



Compartment Review Presentation

Escanaba Forest Management Unit

Compartment 33045

Entry Year 2026

Acreage: 1,783

County Menominee

Management Area: Green Bay

Stand Examiner: Dustin Salter

Legal Description:

36N 25W Section's 22, 27, and 34

Identified Planning Goals:

This compartment has a mix of forest types, with the prominent ones of upland conifer/pine, aspen, mixed upland deciduous, lowland hardwoods, lowland conifer, and lowland brush. This entry period a mix of each of the covertypes will be harvested. Seven mixed upland conifer/pine stands will be harvested. These stands will regenerate with a mix of species. The aspen and mixed upland deciduous stands will regenerate with a mix of aspen, maple, and a mix of conifers. The lowland ash and conifer stands will regenerate primarily with lowland conifers. Deer have been heavily browsing and killing the majority of the maple and ash sprouts following the previous harvests. A significant amount of these harvested stands have become conifer covertypes, due to the deer browsing. The emerald ash borer is present and is causing mortality. The final couple of mature ash stands are being prescribed for harvest to salvage these stands and allow the ash to sprout before they die.

Soil and topography:

There are two primary soil series within the compartment: Deford - Wainola - Rousseau Complex and Tawas - Deford Complex. The D-W-R complex varies from level to undulating to gently rolling. This complex makes up the largest portion of the upland stands. This complex varies from black muck over fine sand to deep fine sands. The Deford areas create wetland pockets within the uplands. The Tawas - Deford Complex is level and very poorly drained. The T - D Complex has black muck over fine sand. This complex is dominated by poor quality ash stands and non-productive lowland shrubs.

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

This compartment is in the middle of a block of state land that is approximately 8 miles wide and 20 miles long, that extends into Delta County. This compartment is primarily surrounded and blocked in with state land; except for some private property on the western edge. There are some primary residences and recreational cabins on the private property. Hunting and ORV riding are the primary uses of this area.

Unique Natural Features:

The Big Cedar River flows through the southwest part of the compartment.

Archeological, Historical, and Cultural Features:

No Archeological, Historical, or Cultural Features known.

Special Management Designations or Considerations:

The Cedar River State Forest Campground is in an adjacent compartment (46), but a portion of the access road runs through this compartment. Part of the Cedar River Pathway and trailhead/parking lot (stand 12) is within this compartment. The Cedar River Pathway runs through parts of stands 1, 8, and 10.

Watershed and Fisheries Considerations:

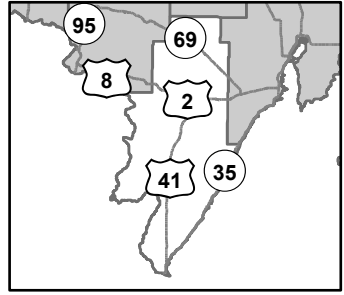
This compartment is mainly east of the Cedar River. The southern portion of the area has the Cedar River running through it. No treatments are being proposed near an obvious waterbody. If any treatments are near a wetland area, best management practices should be incorporated which include a 100' buffer.

Wildlife Habitat Considerations:

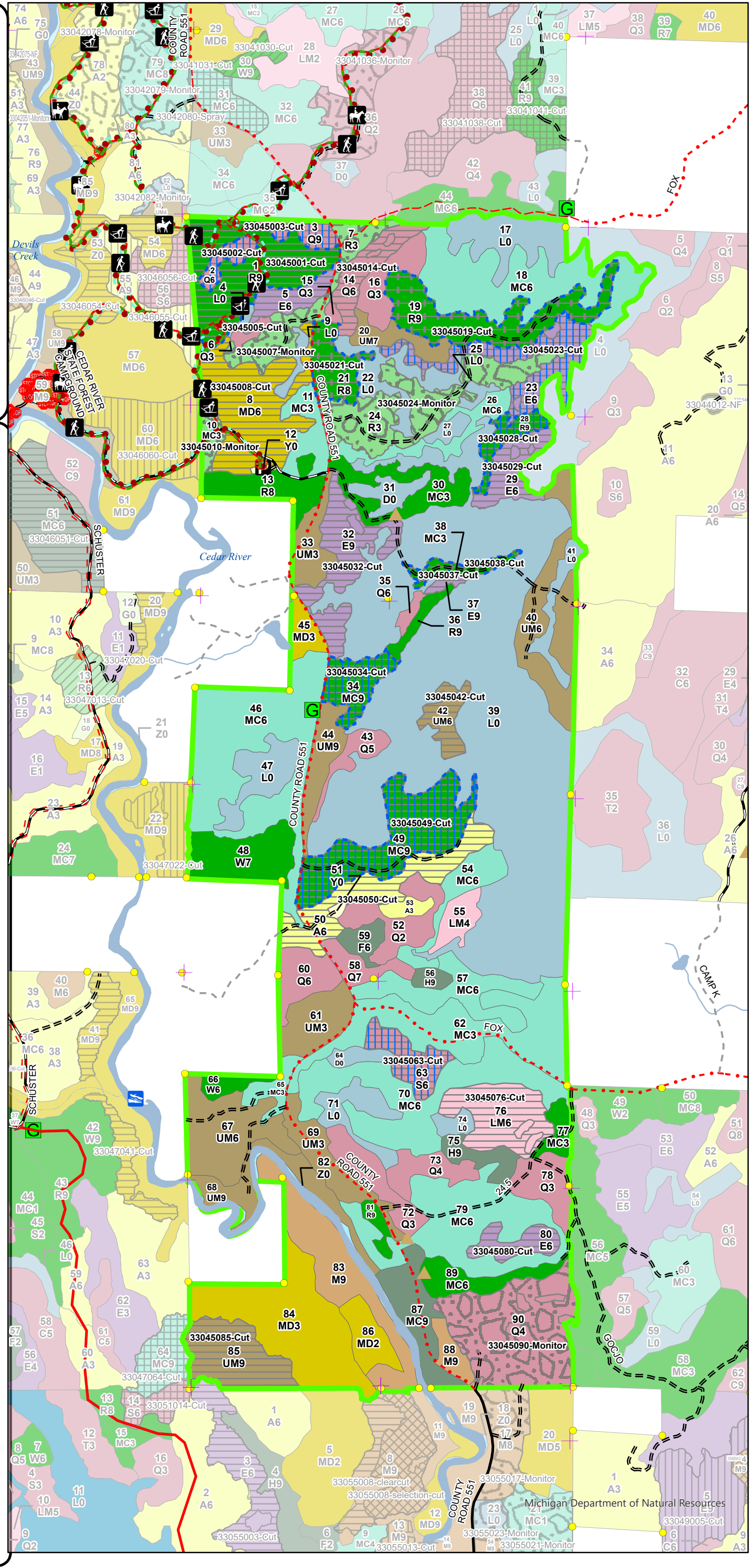
This 1,783 acre compartment has a diverse mix of upland and lowland cover types, with only upland conifers exceeding 20% of the forested stand types. 404 acres of forest treatments have been prescribed this YOY, representing 23% of the compartment. This includes 241 acres of clearcuts in upland deciduous, pines, aspen, lowland and upland mixed forest, and lowland conifer types, 112 acres of seed tree treatments in northern hardwoods, upland mixes, and lowland coniferous forests, 24 acres of shelterwood treatments in upland mixed forests, and 27 acres of overstory removal treatments in pines. Featured species for this compartment include American Woodcock, Wood Thrush, Black Bear, Wild Turkey, and White-tailed Deer. Clearcuts and shelterwood treatments which create young forest condition will benefit all of these species with the exception of the Wood Thrush. No treatments are planned in potential wood thrush habitat.

Cover Type & Treatments Map

Compartment: 33045
 T36N, R25W, Sec: 22, 27, 34
 County: Menominee
 Unit: Escanaba
 Mgmt Area: Green Bay
 YOE: 2026
 Acres: 1782.7 GIS Calculated
 Examiner: Dustin Salter
 Map Revised: 07/15/2024
 Map Phase: Web-Post

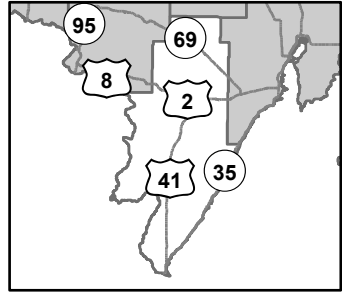


- Hiking Trails
- Horse Trails
- Ski Trails
- Designated Bicycle Trails
- Designated ORV Routes
- Designated ATV Trails
- Remunemented Section Corners
- Survey Grade Corners
- Counties
- Berms
- Gate
- Boating Access Site
- Bridges
- Campground
- Parking Lot
- Sign
- Trailhead
- DNR - Primary Forest 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
- Intermittent Stream
- Island in Lake or River
- Lake/Pond
- Perennial River
- Lakes and Rivers
- Compartment Boundary
- Treatments with Site Conditions
- Clearcut (w/Reserves)
- Harvest, Overstory Removal
- Seed Tree (w/Reserves)
- Regeneration Survey
- 411 - Northern Hardwood
- 413 - Aspen Types
- 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
- 613 - Lowland Mixed Forest
- 500 - Water
- 622 - Lowland Shrub
- 710 - Sand/Soil

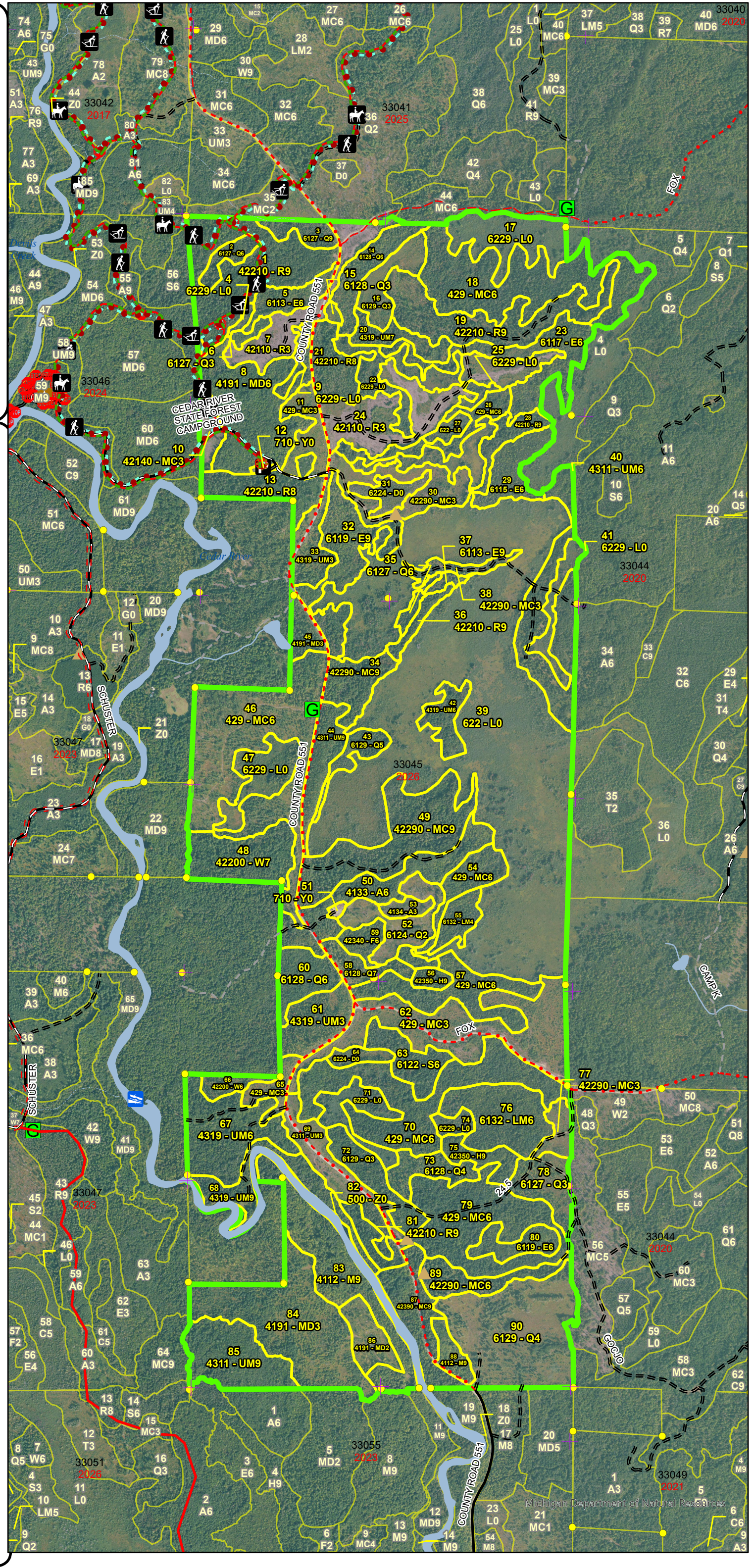


Stand Boundary Map

Compartment: 33045
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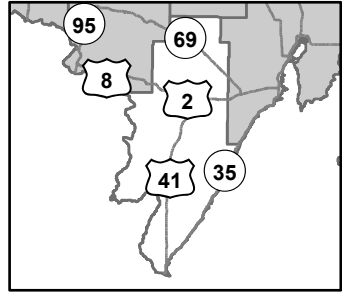


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- Stand Boundaries
- 411 - Northern Hardwood
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- 710 - Sand/Soil
- State Forests

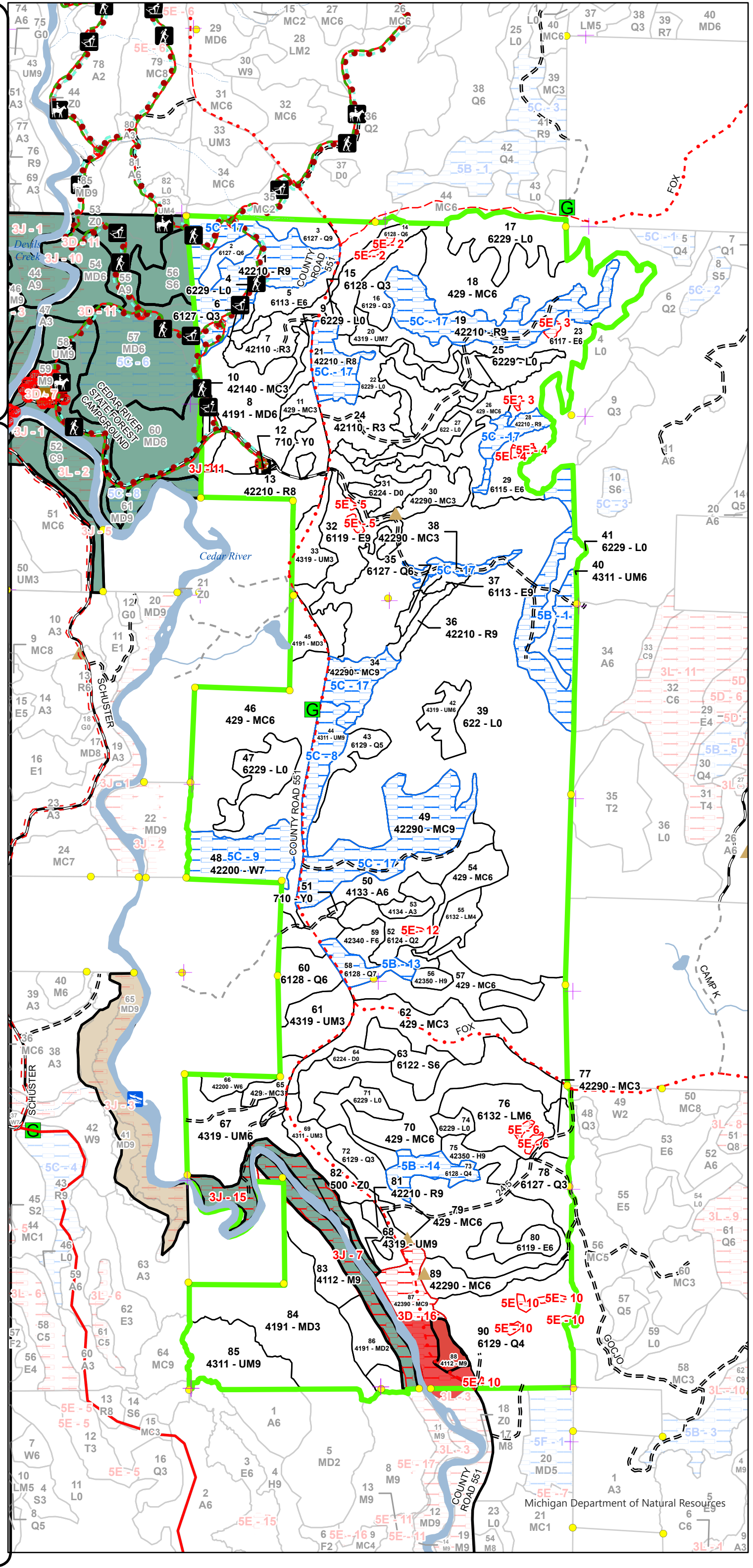


Special Conservation Areas & Site Conditions Map

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 - Private - Dirt / Gravel Road
 - Intermittent Stream
 - Island in Lake or River
 - Lake/Pond
 - Perennial River
 - Lakes and Rivers
 - Compartment Boundary
 - SCA
 - Available w/ Constraints
 - Unavailable
- 5B: Maintain for regeneration purposes
 5C: Delay treatment for age/size class diversity or exceptional site
 3D: Recreational / Scenic values
 3J: Water quality / BMPs (stream, river, or lake)
 5E: Long-Term Retention
- Stand Boundaries
 - Ecological Reference Areas
 - Cold Water Streams
 - Type 1 and Type 2 Old Growth
 - Vernal Pool
 - Cultural Use Area



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 sand & gravel operation is more than two miles southwest. Most of the compartment consists of low wetlands, which would inhibit surface mining. Some remote geophysical surveys covering this area have been conducted, and some past mineral test drilling has occurred within 1-2 miles of the compartment. No data is currently available on the results of the past exploration efforts. There may be potential for iron ore or other metallic and critical minerals beneath the compartment, but such mineral occurrences would be at significant depth and may not have significant economic value. Additional research/exploration is needed. There is no current leasing activity involving State-owned mineral rights in the area. 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:

This compartment is accessed off of two primary roads; County Road 551 and South Fox Road (County & State Maintained). There are numerous two-track roads that branch off of the primary roads that provide access to most of the compartment.

Survey Needs:

One registered corner may need to be set.

Recreational Facilities and Opportunities:

The Cedar River Pathway traverses through the Northwestern part of the compartment and the trailhead and parking lot is also located within the compartment. The Cedar River Campground is in an adjacent compartment.

Fire Protection:

This compartment contains many upland ridges with mature conifers growing on them, so there is a possibility of a fast spreading fire. A number of these stands will be harvested this decade so there will be a large amount of cured conifer slash. The ridges are surrounded by lowlands and hardwood stands, so there is a low probability of a large fire. There is good access into most of the compartment for fire suppression. The Cedar River offers a good water source.

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**

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	4	0	0	0	0	27	0	0	0	0	0	0	0	0	0	0	0	31
Hemlock	0	0	0	0	0	0	0	0	0	0	0	3	0	8	0	0	0	0	11
Lowland Conifers	0	16	27	29	2	0	0	0	7	13	10	20	0	55	0	0	0	0	178
Lowland Deciduous	0	0	0	0	0	0	0	0	9	76	0	0	0	0	0	0	0	0	85
Lowland Mixed Forest	0	0	0	0	0	0	0	0	0	0	33	0	0	0	0	0	0	0	33
Lowland Shrub	396	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	396
Lowland Spruce/Fir	0	0	0	0	0	0	0	0	0	13	0	0	0	0	0	0	0	0	13
Mixed Upland Deciduous	0	11	60	0	0	0	0	0	0	0	0	42	0	0	0	0	0	0	113
Natural Mixed Pines	0	26	0	12	0	6	0	0	0	0	42	0	13	0	0	0	0	0	99
Northern Hardwood	0	0	0	0	0	0	0	0	0	0	6	34	0	0	0	0	0	0	40
Planted Mixed Pines	0	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6
Red Pine	0	60	0	0	0	0	0	0	17	4	4	96	0	0	0	0	0	0	181
Sand, Soil	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
Treed Bog	11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	11
Upland Conifers	0	11	57	0	120	88	0	12	0	0	0	0	0	0	0	0	20	49	357
Upland Mixed Forest	0	16	16	0	42	0	0	32	0	0	40	34	0	0	0	0	0	0	180
Upland Spruce/Fir	0	0	0	0	0	0	6	0	0	0	0	0	0	0	0	0	0	0	6
Water	13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	13
White Pine	0	0	0	0	0	5	0	0	0	0	0	23	0	0	0	0	0	0	28
Total	422	150	160	41	164	99	33	44	24	39	211	252	13	63	0	0	20	49	1783



Report 2 – Treatment Summary

Escanaba Mgt. Unit

Year of Entry: 2026

Acres of Harvest

Compartment 45

Total Compartment Acres: 1,783

Commercial Harvest - 238
 Harvests with Site Condition - 157
 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	27	0	0	0	0	0	0	0	0	27
Lowland Conifers	13	0	0	12	0	0	0	0	0	25
Lowland Deciduous	49	0	0	24	0	0	0	0	0	73
Lowland Mixed Forest	24	0	0	0	0	0	0	0	0	24
Lowland Spruce/Fir	0	0	0	13	0	0	0	0	0	13
Mixed Upland Deciduous	42	0	0	0	0	0	0	0	0	42
Natural Mixed Pines	0	0	0	55	0	0	6	0	0	60
Red Pine	43	0	0	8	0	0	46	0	0	97
Upland Mixed Forest	34	0	0	0	0	0	0	0	0	34
Total	232	0	0	112	0	0	52	0	0	395

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	395	0	0	0	0	0	117	0	0	512
Next Step	0	43	43	0	0	43	343	0	0	471
Total	395	43	43	0	0	43	460	0	0	983



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

1	33045001-Cut	42.6	42210 - Natural Red Pine	Sawtimber Well	100	171- 200	Harvest	Clearcut	4211 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> Cut all trees greater than two (2) inches at DBH. No retention will be left to facilitate planting operations. Limit crossing the Cedar River Pathway.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> SitePrep, Trenching; Pesticide, Skidder - Site Prep; Planting, Initial Plant; Monitoring, Artificial Regen(1yr)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Planted red pine.</p> <p><u>Regen:</u></p> <p><u>Other</u> Very high quality natural red pine stand. This stand is mature and ready to be harvested. In the less dense areas of the stand the red pine averages around eighteen inches in diameter.</p> <p><u>Comment:</u> The red pine is passing maturity, where thinning will not improve the stand. This stand was on contract 030-16-01, but was turned back uncompleted. This stand should be clearcut and planted with red pine. The Cedar River Pathway runs through this stand.</p> <p><u>Site Condition</u> Age-Class or Site Quality</p> <p><u>Proposed Start Date:</u> 10/1 /2025</p>											
2	33045002-Cut	5.4	6127 - Lowland Pine	Poletimber Well	100	81-110	Harvest	Seed Tree with Retention	612 - Lowland Coniferous Forest	Even-Aged	No
<p><u>Prescription</u> Cut all trees greater than three (3) inches at DBH, except mark to retain some conifer seed trees - primarily 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> Spruce, pine, tamarack, and balm.</p> <p><u>Regen:</u></p> <p><u>Other</u> Mature lowland conifer stand growing on sphagnum moss. A significant amount of spruce and white pine has already died out of this stand.</p> <p><u>Comment:</u> This stand was on contract 030-16-01, but was turned back uncompleted. Once the canopy is harvested the seeds within the moss will begin to germinate and the stand will regenerate with a mix of conifer species.</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2025</p>											
3	33045003-Cut	6.7	6127 - Lowland Pine	Sawtimber Well	100	111- 140	Harvest	Seed Tree with Retention	612 - Lowland Coniferous Forest	Even-Aged	No
<p><u>Prescription</u> Cut all trees greater than three (3) inches at DBH, except mark to retain some conifer seed trees - primarily 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> Pine, spruce, tamarack, and balm.</p> <p><u>Regen:</u></p> <p><u>Other</u> Mature lowland conifer stand growing on sphagnum moss. A significant amount of spruce, tamarack, and jack pine has already died out of this stand. This stand was on contract 030-16-01, but was turned back uncompleted. Once the canopy is harvested the seeds within the moss will begin to germinate and the stand will regenerate with a mix of conifer species.</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2025</p>											



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Stand	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
5	33045005-Cut	9.2	6113 - Lowland Maple	Poletimber Well	91	111-140	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 mark to retain some conifer seed trees - primarily pine. In addition, retain all hemlock.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Maple, birch, ash, pine, and spruce/fir.</p> <p><u>Regen:</u></p> <p><u>Other</u> Mature moderate to low quality lowland red maple stand, that is ready to be harvested. This stand was on contract 030-16-01, but was turned back uncompleted. This stand is ready to be clearcut, to allow the hardwoods to stump sprout and the conifers will seed in over time. The hardwood stump sprouts will provide partial shade over the conifer regeneration. This stand is in deer conditional range and has a canopy composition of 2% cedar. Harvest of cedar has been agreed upon between FRD and WLD in this stand. This harvest is estimated to produce about 15 cords.</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2025</p>											
7	33045007-Monitor	20.4	42110 - Planted Red Pine	Sapling Well	5	Immature	Monitoring	Artificial Regen(3yr)	4211 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> Monitor the red pine planted in 2022.</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Planted red pine.</p> <p><u>Regen:</u></p> <p><u>Other</u> Stand was clearcut in 2016 on contract 030-16-01. Stand was then planted with red pine seedlings in May of 2022. The stand had been trenched in the summer of 2020. The stand had herbicide sprayed in July of 2021, only about 50% of the saplings/brush/sedge was killed. The red pine seedlings on the west side of the stand seem to be growing well. There are fewer red pine seedlings that have survived on the east side. There is a mix of other species that have regenerated naturally after the harvest.</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2024</p>											
8	33045008-Cut	42.0	4191 - Mixed Upland Deciduous with Conifer	Poletimber Well	100	111-140	Harvest	Clearcut with Retention	4113 - R.Maple, Conifer	Even-Aged	No
<p><u>Prescription</u> Cut all trees greater than three (3) inches at DBH, except hemlock. Mark to retain some pine, spruce, beech, and birch seed trees. The advanced white pine regeneration will need to be protected.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Maple, pine, aspen, spruce/fir, and hemlock.</p> <p><u>Regen:</u></p> <p><u>Other</u> Mature red maple, white pine, and aspen stand, that is ready to be harvested. This is a two-aged stand with older white pine and hardwoods over younger, but mature aspen and spruce/fir. When the stand is harvested the maple and aspen will sprout and pine will seed in from the residual seed tree's being retained. The maple and aspen sprouts will provide partial shade for the pine regeneration.</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2025</p>											



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Stand	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
10	33045010-Monitor	5.8	42140 - Planted Mixed Pine	Sapling Well	5	Immature	Monitoring	Artificial Regen(3yr)	4211 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> Monitor the red pine planted in 2022.</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Planted red pine.</p> <p><u>Regen:</u></p> <p><u>Other</u> This stand was clearcut in 2016 on contract 030-16-01. The stand was planted with red pine seedlings in May of 2022. The stand was trenched in the summer of 2020. The stand had herbicide sprayed in July of 2021, only about 50% of the saplings/brush/sedge was killed. The red pine seedlings are doing well. The stand has a significant amount of other natural conifer regeneration. The Cedar River Pathway runs through the center of the stand.</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2024</p>											
14	33045014-Cut	12.7	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Well	88	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 hemlock. Also retain the denser patches of cedar.</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> Spruce, tamarack, maple, cedar, pine, and birch.</p> <p><u>Regen:</u></p> <p><u>Other</u> Mature mixed lowland stand that is ready to be harvested. This stand was on contract 030-16-01, but was turned back uncompleted. The northern third of the stand has more hardwood and the southern two-thirds has more conifer. This is a lower site indexed stand. The tamarack, spruce, and birch are dying out of the stand, due to age, site quality, and pests. The hardwood will stump sprout following the harvest and a mix of conifers will regenerate once the overstory is removed. This stand is in deer conditional range and has a canopy composition of 2% hemlock and 20% cedar. Harvest of cedar outside of planned retention areas has been agreed upon between FRD and WLD in this stand. This harvest is estimated to produce about 50 cords.</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2025</p>											
19	33045019-Cut	33.1	42210 - Natural Red Pine	Sawtimber Well	106	51-80	Harvest	Overstory Removal	4319 - Mixed Upland Forest	Even-Aged	No
<p><u>Prescription</u> Cut all trees greater than four (4) inches at DBH, except mark to retain some pine seed trees.</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Pine, maple, aspen, balm, and spruce/fir.</p> <p><u>Regen:</u></p> <p><u>Other</u> High quality mature red pine stand with a dense understory of mixed conifer and red maple. The average stand basal area is about 70. The overstory should be removed to release the advanced pine regeneration. Opening up the stand will allow for more natural pine regeneration as well.</p> <p><u>Comment:</u></p> <p>This stand was prepared as part of the 2016 POW, but it was turned back un-completed. The stand was previously thinned in 2009 on contract 029-06-01. All species were cut; except the pine was marked to cut. In the fall of 2011 the stand was mechanically scarified with anchor chains.</p> <p><u>Site Condition</u> Age-Class or Site Quality</p> <p><u>Proposed Start Date:</u> 10/1 /2025</p>											



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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
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21	33045021-Cut	13.3	42210 - Natural Red Pine	Sawtimber Medium	100	51-80	Harvest	Overstory Removal	42260 - Natural Pine, Mixed Deciduous	Two-Aged	No
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Prescription Cut all trees greater than four (4) inches at DBH, except mark to retain some pine seed trees. Protect the advanced pine regeneration.
Specs:

Next Step
Treatments:

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

Other Two aged stand, with mature pine over a moderately stocked understory of red maple, pine, and spruce/fir. This stand is 50%
Comment: upland/lowland. This stand was on contract 030-16-01, but was turned back partially uncompleted. The overstory needs to be harvested to release the advanced regeneration and also create some more openings for more pine to regenerate with full sunlight.

Site Condition Age-Class or Site Quality

Proposed Start Date: 10/1 /2025

23	33045023-Cut	24.1	6117 - Lowland Deciduous, Mixed Coniferous	Poletimber Well	98	81-110	Harvest	Seed Tree with Retention	613 - Lowland Mixed Forest	Even-Aged	No
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Prescription Cut all trees greater than three (3) inches at DBH, except hemlock. Mark to retain some pine, spruce, cedar, and birch seed trees. In
Specs: addition retain the two dense patches of hemlock and the other species within them.

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

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

Other Mature moderate to low quality hardwood stand, with clumps of conifer. This stand is ready to be harvested. The emerald ash borer is
Comment: present and causing mortality. The hardwoods will stump sprout following the harvest and conifers will seed in from the residual seed trees. This stand is in deer conditional range and has a canopy composition of 3% hemlock and 2% cedar. Harvest of cedar outside of planned retention areas has been agreed upon between FRD and WLD in this stand. This harvest is estimated to produce about 40 cords.

Site Condition

Proposed Start Date: 10/1 /2025

24	33045024-Monitor	39.1	42110 - Planted Red Pine	Sapling Well	5	Immature	Monitoring	Artificial Regen(3yr)	4211 - Planted Red Pine	Even-Aged	No
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Prescription Monitor the red pine planted in 2022.
Specs:

Next Step
Treatments:

Acceptable Planted red pine.
Regen:

Other Stand was clearcut in 2016 on contract 030-16-01. The stand was planted with red pine seedlings in May of 2022. The stand was trenched
Comment: in summer of 2020. The stand had herbicide sprayed in July of 2021, only about 50% of the saplings/brush/sedge was killed. Stand was thinned in 2003 on contract 043-01-01. All species were cut; except the pine was thinned. The planted red pine is doing well, and other species are also present.

Site Condition

Proposed Start Date: 10/1 /2024



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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 33045028-Cut	7.8	42210 - Natural Red Pine	Sawtimber Well	106	111-140	Harvest	Seed Tree with Retention	4221 - Natural Red Pine	Even-Aged	No
<p><u>Prescription</u> Cut all trees greater than three (3) inches at DBH, except mark to retain some pine seed trees.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u> Pine, maple, aspen, and spruce/fir.</p> <p><u>Other Comment:</u> Mature high quality natural red pine stand. This stand is ready to be harvested to release the existing pine regeneration and to create more open areas to allow more pine to regenerate from the pine seed trees. This stand was prepared as part of the 2016 POW, but it was turned back un-completed.</p> <p><u>Site Condition</u> Age-Class or Site Quality</p> <p><u>Proposed Start Date:</u> 10/1 /2025</p>										
29 33045029-Cut	12.5	6115 - Lowland Ash	Poletimber Well	93	111-140	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 retain the dense patches of cedar. Also, retain the spruce/fir less than six (6) inches at DBH.</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> Maple, pine, spruce/fir, ash, balm, and cedar.</p> <p><u>Other Comment:</u> Mature moderate quality black ash stand with clumps of cedar. The emerald ash borer is present and is causing mortality. The hardwoods will stump sprout following the harvest and some conifers will seed in over time. This stand was on contract 33-016-16, but it was turned back un-completed. This stand is in deer conditional range and has a canopy composition of 15% cedar. Harvest of cedar outside of planned retention areas has been agreed upon between FRD and WLD in this stand. This harvest is estimated to produce about 80 cords.</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2025</p>										
32 33045032-Cut	25.3	6119 - Mixed Lowland Deciduous Forest	Sawtimber Well	91	111-140	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 hemlock. Mark to retain some pine, spruce, maple, ash, and birch seed trees. In addition, retain the two dense patches of hemlock and cedar on the north end of the stand.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u> Maple, pine, birch, ash, balm, spruce/fir.</p> <p><u>Other Comment:</u> Mature moderate to higher quality lowland hardwood stand, with upland ridges of higher quality red maple and pine. The emerald ash borer is present and causing mortality. The birch and balsam fir are dying out of the stand due to their advanced age. The hardwood will stump sprout following the harvest and conifers will seed in from the residual conifer seed trees. This stand was prepared as part of the 2016 POW, but it was turned back un-completed.</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2025</p>										



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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
34 33045034-Cut	13.2	42290 - Natural Mixed Pine	Sawtimber Well	111	81-110	Harvest	Seed Tree with Retention	42290 - Natural Mixed Pine	Even-Aged	No
<p><u>Prescription Specs:</u> Cut all trees greater than three (3) inches at DBH, except hemlock. Mark to retain some pine seed trees. Protect the advanced pine regeneration.</p> <p><u>Next Step Treatments:</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Acceptable Regen:</u> Pine, aspen, maple, birch, and spruce/fir.</p> <p><u>Other Comment:</u> Mature high quality pine stand, that is ready to be harvested. Some portions of the stand have a lower basal area and in these areas there is a significant amount of advanced pine regeneration. This stand should be harvested to release the advanced pine regeneration and in the open areas following the harvest more pine will seed in with the pine seed trees. This stand was on contract 33-036-16, but it was turned back un-completed.</p> <p><u>Site Condition</u> Age-Class or Site Quality</p> <p><u>Proposed Start Date:</u> 10/1 /2025</p>										
37 33045037-Cut	2.0	6113 - Lowland Maple	Sawtimber Well	94	51-80	Harvest	Clearcut	6139 - Mixed Lowland Forest	Even-Aged	No
<p><u>Prescription Specs:</u> Cut all trees greater than three (3) inches at DBH. No retention will be retained, due to small stand size.</p> <p><u>Next Step Treatments:</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Acceptable Regen:</u> Maple, pine, birch, spruce/fir, and ash.</p> <p><u>Other Comment:</u> Mature low quality red maple stand with some pine. The emerald ash borer is present and is causing mortality. Following the harvest the hardwoods will stump sprout and conifers will seed in over time. The stand was thinned in 1993 on contract 002-93-01. The stand was on contract 33-036-16, but it was turned back un-completed.</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2025</p>										
38 33045038-Cut	5.5	42290 - Natural Mixed Pine	Sapling Well	45	1-50	Harvest	Overstory Removal	429 - Mixed Upland Conifers	Uneven-Aged	No
<p><u>Prescription Specs:</u> Cut all pine greater than six (6) inches at DBH. Also, cut all other species greater than three (3) inches at DBH.</p> <p><u>Next Step Treatments:</u></p> <p><u>Acceptable Regen:</u> Pine, maple, aspen, and spruce/fir.</p> <p><u>Other Comment:</u> Uneven aged stand, with log sized pine and red maple and mix of regeneration 10 to 30 years old. The overstory needs to be removed to release the advanced regeneration. Opening the stand up will allow for more pine regeneration. The stand was seed tree cut in 2009 on contract 029-06-01. The majority of the species were cut; except some pine seed trees were retained along with some other species along the edge of the stand. There was some advanced pine regen present when the stand was cut. The open areas of this stand were mechanically scarified with anchor chains in the fall of 2011. This stand was prepared as part of the 2016 POW, but it was turned back un-completed.</p> <p><u>Site Condition</u> Age-Class or Site Quality</p> <p><u>Proposed Start Date:</u> 10/1 /2025</p>										



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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
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42 33045042-Cut	9.0	4319 - Mixed Upland Forest	Poletimber Well	92	81-110	Harvest	Clearcut with Retention	4113 - R.Maple, Conifer	Even-Aged	No
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Prescription Cut all trees greater than three (3) inches at DBH, except mark to retain some pine seed trees.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

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

Regen:

Other Two aged stand with older pine and red maple and younger aspen. The aspen has grown poorly coming up under the overstory. All species are mature and should be harvested. The hardwoods and aspen will sprout following the harvest and conifers will seed in over time with the residual seed trees.

Site Condition

Proposed Start Date: 10/1 /2025

49 33045049-Cut	41.5	42290 - Natural Mixed Pine	Sawtimber Well	94	111-140	Harvest	Seed Tree with Retention	42290 - Natural Mixed Pine	Two-Aged	No
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Prescription Cut all trees greater than four (4) inches at DBH, except mark to retain some pine seed trees. Protect the advanced pine regeneration.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

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

Regen:

Other Two aged stand with mature pine over a moderately stocked understory of mixed conifer.
Comment: The stand is variable; 50% of the stand is upland high quality red pine, 30% is more open with white pine and 20% lowland spruce and white pine. This stand was cut in 1994 on contract 046-93-01. All species were cut; except cedar, hemlock, and pine. The pine was marked to cut. The more open areas of the stand have most of the advanced regeneration. The overstory needs to be removed to release the advanced regeneration. Also the dense areas of red pine will be opened up allowing these areas to regenerate with pine.

Site Condition Age-Class or Site Quality

Proposed Start Date: 10/1 /2025

50 33045050-Cut	27.1	4133 - Aspen, Mixed Pine	Poletimber Well	56	81-110	Harvest	Clearcut with Retention	4133 - Aspen, Mixed Pine	Even-Aged	No
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Prescription Cut all trees greater than three (3) inches at DBH, except mark to retain some pine seed trees.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Aspen, pine, maple, and spruce/fir.

Regen:

Other Mature fully stocked aspen stand with older pine and hardwoods mixed in. This stand is ready to be harvested. The aspen and hardwoods will sprout following the harvest and pine will seed in over time with the residual seed trees.

Site Condition

Proposed Start Date: 10/1 /2025



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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
63 33045063-Cut	13.1	6122 - Black Spruce	Poletimber Well	83	81-110	Harvest	Seed Tree with Retention	612 - Lowland Coniferous Forest	Even-Aged	No
<p><u>Prescription</u> Cut all trees greater than three (3) inches at DBH, except mark to retain some pine seed trees.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u> Pine, spruce, tamarack, maple, and balm.</p> <p><u>Other Comment:</u> Mature lowland conifer stand, with a higher density of black spruce. There are some higher knobs with more red and white pine. This stand is ready to be harvested, opening the stand up will allow the seed in the moss to germinate and grow. A mix of conifer species will regenerate.</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2025</p>										
76 33045076-Cut	23.7	6132 - Mixed Lowland Forest with Cedar	Poletimber Well	93	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, except mark to retain some pine seed trees. In addition, do not cut cedar unless they are needed to harvest for operational purposes.</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> Maple, aspen, balm, spruce, tamarack, birch, cedar, and ash.</p> <p><u>Other Comment:</u> Mature mixed lowland stand. The northern 2/3rds of the stand has more hardwoods and the southern 1/3rd has more conifer (low quality spruce and tamarack). There are some small dense pockets of cedar scattered throughout the stand. The emerald ash borer is present and has caused some mortality. Following the harvest the hardwoods will stump sprout and conifers will seed in over time. This stand is in deer conditional range and has a canopy composition of 20% cedar. Harvest of cedar for operational purposes has been agreed upon between FRD and WLD in this stand. This harvest is estimated to produce about 20 cords of cedar.</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2025</p>										
80 33045080-Cut	9.2	6119 - Mixed Lowland Deciduous Forest	Poletimber Well	85	111-140	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 hemlock. Also, retain all spruce/fir less than six (6) inches at DBH.</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> Maple, ash, pine, spruce/fir, birch, and cedar.</p> <p><u>Other Comment:</u> Mature lowland hardwood stand. The emerald ash borer is present and is causing mortality. Clearcutting the stand will allow the hardwoods to stump sprout after the harvest, while the majority of the ash is still alive. A mix of conifer species will also seed in following the harvest. This stand is in deer conditional range and has a canopy composition of 5% hemlock and 2% cedar. Harvest of cedar has been agreed upon between FRD and WLD in this stand. This harvest is estimated to produce about 10 cords.</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2025</p>										



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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
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85	33045085-Cut	25.4	4311 - Pine, Aspen Mix	Sawtimber Well	109	81-110	Harvest	Clearcut with Retention	4133 - Aspen, Mixed Pine	Even-Aged	No
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Prescription Cut all trees greater than three (3) inches at DBH, except mark to retain some pine seed trees. Leave some pine in clumps.
Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Aspen, pine, maple, and spruce/fir.

Regen:

Other Two aged stand with older pine and younger aspen. All species are mature and are ready to be harvested. The aspen is stunted growing up under the partial pine overstory. This stand will regenerate with aspen sprouts and pine will seed in from the residual pine seed trees.

Site Condition

Proposed Start Date: 10/1 /2025

90	33045090-Monitor	51.6	6129 - Mixed Coniferous Lowland Forest	Poletimber Poor	125	1-50	Monitoring	Natural Regen (Re-Inventory)	613 - Lowland Mixed Forest	Even-Aged	No
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Prescription Monitor for regeneration.

Specs:

Next Step

Treatments:

Acceptable Maple, ash, birch, balm, pine, spruce/fir, cedar, and tamarack.

Regen:

Other Stand was clearcut in 2016 -17 on contract 33-023-16. The hemlock was retained, along with some pine, cedar and other conifer seed trees. There were five retention patches also retained. These areas were dense with hemlock and cedar. This stand was previously cut in 1998 and 2000 on contract 03-96-01. All hardwood species greater than 10 inches were cut and no conifers were cut. This stand has poorly regenerated. The ash and maple stump sprouts have been browsed and killed by deer. Even the ash seedlings have been browsed and killed. Conifers are seeding in and will continue to do so, but it will take a few more years. There are some cedar seedlings growing as well.

Site Condition

Proposed Start Date: 10/1 /2025

Total Treatment Acreage Proposed: 521.3

Report 4 – Site Conditions

Escanaba Mgt. Unit
Dustin Salter : Examiner

Compartment: 45
Year of Entry: 2026

Availability for Management

Total Acres	Acres Available	Acres Avail		Dominant Site Conditions	Dominant Site Conditions						
		With Condition	Not Available		5B	5C	3D	3J	3L	5E	
31	31	0	0	Aspen							
11	11	0	0	Hemlock							
179	157	18	4	Lowland Conifers	18						4
85	82	0	3	Lowland Deciduous							3
33	31	0	2	Lowland Mixed Forest							2
396	396	0	0	Lowland Shrub							
13	13	0	0	Lowland Spruce/Fir							
112	112	0	0	Mixed Upland Deciduous				0			
98	38	60	0	Natural Mixed Pines		60					
40	23	0	17	Northern Hardwood				17	0		
6	6	0	0	Planted Mixed Pines				0			
181	84	97	0	Red Pine		97					
2	2	0	0	Sand, Soil							
11	11	0	0	Treed Bog							
357	337	0	20	Upland Conifers			20				
181	118	45	18	Upland Mixed Forest	32	13		18			
6	6	0	0	Upland Spruce/Fir							
13	13	0	0	Water				0			
28	5	23	0	White Pine		23					
1,783	1,476	243	64	Total Forested Acres	50	193	20	36	0		8
	83%	14%	4%	Relative Percent							

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

Site No.	Dominant Site Cond Availability	Dominant Site Condition	Acres	Other Site Condition	Other Site Condition	Other Site Condition	Other Site Condition
1	Available	5B: Maintain for regeneration purposes	32	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
Pine is older in the stand, but the aspen and hardwoods are younger. No harvest is needed at this time.							

Report 4 – Site Conditions

Escanaba Mgt. Unit
Dustin Salter : Examiner

Compartment: 45
Year of Entry: 2026

2	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
<p>Comments: Denser areas of cedar that will be retained.</p>							
3	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
<p>Comments: Denser patches of hemlock and other species that will be retained.</p>							
4	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
<p>Comments: Denser patches of cedar that are being retained.</p>							
5	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
<p>Comments: Two denser patches of cedar and hemlock.</p>							
6	Unavailable	5E: Long-Term Retention	2	Unspecified	Unspecified	Unspecified	Unspecified
<p>Comments: Two denser patches of cedar.</p>							
7	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	17	Unspecified	Unspecified	Unspecified	Unspecified
<p>Comments: This stand buffers the Big Cedar River and provides mature forest conditions along it.</p>							
8	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	13	Unspecified	Unspecified	Unspecified	Unspecified
<p>Comments: Numerous stands in the area are being harvested, delay harvest to break up age classes.</p>							

Report 4 – Site Conditions

Escanaba Mgt. Unit
Dustin Salter : Examiner

Compartment: 45
Year of Entry: 2026

9	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	23	Unspecified	Unspecified	Unspecified	Unspecified
Comments: The pine is older in the stand, but the understory is fully stocked with aspen and red maple. No harvest is needed at this time.							
10	Unavailable	5E: Long-Term Retention	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Long term retention, these are primarily dense pockets of hemlock and cedar.							
11	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	0	5E: Long-Term Retention	Unspecified	Unspecified	Unspecified
Comments: There is a small creek that flows through this area.							
12	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
13	Available	5B: Maintain for regeneration purposes	8	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Partial overstory to provide seed and partial shade.							
14	Available	5B: Maintain for regeneration purposes	10	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Partial overstory, to provide seed and partial shade.							
15	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	18	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Buffer along the Big Cedar River. This stand also provides a travel corridor for wildlife.							

Report 4 – Site Conditions

Escanaba Mgt. Unit
Dustin Salter : Examiner

Compartment: 45
Year of Entry: 2026

16	Unavailable	3D: Recreational / Scenic values	20	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
<p>Comments: This area is called the Worth Hemlocks. Old growth hemlock that should be protected. This stand also buffers the Big Cedar River. This stand also provides a travel corridor for wildlife.</p>							
17	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	157	Unspecified	Unspecified	Unspecified	Unspecified
<p>Comments: All seven of these stands are awaiting the natural red pine guidance before determining if/how they can be harvested.</p>							



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
Escanaba 45 2	Type 1 or Type 2 Old Growth	Verified Type 1 Old Growth Area	SCA	5
Comments Decent quality hardwood stand in need of a light thinning.				



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.
ERA	Ecological Reference Areas	Ecological Reference Areas (ERAs) are high quality examples of natural communities that have been identified as Element Occurrences (EOs) by the Michigan Natural Features Inventory (MNFI) within the context of their natural community classification system. Element Occurrences with viability ranks of A (Excellent) or B (Good) and a Global (G) or State (S) element (rarity) ranking of endangered (1), threatened (2), or rare (3) serve as an initial base of ERAs. They may be located upon any ownership in the State. The system is comprised of individual or associations of natural community types that are managed for restoration and maintenance of natural ecological processes and values. The public may submit recommendations for lands as ERAs using the DNR Conservation Area Recommendation Form.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																						
1	42210 - Natural Red Pine	Sawtimber Well	42.6	100	171-200	N/A	<p>Very high quality natural red pine stand. This stand is mature and ready to be harvested. In the less dense areas of the stand the red pine averages around eighteen inches in diameter. The red pine is passing maturity, where thinning will not improve the stand. This stand was on contract 030-16-01, but was turned back uncompleted. This stand should be clearcut and planted with red pine. The Cedar River Pathway runs through this stand.</p>																																																						
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2	6127 - Lowland Pine	Poletimber Well	5.4	100	81-110	N/A	<p>Mature lowland conifer stand growing on sphagnum moss. A significant amount of spruce and white pine has already died out of this stand. This stand was on contract 030-16-01, but was turned back uncompleted. Once the canopy is harvested the seeds within the moss will begin to germinate and the stand will regenerate with a mix of conifer species.</p>																																																						
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4	6229 - Mixed lowland shrub	Nonstocked	1.4		Unspecified	No	<p>Lowland brush stand with some scattered red maple and birch poles.</p>																																																						
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5	6113 - Lowland Maple	Poletimber Well	9.2	91	111-140	N/A	<p>Mature moderate to low quality lowland red maple stand, that is ready to be harvested. This stand was on contract 030-16-01, but was turned back uncompleted. This stand is ready to be clearcut, to allow the hardwoods to stump sprout and the conifers will seed in over time. The hardwood stump sprouts will provide partial shade over the conifer regeneration.</p>																																																						
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments	
6	6127 - Lowland Pine	Sapling Well	2.3	22	Immature	N/A	Stand was clearcut in 2002 on contract 043-01-01. There were two small retention/seed tree patches retained, along with some scattered pine. This stand is fully regenerated, primarily to a mix of black spruce and white pine.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
White Pine		40	Sapling	2	22	Michigan Holly		
Red Pine		10	Sapling	2	22	Density		
Tamarack		10	Sapling	2	22	Avg. Height		
Black Spruce		40	Sapling	2	22	Size		
7	42110 - Planted Red Pine	Sapling Well	20.4	5	Immature	N/A	Stand was clearcut in 2016 on contract 030-16-01. Stand was then planted with red pine seedlings in May of 2022. The stand had been trenched in the summer of 2020. The stand had herbicide sprayed in July of 2021, only about 50% of the saplings/brush/sedge was killed. The red pine seedlings on the west side of the stand seem to be growing well. There are fewer red pine seedlings that have survived on the east side. There is a mix of other species that have regenerated naturally after the harvest.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Red Pine		65	Sapling	1	5	Density		
White Spruce		10	Sapling	1	8	Avg. Height		
Red Maple		10	Sapling	1	8	Size		
White Pine		10	Sapling	1	8			
8	4191 - Mixed Upland Deciduous with Conifer	Poletimber Well	42.0	100	111-140	N/A	Mature red maple, white pine, and aspen stand, that is ready to be harvested. This is a two-aged stand with older white pine and hardwoods over younger, but mature aspen and spruce/fir. When the stand is harvested the maple and aspen will sprout and pine will seed in from the residual seed tree's being retained. The maple and aspen sprouts will provide partial shade for the pine regeneration.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Red Maple		48	Pole/Log	9	100	Beech		
Bigtooth Aspen		20	Pole/Log	9	59	Density		
Balsam Fir		3	Pole/Log	8	59	Avg. Height		
White Spruce		3	Pole/Log/Sap	9	100	Size		
White Pine		20	Log/Pole/Sap	10	100			
Red Pine		2	Log/Pole	13	100			
Hemlock		2	Log/Pole	12	100			
9	6229 - Mixed lowland shrub	Nonstocked	3.0	0	Unspecified	No	Lowland brush stand with some maple and spruce poles.	
Sub-Canopy Species		Density	Avg. Height	Size				
Black Spruce		Low	>20 feet	Pole				
Michigan Holly		High	5 - 10 feet	Tall Shrub				
10	42140 - Planted Mixed Pine	Sapling Well	5.8	5	Immature	N/A	This stand was clearcut in 2016 on contract 030-16-01. The stand was planted with red pine seedlings in May of 2022. The stand was trenched in the summer of 2020. The stand had herbicide sprayed in July of 2021, only about 50% of the saplings/brush/sedge was killed. The red pine seedlings are doing well. The stand has a significant amount of other natural conifer regeneration. The Cedar River Pathway runs through the center of the stand.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
White Pine		20	Sapling	1	8	Blackberry/Raspberry		
White Spruce		5	Sapling	1	8	Density		
Black Cherry		5	Sapling	1	8	Avg. Height		
Balsam Fir		15	Sapling	1	8	Size		



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																				
11	429 - Mixed Upland Conifers	Sapling Well	11.2	8	Immature	N/A	Fully regenerated stand with a mix of conifers and scattered red maple and aspen. This stand was clearcut in 2016 on contract 030-16-01.																																																				
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12	710 - Sand, Soil	Nonstocked	0.9		Unspecified	No	This is the parking lot for the Cedar Rvier Pathway.																																																				
13	42210 - Natural Red Pine	Sawtimber Medium	16.9	70	1-50	N/A	Stand was cut in 2008 on contract 029-06-01. All species were cut; except the pine was marked to cut. On average there is about 30 BA of pine left. The stand has a full stocking of aspen and red maple saplings, these species will be the feature stand in the future.																																																				
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14	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Well	13.3	88	51-80	N/A	Mature mixed lowland stand that is ready to be harvested. This stand was on contract 030-16-01, but was turned back uncompleted. The northern third of the stand has more hardwood and the southern two-thirds has more conifer. This is a lower site indexed stand. The tamarack, spruce, and birch are dying out of the stand, due to age, site quality, and pests. The hardwood will stump sprout following the harvest and a mix of conifers will regenerate once the overstory is removed.																																																				
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15	6128 - Lowland Coniferous, Mixed Deciduous	Sapling Well	1.2	15	Immature	N/A	Stand was clearcut in 2009 on contract 029-06-01. The stand is nearly fully stocked with red maple and a mix of conifers. There are more seedlings get started as well.																																																				
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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16	6129 - Mixed Coniferous Lowland Forest	Sapling Well	11.9	15	Immature	N/A	Fully stocked lowland conifer stand. The stand was clearcut in 2009 on contract 029-06-01.
Canopy Species		% Cover	Size Class	DBH	Age		
Red Maple		5	Sapling	1	15		
White Pine		30	Sapling	1	15		
Red Pine		15	Sapling	1	15		
Tamarack		10	Sapling	1	15		
Black Spruce		40	Sapling	1	15		

17	6229 - Mixed lowland shrub	Nonstocked	21.8		Unspecified	No	Lowland brush stand, with mostly holly.
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18	429 - Mixed Upland Conifers	Poletimber Well	51.6	40	1-50	N/A	Stand was clearcut in 1994 on contract 002-94-01. All species were cut; except hemlock, cedar, pine. Some of the pine was marked to cut. The stand has fully regenerated with a mix of species. There are some older mature pine, hemlock, spruce and hardwoods scattered throughout the stand. About 60% of the stand is upland.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple		20	Sapling/Pole	4	30	Michigan Holly	Low	5 - 10 feet	Tall Shrub
Quaking Aspen		5	Sapling/Pole	4	30	Tag Alder	Medium	5 - 10 feet	Tall Shrub
Balsam Fir		10	Sapling/Pole	3	30				
Tamarack		5	Sapling	2	30				
Black Spruce		20	Sapling/Pole	3	30				
White Pine		30	Sapling/Pole/Log	4	40				
Red Pine		10	Sapling/Pole/Log	4	40				

19	42210 - Natural Red Pine	Sawtimber Well	33.1	106	51-80	N/A	High quality mature red pine stand with a dense understory of mixed conifer and red maple. The average stand basal area is about 70. The overstory should be removed to release the advanced pine regeneration. Opening up the stand will allow for more natural pine regeneration as well.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Pine		20	Log/Pole	13	106	White Pine	Medium	5 - 10 feet	Sapling
Red Pine		80	Log/Pole	14	106	Bigtooth Aspen	Low	10 - 20 feet	Sapling
						Red Maple	Medium	10 - 20 feet	Sapling
						Balsam Fir	Low	5 - 10 feet	Sapling
						Red Pine	Medium	< 5 feet	Sapling
						White Spruce	Low	5 - 10 feet	Sapling

This stand was prepared as part of the 2016 POW, but it was turned back un-completed. The stand was previously thinned in 2009 on contract 029-06-01. All species were cut; except the pine was marked to cut. In the fall of 2011 the stand was mechanically scarified with anchor chains.

20	4319 - Mixed Upland Forest	Sawtimber Poor	9.0	100	1-50	N/A	Two aged stand, with red maple and pine over a fully stocked understory of red maple, white pine, and spruce. The overstory is not dense enough to need to be removed to release the advanced regeneration. The stand was shelterwood cut in 2009 on contract 029-06-01.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Black Spruce		5	Pole/Log	8	100	Balsam Fir	Low	5 - 10 feet	Sapling
White Pine		30	Log/Pole	11	100	Red Maple	Medium	10 - 20 feet	Sapling
Red Pine		20	Log/Pole	13	100	Black Spruce	Medium	5 - 10 feet	Sapling
Red Maple		45	Log/Pole	10	100	Tamarack	Low	5 - 10 feet	Sapling
						White Pine	Medium	10 - 20 feet	Sapling
						Michigan Holly	Medium	5 - 10 feet	Tall Shrub
						Red Pine	Low	5 - 10 feet	Sapling



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21	42210 - Natural Red Pine	Sawtimber Medium	13.3	100	51-80	N/A	Two aged stand, with mature pine over a moderately stocked understory of red maple, pine, and spruce/fir. This stand is 50% upland/lowland. This stand was on contract 030-16-01, but was turned back partially uncompleted. The overstory needs to be harvested to release the advanced regeneration and also create some more openings for more pine to regenerate with full sunlight.																																																							
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23	6117 - Lowland Deciduous, Mixed Coniferous	Poletimber Well	25.2	98	81-110	N/A	Mature moderate to low quality hardwood stand, with clumps of conifer. This stand is ready to be harvested. The emerald ash borer is present and causing mortality. The hardwoods will stump sprout following the harvest and conifers will seed in from the residual seed trees. About 40 cords of cedar will be harvested.																																																							
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24	42110 - Planted Red Pine	Sapling Well	39.1	5	Immature	N/A	Stand was clearcut in 2016 on contract 030-16-01. The stand was planted with red pine seedlings in May of 2022. The stand was trenched in summer of 2020. The stand had herbicide sprayed in July of 2021, only about 50% of the saplings/brush/sedge was killed. Stand was thinned in 2003 on contract 043-01-01. All species were cut; except the pine was thinned. The planted red pine is doing well, and other species are also present.																																																							
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26	429 - Mixed Upland Conifers	Poletimber Well	11.6	65	51-80	N/A	Two aged stand with older white pine and younger red maple. The ages of the stand range from 35 to 106 years old.																																																						
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27	622 - Lowland Shrub	Nonstocked	3.4	0	Unspecified	No	Lowland brush stand, with mostly holly. There are some trees around the perimeter of the stand.																																																						
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28	42210 - Natural Red Pine	Sawtimber Well	7.8	106	111-140	N/A	Mature high quality natural red pine stand. This stand is ready to be harvested to release the existing pine regeneration and to create more open areas to allow more pine to regenerate from the pine seed trees. This stand was prepared as part of the 2016 POW, but it was turned back un-completed.																																																						
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29	6115 - Lowland Ash	Poletimber Well	13.2	93	111-140	N/A	Mature moderate quality black ash stand with clumps of cedar. The emerald ash borer is present and is causing mortality. The hardwoods will stump sprout following the harvest and some conifers will seed in over time. This stand was on contract 33-016-16, but it was turned back un-completed. About 80 cords of cedar will be harvested.																																																						
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30	42290 - Natural Mixed Pine	Sapling Well	19.6	8	Immature	N/A	Stand was clearcut in 2016 on contract 036-16-01. Stand was previously thinned in 2009 on contract 029-06-01. The stand was prescribed for planting red pine, but due to the delay in getting that done, the stand has regenerated naturally with a mix of conifers primarily. About 70% of this stand is upland.																																																						
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																	
31	6224 - Treed Bog	Nonstocked	7.0		Unspecified	No	Treed bog, with primarily black spruce and white pine. About half of the stems have died since the stand was last inventoried.																	
								Sub-Canopy Species	Density	Avg. Height	Size													
								Black Spruce	Medium	>20 feet	Sapling													
								White Pine	Medium	>20 feet	Sapling													
32	6119 - Mixed Lowland Deciduous Forest	Sawtimber Well	26.5	91	111-140	N/A	Mature moderate to higher quality lowland hardwood stand, with upland ridges of higher quality red maple and pine. The emerald ash borer is present and causing mortality. The birch and balsam fir are dying out of the stand due to their advanced age. The hardwood will stump sprout following the harvest and conifers will seed in from the residual conifer seed trees. This stand was prepared as part of the 2016 POW, but it was turned back un-completed.																	
								Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size								
								Green Ash	20	Log/Pole	11	91	Balsam Fir	Low	10 - 20 feet	Sapling								
								Red Maple	45	Log/Pole	10	91	White Spruce	Low	10 - 20 feet	Sapling								
								Paper Birch	10	Pole/Log	8	91	Tag Alder	Low	5 - 10 feet	Tall Shrub								
								Northern White Cedar	2	Pole/Log	8	91	White Pine	Low	10 - 20 feet	Sapling								
								White Pine	8	Log/Pole	15	91												
								Hemlock	2	Log/Pole	12	91												
								Black Spruce	3	Pole/Log/Sap	7	91												
								Black Ash	10	Pole/Log	8	91												
								33	4319 - Mixed Upland Forest	Sapling Well	11.5	30	Immature	N/A	Fully stocked stand with a mix of advanced white pine and red maple regeneration and with younger aspen, spruce/fir and white pine regeneration from the most recent harvest. The stand was cut in 2016 on contract 036-16-01. All trees greater than 5 inches were cut; except the cedar and hemlock were retained. Also, some large pine were marked to retain. The stand was previously cut in 1994 on contract 046-93-01. All species were cut; except the pine was marked to cut and the cedar and hemlock were retained. The overstory pine and hardwoods were removed to release the dense advanced regeneration from the previous harvest in 1994.									
																Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
																Bigtooth Aspen	20	Sapling	1	8	Tag Alder	Low	5 - 10 feet	Tall Shrub
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Black Spruce	10	Sapling	1	8																				
White Pine	40	Sapling	3	30																				
Red Pine	3	Sapling/Pole	3	30																				
Red Maple	20	Sapling	3	30																				
34	42290 - Natural Mixed Pine	Sawtimber Well	13.2	111	81-110	N/A	Mature high quality pine stand, that is ready to be harvested. Some portions of the stand have a lower basal area and in these areas there is a significant amount of advanced pine regeneration. This stand should be harvested to release the advanced pine regeneration and in the open areas following the harvest more pine will seed in with the pine seed trees. This stand was on contract 33-036-16, but it was turned back un-completed.																	
								Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size								
								Red Maple	3	Log/Pole	12	111	Balsam Fir	Low	>20 feet	Sapling								
								White Pine	25	Log/Pole/Sap	13	111												
								Red Pine	55	Log/Pole/Sap	14	111												
								Hemlock	2	Log/Pole	13	111												
								Bigtooth Aspen	10	Log/Pole	12													
Black Spruce	5	Pole/Log/Sap	8	111																				



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																										
35	6127 - Lowland Pine	Poletimber Well	2.2	30	1-50	N/A	Mixed lowland conifer stand with upland knobs of denser red pine poles. The stand was seed tree cut in 1993 on contract 002-93-01. The stand is 60% lowland.																																										
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36	42210 - Natural Red Pine	Sawtimber Well	4.4	91	141-170	N/A	Mature high quality natural red pine stand. Stand was thinned in 1993 on contract 002-93-01. This stand was on contract 33-036-16, but it was turned back un-completed.																																										
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37	6113 - Lowland Maple	Sawtimber Well	2.0	94	51-80	N/A	Mature low quality red maple stand with some pine. The emerald ash borer is present and is causing mortality. Following the harvest the hardwoods will stump sprout and conifers will seed in over time. The stand was thinned in 1993 on contract 002-93-01. The stand was on contract 33-036-16, but it was turned back un-completed.																																										
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38	42290 - Natural Mixed Pine	Sapling Well	5.5	45	1-50	N/A	Uneven aged stand, with log sized pine and red maple and mix of regeneration 10 to 30 years old. The overstory needs to be removed to release the advanced regeneration. Opening the stand up will allow for more pine regeneration. The stand was seed tree cut in 2009 on contract 029-06-01. The majority of the species were cut; except some pine seed trees were retained along with some other species along the edge of the stand. There was some advanced pine regen present when the stand was cut. The open areas of this stand were mechanically scarified with anchor chains in the fall of 2011. This stand was prepared as part of the 2016 POW, but it was turned back un-completed.																																										
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39	622 - Lowland Shrub	Nonstocked	309.1	0	Unspecified	No	Lowland brush stand with some small clumps of trees scattered throughout.																																										



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments	
40	4311 - Pine, Aspen Mix	Poletimber Well	32.0	65	51-80	N/A	This stand is very variable, it has areas of dense conifer poles that are about 65 years old and other areas with dense thirty year old aspen and red maple. The ages of the trees range from 30 to 90 years old. This stand was clearcut in 1994 on contract 024-88-01.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Red Maple		15	Pole/Sap/Log	5	30	Beech		
Paper Birch		5	Sapling/Pole	4	30	Sand Cherry		
Balsam Fir		5	Pole/Sapling	5	65	Density		
White Spruce		5	Pole/Sap/Log	6	65	Avg. Height		
White Pine		10	Pole/Log/Sap	7	65	Size		
Red Pine		30	Pole/Log/Sap	9	65			
Quaking Aspen		30	Pole/Sapling	6	30			
41	6229 - Mixed lowland shrub	Nonstocked	8.2	0	Unspecified	No		Lowland brush stand with some maple and ash poles.
Sub-Canopy Species		Density	Avg. Height	Size				
Red Maple		Low	>20 feet	Pole				
Green Ash		Low	>20 feet	Pole				
42	4319 - Mixed Upland Forest	Poletimber Well	9.0	92	81-110	N/A	Two aged stand with older pine and red maple and younger aspen. The aspen has grown poorly coming up under the overstory. All species are mature and should be harvested. The hardwoods and aspen will sprout following the harvest and conifers will seed in over time with the residual seed trees.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Red Pine		10	Log/Pole	16	92	Michigan Holly		
Red Maple		30	Pole/Log	9	92	Density		
Bigtooth Aspen		20	Pole/Sapling	7	47	Avg. Height		
Black Spruce		20	Pole/Sap/Log	6	92	Size		
White Pine		20	Log/Pole/Sap	10	92			
43	6129 - Mixed Coniferous Lowland Forest	Poletimber Medium	6.9	74	1-50	N/A	Lowland black spruce and white pine stand, with stems ranging from 30 to 80 years old. Harvest next decade when the adjacent upland stand is harvested.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Tamarack		10	Pole/Sapling	6	74	Tag Alder		
Black Spruce		48	Pole/Sapling	6	74	Michigan Holly		
White Pine		40	Pole/Sapling	6	30	Density		
Red Maple		2	Pole/Sapling	6	74	Avg. Height		
44	4311 - Pine, Aspen Mix	Sawtimber Well	13.0	92	111-140	N/A	Two aged stand with older mature pine over younger aspen.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
White Pine		15	Log/Pole/Sap	13	92	Balsam Fir		
Bigtooth Aspen		35	Pole/Log/Sap	7	40	Black Spruce		
Red Pine		40	Log/Pole	13	92	Density		
Black Spruce		2	Pole/Log/Sap	9	92	Avg. Height		
Paper Birch		8	Pole/Log	8	92	Size		



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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45 4191 - Mixed Upland Deciduous with Conifer Sapling Well 6.7 15 1-50 N/A

Stand was shelterwood cut in 2009 on contract 029-06-01. About 30 basal area of residual stems were marked to retain. The majority of the residual trees have died out of the stand. The stand is now fully stocked with a mix of aspen, red maple, and white pine.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Pine	2	XLog/Log	18	98	Michigan Holly	Low	5 - 10 feet	Tall Shrub
Red Maple	25	Sapling/Pole/Log	2	15	Tag Alder	Low	5 - 10 feet	Tall Shrub
Quaking Aspen	35	Sapling	2	15				
Balsam Fir	11	Sapling	1	15				
Red Pine	2	Sapling	2	15				
White Pine	20	Sapling	2	15				

46 429 - Mixed Upland Conifers Poletimber Well 70.0 38 1-50 N/A

Variable aged stand, with older white pine poles and a mix of regeneration with various ages. There is some dense pockets of hemlock on the north end of the stand. The stand had an Overstory Removal cut done in 2018 on contract 035-16-01. All trees greater than 6" inches was cut, except the cedar and hemlock was retained along with some other conifer seed trees. The stand was previously shelterwood cut between 1996 and 1999 on contract 029-06-01. The maple and ash greater than 8 inches were cut along with all of the shorter lived species. The pine and hemlock were retained.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Pine	55	Pole/Sap/Log	5	38	Blackberry/Raspberry	Medium	< 5 feet	Tall Shrub
Black Spruce	5	Sapling	1	6	Tag Alder	Low	5 - 10 feet	Tall Shrub
Hemlock	5	Log/Pole	14	100				
Quaking Aspen	20	Sapling/Pole	1	6				
Balsam Fir	5	Sapling	1	6				
Red Maple	10	Sapling	1	6				

47 6229 - Mixed lowland shrub Nonstocked 15.4 Unspecified No

Lowland brush stand with a few small clumps of trees.

Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	Low	>20 feet	Pole
Northern White Cedar	Low	>20 feet	Pole

48 42200 - Natural White Pine Sawtimber Poor 22.8 100 1-50 N/A

Stand was cut in 1994 on contract 046-93-01. All species were cut; except the hemlock, cedar, and pine. The pine was marked to cut. This stand has a mature overstory of pine with a fully stocked understorey of pine and spruce/fir regeneration. The western half of the stand has a much higher BA of residual pine than the east half.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Pine	80	Log/XLog	16	100	Red Pine	Low	>20 feet	Sapling
Black Spruce	5	Pole/Sap/Log	9	100	Michigan Holly	Low	5 - 10 feet	Tall Shrub
Red Pine	15	Log/Pole	13	100	Quaking Aspen	Low	>20 feet	Pole
					Balsam Fir	Medium	>20 feet	Sapling
					Red Maple	Low	>20 feet	Pole
					White Pine	High	>20 feet	Sapling
					Black Spruce	Medium	>20 feet	Sapling

49 42290 - Natural Mixed Pine Sawtimber Well 41.5 94 111-140 N/A

Two aged stand with mature pine over a moderately stocked understorey of mixed conifer. The stand is variable; 50% of the stand is upland high quality red pine, 30% is more open with white pine and 20% lowland spruce and white pine. This stand was cut in 1994 on contract 046-93-01. All species were cut; except cedar, hemlock, and pine. The pine was marked to cut. The more open areas of the stand have most of the advanced regeneration. The overstorey needs to be removed to release the advanced regeneration. Also the dense areas of red pine will be opened up allowing these areas to regenerate with pine.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Pine	25	Log/Pole	12	94	Red Maple	Low	>20 feet	Sapling
Red Pine	55	Log/Pole/XLog	15	94	Balsam Fir	Low	10 - 20 feet	Sapling
Red Maple	5	Pole/Sap/Log	7	94	White Pine	Medium	>20 feet	Sapling
Black Spruce	10	Pole/Sap/Log	7	94	Red Pine	Low	>20 feet	Sapling
Bigtooth Aspen	5	Pole/Sap/Log	7		White Spruce	Low	>20 feet	Sapling



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																					
50	4133 - Aspen, Mixed Pine	Poletimber Well	27.1	56	81-110	N/A	Mature fully stocked aspen stand with older pine and hardwoods mixed in. This stand is ready to be harvested. The aspen and hardwoods will sprout following the harvest and pine will seed in over time with the residual seed trees.																																																					
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51	710 - Sand, Soil	Nonstocked	0.9		Unspecified	No	Old sand pit, with some white pine seedlings around the perimeter.																																																					
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52	6124 - Lowland Spruce-Fir	Sapling Medium	16.4	5	1-50	N/A	Stand was clearcut in 2019 on contract 035-16-01. All species were cut, except the hemlock was retained along with a dense patch of cedar. This stand is regenerating with a mix of conifer species, over time it will continue to seed in.																																																					
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53	4134 - Aspen, Spruce/Fir	Sapling Well	3.6	5	Immature	N/A	Fully stocked aspen stand with some older conifer regeneration. The stand was clearcut in 2019 on contract 035-16-01.																																																					
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54	429 - Mixed Upland Conifers	Poletimber Well	13.3	43	51-80	N/A	This stand is a mix of upland white pine and lowland red maple. About half of the stand has white pine poles that were retained when the stand was last harvested. and the other half has red maple stump sprouts from the last harvest, along with a mix of other species. The stand was clearcut in 1997 on contract 046-93-01.																																																					
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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55 6132 - Mixed Lowland Forest with Cedar Poletimber Poor 7.5 98 51-80 N/A

Very low quality stand, with some higher quality stems along the transition to the upland along the western edge. Emerald ash borer is present and is causing mortality.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Northern White Cedar	25	Log/Pole	11	98	Michigan Holly	Medium	5 - 10 feet	Tall Shrub
Black Ash	20	Pole/Log/Sap	8	98	Tag Alder	Medium	5 - 10 feet	Tall Shrub
Tamarack	5	Pole/Log/Sap	9	98				
Black Spruce	10	Pole/Log	9	98				
Paper Birch	5	Pole/Log	9	98				
Balsam Fir	5	Pole/Sap/Log	7	98				
Red Maple	30	Pole/Log/Sap	9	98				

56 42350 - Upland Hemlock Sawtimber Well 3.2 107 201+ N/A

Dense hemlock stand with some other scattered species.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	5	Log/Pole	10	107	White Spruce	Low	10 - 20 feet	Sapling
White Pine	5	Log/XLog	17	107				
Northern White Cedar	15	Log/Pole	10	107				
Paper Birch	5	Pole/Log	9	107				
Hemlock	70	Log/Pole	12	107				

57 429 - Mixed Upland Conifers Poletimber Well 23.4 45 81-110 N/A

Mixed red maple and conifer stand, which is about 60% upland. The northern tier of the stand has a higher density of red maple and the southern tier has more conifer. There are some older pine scattered throughout the stand.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Pine	10	Pole/Log/Sap	7	45	Tag Alder	Low	5 - 10 feet	Tall Shrub
White Pine	30	Pole/Sap/Log	6	45	Michigan Holly	Low	5 - 10 feet	Tall Shrub
Red Maple	30	Pole/Sapling	5	45				
Balsam Fir	10	Pole/Sapling	5	45				
Black Spruce	15	Pole/Sapling	6	45				
Quaking Aspen	5	Pole/Sapling	5	45				

58 6128 - Lowland Coniferous, Mixed Deciduous Sawtimber Poor 7.9 100 1-50 N/A

Stand was shelterwood cut in 2010 on contract 031-06-01. All cedar and hemlock were retained, along with some hardwood, pine, and spruce that were marked to retain. Two aged stand with a partial overstory of cedar, hemlock, and red maple over a moderately stocked understorey of mixed conifer and deciduous species. More conifers will seed in over time. Portions of the stand had too much overstory retained for the stand to fully regenerate.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	25	Log/Pole	13	100	Balsam Fir	Medium	10 - 20 feet	Sapling
Northern White Cedar	45	Log/Pole	11	100	Red Maple	Low	10 - 20 feet	Sapling
White Pine	5	XLog/Log	18	100	White Pine	Medium	10 - 20 feet	Sapling
Hemlock	20	Log/Pole	13	100	Balsam Poplar	Low	10 - 20 feet	Sapling
Green Ash	5	Log	12	100	White Spruce	Low	10 - 20 feet	Sapling
					Tag Alder	Medium	5 - 10 feet	Tall Shrub



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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59 42340 - Upland Spruce/Fir Poletimber Well 5.7 51 111-140 N/A Fully stocked upland conifer stand, with some aspen and red maple poles.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Yellow Birch	2	Pole/Sapling	5	51	Tag Alder	Low	5 - 10 feet	Tall Shrub
Paper Birch	10	Pole/Sapling	5	51				
Balsam Fir	35	Pole/Sapling	5	51				
Balsam Poplar	3	Pole/Sapling	5	51				
Black Spruce	40	Pole/Sapling	6	51				
Green Ash	5	Pole/Sapling	6	51				
Red Maple	5	Pole/Sapling	6	51				

60 6128 - Lowland Coniferous, Mixed Deciduous Poletimber Well 12.7 27 1-50 N/A Stand was clearcut in 1997 on contract 046-93-01. Only the hemlock, cedar, and some scattered seed trees were left. Stand is fully stocked with conifers and balm. There are a few dense pockets of lowland brush within the stand.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Balsam Poplar	20	Pole/Sapling	5	27	Willow spp.	Low	5 - 10 feet	Tall Shrub
Black Spruce	10	Sapling/Pole	4	27	Tag Alder	Medium	5 - 10 feet	Tall Shrub
White Pine	25	Sapling/Pole	4	27				
Northern White Cedar	5	Pole/Log	9	112				
Balsam Fir	30	Sapling/Pole	4	27				

61 4319 - Mixed Upland Forest Sapling Well 16.3 16 1-50 N/A Stand was shelterwood cut in 2008 on contract 031-06-01. Two aged stand with red maple and pine in the overstory and a fully stocked understory of primarily aspen and white pine. The overstory is open enough to allow the regeneration room to grow freely.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen	30	Sapling	1	16	Tag Alder	Medium	5 - 10 feet	Tall Shrub
Red Maple	15	Log/Pole/Sap	13	105	Willow spp.	Low	5 - 10 feet	Sapling
White Spruce	10	Sapling	1	16	Tamarack	Low	>20 feet	Sapling
Balsam Fir	15	Sapling	1	16				
White Pine	25	Sapling	1	16				
Red Pine	5	Log/Pole/Sap	15	105				

62 429 - Mixed Upland Conifers Sapling Well 50.4 14 Immature N/A Fully stocked upland stand with a mix of aspen and pine. The stand was clearcut in 2017 on contract 023-16-01. The stand was previously seed tree cut between 2008 and 2010 on contract 031-06-01. There were only scattered pine seed trees left, mostly red pine. The stand was then scarified in the fall of 2011.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Pine	20	Sapling	1	14	Blackberry/Raspberry	Low	5 - 10 feet	Tall Shrub
White Spruce	5	Sapling	1	14				
Tamarack	2	Sapling	1	14				
Red Maple	5	Sapling	1	14				
Jack Pine	3	Sapling	1	14				
Quaking Aspen	30	Sapling	2	14				
Balsam Fir	10	Sapling	1	14				
White Pine	25	Sapling	1	14				



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																											
63	6122 - Black Spruce	Poletimber Well	13.1	83	81-110	N/A	Mature lowland conifer stand, with a higher density of black spruce. There are some higher knobs with more red and white pine. This stand is ready to be harvested, opening the stand up will allow the seed in the moss to germinate and grow. A mix of conifer species will regenerate.																																											
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64	6224 - Treed Bog	Nonstocked	4.2		Unspecified	No	Treed bog, where about half of the stems have died in the last few years.																																											
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65	429 - Mixed Upland Conifers	Sapling Well	6.7	18	Immature	N/A	Fully stocked upland conifer stand, with some aspen. The stand was clearcut in 2016 on contract 023-16-01. The stand was previously thinned in 2008 on contract 031-06-01.																																											
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66	42200 - Natural White Pine	Poletimber Well	4.9	45	1-50	N/A	Multi aged stand, with the white pine ranging in age from 7 to 105, with most of it being pole sized. The open areas are still filling in with conifers. Most of the maple, aspen, and ash sprouts have been browsed and killed by deer. Stand had the hardwood overstory removed to release the pine and conifer regeneration in 2017 on contract 023-16-01. The stand was previously shelterwood cut in 2008 on contract 031-06-01.																																											
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67	4319 - Mixed Upland Forest	Poletimber Well	30.2	37	51-80	N/A	Fully stocked aspen stand with dense areas of white pine. The stand was clearcut in 1987-88 on contract 002-85-01.																																											
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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68	4319 - Mixed Upland Forest	Sawtimber Well	18.0	90	111-140	N/A	Mature mixed upland stand, that provides a buffer and wildlife travel corridor along the Big Cedar River.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen	5	Log/Pole	12	90	Tag Alder	Low	5 - 10 feet	Tall Shrub
Balsam Fir	5	Pole/Log/Sap	9	90				
Northern White Cedar	18	Log/Pole	11	105				
White Pine	20	Log/Pole/Sap	13	90				
Black Cherry	2	Pole/Log	9	90				
Red Maple	25	Log/Pole	11	90				
Paper Birch	15	Log/Pole	10	90				
Green Ash	10	Log/Pole	12	90				

69	4311 - Pine, Aspen Mix	Sapling Well	16.4	8	Immature	N/A	The stand was clearcut in 2016 on contract 023-16-01. Stand has regenerated well with a mix of aspen and conifers.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen	40	Sapling	1	8	Tag Alder	Low	5 - 10 feet	Tall Shrub
Red Maple	5	Sapling	1	8				
Balsam Fir	15	Sapling	1	8				
Jack Pine	15	Sapling	1	8				
White Pine	25	Sapling	1	8				

70	429 - Mixed Upland Conifers	Poletimber Well	48.7	69	81-110	N/A	Mixed upland stand with some lowland pockets of conifer. This stand is variable in ages and species. Look at harvesting this stand next entry.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	25	Pole/Log	9	105	Michigan Holly	Low	5 - 10 feet	Tall Shrub
Quaking Aspen	10	Pole/Log/Sap	7	48				
Balsam Fir	10	Pole/Sap/Log	8	69				
White Spruce	5	Pole/Sap/Log	8	69				
Hemlock	5	Log/Pole	14	105				
Red Pine	15	Log/Pole	12	105				
White Pine	30	Pole/Log/Sap	9	69				

71	6229 - Mixed lowland shrub	Nonstocked	12.1		Unspecified	No	Lowland brush stand, with dense holly and some scattered red maple and pine.
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Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	Low	>20 feet	Pole
White Pine	Low	>20 feet	Pole



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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72	6129 - Mixed Coniferous Lowland Forest	Sapling Well	14.0	26	Immature	N/A	Low quality lowland mixed stand, with some dense pockets of holly. The stand was clearcut in 1998 on contract 028-96-01. All species were cut; except the cedar, hemlock, and pine.
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Red Pine		10	Sapling/Pole/Log	4	26	Michigan Holly	
Green Ash		5	Sapling/Pole	3	26	Tag Alder	
Balsam Fir		20	Sapling/Pole	3	26		
Northern White Cedar		5	Log/Pole	12	105		
Tamarack		15	Sapling/Pole	3	26		
White Pine		20	Sapling/Pole	3	26		
Red Maple		10	Sapling/Pole	3	26		
Black Spruce		15	Sapling/Pole	3	26		

73	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Poor	10.3	94	1-50	N/A	Stand was shelterwood cut in 2012 on contract 029-10-01. All cedar and hemlock were retained and a mix of other species were marked to retain. The stand has regenerated poorly. The stand has filled in with a dense understory of sand cherry. In the semi-open areas there is some conifer regenerating, along with some red maple sprouts along the perimeter. Most of the maple and ash stump sprouts have been browsed and killed by deer.
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Red Maple		30	Log/Pole/Sap	10	94	Tag Alder	
Balsam Fir		15	Sapling	1	12	Sand Cherry	
Red Pine		5	Sapling	1	12		
Hemlock		5	Log/Pole	12	120		
White Pine		25	Sapling	1	12		
Beech		5	Sapling	1	12		

74	6229 - Mixed lowland shrub	Nonstocked	3.6		Unspecified	No	Dense lowland brush stand.
Sub-Canopy Species		Density	Avg. Height	Size			
Red Maple		Low	>20 feet	Pole			

75	42350 - Upland Hemlock	Sawtimber Well	7.9	126	201+	N/A	Dense hemlock stand with very few other species.
Canopy Species		% Cover	Size Class	DBH	Age		
White Pine		5	XLog/Log	18	126		
Hemlock		80	Log/XLog/Pole	13	126		
Black Spruce		5	Pole/Sap/Log	9			
Paper Birch		5	Pole/Log	9			
Red Maple		5	Pole/Log	9			



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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76	6132 - Mixed Lowland Forest with Cedar	Poletimber Well	25.2	93	81-110	N/A	Mature mixed lowland stand. The northern 2/3rds of the stand has more hardwoods and the southern 1/3rd has more conifer (low quality spruce and tamarack). There are some small dense pockets of cedar scattered throughout the stand. The emerald ash borer is present and has caused some mortality. Following the harvest the hardwoods will stump sprout and conifers will seed in over time. About 100 cords of cedar would be harvested from this stand.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Pine	5	Log/Pole/Sap	14	93	Michigan Holly	Medium	5 - 10 feet	Tall Shrub
Paper Birch	5	Pole/Log	8	93	Tag Alder	Low	5 - 10 feet	Tall Shrub
Red Maple	20	Pole/Log	9	93				
Balsam Fir	5	Pole/Sap/Log	7	93				
Black Spruce	10	Pole/Log/Sap	8	93				
Tamarack	5	Pole/Sap/Log	8	93				
Northern White Cedar	20	Log/Pole	10	93				
Black Ash	30	Pole/Sap/Log	8	93				

77	42290 - Natural Mixed Pine	Sapling Well	6.1	7	Immature	N/A	Fully stocked natural pine stand. The stand was seed tree cut in 2017 on contract 33-023-16. The stand was previously thinned in 2010 on contract 029-10-01.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen	2	Sapling	1	7	Tag Alder	Low	5 - 10 feet	Tall Shrub
White Spruce	5	Sapling	1	7				
Red Maple	23	Sapling	1	7				
White Pine	30	Sapling	1	7				
Red Pine	35	Sapling	1	7				
Balsam Fir	5	Sapling	1	7				

78	6127 - Lowland Pine	Sapling Well	13.5	14	Immature	N/A	Fully stocked pine and red maple stand. The stand is about 60% lowland. The stand was seed tree cut between 2010 and 2012 on contract 029-10-01. Red pine and white pine seed trees were left.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Pine	15	Sapling	1	14	Blackberry/Raspberry	Medium	5 - 10 feet	Tall Shrub
Black Spruce	10	Sapling	1	14	Michigan Holly	Low	5 - 10 feet	Tall Shrub
Quaking Aspen	5	Sapling	2	14	Tag Alder	Low	5 - 10 feet	Tall Shrub
White Pine	40	Sapling	1	14				
Red Maple	25	Sapling	1	14				
Balsam Fir	5	Sapling	1	14				

79	429 - Mixed Upland Conifers	Poletimber Well	50.1	32	51-80	N/A	Fully stocked natural pine stand, with pockets of red maple and aspen. The stand was clearcut in 1992 on contract 020-88-01. The cedar, hemlock, and pine were retained.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	10	Sapling/Pole	4	32	Tag Alder	Low	5 - 10 feet	Tall Shrub
White Spruce	10	Sapling/Pole	4	32				
Balsam Fir	10	Sapling/Pole	4	32				
Red Pine	25	Pole/Sap/Log	5	32				
Quaking Aspen	10	Sapling/Pole	4	32				
White Pine	30	Pole/Sap/Log	5	32				
Hemlock	5	Log/Pole	14	105				



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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80	6119 - Mixed Lowland Deciduous Forest	Poletimber Well	9.2	85	111-140	N/A	Mature lowland hardwood stand. The emerald ash borer is present and is causing mortality. Clearcutting the stand will allow the hardwoods to stump sprout after the harvest, while the majority of the ash is still alive. A mix of conifer species will also seed in following the harvest.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Yellow Birch		2	Pole/Log	9	85	White Pine		Low	5 - 10 feet	Sapling
Black Spruce		3	Pole/Log/Sap	8	85					
Black Ash		50	Pole/Sap/Log	8	85					
Hemlock		5	Log/Pole	14	110					
Northern White Cedar		2	Log/Pole	12	110					
Green Ash		5	Log/Pole	10	85					
Balsam Fir		3	Pole/Sap/Log	7	85					
Red Maple		30	Pole/Log	9	85					

81	42210 - Natural Red Pine	Sawtimber Well	3.5	80	81-110	N/A	Mature good quality natural red pine stand. The stand was thinned in 2012 on contract 029-10-01.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Red Pine		95	Log/Pole	13	80	Jack Pine		Low	10 - 20 feet	Sapling
White Pine		5	Log/Pole/Sap	14	80	Quaking Aspen		Low	10 - 20 feet	Sapling
						White Spruce		Low	5 - 10 feet	Sapling
						Balsam Fir		Medium	5 - 10 feet	Sapling

82	500 - Water	Nonstocked	12.6		Unspecified	No	Big Cedar River
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83	4112 - Maple, Beech, Cherry Association	Sawtimber Well	34.3	100	81-110	N/A	Good quality northern hardwood stand. This stand was thinned in 2017 on contract 023-16-01. A three chain buffer along the Big Cedar River was not thinned.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Beech		5	Log/Pole	10	100	Blackberry/Raspberry		Low	5 - 10 feet	Tall Shrub
Paper Birch		5	Log/Pole	10	100	White Pine		Low	5 - 10 feet	Sapling
Sugar Maple		45	Log/Pole	11	100	Ironwood		Low	< 5 feet	Sapling
Red Maple		45	Log/Pole	12	100	Balsam Fir		Low	5 - 10 feet	Sapling

84	4191 - Mixed Upland Deciduous with Conifer	Sapling Well	53.0	15	1-50	N/A	Nearly fully stocked stand with mostly red maple and white pine. Most of the white pine is older and was retained through the harvests. The lowland areas have a significant amount of green ash seedlings. This stand was clearcut in 2017 on contract 023-16-01. The cedar, hemlock, and pine were retained. This stand was previously shelterwood cut in 2009 on contract 025-06-01. A very large percentage of the maple stumps cut sprouted back. The overstory was removed to allow the other hardwood to sprout before the regen becomes too dense.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Hemlock		3	Log/Pole	10	98	Tag Alder		Medium	5 - 10 feet	Tall Shrub
White Pine		25	Sapling/Pole/Log	2	30	Blackberry/Raspberry		Medium	5 - 10 feet	Tall Shrub
Quaking Aspen		10	Sapling	3	15	Beech		Low	10 - 20 feet	Sapling
Green Ash		10	Sapling	1	15					
Balsam Fir		5	Sapling	1	15					
Red Maple		45	Sapling	2	15					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																					
85	4311 - Pine, Aspen Mix	Sawtimber Well	25.4	109	81-110	N/A	Two aged stand with older pine and younger aspen. All species are mature and are ready to be harvested. The aspen is stunted growing up under the partial pine overstory. This stand will regenerate with aspen sprouts and pine will seed in from the residual pine seed trees.																																																					
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86	4191 - Mixed Upland Deciduous with Conifer	Sapling Medium	10.8	7	1-50	N/A	Two aged stand with mature hardwoods over a moderately stocked understory with a mix of species. Conifers will continue to seed in over time. This stand was shelterwood cut in 2017 on contract 023-16-01.																																																					
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87	42390 - Mixed Non-Pine Upland Conifers	Sawtimber Well	20.0	230	141-170	N/A	This stand provides mature forest conditions along the Big Cedar River and contains some old growth Hemlock. A portion of this stand contains very old hemlock, but most of the stand is mature hardwoods and cedar. This area is called the "Worth Hemlocks".																																																					
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88	4112 - Maple, Beech, Cherry Association	Sawtimber Well	6.0	96	141-170	N/A	Good quality hardwood stand, that is ready to be thinned. There is some beech and cedar but neither are 2% of the stand canopy. The beech has beech bark disease.																																																					
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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89 42290 - Natural Mixed Pine Poletimber Well 12.4 25 1-50 N/A Fully stocked stand, heavy with natural pine. This stand has a significant amount of advanced regeneration that was released after the last harvest. The open areas of the stand have filled in with more conifers. This stand was clearcut between 2010 and 2012 on contract 029-10-01. The hemlock was retained along with some pine seed trees.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Hemlock	10	Log/Pole	13	105	Beech	Low	5 - 10 feet	Sapling
White Spruce	8	Sapling	2	25	Hemlock	Low	5 - 10 feet	Sapling
White Pine	30	Sapling/Pole/Log	4	25				
Balsam Fir	10	Sapling	2	25				
Bigtooth Aspen	5	Sapling	3	25				
Red Pine	35	Sapling/Pole/Log	4	25				
Red Maple	2	Sapling	1	12				

90 6129 - Mixed Coniferous Lowland Forest Poletimber Poor 54.5 125 1-50 N/A Stand was clearcut in 2016 -17 on contract 33-023-16. The hemlock was retained, along with some pine, cedar and other conifer seed trees. There were five retention patches also retained. These areas were dense with hemlock and cedar. This stand was previously cut in 1998 and 2000 on contract 03-96-01. All hardwood species greater than 10 inches were cut and no conifers were cut. This stand has poorly regenerated. The ash and maple stump sprouts have been browsed and killed by deer. Even the ash seedlings have been browsed and killed. Conifers are seeding in and will continue to do so, but it will take a few more years. There are some cedar seedlings growing as well.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	20	Sapling	1	7	Northern White Cedar	Low	< 5 feet	Sapling
Balsam Poplar	10	Sapling	1	7	Blackberry/Raspberry	Medium	5 - 10 feet	Tall Shrub
White Spruce	10	Sapling	1	7	Willow spp.	Low	5 - 10 feet	Sapling
Northern White Cedar	20	Pole/Log	9	125				
White Pine	20	Sapling/Pole	4	30				
Hemlock	20	Pole/Log	9	125				