Even-Aged	No
<p><u>Prescription</u> Spray herbicide to kill the phragmites throughout the stand. <u>Specs:</u> <u>Next Step</u> Monitoring, Invasive Species <u>Treatments:</u> <u>Acceptable Regen:</u> <u>Other Comment:</u> Moderate to poor quality balm and aspen stand. There are a number of open areas in the stand. This stand was clearcut in 1996 on contract 020-94-01. Phragmites has spread throughout most of the stand. Treat the phragmites as funding is available. <u>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /2023</p>										
31 33046031-Cut	20.1	6117 - Lowland Deciduous, Mixed Coniferous	Sawtimber Medium	98	51-80	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; except the cedar. <u>Specs:</u> <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u> <u>Acceptable Regen:</u> Balm, aspen, birch, maple, ash, spruce/fir and pine. <u>Other Comment:</u> Over-mature balm and birch stand. This stand has lost about half of the stand to die off due to old age. Harvest this stand now, to try and get the remaining balm, aspen, and hardwoods to sprout following the harvest. A mix of conifers will also seed in. This stand was on contract 001-15-01, but it was turned back un-completed. <u>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /2023</p>										
33 33046033-Cut	47.0	6115 - Lowland Ash	Poletimber Well	98	81-110	Harvest	Clearcut with Retention	6117 - Lowland Deciduous, Mixed Coniferous	Even-Aged	No
<p><u>Prescription</u> Cut all trees greater than three (3) inches at DBH; except retain the cedar. Mark some yellow birch to retain throughout the stand. <u>Specs:</u> <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u> <u>Acceptable Regen:</u> Spruce/fir, ash, balm, tamarack, maple, birch, and cedar. <u>Other Comment:</u> Moderate quality black ash stand, that is ready for harvest. The emerald ash borer is present within the compartment, so this stand needs to be harvested prior to mortality occurring. Following the harvest the lowland hardwoods will sprout, with full sunlight and the conifer seed will begin to germinate. This stand was on contract 001-15-01, but was turned back un-completed. WLD Comments: This stand is in conditional range and has a canopy composition of 10% cedar. WLD and FRD agreed to leave all cedar for a seed source. <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
36 33046036-Cut	22.4	4112 - Maple, Beech, Cherry Association	Sawtimber Well	85	111-140	Harvest	Shelterwood with Retention	4319 - Mixed Upland Forest	Two-Aged	No
<p><u>Prescription Specs:</u> Cut all trees greater than three (3) inches at DBH. All hemlock will be retained. Mark to leave 20 basal area of mixed species. Retain some wolffy 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> Male, birch, pine, spruce/fir, beech, and ash.</p> <p><u>Other Comment:</u> Moderate quality red maple stand, with a dense understory of white pine and spruce/fir regeneration. This stand was last thinned in 1999 on contract 027-99-01. This stand is ready to be harvested again. The hardwood does not have enough high quality stems to thin the stand again. A shelterwood cut will be done, to release the current conifer regeneration and also allow some of the hardwood cut to stump sprout. A partial overstory will provide partial shade for the conifer regeneration.</p> <p><u>Site Condition</u> Proposed Start Date: 10/1 /2023</p>										
37 33046037-Cut	6.6	42340 - Upland Spruce/Fir	Poetimber Well	65	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; except hemlock. Also, mark to retain some pine seed trees.</p> <p><u>Next Step Treatments:</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Acceptable Regen:</u> Spruce/fir, pine, maple, birch, aspen, and balm.</p> <p><u>Other Comment:</u> Low quality balsam fir/spruce stand with some red maple. The spruce budworm is causing extensive defoliation. This stand needs to be harvested prior to the balsam fir and spruce start dying out of the stand.</p> <p>WLD Comments: This stand is in conditional range and has a canopy composition of 2% cedar. Much of the cedar is scattered, and lacking in shelter qualities. WLD and FRD agreed to harvest all cedar in this stand to optimize regeneration of other species that are more likely to regenerate.</p> <p><u>Site Condition</u> Proposed Start Date: 10/1 /2023</p>										
39 33046039-Cut	14.1	42340 - Upland Spruce/Fir	Poetimber Well	65	51-80	Harvest	Clearcut	4136 - Aspen, Mixed Conifer	Even-Aged	No
<p><u>Prescription Specs:</u> Cut all trees greater than three (3) inches; except retain pine greater than fifteen (15) inches or larger at DBH. No additional retention will be retained, due to small stand size and forest health concerns.</p> <p><u>Next Step Treatments:</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Acceptable Regen:</u> Aspen, balm, maple, pine, spruce/fir, and tamarack.</p> <p><u>Other Comment:</u> Mature upland conifer stand, with some lowland pockets of conifer. The spruce budworm is causing spruce/fir defoliation. With the age of the conifers and the forest health concerns, this stand should be clearcut. By harvesting the stand the full sunlight will allow the aspen to sprout and expand and begin the germination of the conifer seed on the forest floor.</p> <p>WLD Comments: This stand is in conditional range and has a canopy composition of 2% cedar. Much of the cedar is scattered, and lacking in shelter qualities. WLD and FRD agreed to harvest all the cedar within this stand to optimize regeneration of other species that are more likely to regenerate.</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
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42	33046042-Cut	13.6	4112 - Maple, Beech, Cherry Association	Sawtimber Well	85	111-140	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven-Aged	No
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Prescription Thin stand down to 70 to 80 basal area. Also, cut all merchantable spruce and balsam fir. Reduce the percentage of beech in the stand.
Specs: Retain some wolfy and scale free beech throughout the stand.

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

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

Other Good quality red maple stand, that is in need of a thinning. Thinning the stand will remove the low quality and mature stems, improving the vigor of the remaining stems. Beech scale is present within the stand and the emerald ash borer is nearby. This stand was last thinned in 1999 on contract 027-99-01.
Comment:

Site Condition

Proposed Start Date: 10/1 /2023

43	33046043-Cut	9.7	4112 - Maple, Beech, Cherry Association	Sawtimber Well	85	111-140	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven-Aged	No
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Prescription Thin stand down to 70 basal area, removing the majority of the beech and ash due to forest health concerns. Retain some wolfy and scale free beech throughout the stand.
Specs:

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

Acceptable Maple, basswood, black cherry, beech, and ash.
Regen:

Other Moderate to high quality hardwood stand, that is ready to be thinned. Thinning the stand will remove the low quality and mature stems, improving the vigor of the remaining stems. Beech scale is in nearby stands. This stand was last thinned in 2006 on contract 028-04-01.
Comment:

Site Condition

Proposed Start Date: 10/1 /2023

46	33046046-Cut	15.0	4110 - Sugar Maple Association	Sawtimber Well	82	111-140	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven-Aged	No
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Prescription Thin stand down to 70 basal area, removing the majority of the beech and ash due to forest health concerns. Retain some wolfy and scale free beech throughout the stand.
Specs:

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

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

Other Good quality hardwood stand, that is ready to be thinned. Thinning the stand will remove the low quality and mature stems, improving the vigor of the remaining stems. Beech scale is present within the stand and the emerald ash borer is nearby.
Comment:

Site Condition

Proposed Start Date: 10/1 /2023



Standard

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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51	33046051-Cut	50.7	42380 - Non Pine Upland Conifer, Mixed Deciduous	Poletimber Well	55	1-50	Harvest	Clearcut with Retention	4134 - Aspen, Spruce/Fir	Even-Aged	No
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Prescription Specs: Cut all trees greater than four (4) inches at DBH; except retain the cedar, hemlock, and white pine. Also, retain a 100' buffer strip along the Big Cedar River.

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

Acceptable Regen: Aspen, balm, maple, birch, ash, beech, pine, and spruce/fir.

Other Comment: This is an un-even aged stand. There are older mature cedar, hemlock, and some hardwoods. With some spruce/fir, aspen, and hardwoods, about 55 years old and some younger regeneration from when the stand was cut in the recent past. This stand was last cut in 2000 on contract 022-99-01. Trees greater than six inches were cut, except only the spruce greater than 9 inches was cut. Also, all cedar, hemlock, pine, yellow birch, and beech were retained. The spruce/fir is being heavily defoliated by the spruce budworm and should be harvested prior to mortality occurring. After the harvest the aspen will expand and the hardwoods will stump sprout. With the full sunlight, the conifer seed will germinate on the forest floor, as well. This stand will regenerate with a mix of species. This stand is about 70% upland and the other 30% is lowland.

WLD Comments: This stand is in conditional range and has a canopy composition of 7% cedar. WLD and FRD agreed to retain all the cedar for a potential seed source.

Site Condition

Proposed Start Date: 10/1 /2023

54	33046054-Cut	22.9	4199 - Other Mixed Upland Deciduous	Poletimber Well	85	51-80	Harvest	Clearcut with Retention	4319 - Mixed Upland Forest	Even-Aged	No
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Prescription Specs: Cut all trees greater than three (3) inches at DBH; except the hemlock. A 100' buffer along the Big Cedar River will be retained, along with a buffer along the Cedar River Pathway.

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

Acceptable Regen: Aspen, balm, maple, birch, pine, ash, and spruce/fir.

Other Comment: This is a mature red maple, aspen, and spruce/fir stand with lowland pockets of ash and cedar. All of the species are mature and should be harvested, the aspen, birch, and spruce/fir are dying out already. The Cedar River Pathway runs through this stand in two small locations. The trail will be buffered. A buffer will also be retained along the Big Cedar River for BMP concerns and aesthetics. The majority of the aspen is away from the river, so future problems with beaver should not arise. The majority of the cedar in the stand is along the river and would be retained in the buffer strip. Access into the stand for harvesting would have a minimal impact the trails.

WLD Comments: This stand is in conditional range and has a canopy composition of 5% cedar. Much of the cedar is scattered, and lacking in shelter qualities. Some of the cedar will be retained within the riparian buffer. The rest of the cedar will be harvested to optimize regeneration of species that are more likely to regenerate.

Site Condition

Proposed Start Date: 10/1 /2023

55	33046055-Cut	19.0	4136 - Aspen, Mixed Conifer	Sawtimber Well	80	51-80	Harvest	Shelterwood with Retention	4220 - Natural White Pine	Uneven-Aged	No
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Prescription Specs: Cut all trees greater than three (3) inches at DBH; except hemlock and pine.

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

Acceptable Regen: Pine, aspen, maple, birch, and spruce/fir.

Other Comment: Upland ridge of mature aspen and pine. The aspen is mature and is starting to die out of the stand. It should be harvested before it all dies out. The Cedar River Pathway runs through the entire length of the stand. With a shelterwood harvest, this stand will be converted to a natural pine stand. The residual pine will provide shade to limit the amount of aspen sprouting and also provide seed and partial shade to get more white pine established. Some open areas will regenerate with aspen, but it will be significantly reduced. As a pine type, there will be less impact to the trail in future harvests and will improve the aesthetics.

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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56	33046056-Cut	13.2	6122 - Black Spruce Poletimber Well	91	51-80	Harvest	Seed Tree with Retention	612 - Lowland Coniferous Forest	Even-Aged	No
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Prescription Cut all trees greater than three (3) inches at DBH; except mark to retain some pine and spruce seed trees.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Pine, spruce, tamarack, maple, birch, and ash.

Regen:

Other Mature lowland spruce and hardwood stand, with ridges of upland pine. All of the species are mature and are ready to be harvested. Seed trees will be retained, which will provide a seed source. And with full sunlight all of the conifer seed on the forest floor will germinate and grow.

Site Condition

Proposed Start Date: 10/1 /2023

60	33046060-Cut	37.3	4191 - Mixed Upland Deciduous with Conifer	Poletimber Well	87	51-80	Harvest	Shelterwood with Retention	42201 - Natural White Pine, Mixed Deciduous	Two-Aged	No
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Prescription Cut al hardwoods and spruce/fir greater than four (4) inches at DBH. Cut all pine greater than six (6) inches at DBH; except mark to retain enough pine to have 20 basal area. The 20 basal area will also include hemlock and cedar, which will all be retained.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Pine, maple, birch, aspen, and spruce/fir.

Regen:

Other Mature upland hardwood and pine stand, with a dense understory of conifer regeneration. The majority of the overstory needs to be removed to release the advanced regeneration. A partial overstory will be retained to provide partial shade and to improve the aesthetics along the access road into the Cedar River Campground.

Comment:

WLD Comments: This stand is in conditional range and has a canopy composition of 5% cedar. Much of the cedar is scattered, and lacking in shelter qualities. WLD and FRD agreed that the cedar and hemlock that will be retained in the 20 BA retention will be ample for a seed source. Some cedar will be harvested.

Site Condition

Proposed Start Date: 10/1 /2023

Total Treatment Acreage Proposed: 466.8

Report 4 – Site Conditions

Escanaba Mgt. Unit
Dustin Salter : Examiner

Compartment: 46
Year of Entry: 2024

Availability for Management

Total Acres	Acres Available	Acres Avail		Dominant Site Conditions	Dominant Site Conditions				
		With Condition	Not Available		5C	3D	3J	3L	5E
327	276	0	51	Aspen			45		6
16	6	0	10	Cedar				10	
12	12	0	0	Hemlock					
24	24	0	0	Herbaceous Openland					
10	10	0	0	Lowland Aspen/Balsam Poplar					
83	83	0	0	Lowland Deciduous					
55	52	0	2	Lowland Shrub					2
24	24	0	0	Lowland Spruce/Fir					
117	62	47	8	Mixed Upland Deciduous	47	3	5		
153	142	0	11	Northern Hardwood		11			
49	49	0	0	Red Pine					
131	131	0	0	Treed Bog					
72	71	0	1	Upland Conifers			1		
60	60	0	0	Upland Mixed Forest		0			
28	28	0	0	Upland Spruce/Fir					
18	18	0	0	Water					
1,178	1,048	47	83	Total Forested Acres	47	14	51	10	8
	89%	4%	7%	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	3J: Water quality / BMPs (stream, river, or lake)	45	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Stand is a buffer along the Big Cedar River and Devil's Creek.							
2	Unavailable	3L: Other wildlife concerns	10	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Cedar.							

Report 4 – Site Conditions

Escanaba Mgt. Unit
Dustin Salter : Examiner

Compartment: 46
Year of Entry: 2024

3	Unavailable	5E: Long-Term Retention	6	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
4	Unavailable	5E: Long-Term Retention	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
5	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	1	5E: Long-Term Retention	Unspecified	Unspecified	Unspecified
Comments:							
6	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	36	Unspecified	Unspecified	Unspecified	Unspecified
Comments: This stand is being held ten years, to break up the age classes near the Cedar River Campground and Pathway.							
7	Unavailable	3D: Recreational / Scenic values	11	Unspecified	Unspecified	Unspecified	Unspecified
Comments: This stand contains the Cedar River Campground.							
8	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	11	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Delay thinning this stand until next entry, due to access road into campground and along the Cedar River Pathway.							

Report 4 – Site Conditions

Escanaba Mgt. Unit
Dustin Salter : Examiner

Compartment: 46
Year of Entry: 2024

10	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	5	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Buffer along the Bic Cedar River.							
11	Unavailable	3D: Recreational / Scenic values	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments: The Cedar River Pathway runs through this.							



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
33046020	Habitat Area	Habitat Corridor	SCA	92
Comments				
SCA--Durow Marsh/Elwood Creek wetland area. Mature forest conditions will be maintained to promote old growth conditions with trees, cavities, snags and dead woody debris for wildlife habitat.				
33046036	Spring Wetlands Riparian Area	Spring Seep	SCA	5
Comments				
SCA--Big Cedar River riparian corridor. Mature forest conditions will be maintained to promote old growth conditions with trees, cavities, snags and dead woody debris for wildlife habitat.				
33046036	Spring Wetlands Riparian Area	Spring Seep	SCA	40
Comments				
33046043	Spring Wetlands Riparian Area	Spring Seep	SCA	11
Comments				
33046045	Spring Wetlands Riparian Area	Spring Seep	SCA	21
Comments				
SCA--Big Cedar River riparian corridor. Mature forest conditions will be maintained to promote old growth conditions with trees, cavities, snags and dead woody debris for wildlife habitat.				



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	6120 - Lowland Cedar	Sawtimber Well	6.0	108	171-200	N/A	Good quality cedar stand, with some high quality tamarack within it. The stand is too dense with cedar to harvest the tamarack.																																								
<table border="1"> <thead> <tr> <th>Canopy Species</th> <th>% Cover</th> <th>Size Class</th> <th>DBH</th> <th>Age</th> </tr> </thead> <tbody> <tr> <td>Balsam Poplar</td> <td>2</td> <td>Log/Pole</td> <td>12</td> <td></td> </tr> <tr> <td>Northern White Cedar</td> <td>70</td> <td>Log/Pole</td> <td>12</td> <td>108</td> </tr> <tr> <td>Black Spruce</td> <td>5</td> <td>Log/Pole</td> <td>10</td> <td>108</td> </tr> <tr> <td>Tamarack</td> <td>23</td> <td>Log/Pole</td> <td>12</td> <td>108</td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age	Balsam Poplar	2	Log/Pole	12		Northern White Cedar	70	Log/Pole	12	108	Black Spruce	5	Log/Pole	10	108	Tamarack	23	Log/Pole	12	108	<table border="1"> <thead> <tr> <th>Sub-Canopy Species</th> <th>Density</th> <th>Avg. Height</th> <th>Size</th> </tr> </thead> <tbody> <tr> <td>Balsam Fir</td> <td>Low</td> <td>< 5 feet</td> <td>Sapling</td> </tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	Balsam Fir	Low	< 5 feet	Sapling											
Canopy Species	% Cover	Size Class	DBH	Age																																											
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Sub-Canopy Species	Density	Avg. Height	Size																																												
Balsam Fir	Low	< 5 feet	Sapling																																												
2	4134 - Aspen, Spruce/Fir	Poletimber Well	13.0	37	81-110	N/A	Fully stocked aspen and balsam fir stand. There are some significant slopes within the stand.																																								
<table border="1"> <thead> <tr> <th>Canopy Species</th> <th>% Cover</th> <th>Size Class</th> <th>DBH</th> <th>Age</th> </tr> </thead> <tbody> <tr> <td>Quaking Aspen</td> <td>45</td> <td>Pole/Sapling</td> <td>5</td> <td>37</td> </tr> <tr> <td>Black Cherry</td> <td>2</td> <td>Sapling/Pole</td> <td>4</td> <td>37</td> </tr> <tr> <td>Bigtooth Aspen</td> <td>30</td> <td>Pole/Sapling</td> <td>5</td> <td>37</td> </tr> <tr> <td>White Ash</td> <td>3</td> <td>Pole/Sapling</td> <td>5</td> <td>37</td> </tr> <tr> <td>Balsam Fir</td> <td>20</td> <td>Sapling/Pole</td> <td>4</td> <td>37</td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age	Quaking Aspen	45	Pole/Sapling	5	37	Black Cherry	2	Sapling/Pole	4	37	Bigtooth Aspen	30	Pole/Sapling	5	37	White Ash	3	Pole/Sapling	5	37	Balsam Fir	20	Sapling/Pole	4	37																
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White Ash	3	Pole/Sapling	5	37																																											
Balsam Fir	20	Sapling/Pole	4	37																																											
3	4110 - Sugar Maple Association	Sawtimber Well	17.7	85	111-140	N/A	High quality sugar maple stand, that is ready to be thinned again. The stand was last thinned in 2007 on contract 028-05-01. Thinning the stand will remove the poor quality and mature trees, releasing the residual trees to improve their growth.																																								
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4	42110 - Planted Red Pine	Poletimber Well	4.8	40	141-170	N/A	Good quality red pine plantation. This stand had its first thinning done in 2016 on contract 33-001-15.																																								
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5	4110 - Sugar Maple Association	Sawtimber Well	19.5	85	81-110	N/A	Good quality hardwood stand, with a significant amount of beech. This stand is ready to be thinned. Beech scale is present within the stand. There is a dense understory of beech regeneration in the southern half of the stand. Thinning the stand will remove the poor quality and mature trees, releasing the residual trees to improve their growth. This stand was last thinned in 2007 on contract 028-05-01.																																								
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6	3102 - Grass	Nonstocked	24.2		Unspecified	Managed Opening	Opening with dense sedge, with some sweet fern and staghorn sumac. There are some scattered birch, white pine, and black cherry.																																								
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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7	4319 - Mixed Upland Forest	Poletimber Well	2.5	35	1-50	N/A	Low quality aspen and upland conifer stand.
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Canopy Species	% Cover	Size Class	DBH	Age
Bigtooth Aspen	20	Pole/Sapling	5	35
Paper Birch	15	Pole/Sapling	5	35
Black Cherry	10	Pole/Sapling	5	35
White Pine	30	Pole/Sap/Log	6	35
Balsam Fir	15	Pole/Sapling	5	35
Balsam Poplar	10	Pole/Sapling	6	35

8	4119 - Mixed Northern Hardwoods	Poletimber Well	8.0	75	81-110	N/A	Moderate quality hardwood stand, with a significant amount of balsam fir in the understory. This stand has a high percentage of beech poles. This stand is ready to be thinned. Thinning the stand will remove the poor quality and mature trees, releasing the residual trees to improve their growth. Beech scale is present in the area, so the percentage of beech needs to be lowered while it is still alive.
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Canopy Species	% Cover	Size Class	DBH	Age
Beech	15	Pole/Sap/Log	7	75
Hemlock	2	Log/Pole	10	75
White Ash	15	Pole/Log/Sap	8	75
Sugar Maple	43	Pole/Log	9	75
Balsam Fir	5	Pole/Sap/Log	8	75
Basswood	15	Log/Pole	12	75
Red Maple	5	Log/Pole/Sap	10	75

Sub-Canopy Species	Density	Avg. Height	Size
Ironwood	Medium	10 - 20 feet	Sapling

9	4319 - Mixed Upland Forest	Poletimber Well	13.9	65	51-80	N/A	Mature spruce/fir stand, with older hardwoods scattered throughout. The spruce/fir ages range from 30 to 75 years old. The spruce budworm is causing defoliation of the spruce/fir. This stand needs to be regenerated, prior to the spruce/fir dying out and while the aspen and balm are vigorous enough to sprout.
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Canopy Species	% Cover	Size Class	DBH	Age
Green Ash	10	Pole/Sapling	7	65
Quaking Aspen	5	Pole	7	65
Balsam Fir	40	Pole/Sap/Log	7	65
White Spruce	10	Pole/Sap/Log	7	65
Red Maple	2	Pole	8	65
Paper Birch	3	Pole	9	65
Black Ash	10	Pole/Sapling	7	65
Balsam Poplar	20	Pole/Sap/Log	7	65

Sub-Canopy Species	Density	Avg. Height	Size
Tag Alder	Low	10 - 20 feet	Tall Shrub

10	429 - Mixed Upland Conifers	Poletimber Well	20.1	28	1-50	N/A	Fully stocked two aged stand, of primarily of mixed conifers. There is some older white pine, red maple and beech that were retained from the last harvest. And a fully stocked understory of spruce/fir and white pine. This stand was cut in 1996 on contract 020-94-01.
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Canopy Species	% Cover	Size Class	DBH	Age
Quaking Aspen	8	Sapling/Pole	4	28
Balsam Fir	30	Sapling/Pole	4	28
Beech	2	Pole/Sap/Log	8	65
Red Maple	20	Pole/Sap/Log	7	65
White Pine	25	Pole/Log/Sap	7	65
White Spruce	15	Sapling/Pole	4	28



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																												
11	4110 - Sugar Maple Association	Poletimber Medium	4.1	50	1-50	N/A	Tw aged stand, with older black cherry and balsam fir over a fully stocked understory of aspen regeneration.																																												
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12	4110 - Sugar Maple Association	Sawtimber Well	17.9	85	51-80	N/A	Moderate to poor quality hardwood stand, that is ready to be thinned. Thinning the stand will remove the low quality and mature stems, improving the vigor of the remaining stems. Beech scale is present within the stand and the emerald ash borer is nearby. This stand was last thinned in 1996 on contract 020-94-01.																																												
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13	4130 - Aspen	Poletimber Well	22.5	36	51-80	N/A	Good quality aspen stand, with some residual older hardwoods mixed in.																																												
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14	42110 - Planted Red Pine	Poletimber Well	9.9	40	141-170	N/A	Good quality planted red pine stand. The stand was thinned in 2016 on contract 001-15-01. Every third row was harvested.																																												
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15	42340 - Upland Spruce/Fir	Poletimber Medium	7.0	65	51-80	N/A	Variable aged spruce/fir stand, with some older hardwoods mixed in. The spruce/fir ranges in age from 30 to 80 years old. The balsam fir and spruce is being defoliated by the spruce budworm. This stand needs to be harvested prior to mortality occurring.																																												
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16	4112 - Maple, Beech, Cherry Association	Poletimber Well	1.7	86	51-80	N/A	Small moderate quality hardwood stand. The stand was last thinned in 2016 on contract 001-15-01.																																																
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Red Maple	38	Pole/Log	8	86																																																			
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White Spruce	Low	5 - 10 feet	Sapling																																																				
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17	6118 - Lowland Deciduous with Cedar	Poletimber Well	15.5	103	81-110	N/A	Moderate to low quality black ash stand, with a higher percentage of cedar in the northern third of the stand. The ash needs to be harvested prior to the arrival of the emerald ash borer, which is in the area. Cutting this stand will allow the lowland hardwoods to stump sprout and the open areas will seed in with tamarack and spruce.																																																
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18	6122 - Black Spruce	Poletimber Medium	4.4	87	51-80	N/A	Moderate to low quality mature black spruce stand. This stand is ready to be harvested. Clearcutting the stand will allow full sunlight to reach the sphagnum moss, allowing germination of the lowland conifers.																																																
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20	42210 - Natural Red Pine	Sawtimber Well	16.2	66	81-110	N/A	Good quality natural red pine stand, with a significant amount of aspen regeneration. The stand was thinned in 2018 on contract 001-15-01.																																																
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																											
21	4136 - Aspen, Mixed Conifer	Sapling Well	10.3	7	1-50	N/A	Two-aged stand, with a fully regenerated aspen stand and residual mature hemlock and pine in the overstory.																																											
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22	6224 - Treed Bog	Nonstocked	12.7		Unspecified	No	Lowland brush stand, dense with holly. There is a narrow strip of merchantable trees along the western edge, against stand 20.																																											
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23	6224 - Treed Bog	Nonstocked	25.4		Unspecified	No	Treed bog.																																											
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24	6122 - Black Spruce	Poletimber Well	6.9	85	81-110	N/A	Mature lowland conifer stand, that is ready to be harvested. Clearcutting the stand will allow full sunlight to reach the sphagnum moss, allowing germination of the lowland conifers.																																											
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25	42210 - Natural Red Pine	Sawtimber Well	18.0	88	111-140	N/A	High quality natural red pine stand, with a fully stocked understory of balsam fir, white pine and spruce from the the last thinning. The last thinning was in 1999 on contract 027-99-01. This stand is ready to be thinned again. This will improve the growth of the residual stems.																																											
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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26	4134 - Aspen, Spruce/Fir	Sapling Well	34.6	24	1-50	N/A	Fully stocked aspen and spruce/fir stand. The spruce/fir is older and is now merchantable. The spruce budworm is present and causing defoliation of the spruce and fir. There isn't enough volume to harvest the spruce/fir at this time.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Beech	2	Sapling/Pole	4	24	Blackberry/Raspberry	Low	5 - 10 feet	Tall Shrub
White Pine	10	Sapling/Pole/Log	4	45				
Bigtooth Aspen	20	Sapling/Pole	4	24				
White Spruce	10	Pole/Sap/Log	5	45				
Black Ash	3	Pole/Sap/Log	8	89				
Quaking Aspen	30	Sapling/Pole	4	24				
Red Pine	2	Pole/Sap/Log	6	24				
Red Maple	5	Sapling/Pole	4	24				
Paper Birch	3	Sapling/Pole	4	24				
Balsam Fir	15	Pole/Sap/Log	5	45				

27	42350 - Upland Hemlock	Sawtimber Well	11.6	115	111-140	N/A	Hemlock stand, with a mix of regeneration in the gaps of the canopy. This stand was cut in 1996 on contract 020-94-01. The shorter lived species were harvested.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Hemlock	75	Log/XLog/Pole	14	115	White Pine	Low	>20 feet	Sapling
White Pine	5	Log/XLog/Pole	16	115	Quaking Aspen	Low	>20 feet	Sapling
Northern White Cedar	20	Log/Pole	13	115	Red Maple	Medium	>20 feet	Sapling
					Paper Birch	Low	>20 feet	Sapling
					Beech	Low	10 - 20 feet	Sapling
					Balsam Fir	Medium	>20 feet	Sapling

28	4112 - Maple, Beech, Cherry Association	Sawtimber Well	12.2	85	111-140	N/A	Good quality red maple stand, that is ready to be thinned. The southern half of the stand has a dense understory of balsam fir regeneration. Thinning the stand will remove the low quality and mature stems, improving the vigor of the remaining stems. This stand was last thinned in 2006 on contract 027-04-01.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Ash	2	Log/Pole	10	85	Ironwood	Low	10 - 20 feet	Sapling
Beech	3	Pole/Log/Sap	8	85				
Balsam Fir	5	Pole/Sap/Log	8	85				
Quaking Aspen	2	Log/Pole	12	85				
Sugar Maple	30	Log/Pole	10	85				
Red Maple	50	Log/Pole/Sap	14	85				
Basswood	8	Log/Pole	14	85				

29	4130 - Aspen	Sapling Well	14.8	15	Unspecified	N/A	Fully stocked good quality aspen stand , with some older spruce/fir and hardwoods. This stand was clearcut in 2006 and 07 on contract 027-04-01 and 028-04-01.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	15	Sapling/Pole	4	40	Blackberry/Raspberry	Low	< 5 feet	Tall Shrub
Balsam Poplar	5	Sapling	3	15				
Quaking Aspen	55	Sapling	3	15				
Bigtooth Aspen	25	Sapling	3	15				



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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30	6111 - Lowland Balsam Poplar	Poletimber Well	10.0	26	51-80	N/A	Moderate to poor quality balm and aspen stand. There are a number of open areas in the stand. This stand was clearcut in 1996 on contract 020-94-01. Phragmites has spread throughout most of the stand. Treat the phragmites as funding is available.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Paper Birch		5	Pole/Sapling	5	26	Tag Alder		Medium	5 - 10 feet	Tall Shrub
Green Ash		5	Pole/Sapling	5	26	Blackberry/Raspberry		Medium	< 5 feet	Tall Shrub
Balsam Fir		15	Sapling/Pole	4	26	Black Spruce		Low	5 - 10 feet	Sapling
Balsam Poplar		45	Pole/Sapling	6	26					
Northern White Cedar		15	Log/Pole	10	115					
Quaking Aspen		15	Pole/Sapling	6	26					

31	6117 - Lowland Deciduous, Mixed Coniferous	Sawtimber Medium	20.1	98	51-80	N/A	Over-mature balm and birch stand. This stand has lost about half of the stand to die off due to old age. Harvest this stand now, to try and get the remaining balm, aspen, and hardwoods to sprout following the harvest. A mix of conifers will also seed in. This stand was on contract 001-15-01, but it was turned back un-completed.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Northern White Cedar		5	Pole	10		Tag Alder		Medium	10 - 20 feet	Tall Shrub
Balsam Poplar		20	Pole/Log/Sap	9	98					
Green Ash		5	Log/Pole	10	98					
Black Ash		10	Pole/Sap/Log	7	98					
Quaking Aspen		5	Log/Pole	10						
Paper Birch		30	Log/Pole	10	98					
Balsam Fir		5	Pole/Sap/Log	8						

32	6229 - Mixed lowland shrub	Nonstocked	4.1		Unspecified	No	Dense tagalder and holly stand.
Sub-Canopy Species		Density	Avg. Height	Size			
Black Ash		Low	>20 feet	Pole			
Michigan Holly		Low	5 - 10 feet	Tall Shrub			
Tag Alder		High		Tall Shrub			

33	6115 - Lowland Ash	Poletimber Well	47.0	98	81-110	N/A	Moderate quality black ash stand, that is ready for harvest. The emerald ash borer is present within the compartment, so this stand needs to be harvested prior to mortality occurring. Following the harvest the lowland hardwoods will sprout, with full sunlight and the conifer seed will begin to germinate. This stand was on contract 001-15-01, but was turned back un-completed.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Paper Birch		5	Pole/Log	9	98	Tag Alder		Low	10 - 20 feet	Tall Shrub
Black Ash		60	Pole/Log/Sap	9	98	Balsam Fir		Low	5 - 10 feet	Sapling
Red Maple		5	Log/Pole	10	98					
Northern White Cedar		10	Log/Pole	10	98					
Yellow Birch		2	Pole/Log/Sap	7	98					
Green Ash		18	Log/Pole	11	98					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
34	4130 - Aspen	Poletimber Well	26.4	37	51-80	N/A	Fully stocked good quality aspen stand, with some older residual pine.
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
White Pine		10	Log/Pole/Sap	10	75	Beech	
Bigtooth Aspen		65	Pole/Sap/Log	7	37	White Spruce	
Red Pine		3	Log/Pole/Sap	14	75	Balsam Fir	
Red Maple		2	Sapling/Pole	4	37		
Quaking Aspen		20	Pole/Sapling	6	37		
35	4130 - Aspen	Sapling Well	16.3	16	1-50	N/A	Fully stocked good quality aspen stand. Stand was clearcut in 2006 on contract 027-04-01. Some pine was retained.
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Red Pine		2	Log/Pole/Sap	13	65	Ironwood	
Quaking Aspen		20	Sapling/Pole	3	16		
Black Cherry		5	Sapling/Pole	3	16		
Red Maple		5	Sapling/Pole	3	16		
Bigtooth Aspen		65	Sapling/Pole	3	16		
White Pine		3	Pole/Log/Sap	9	65		
36	4112 - Maple, Beech, Cherry Association	Sawtimber Well	22.4	85	111-140	N/A	Moderate quality red maple stand, with a dense understory of white pine and spruce/fir regeneration. This stand was last thinned in 1999 on contract 027-99-01. This stand is ready to be harvested again. The hardwood does not have enough high quality stems to thin the stand again. A shelterwood cut will be done, to release the current conifer regeneration and also allow some of the hardwood cut to stump sprout. A partial overstory will provide partial shade for the conifer regeneration.
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Balsam Fir		3	Pole/Sapling	8		Ironwood	
Yellow Birch		2	Pole/Sap/Log	7	85	White Pine	
Green Ash		5	Log/Pole	11	85	Black Cherry	
Black Ash		3	Pole/Sap/Log	8	85	Witch Hazel	
Hemlock		2	Log/Pole	12	85		
Beech		2	Pole/Sap/Log	8	85		
Sugar Maple		13	Log/Pole	13	85		
Red Maple		65	Log/Pole	14	85		
White Pine		5	Log/XLog	17	85		
37	42340 - Upland Spruce/Fir	Poletimber Well	6.6	65	51-80	N/A	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Hemlock		2	Pole/Log	9	89	Blackberry/Raspberry	
Balsam Fir		50	Pole/Sap/Log	7	65		
Red Maple		20	Pole/Sap/Log	7	65		
Quaking Aspen		5	Pole/Sapling	7	65		
Yellow Birch		2	Pole/Sapling	6	65		
Northern White Cedar		2	Pole/Log	8	89		
Paper Birch		2	Sapling/Pole	3	65		
White Spruce		15	Pole/Sap/Log	7	65		
White Pine		2	Pole/Sap/Log	5	65		



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																	
38	4130 - Aspen	Sapling Medium	25.2	5	1-50	N/A	Good quality aspen regeneration, with a few wet areas that have not regenerated yet. The wetter areas will regenerate with balsam and conifers over time. This stand was clearcut in 2017 on contract 001-15-01.																																																	
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39	42340 - Upland Spruce/Fir	Poletimber Well	14.1	65	51-80	N/A	Mature upland conifer stand, with some lowland pockets of conifer. The spruce budworm is causing spruce/fir defoliation. With the age of the conifers and the forest health concerns, this stand should be clearcut. By harvesting the stand the full sunlight will allow the aspen to sprout and expand and begin the germination of the conifer seed on the forest floor.																																																	
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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42	4112 - Maple, Beech, Cherry Association	Sawtimber Well	13.6	85	111-140	N/A	Good quality red maple stand, that is in need of a thinning. Thinning the stand will remove the low quality and mature stems, improving the vigor of the remaining stems. Beech scale is present within the stand and the emerald ash borer is nearby. This stand was last thinned in 1999 on contract 027-99-01.
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Canopy Species	% Cover	Size Class	DBH	Age
Beech	8	Log/Pole/Sap	13	85
White Ash	2	Log/Pole	13	85
Sugar Maple	20	Log/Pole	12	85
Hemlock	5	Log/Pole	13	85
Red Maple	65	Log/Pole	14	85

Sub-Canopy Species	Density	Avg. Height	Size
White Spruce	Low	10 - 20 feet	Sapling
Balsam Fir	Low	10 - 20 feet	Sapling

43	4112 - Maple, Beech, Cherry Association	Sawtimber Well	9.7	85	111-140	N/A	Moderate to high quality hardwood stand, that is ready to be thinned. Thinning the stand will remove the low quality and mature stems, improving the vigor of the remaining stems. Beech scale is in nearby stands. This stand was last thinned in 2006 on contract 028-04-01.
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Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	25	Log/Pole	13	85
Basswood	10	Log/Pole	14	85
Beech	2	Pole/Sap/Log	8	85
Bigtooth Aspen	5	Log/Pole/Sap	13	85
Black Cherry	3	Pole/Log/Sap	9	85
Sugar Maple	55	Log/Pole	13	85

Sub-Canopy Species	Density	Avg. Height	Size
Ironwood	Low	10 - 20 feet	Sapling
Balsam Fir	Low	5 - 10 feet	Sapling
Musclewood/Hornbeam	Low	< 5 feet	Sapling

44	4139 - Aspen, Mixed Deciduous	Sawtimber Well	45.2	71	81-110	N/A	Overmature aspen stand with lowland pockets of ash and pockets of upland hardwoods. This stand also contains some floodplain. The Big Cedar River flows along the east edge of the stand and the Devil's Creek flows through the stand.
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Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	2	Log/Pole	10	85
Quaking Aspen	17	Log/Pole	10	71
Black Ash	15	Pole/Log/Sap	9	85
Basswood	5	Log/Pole	14	85
Bigtooth Aspen	30	Log/Pole	10	71
Balsam Fir	10	Pole/Log/Sap	8	71
Balsam Poplar	11	Pole/Log/Sap	9	71
Sugar Maple	5	Log/Pole	12	85
Northern White Cedar	5	Log/Pole	14	85

45	4130 - Aspen	Sapling Well	14.1	5	1-50	N/A	Fully stocked good quality aspen regeneration, with some residual black cherry and balsam for poles. The stand was clearcut in 2017 on contract 001-15-01.
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Canopy Species	% Cover	Size Class	DBH	Age
Black Cherry	20	Pole/Sapling	6	45
Bigtooth Aspen	70	Sapling	1	5
Balsam Fir	10	Pole/Sapling	5	45

Sub-Canopy Species	Density	Avg. Height	Size
Blackberry/Raspberry	Medium	5 - 10 feet	Tall Shrub



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments				
46	4110 - Sugar Maple Association	Sawtimber Well	15.1	82	111-140	N/A	Good quality hardwood stand, that is ready to be thinned. Thinning the stand will remove the low quality and mature stems, improving the vigor of the remaining stems. Beech scale is present within the stand and the emerald ash borer is nearby.				
		Canopy Species	% Cover	Size Class	DBH	Age		Sub-Canopy Species	Density	Avg. Height	Size
		Basswood	15	Log/Pole	13	82		Ironwood	Low	>20 feet	Sapling
		Beech	10	Log/Pole/Sap	13	82		Balsam Fir	Low	5 - 10 feet	Sapling
		Bigtooth Aspen	5	Log/Pole	10	82					
		Paper Birch	2	Pole/Log	9	82					
		Red Maple	3	Log/Pole	10	82					
		Sugar Maple	65	Log/Pole/Sap	10	82					
47	4136 - Aspen, Mixed Conifer	Sapling Well	37.4	7	Immature	N/A		Fully stocked aspen regeneration with some residual pine seed trees and hemlock and yellow birch. Three retention patches were also retained, that contain primarily pine, hemlock and red maple. This stand was clearcut in 2015 on contract 001-15-01.			
		Canopy Species	% Cover	Size Class	DBH	Age			Sub-Canopy Species	Density	Avg. Height
		Red Maple	5	Pole/Log/Sap	8	85	Blackberry/Raspberry		Medium	5 - 10 feet	Tall Shrub
		Hemlock	3	Log/Pole	13	85					
		White Pine	15	Log/Pole/Sap	14	85					
		Quaking Aspen	20	Sapling/Pole	1	7					
		Balsam Fir	5	Sapling	1	7					
		Bigtooth Aspen	50	Sapling	1	7					
		Black Cherry	2	Sapling	1	7					
48	6229 - Mixed lowland shrub	Nonstocked	46.1	0	Unspecified	613 - Lowland Mixed Forest	Stand was clearcut between 2016 and 2019 on contract 001-15-01. There were five retention patches retained. The stand has some black spruce, ash and balm regeneration, but very minimal amount at this time. Deer have heavily browsed and killed the majority of the hardwood and aspen stump sprouts following the harvest. Over time more conifer and balm will seed in.				
		Sub-Canopy Species	Density	Avg. Height	Size						
		Balsam Poplar	Low	5 - 10 feet	Sapling						
		Black Spruce	Low	< 5 feet	Sapling						
		Green Ash	Low	5 - 10 feet	Sapling						
		Tag Alder	Medium	5 - 10 feet	Tall Shrub						
49	6229 - Mixed lowland shrub	Nonstocked	4.5		Unspecified	No	Lowland brush stand, with tagalder and holly. There are some ash and birch poles along the perimeter of the stand.				
		Sub-Canopy Species	Density	Avg. Height	Size						
		Tag Alder	High		Tall Shrub						
		Black Ash	Low	>20 feet	Pole						
		Paper Birch	Low	>20 feet	Pole						



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments					
50	4319 - Mixed Upland Forest	Sapling Well	28.0	22	1-50	N/A	Two aged stand, with mature residual hemlock, cedar, yellow birch and some maple, ash, and spruce/fir. Over a fully stocked understory of red maple, birch, ash, and spruce/fir. This stand was cut in 2000 on contract 022-99-01. This stand is about 65% upland and 35% lowland.					
Canopy Species		% Cover	Size Class		DBH	Age		Sub-Canopy Species	Density	Avg. Height	Size	
Balsam Fir	15	Sapling/Pole	3	22	Michigan Holly	Low		5 - 10 feet	Tall Shrub			
White Spruce	10	Sapling/Pole	4	22	Tag Alder	Medium		< 5 feet	Tall Shrub			
Black Ash	10	Sapling/Pole	3	22								
Paper Birch	6	Sapling/Pole	3	22								
White Pine	5	Pole/Sap/Log	7	89								
Northern White Cedar	15	Log/Pole	12	89								
Hemlock	5	Log/Pole	14	89								
Yellow Birch	2	Pole	8	89								
Red Maple	30	Sapling/Pole	3	22								
Beech	2	Sapling/Pole	3	22								
51	42380 - Non Pine Upland Conifer, Mixed Deciduous	Poletimber Well	51.6	55	1-50	N/A		This is an un-even aged stand. There are older mature cedar, hemlock, and some hardwoods. With some spruce/fir, aspen, and hardwoods, about 55 years old and some younger regeneration from when the stand was cut in the recent past. This stand was last cut in 2000 on contract 022-99-01. Trees greater than six inches were cut, except only the spruce greater than 9 inches was cut. Also, all cedar, hemlock, pine, yellow birch, and beech were retained. The spruce/fir is being heavily defoliated by the spruce budworm and should be harvested prior to mortality occurring. After the harvest the aspen will expand and the hardwoods will stump sprout. With the full sunlight, the conifer seed will germinate on the forest floor, as well. This stand will regenerate with a mix of species. This stand is about 70% upland and the other 30% is lowland.				
Canopy Species		% Cover	Size Class		DBH	Age			Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	5	Pole/Sap/Log	5	55	Blackberry/Raspberry	Low			5 - 10 feet	Tall Shrub		
White Spruce	15	Pole/Sap/Log	7	55	Tag Alder	Low	5 - 10 feet		Tall Shrub			
White Pine	2	Pole/Sap/Log	6	55	Beech	Low	5 - 10 feet		Sapling			
Paper Birch	3	Sapling/Pole	4	34								
Balsam Fir	40	Pole/Sap/Log	7	55								
Green Ash	5	Sapling/Pole	2	34								
Hemlock	3	Log/Pole	13	93								
Northern White Cedar	7	Log/Pole	13	93								
52	6120 - Lowland Cedar	Sawtimber Well	10.3	128	171-200	N/A	High quality cedar stand, with about half of it being upland. There are pockets of cedar windthrow in the stand.					
Canopy Species		% Cover	Size Class		DBH	Age		Sub-Canopy Species	Density	Avg. Height	Size	
Green Ash	5	Log/Pole	13	89	Tag Alder	Low		5 - 10 feet	Tall Shrub			
Black Spruce	3	Log/Pole/Sap	13	89								
Northern White Cedar	80	Log/Pole/XLog	14	128								
Red Maple	2	Log/Pole	13	89								
Balsam Poplar	3	Log/Pole	13	89								
Balsam Fir	2	Log/Pole/Sap	10	89								
Black Ash	5	Pole/Log/Sap	9	89								
53	500 - Water	Nonstocked	17.7		Unspecified	No	Big Cedar River					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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54	4199 - Other Mixed Upland Deciduous	Poletimber Well	32.7	85	51-80	N/A	<p>This is a mature red maple, aspen, and spruce/fir stand with lowland pockets of ash and cedar. All of the species are mature and should be harvested, the aspen, birch, and spruce/fir are dying out already. The Cedar River Pathway runs through this stand in two small locations. The trail will be buffered. A buffer will also be retained along the Big Cedar River for BMP concerns and aesthetics. The majority of the aspen is away from the river, so future problems with beaver should not arise. The majority of the cedar in the stand is along the river and would be retained in the buffer strip. Access into the stand for harvesting would have a minimal impact the trails.</p>				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Balsam Fir	5	Pole/Sap/Log	8	85	Beech	Low		>20 feet	Sapling		
Green Ash	2	Log/Pole/Sap	14	85							
Black Ash	13	Pole/Sapling	7	85							
Hemlock	2	Log/Pole	12	137							
White Spruce	3	Log/Pole/Sap	12	85							
Quaking Aspen	25	Log/Pole/Sap	10	85							
Paper Birch	10	Pole/Log	9	85							
Red Maple	35	Log/Pole/Sap	10	85							
Northern White Cedar	5	Pole/Log	9	137							

55	4136 - Aspen, Mixed Conifer	Sawtimber Well	19.0	80	51-80	N/A	<p>Upland ridge of mature aspen and pine. The aspen is mature and is starting to die out of the stand. It should be harvested before it all dies out. The Cedar River Pathway runs through the entire length of the stand. With a shelterwood harvest, this stand will be converted to a natural pine stand. The residual pine will provide shade to limit the amount of aspen sprouting and also provide seed and partial shade to get more white pine established. Some open areas will regenerate with aspen, but it will be significantly reduced. As a pine type, there will be less impact to the trail in future harvests and will improve the aesthetics.</p>				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Hemlock	2	Log/Pole	10	137							
Balsam Fir	10	Pole/Log/Sap	8	80							
Bigtooth Aspen	60	Log/Pole	12	80							
Red Pine	5	Log/Pole/Sap	10	80							
White Spruce	3	Pole/Sap/Log	7	80							
Paper Birch	5	Pole/Log	8	80							
White Pine	10	Log/Pole/Sap	10	80							
Red Maple	5	Pole/Log/Sap	9	80							

56	6122 - Black Spruce	Poletimber Well	13.2	91	51-80	N/A	<p>Mature lowland spruce and hardwood stand, with ridges of upland pine. All of the species are mature and are ready to be harvested. Seed trees will be retained, which will provide a seed source. And with full sunlight all of the conifer seed on the forest floor will germinate and grow.</p>				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Red Pine	15	Log/Pole/Sap	14	91	Beech	Low		5 - 10 feet	Sapling		
Red Maple	10	Pole/Log/Sap	9	91							
Black Spruce	53	Pole/Log/Sap	9	91							
White Pine	20	Log/Pole/Sap	13	91							
Paper Birch	2	Pole/Log/Sap	9	91							

57	4199 - Other Mixed Upland Deciduous	Poletimber Well	35.5	80	51-80	N/A	<p>Mature low to moderate quality red maple and white birch stand, with a significant amount of spruce/fir and white pine regeneration. This stand is mature and ready to be harvested, but hold this stand ten years to break up the cutting in the area.</p>				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Red Maple	55	Pole/Log/Sap	9	80	Beech	Low		5 - 10 feet	Sapling		
Paper Birch	25	Pole/Log	9	80							
Quaking Aspen	5	Log/Pole	13	80							
Balsam Fir	5	Pole/Sap/Log	8	80							
Hemlock	5	Log/Pole	12	80							
White Spruce	5	Pole/Log/Sap	9	80							



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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58	4319 - Mixed Upland Forest	Sawtimber Well	16.0	139	141-170	N/A	Mature hemlock and upland hardwood stand. The hardwood and pine is ready to be harvested, but to break up the harvests in the area and to provide a buffer along the Cedar River Pathway that runs through this stand this treatment will be delayed.
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Yellow Birch		3	Pole/Sap/Log	8	85	Balsam Fir	
Quaking Aspen		5	Log/Pole	10	85	White Spruce	
Red Maple		25	Log/Pole/Sap	10	85	Density	
Hemlock		30	Log/Pole	12	139	Avg. Height	
White Pine		15	Log/Pole/XLog	16	139	Size	
Northern White Cedar		2	Log/Pole	10	139	Sapling	
Paper Birch		20	Log/Pole	10	85	Sapling	

59	4119 - Mixed Northern Hardwoods	Sawtimber Well	11.1	85	81-110	N/A	Mature upland hardwood stand with a mix of upland conifer regeneration. This stand contains the Cedar River Campground and part of the Pathway.
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Paper Birch		20	Log/Pole	10	85	Ironwood	
White Pine		3	Log/Pole/Sap	12	85	Density	
Red Maple		36	Log/Pole/Sap	10	85	Avg. Height	
White Spruce		2	Log/Pole/Sap	10	85	Size	
Balsam Fir		5	Pole/Sap/Log	8	85	Pole	
Sugar Maple		30	Log/Pole	10	85		
Hemlock		2	Log/Pole	10	139		
Northern White Cedar		2	Log/Pole	10	85		

60	4191 - Mixed Upland Deciduous with Conifer	Poletimber Well	37.3	87	51-80	N/A	Mature upland hardwood and pine stand, with a dense understory of conifer regeneration. The majority of the overstory needs to be removed to release the advanced regeneration. A partial overstory will be retained to provide partial shade and to improve the aesthetics along the access road into the Cedar River Campground.
Canopy Species		% Cover	Size Class	DBH	Age		
Red Pine		5	Log/Pole	14	107		
Red Maple		35	Pole/Sap/Log	8	87		
White Spruce		2	Pole/Sap/Log	8	87		
Paper Birch		25	Pole/Log	9	87		
Balsam Fir		3	Pole/Sap/Log	8	87		
Hemlock		8	Log/Pole	10	107		
Northern White Cedar		2	Log/Pole	10	107		



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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61 4199 - Other Mixed Upland Deciduous Sawtimber Well 11.2 99 81-110 N/A

Good quality upland hardwood stand, except along the river. Along the river it is a mix of lowland hardwood and cedar. The upland portion can be thinned during the next inventory cycle.

Canopy Species	% Cover	Size Class	DBH	Age
Basswood	5	Log/Pole/XLog	16	99
Green Ash	5	Log/Pole	14	99
Balsam Fir	5	Pole/Sap/Log	8	99
Black Ash	10	Pole/Sap/Log	8	99
Red Maple	10	Log/Pole	10	99
Sugar Maple	30	Log/Pole	12	99
Paper Birch	15	Log/Pole	10	99
Northern White Cedar	10	Log/Pole	12	99
Silver Maple	10	Log/XLog/Pole	16	99

Sub-Canopy Species	Density	Avg. Height	Size
White Spruce	Low	5 - 10 feet	Sapling