



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.

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:

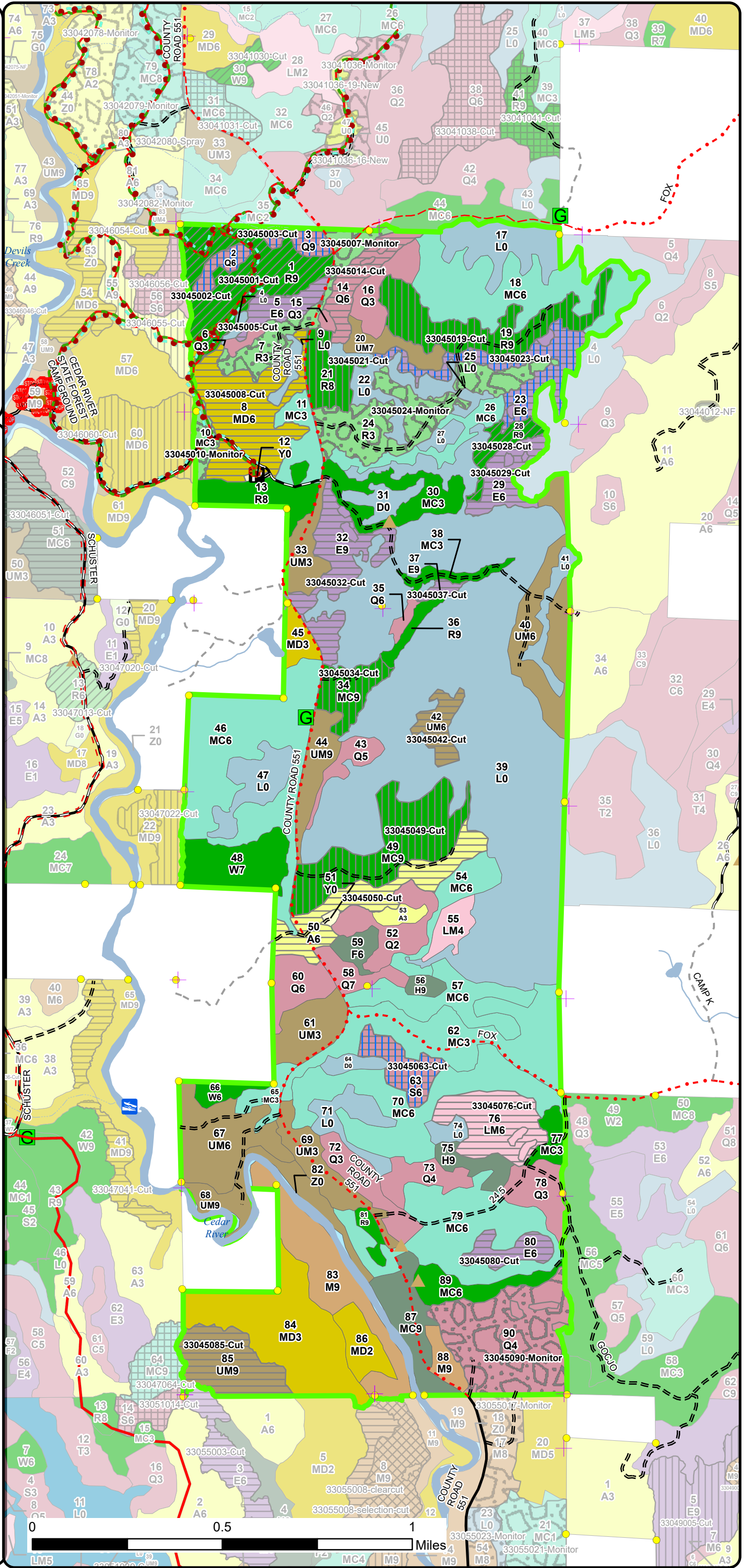
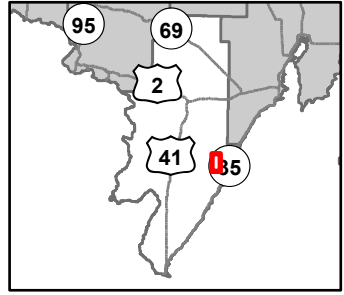
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

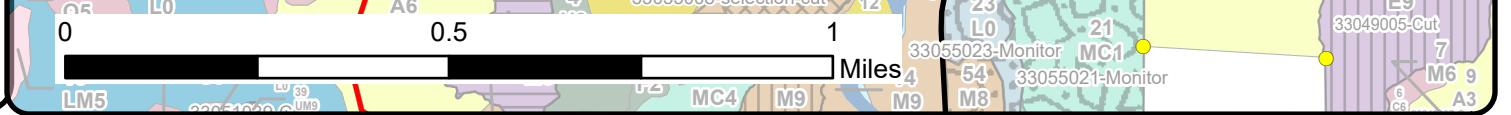
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

Cover Type & Treatments Map

Compartment: 33045
 T36N, R25W, Sec: 22, 27, 34
 County: Menominee
 Unit: Escanaba
 Mgmt Area: Green Bay
 YOE: 2026
 Acres: 1782.5 GIS Calculated
 Examiner: Dustin Salter
 Map Revised: 10/03/2024
 Map Phase: Post Review

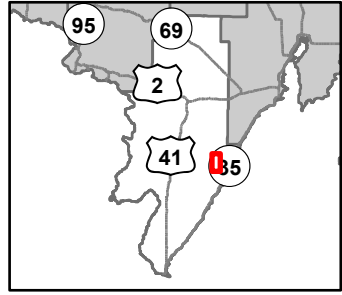


- Designated Bicycle Trails
- - - Designated ORV Routes
- Designated ATV Trails
- + Remonumented Section Corners
- Survey Grade Corners
- ▲ Berms
- G Gate
- B Boating Access Site
- = Bridges
- ▲ Campground
- P Parking Lot
- STOP Sign
- * Trailhead
- DNR - Primary Forest Road
- DNR - Secondary Forest 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
- Clearcut (w/Reserves)
- Seed Tree (w/Reserves)
- Thinning (Crown, Low, Systematic)
- Regeneration Survey
- Shelter Wood (w/Reserves)
- 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

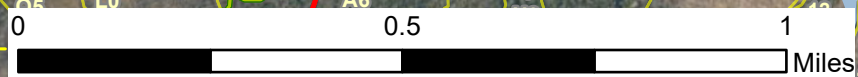
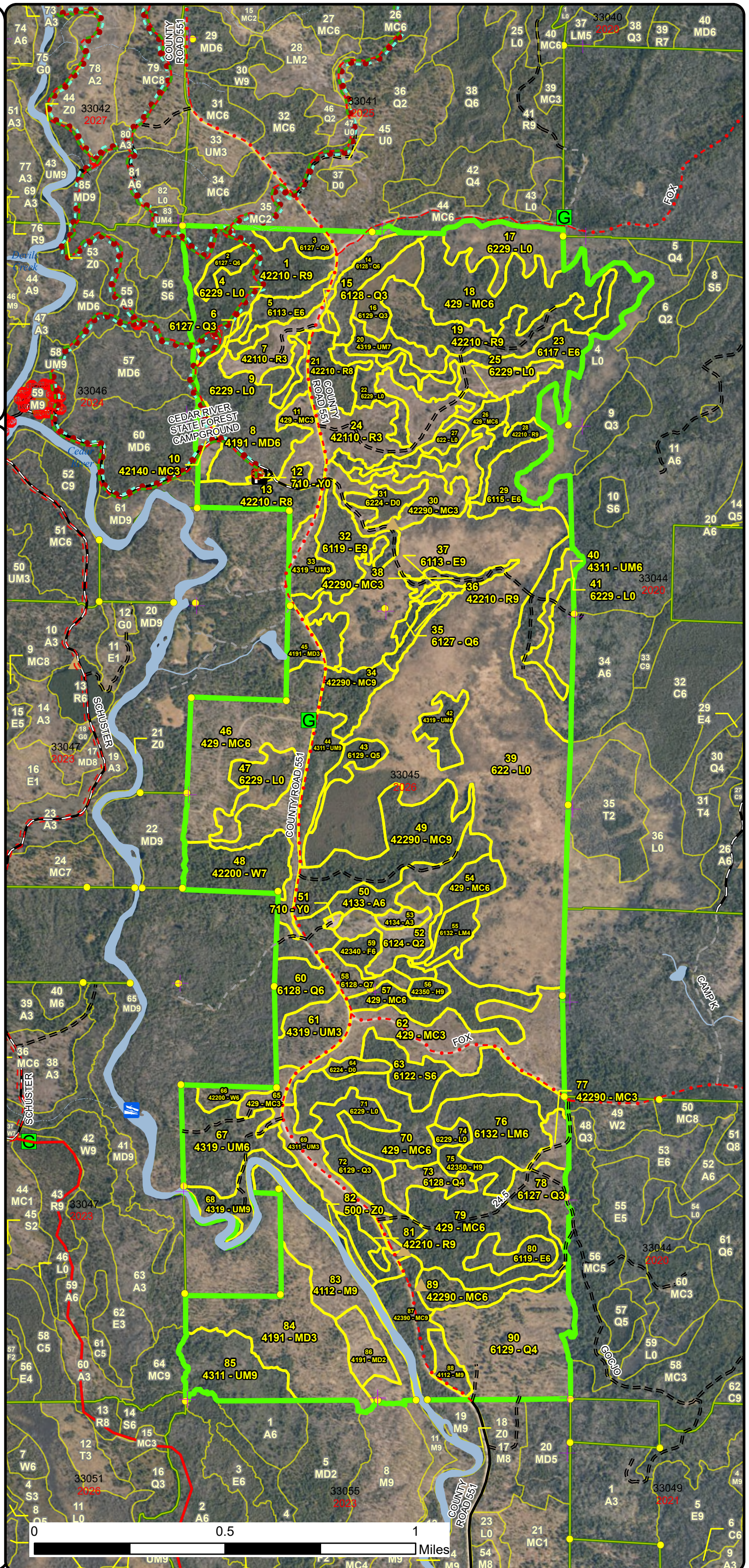


Stand Boundary Map

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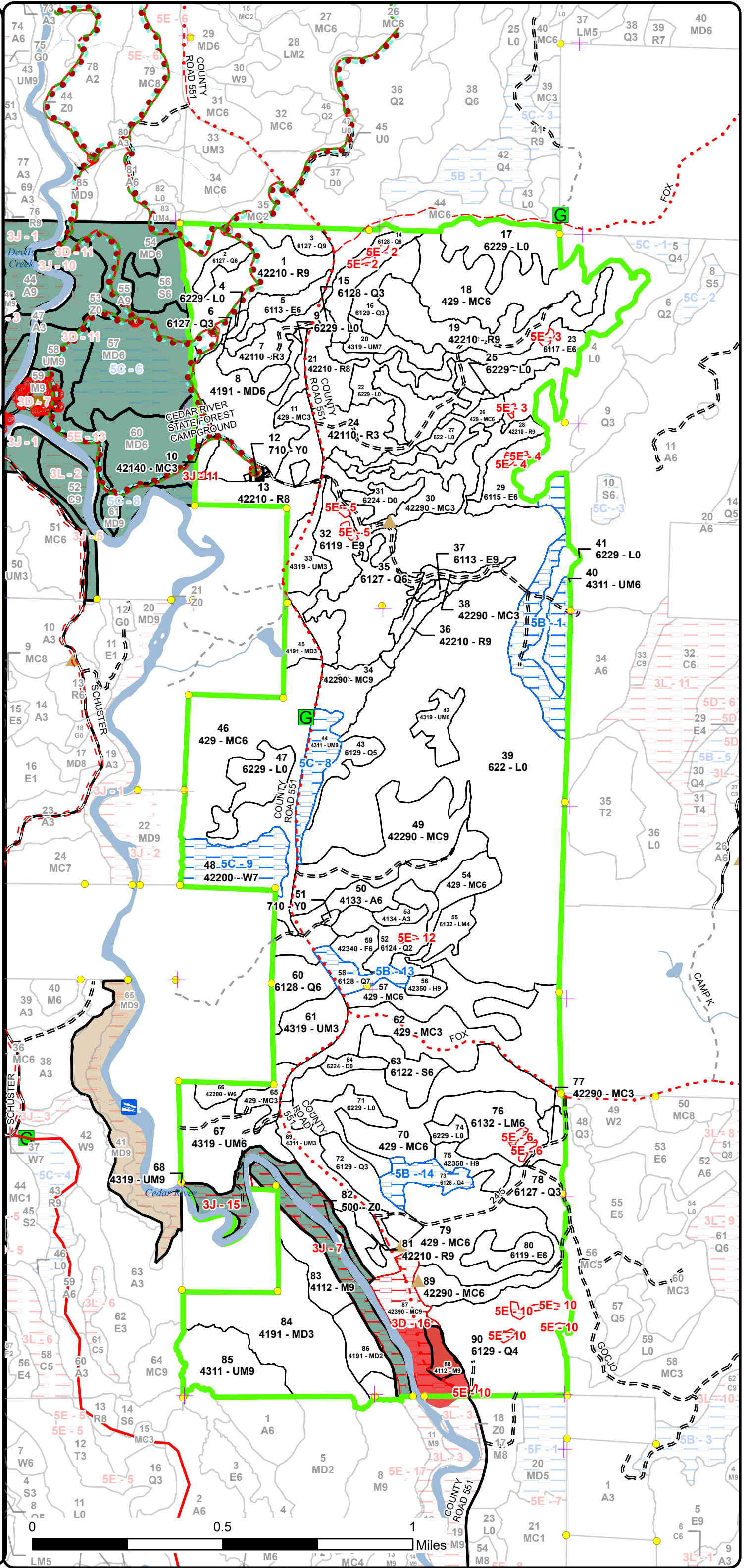
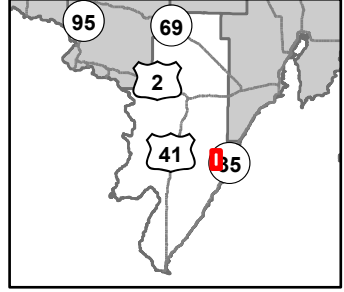


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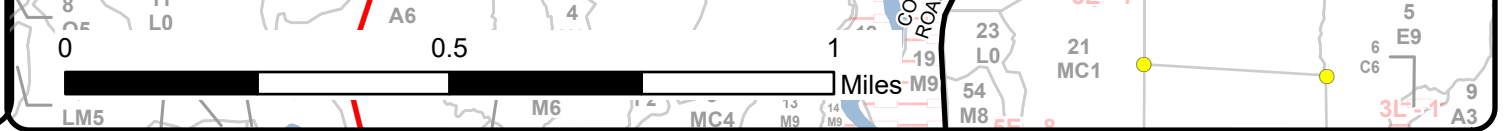


Special Conservation Areas & Site Conditions Map

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- 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 quality
- 3D: Recreational / Scenic values
- 3J: Water quality / BMPs (stream, river, or lake)
- 5E: Long-Term Retention
- Available w/ Constraints
- Unavailable
- Stand Boundaries
- Stand Boundaries
- Ecological Reference Areas
- Cold Water Streams
- Type 1 and Type 2 Old Growth
- Vernal Pool
- Cultural Use Area



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	0	9	76	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 - 390
 Harvests with Site Condition - 0
 Next Step Harvest - 0
 Habitat Cut - 0

Cover Type by Harvest Method

	Clearcut	Selection	Patch Clearcut	Seed Tree	Shelterwood	Thinning	Overstory Removal	Salvage	Other	Total Acres
Aspen	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	0	55	0	0	0	0	55
Red Pine	0	0	0	0	46	50	0	0	0	97
Upland Mixed Forest	34	0	0	0	0	0	0	0	0	34
Total	189	0	0	49	101	50	0	0	0	390

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	390	0	0	0	0	0	117	0	0	506
Next Step	0	82	0	0	42	0	390	0	0	514
Total	390	82	0	0	42	0	506	0	0	1021



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	42.4	42210 - Natural Red Pine	Sawtimber Well	100	171-200	Harvest	Crown Thinning	42290 - Natural Mixed Pine	Uneven-Aged	No
<p><u>Prescription</u> Crown Thinning, following the Variable Density Thinning Concept. The Basal Area will be reduced to 70 to 90. All species other than pine and hemlock greater than three (3) inches will be harvested. A mix of pine in the canopy along with smaller stems will be marked for harvest. Some cavity trees will be retained along with some large diameter pine that can become future cavity trees and retention. Limit crossing the Cedar River Pathway.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory); Burn, Understory</p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u> Regenerate the stand with a mix of red and white pine, focusing next step treatments on maintaining a higher percentage of red pine.</p> <p><u>Other Comment:</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. This stand will be thinned to meet the Natural Pine Guidance, following the variable density thinning concepts. This stand was on contract 030-16-01, but was turned back uncompleted. The Cedar River Pathway runs through this stand.</p> <p><u>Site Condition:</u></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 Regen:</u> Spruce, pine, tamarack, and balm.</p> <p><u>Other Comment:</u> 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> <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 Regen:</u> Pine, spruce, tamarack, and balm.</p> <p><u>Other Comment:</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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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 Specs:</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>Next Step Treatments:</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Acceptable Regen:</u> Maple, birch, ash, pine, and spruce/fir.</p> <p><u>Other Comment:</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>Site Condition:</u></p> <p><u>Proposed Start Date:</u> 10/1 /2025</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 Specs:</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>Next Step Treatments:</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Acceptable Regen:</u> Maple, pine, aspen, spruce/fir, and hemlock.</p> <p><u>Other Comment:</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>Site Condition:</u></p> <p><u>Proposed Start Date:</u> 10/1 /2025</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 Specs:</u> Cut all trees greater than three (3) inches at DBH, except hemlock. Also retain the denser patches of cedar.</p> <p><u>Next Step Treatments:</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Acceptable Regen:</u> Spruce, tamarack, maple, cedar, pine, and birch.</p> <p><u>Other Comment:</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>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
19 33045019-Cut	33.1	42210 - Natural Pine	Red Sawtimber Well	106	51-80	Harvest	Shelterwood with Retention	42290 - Natural Mixed Pine	Uneven-Aged	No
<p><u>Prescription</u> Shelterwood with Retention harvest. Mark 20 basal area of pine to retain throughout the stand. In areas with advanced pine regeneration, open these gaps up more by not leaving pine around the perimeter.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> SitePrep, Scarification; Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Red and white pine.</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 stand will be shelterwood cut to release the advanced pine regeneration and 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></p> <p><u>Proposed Start Date:</u> 10/1 /2025</p>										
21 33045021-Cut	13.3	42210 - Natural Pine	Red Sawtimber Medium	100	51-80	Harvest	Shelterwood with Retention	42260 - Natural Pine, Mixed Deciduous	Uneven-Aged	No
<p><u>Prescription</u> Shelterwood with Retention harvest. Mark 20 basal area of pine to retain throughout the stand. In areas with advanced pine regeneration, open these gaps up more by not leaving pine around the perimeter.</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, maple, spruce/fir, aspen, and tamarack.</p> <p><u>Regen:</u></p> <p><u>Other</u> Two aged stand, with mature pine over a moderately stocked understory of red maple, pine, and spruce/fir. This stand is 50% upland/lowland. The stand will be shelterwood cut to release the advanced pine regeneration and opening up the stand will allow for more natural pine regeneration as well. This stand was on contract 030-16-01, but was turned back partially uncompleted.</p> <p><u>Comment:</u></p> <p><u>Site Condition:</u></p> <p><u>Proposed Start Date:</u> 10/1 /2025</p>										
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
<p><u>Prescription</u> Cut all trees greater than three (3) inches at DBH, except hemlock. Mark to retain some pine, spruce, cedar, and birch seed trees. In addition retain the two dense patches of hemlock and the other species within them.</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, maple, birch, spruce/fir, aspen, and ash.</p> <p><u>Regen:</u></p> <p><u>Other</u> 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. 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.</p> <p><u>Comment:</u></p> <p><u>Site Condition:</u></p> <p><u>Proposed Start Date:</u> 10/1 /2025</p>										



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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
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28	33045028-Cut	7.842210 - Natural Red Pine	Sawtimber Well	106	111-140	Harvest	Crown Thinning	42290 - Natural Mixed Pine	Uneven-Aged	No
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Prescription Crown Thinning, following the Variable Density Thinning Concept. The Basal Area will be reduced to 70 to 90. All species other than pine and hemlock greater than three (3) inches will be harvested. A mix of pine in the canopy along with smaller stems will be marked for harvest. Some cavity trees will be retained along with some large diameter pine that can become future cavity trees and retention.

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

Acceptable Red and white pine.
Regen:

Other Mature high quality natural red pine stand. This stand will be thinned to meet the Natural Pine Guidance, following the variable density
Comment: thinning concepts. This stand was prepared as part of the 2016 POW, but it was turned back un-completed.

Site Condition:

Proposed Start Date: 10/1 /2025

29	33045029-Cut	12.5 6115 - Lowland Ash	Poletimber Well	93	111-140	Harvest	Clearcut 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 retain the dense patches of cedar. Also, retain the spruce/fir less than six (6) inches at DBH.

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

Acceptable Maple, pine, spruce/fir, ash, balm, and cedar.
Regen:

Other 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.

Site Condition:

Proposed Start Date: 10/1 /2025

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
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Prescription 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.

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

Acceptable Maple, pine, birch, ash, balm, spruce/fir.
Regen:

Other 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.

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
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34	33045034-Cut	13.2	42290 - Natural Mixed Pine	Sawtimber Well	111	81-110	Harvest	Shelterwood with Retention	42290 - Natural Mixed Pine	Uneven-Aged	No
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Prescription Shelterwood with Retention harvest. Mark 20 basal area of pine to retain throughout the stand. In areas with advanced pine regeneration, open these gaps up more by not leaving pine around the perimeter.

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

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

Other Comment: 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. The stand will be shelterwood cut to release the advanced pine regeneration and opening up the stand will allow for more natural pine regeneration as well. This stand was on contract 33-036-16, but it was turned back un-completed.

Site Condition:

Proposed Start Date: 10/1 /2025

37	33045037-Cut	2.0	6113 - Lowland Maple	Sawtimber Well	94	51-80	Harvest	Clearcut	6139 - Mixed Lowland Forest	Even-Aged	No
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Prescription Cut all trees greater than three (3) inches at DBH. No retention will be retained, due to small stand size.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Regen: Maple, pine, birch, spruce/fir, and ash.

Other Comment: 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.

Site Condition:

Proposed Start Date: 10/1 /2025

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

Other Comment: 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



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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
49 33045049-Cut	41.5	42290 - Natural Mixed Pine	Sawtimber Well	94	111-140	Harvest	Shelterwood with Retention	42290 - Natural Mixed Pine	Uneven-Aged	No
<p><u>Prescription</u> Shelterwood with Retention harvest. Mark 20 basal area of pine to retain throughout the stand. In areas with advanced pine regeneration, open these gaps up more by not leaving pine around the perimeter.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory); SitePrep, Scarification</p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u> Pine, aspen, maple, and spruce/fir.</p> <p><u>Other Comment:</u> Two aged stand with mature pine over a moderately stocked understory 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 stand will be shelterwood cut to release the advanced pine regeneration and opening up the stand will allow for more natural pine regeneration as well. Also the dense areas of red pine will be opened up allowing these areas to regenerate with pine.</p> <p><u>Site Condition:</u></p> <p><u>Proposed Start Date:</u> 10/1 /2025</p>										
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
<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> Aspen, pine, maple, and spruce/fir.</p> <p><u>Other Comment:</u> 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.</p> <p><u>Site Condition:</u></p> <p><u>Proposed Start Date:</u> 10/1 /2025</p>										
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>										



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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
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 Specs:</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>Next Step Treatments:</u> Monitoring, Natural Regen (Re-Inventory)</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 Specs:</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>Next Step Treatments:</u> Monitoring, Natural Regen (Re-Inventory)</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>										
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
<p><u>Prescription Specs:</u> Cut all trees greater than three (3) inches at DBH, except mark to retain some pine seed trees. Leave some pine in clumps.</p> <p><u>Next Step Treatments:</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Acceptable Regen:</u> Aspen, pine, maple, and spruce/fir.</p> <p><u>Other Comment:</u> 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.</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
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
<p><u>Prescription</u> Monitor for regeneration.</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Maple, ash, birch, balm, pine, spruce/fir, cedar, and tamarack.</p> <p><u>Regen:</u></p> <p><u>Other Comment:</u> 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.</p> <p><u>Site Condition:</u></p> <p><u>Proposed Start Date:</u> 10/1 /2025</p>										

Approved Treatments:

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 Comment:</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>Site Condition:</u></p> <p><u>Proposed Start Date:</u> 10/1 /2023</p>										
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 Comment:</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>Site Condition:</u></p> <p><u>Proposed Start Date:</u> 10/1 /2023</p>										



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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
24 33045024-Monitor	39.1	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. 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.</p> <p><u>Comment:</u></p> <p><u>Site Condition:</u></p> <p><u>Proposed Start Date:</u> 10/1 /2023</p>										

Total Treatment 515.6
Acres Proposed:

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							
113	112	0	0	Mixed Upland Deciduous					0		
98	98	0	0	Natural Mixed Pines							
40	23	0	17	Northern Hardwood					17	0	
6	6	0	0	Planted Mixed Pines					0		
181	181	0	0	Red Pine							
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	1,633	86	64	Total Forested Acres	50	36	20	36	0	8	
	92%	5%	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.							



16	Unavailable	3D: Recreational / Scenic values	20	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
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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.



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	42.4	100	171-200	N/A	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. This stand will be thinned to meet the Natural Pine Guidance, following the variable density thinning concepts. This stand was on contract 030-16-01, but was turned back uncompleted. The Cedar River Pathway runs through this stand.																																																						
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2	6127 - Lowland Pine	Poletimber Well	5.4	100	81-110	N/A	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.																																																						
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5	6113 - Lowland Maple	Poletimber Well	9.2	91	111-140	N/A	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.																																																						
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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.																																													
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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.																																													
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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.																																													
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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.
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Canopy Species	% Cover	Size Class	DBH	Age
Black Spruce	40	Sapling	1	15
White Pine	30	Sapling	1	15
Red Maple	5	Sapling	1	15
Tamarack	10	Sapling	1	15
Red Pine	15	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.
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Canopy Species	% Cover	Size Class	DBH	Age
Black Spruce	20	Sapling/Pole	3	30
Red Pine	10	Sapling/Pole/Log	4	40
Quaking Aspen	5	Sapling/Pole	4	30
White Pine	30	Sapling/Pole/Log	4	40
Tamarack	5	Sapling	2	30
Balsam Fir	10	Sapling/Pole	3	30
Red Maple	20	Sapling/Pole	4	30

Sub-Canopy Species	Density	Avg. Height	Size
Michigan Holly	Low	5 - 10 feet	Tall Shrub
Tag Alder	Medium	5 - 10 feet	Tall Shrub

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 stand will be shelterwood cut to release the advanced pine regeneration and opening up the stand will allow for more natural pine regeneration as well.
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Canopy Species	% Cover	Size Class	DBH	Age
White Pine	20	Log/Pole	13	106
Red Pine	80	Log/Pole	14	106

Sub-Canopy Species	Density	Avg. Height	Size
White Pine	Medium	5 - 10 feet	Sapling
Red Pine	Medium	< 5 feet	Sapling
Bigtooth Aspen	Low	10 - 20 feet	Sapling
Red Maple	Medium	10 - 20 feet	Sapling
Balsam Fir	Low	5 - 10 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.
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Canopy Species	% Cover	Size Class	DBH	Age
Black Spruce	5	Pole/Log	8	100
Red Maple	45	Log/Pole	10	100
White Pine	30	Log/Pole	11	100
Red Pine	20	Log/Pole	13	100

Sub-Canopy Species	Density	Avg. Height	Size
White Pine	Medium	10 - 20 feet	Sapling
Balsam Fir	Low	5 - 10 feet	Sapling
Tamarack	Low	5 - 10 feet	Sapling
Red Pine	Low	5 - 10 feet	Sapling
Black Spruce	Medium	5 - 10 feet	Sapling
Michigan Holly	Medium	5 - 10 feet	Tall Shrub
Red Maple	Medium	10 - 20 feet	Sapling



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																							
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. The stand will be shelterwood cut to release the advanced pine regeneration and opening up the stand will allow for more natural pine regeneration as well. This stand was on contract 030-16-01, but was turned back partially uncompleted.																																																							
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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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25	6229 - Mixed lowland shrub	Nonstocked	2.3	0	Unspecified	No	Lowland brush stand with some scattered red maple and white pine poles.																																																							
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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 will be thinned to meet the Natural Pine Guidance, following the variable density thinning concepts. 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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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								
								Red Maple	45	Log/Pole	10	91	Balsam Fir	Low	10 - 20 feet	Sapling								
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								Black Spruce	3	Pole/Log/Sap	7	91	Tag Alder	Low	5 - 10 feet	Tall Shrub								
								Northern White Cedar	2	Pole/Log	8	91	White Pine	Low	10 - 20 feet	Sapling								
								Black Ash	10	Pole/Log	8	91												
								Hemlock	2	Log/Pole	12	91												
								Green Ash	20	Log/Pole	11	91												
								White Pine	8	Log/Pole	15	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
																White Pine	40	Sapling	3	30	Tag Alder	Low	5 - 10 feet	Tall Shrub
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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. The stand will be shelterwood cut to release the advanced pine regeneration and opening up the stand will allow for more natural pine regeneration as well. 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 Pine	55	Log/Pole/Sap	14	111	Balsam Fir	Low	>20 feet	Sapling								
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								White Pine	25	Log/Pole/Sap	13	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		
Quaking Aspen		30	Pole/Sapling	6	30	Beech		Low
Balsam Fir		5	Pole/Sapling	5	65	Sand Cherry		Low
White Pine		10	Pole/Log/Sap	7	65			
Paper Birch		5	Sapling/Pole	4	30			
Red Maple		15	Pole/Sap/Log	5	30			
White Spruce		5	Pole/Sap/Log	6	65			
Red Pine		30	Pole/Log/Sap	9	65			
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				
Green Ash		Low	>20 feet	Pole				
Red Maple		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 Maple		30	Pole/Log	9	92	Michigan Holly		
Bigtooth Aspen		20	Pole/Sapling	7	47	Low		
White Pine		20	Log/Pole/Sap	10	92	5 - 10 feet		
Black Spruce		20	Pole/Sap/Log	6	92	Tall Shrub		
Red Pine		10	Log/Pole	16	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		
Red Maple		2	Pole/Sapling	6	74	Michigan Holly		
White Pine		40	Pole/Sapling	6	30	Medium		
Black Spruce		48	Pole/Sapling	6	74	Low		
Tamarack		10	Pole/Sapling	6	74	5 - 10 feet		
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		
Red Pine		40	Log/Pole	13	92	Balsam Fir		
Paper Birch		8	Pole/Log	8	92	Medium		
Black Spruce		2	Pole/Log/Sap	9	92	Low		
Bigtooth Aspen		35	Pole/Log/Sap	7	40	>20 feet		
White Pine		15	Log/Pole/Sap	13	92	Sapling		



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
Quaking Aspen	35	Sapling	2	15	Tag Alder	Low	5 - 10 feet	Tall Shrub
White Pine	20	Sapling	2	15	Michigan Holly	Low	5 - 10 feet	Tall Shrub
Balsam Fir	11	Sapling	1	15				
Red Pine	2	Sapling	2	15				
White Spruce	5	Sapling	1	15				
White Pine	2	XLog/Log	18	98				

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
Red Maple	10	Sapling	1	6	Tag Alder	Low	5 - 10 feet	Tall Shrub
Quaking Aspen	20	Sapling/Pole	1	6	Blackberry/Raspberry	Medium	< 5 feet	Tall Shrub
Hemlock	5	Log/Pole	14	100				
Balsam Fir	5	Sapling	1	6				
White Pine	55	Pole/Sap/Log	5	38				
Black Spruce	5	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
Northern White Cedar	Low	>20 feet	Pole
Red Maple	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 understory 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
Black Spruce	5	Pole/Sap/Log	9	100	Red Pine	Low	>20 feet	Sapling
White Pine	80	Log/XLog	16	100	Balsam Fir	Medium	>20 feet	Sapling
Red Pine	15	Log/Pole	13	100	Quaking Aspen	Low	>20 feet	Pole
					Michigan Holly	Low	5 - 10 feet	Tall Shrub
					Red Maple	Low	>20 feet	Pole
					Black Spruce	Medium	>20 feet	Sapling
					White Pine	High	>20 feet	Sapling



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments				
49	42290 - Natural Mixed Pine	Sawtimber Well	41.5	94	111-140	N/A	Two aged stand with mature pine over a moderately stocked understory 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 stand will be shelterwood cut to release the advanced pine regeneration and opening up the stand will allow for more natural pine regeneration as well. 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	
Red Maple		5	Pole/Sap/Log	7	94	Red Pine		Low	>20 feet	Sapling	
Bigtooth Aspen		5	Pole/Sap/Log	7		Red Maple		Low	>20 feet	Sapling	
Black Spruce		10	Pole/Sap/Log	7	94	Balsam Fir		Low	10 - 20 feet	Sapling	
White Pine		25	Log/Pole	12	94	White Pine		Medium	>20 feet	Sapling	
Red Pine		55	Log/Pole/XLog	15	94	White Spruce		Low	>20 feet	Sapling	
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.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Paper Birch		2	Pole/Log	9	94	Balsam Fir		Medium	10 - 20 feet	Sapling	
Bigtooth Aspen		65	Pole/Log/Sap	8	56						
White Pine		13	Log/Pole/Sap	12	94						
Red Pine		15	Log/Pole/Sap	12	94						
51	710 - Sand, Soil	Nonstocked	0.9		Unspecified	No	Old sand pit, with some white pine seedlings around the perimeter.				
Sub-Canopy Species		Density	Avg. Height	Size							
White Pine		Low	< 5 feet	Sapling							
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.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Hemlock		10	Log/Pole	13	114	Willow spp.		Medium	5 - 10 feet	Sapling	
White Pine		30	Sapling	1	5	Tag Alder		Low	5 - 10 feet	Tall Shrub	
Northern White Cedar		5	Pole/Log	9	114						
Balsam Fir		25	Sapling	1	5						
Black Spruce		30	Sapling	1	5						
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.				
Canopy Species		% Cover	Size Class	DBH	Age						
White Pine		15	Sapling	1	15						
Balsam Fir		10	Sapling	1	15						
Bigtooth Aspen		65	Sapling	1	5						
White Spruce		10	Sapling	1	15						



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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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.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Balsam Poplar	10	Sapling/Pole	4	30	Tag Alder	Medium		5 - 10 feet	Tall Shrub		
Red Pine	5	Pole/Sapling	6	43	Michigan Holly	Low		5 - 10 feet	Tall Shrub		
Northern White Cedar	3	Log/Pole	11	112							
Black Spruce	15	Sapling/Pole	3	30							
Balsam Fir	5	Sapling/Pole/Log	3	30							
Black Ash	2	Pole/Sapling	7	112							
White Pine	35	Pole/Sap/Log	6	43							
Red Maple	25	Sapling/Pole/Log	3	30							

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	
Black Ash	20	Pole/Log/Sap	8	98	Michigan Holly	Medium		5 - 10 feet	Tall Shrub		
Red Maple	30	Pole/Log/Sap	9	98	Tag Alder	Medium		5 - 10 feet	Tall Shrub		
Paper Birch	5	Pole/Log	9	98							
Black Spruce	10	Pole/Log	9	98							
Northern White Cedar	25	Log/Pole	11	98							
Tamarack	5	Pole/Log/Sap	9	98							
Balsam Fir	5	Pole/Sap/Log	7	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							
Hemlock	70	Log/Pole	12	107							
Northern White Cedar	15	Log/Pole	10	107							
Paper Birch	5	Pole/Log	9	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	
Balsam Fir	10	Pole/Sapling	5	45	Tag Alder	Low		5 - 10 feet	Tall Shrub		
Red Maple	30	Pole/Sapling	5	45	Michigan Holly	Low		5 - 10 feet	Tall Shrub		
Black Spruce	15	Pole/Sapling	6	45							
Quaking Aspen	5	Pole/Sapling	5	45							
Red Pine	10	Pole/Log/Sap	7	45							
White Pine	30	Pole/Sap/Log	6	45							



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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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 understory 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
Green Ash	5	Log	12	100	White Spruce	Low	10 - 20 feet	Sapling
Hemlock	20	Log/Pole	13	100	White Pine	Medium	10 - 20 feet	Sapling
Red Maple	25	Log/Pole	13	100	Red Maple	Low	10 - 20 feet	Sapling
White Pine	5	XLog/Log	18	100	Willow spp.	Low	< 5 feet	Sapling
Northern White Cedar	45	Log/Pole	11	100	Tag Alder	Medium	5 - 10 feet	Tall Shrub
					Balsam Fir	Medium	10 - 20 feet	Sapling

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				
Black Spruce	40	Pole/Sapling	6	51				
Green Ash	5	Pole/Sapling	6	51				
Balsam Poplar	3	Pole/Sapling	5	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
Hemlock	10	Log/Pole	12	112	Willow spp.	Low	5 - 10 feet	Tall Shrub
Balsam Fir	30	Sapling/Pole	4	27	Tag Alder	Medium	5 - 10 feet	Tall Shrub
Northern White Cedar	5	Pole/Log	9	112				
Black Spruce	10	Sapling/Pole	4	27				
White Pine	25	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
White Spruce	10	Sapling	1	16	Willow spp.	Low	5 - 10 feet	Sapling
White Pine	25	Sapling	1	16	Tag Alder	Medium	5 - 10 feet	Tall Shrub
Red Pine	5	Log/Pole/Sap	15	105	Tamarack	Low	>20 feet	Sapling
Balsam Fir	15	Sapling	1	16				
Red Maple	15	Log/Pole/Sap	13	105				
Quaking Aspen	30	Sapling	1	16				



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																		
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.																																																		
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Blackberry/Raspberry	Low	5 - 10 feet	Tall Shrub																																																						
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.
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Red Maple		10	Pole/Sapling	5	37	Sand Cherry	
Balsam Fir		10	Pole/Sapling	5	37	Low	
White Pine		20	Pole/Sap/Log	5	37	5 - 10 feet	
Hemlock		5	Log/Pole	13	105	Tall Shrub	
White Spruce		10	Pole/Sapling	5	37	Beech	
Bigtooth Aspen		45	Pole/Sap/Log	7	37	Low	
						10 - 20 feet	
						Sapling	
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.
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Black Cherry		2	Pole/Log	9	90	Tag Alder	
Red Maple		25	Log/Pole	11	90	Low	
Paper Birch		15	Log/Pole	10	90	5 - 10 feet	
Balsam Fir		5	Pole/Log/Sap	9	90	Tall Shrub	
Quaking Aspen		5	Log/Pole	12	90		
White Pine		20	Log/Pole/Sap	13	90		
Northern White Cedar		18	Log/Pole	11	105		
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.
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Quaking Aspen		40	Sapling	1	8	Tag Alder	
Balsam Fir		15	Sapling	1	8	Low	
Red Maple		5	Sapling	1	8	5 - 10 feet	
Jack Pine		15	Sapling	1	8	Tall Shrub	
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.
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
White Spruce		5	Pole/Sap/Log	8	69	Michigan Holly	
Quaking Aspen		10	Pole/Log/Sap	7	48	Low	
Hemlock		5	Log/Pole	14	105	5 - 10 feet	
Red Pine		15	Log/Pole	12	105	Tall Shrub	
Red Maple		25	Pole/Log	9	105		
Balsam Fir		10	Pole/Sap/Log	8	69		
White Pine		30	Pole/Log/Sap	9	69		



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																											
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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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.																																											
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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.																																											
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75	42350 - Upland Hemlock	Sawtimber Well	7.9	126	201+	N/A	Dense hemlock stand with very few other species.																																											
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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
Balsam Fir	5	Pole/Sap/Log	7	93	Michigan Holly	Medium	5 - 10 feet	Tall Shrub
Northern White Cedar	20	Log/Pole	10	93	Tag Alder	Low	5 - 10 feet	Tall Shrub
Tamarack	5	Pole/Sap/Log	8	93				
Black Ash	30	Pole/Sap/Log	8	93				
Red Maple	20	Pole/Log	9	93				
White Pine	5	Log/Pole/Sap	14	93				
Paper Birch	5	Pole/Log	8	93				
Black Spruce	10	Pole/Log/Sap	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
Balsam Fir	5	Sapling	1	7				
Red Maple	23	Sapling	1	7				
White Spruce	5	Sapling	1	7				
Red Pine	35	Sapling	1	7				
White Pine	30	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
Quaking Aspen	5	Sapling	2	14	Blackberry/Raspberry	Medium	5 - 10 feet	Tall Shrub
Balsam Fir	5	Sapling	1	14	Michigan Holly	Low	5 - 10 feet	Tall Shrub
Red Maple	25	Sapling	1	14	Tag Alder	Low	5 - 10 feet	Tall Shrub
Black Spruce	10	Sapling	1	14				
Red Pine	15	Sapling	1	14				
White Pine	40	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 Pine	25	Pole/Sap/Log	5	32	Tag Alder	Low	5 - 10 feet	Tall Shrub
White Pine	30	Pole/Sap/Log	5	32				
Hemlock	5	Log/Pole	14	105				
Red Maple	10	Sapling/Pole	4	32				
Quaking Aspen	10	Sapling/Pole	4	32				
White Spruce	10	Sapling/Pole	4	32				
Balsam Fir	10	Sapling/Pole	4	32				



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
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
	Black Ash	50	Pole/Sap/Log	8	85	White Pine	Low	5 - 10 feet	Sapling
	Yellow Birch	2	Pole/Log	9	85				
	Red Maple	30	Pole/Log	9	85				
	Black Spruce	3	Pole/Log/Sap	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				
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	White Spruce	Low	5 - 10 feet	Sapling
	White Pine	5	Log/Pole/Sap	14	80	Jack Pine	Low	10 - 20 feet	Sapling
						Balsam Fir	Medium	5 - 10 feet	Sapling
						Quaking Aspen	Low	10 - 20 feet	Sapling
82	500 - Water	Nonstocked	12.6		Unspecified	No	Big Cedar River		
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
	Sugar Maple	45	Log/Pole	11	100	Ironwood	Low	< 5 feet	Sapling
	Paper Birch	5	Log/Pole	10	100	White Pine	Low	5 - 10 feet	Sapling
	Beech	5	Log/Pole	10	100	Blackberry/Raspberry	Low	5 - 10 feet	Tall Shrub
	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
	Northern White Cedar	2	Log/Pole	10	98	Blackberry/Raspberry	Medium	5 - 10 feet	Tall Shrub
	Quaking Aspen	10	Sapling	3	15	Beech	Low	10 - 20 feet	Sapling
	Balsam Fir	5	Sapling	1	15	Tag Alder	Medium	5 - 10 feet	Tall Shrub
	Hemlock	3	Log/Pole	10	98				
	Green Ash	10	Sapling	1	15				
	White Pine	25	Sapling/Pole/Log	2	30				



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	
Bigtooth Aspen		5	Sapling	3	25	Hemlock		Low	5 - 10 feet	Sapling	
Red Maple		2	Sapling	1	12	Beech		Low	5 - 10 feet	Sapling	
Hemlock		10	Log/Pole	13	105						
White Pine		30	Sapling/Pole/Log	4	25						
Red Pine		35	Sapling/Pole/Log	4	25						
Balsam Fir		10	Sapling	2	25						
White Spruce		8	Sapling	2	25						

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	
White Pine		20	Sapling/Pole	4	30	Willow spp.		Low	5 - 10 feet	Sapling	
Balsam Poplar		10	Sapling	1	7	Blackberry/Raspberry		Medium	5 - 10 feet	Tall Shrub	
White Spruce		10	Sapling	1	7	Northern White Cedar		Low	< 5 feet	Sapling	
Balsam Fir		20	Sapling	1	7						
Northern White Cedar		20	Pole/Log	9	125						
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