



Compartment Review Presentation

Escanaba Forest Management Unit

Compartment 33034

Entry Year: 2026

Acreage: 1,457

County: Menominee

Management Area: Green Bay

Stand Examiner: Dan Beaudou

Legal Description:

T37N R 25W Sections 23-27

Identified Planning Goals:

Many of the stands treated during the last Year Of Entry (YOE) cycle had forest health issues. Mixed conifer and lowland deciduous stands were treated during the last cycle addressing forest health concerns with the Eastern Larch Beetle(ELB), Spruce Budworm(SBW), and Emerald Ash Borer(EAB). The SBW initiative affected both upland and lowland stand types. ELB and EAB were primarily in lowland stands. Beech Bark Disease scale has recently been identified in the hardwood stands. Hardwood thinning's this cycle will address the increased prevalence of BBD and EAB. There will be 129 forested acres being treated this inventory cycle.

The largest forested cover type in this compartment is lowland spruce/fir due to the 7 Mile Marsh spruce bog in the eastern portion of this compartment. No management within lowland spruce/fir will take place this year of entry.

Aspen is the second most prevalent cover type in this compartment. Age class diversity will be maintained and promoted by clearcutting 38 acres for aspen regeneration.

Cedar is the third most abundant cover type with Hemlock being the fourth. The 3L site condition has been placed on the cedar and hemlock stands due to the higher concentration of cedar and/or hemlock in the stands and how the Deer Wintering Guidelines affect management of these stands.

The northern hardwoods make up a small portion of the compartment. About half of the acreage is recommended for thinning but access through private is unknown at this time. Ash and beech will be targeted more heavily than normal due to the looming mortality that quickly sets in by EAB and BBD.

The rest of the stands are of mixed species. Seven acres of lowland deciduous will be clearcut to promote ash, aspen and red maple regeneration. Thirteen acres of natural pine seed tree will be temporarily held until the natural pine management guidance is decided upon. Thirty nine acres of mixed upland will be shelterwood treated promoting mixed forest regeneration.

Grass opening maintenance will be addressed during the cycle as funding and time allow.

Monitoring treatments remain on stands that are slow to regenerate like the lowland conifers.

Soil and topography:

The topography is level with drops in elevation to the swamps and lowland areas. The soil types in this compartment include; Deford poorly drained, Lupton Muck very poorly drained, Wainola fine sand somewhat poorly drained, Deford mucky fine sand poorly drained, Arnheim poorly drained. The prominent soil series in this compartment is DefordThe topography is level with drops in elevation to the swamps and lowland areas. The soil types in this compartment include; Deford poorly drained, Lupton Muck very poorly drained, Wainola fine sand somewhat poorly drained, Deford mucky fine sand poorly drained, Arnheim poorly drained. The prominent soil series in this compartment is DefordThe topography is level with drops in elevation to the swamps and lowland areas. The soil types in this compartment include; Deford poorly drained, Lupton Muck very poorly drained, Wainola fine sand somewhat poorly drained, Deford mucky fine sand poorly drained, Arnheim poorly drained. The prominent soil series in this compartment is DefordThe topography is level with drops in elevation to the swamps and lowland areas. The soil types in this compartment include; Deford poorly drained, Lupton Muck very poorly drained, Wainola fine sand somewhat poorly drained, Deford mucky fine sand poorly drained, Arnheim poorly drained. The prominent soil series in this compartment is Deford

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

Private land ownership surrounds the compartment on 3 sides with the east side butting up against a larger block of State land. This is a rural area with minor development at this time. Private property owners either have a residence or a seasonal camp on their property. Land use around the compartment includes recreation and timber management.

Unique Natural Features:

No Unique Natural Features known.

Archeological, Historical, and Cultural Features:

No Archeological, Historical, or Cultural Features known.

Special Management Designations or Considerations:

Special conservation areas are designated for riparian corridors along the Big Cedar River and Degrares Creek.

Watershed and Fisheries Considerations:

33034: This compartment has Degrares Creek which flows into the Cedar River. It is a Designated Type 1 Trout Stream, however it is classified as a warm transitional stream. There is a cut proposed in Stand 17 that has an adequate buffer to the Cedar River. There is a cut proposed in Stand 6 that also has an adequate buffer to Degrares Creek. If any treatments are near a wetland area, best management practices should be incorporated which include a 100' buffer.

Wildlife Habitat Considerations:

This compartment is large (1,457 acres) and diverse, with the largest cover types being lowland spruce/fir (24%), aspen (23%), and cedar (16%). 129 acres of forest treatments are proposed for this YOE, representing about 9% of the compartment. Proposed treatments shelterwood treatments in natural and mixed pine stands (47 ac.), single tree selection in northern hardwood stands (33 ac.), clearcuts in aspen and lowland deciduous forest stands (37 ac.), and seed tree treatments in natural and mixed pine stands (13 ac.). 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

Compartment 34: T37N-R24W and sections 23-27, T37N-R25W, Menominee County
No known potential exists for commercial oil & gas production in this part of the state. The nearest active sand & gravel operation is just over one mile north. Most of the compartment consists of low wetlands, which would inhibit surface mining. Some remote geophysical surveys covering this area have been conducted, but there is no evidence of past mineral test drilling in the area. There may be potential for iron ore or other metallic and critical minerals beneath the compartment, but they would occur 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:

The main access to this compartment is off the 7 mile marsh road and County Road 551. There is presently good vehicle access with permission required for access through private lands for some of the treatments prescribed.

Survey Needs:

Most of the survey corners have been established in this compartment. There is one survey corner at the 1/16 east of Center, Section 23, that would be needed for timber sale preparation.

Recreational Facilities and Opportunities:

The compartment provides opportunity for outdoor activity such as forage picking, hiking, hunting, fishing and trapping with no developed recreational sites.

Fire Protection:

The majority of the forest types are not prone to creating large fires or the stands are small that would have potential for fire. The tall white pine trees are known to attract lightning. There was a lightning strike fire a couple decades ago but no recent activity. Timber management has mitigated severity of wildfire in the area. The Big Cedar River and Degrares Creek provides a good water source along with good vehicle access to this compartment. There is low to moderate fire danger throughout this compartment except for some scattered pine types and private lands.

Additional Compartment Information:

The following reports from the Inventory are attached:

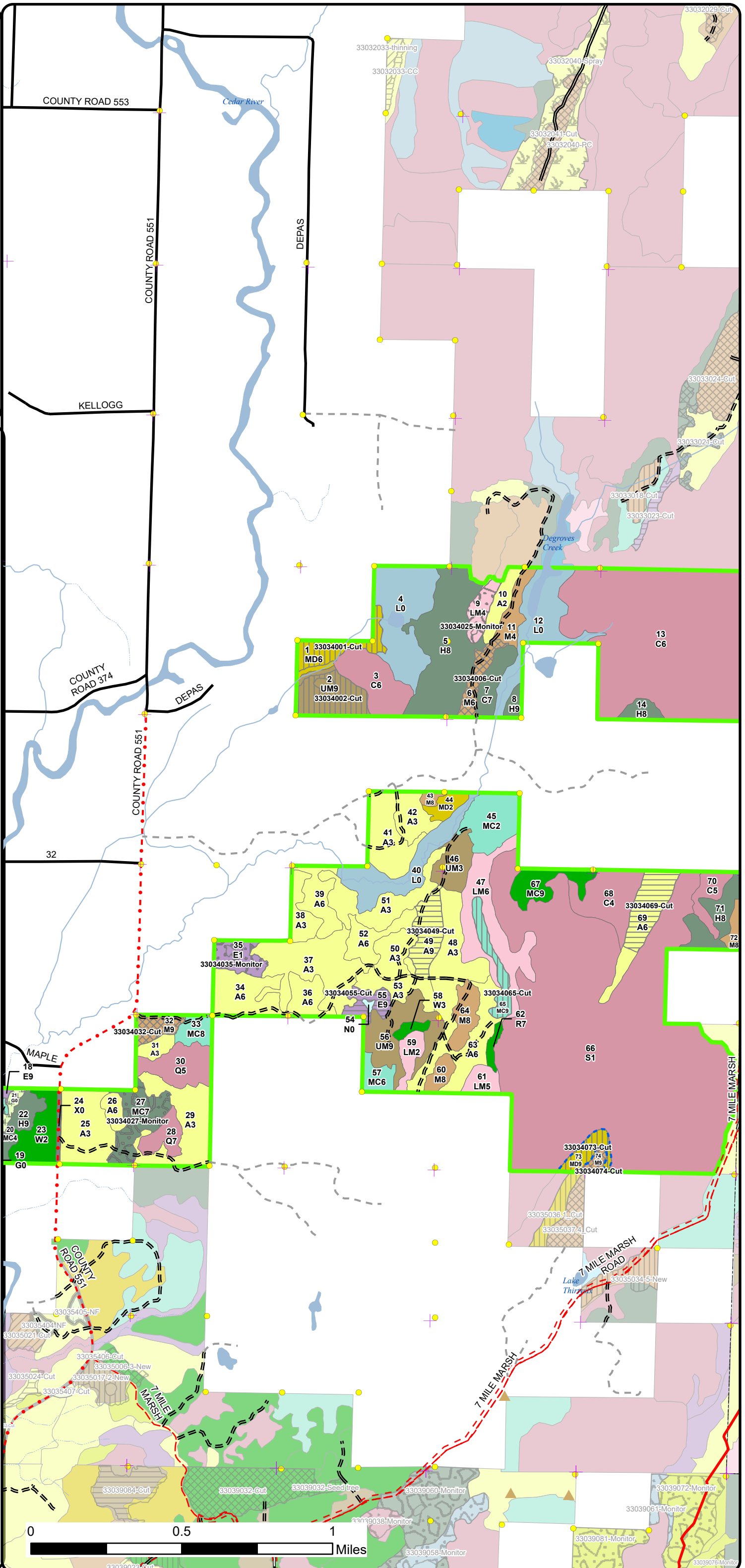
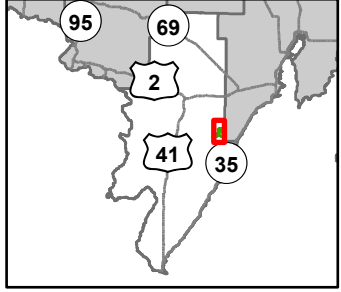
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

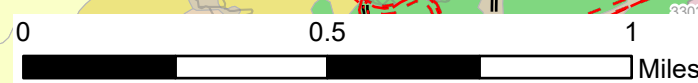
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

Cover Type & Treatments Map

Compartment: 33034
 T37N, R25W, Sec: 23-27
 County: Menominee
 Unit: Escanaba
 Mgmt Area: Green Bay
 YOY: 2026
 Acres: 1456.8 GIS Calculated
 Examiner: Dan Beaudou
 Map Revised: 10/10/2024
 Map Phase: Post Review

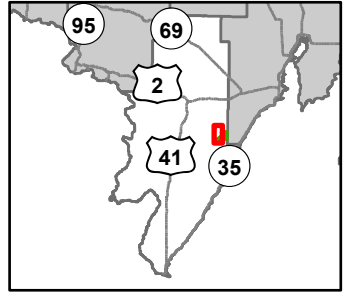


- == Designated ORV Routes
- Designated ATV Trails
- + Remonumented Section Corners
- Survey Grade Corners
- ▲ Berms
- DNR - Primary Forest Road
- DNR - Secondary Forest Road
- = DNR - Forest Access Route
- Federal / State / County - Paved Road
- - - County - Gravel Road
- - - County - Dirt Road (Seasonal)
- - - Private - Dirt / Gravel Road
- Intermittent Stream
- Island in Lake or River
- Lake/Pond
- Perennial River
- Lakes and Rivers
- Compartment Boundary
- Treatments with Site Conditions
- Other Treatment - See Comments
- Selection (Group, Single Tree)
- Clearcut (w/Reserves)
- Regeneration Survey
- Shelter Wood (w/Reserves)
- 411 - Northern Hardwood
- 413 - Aspen Types
- 419 - Mixed Upland Deciduous
- 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
- 122 - Roads/Parking Lot
- 310 - Herbaceous Openland
- 622 - Lowland Shrub
- 623 - Emergent Wetland

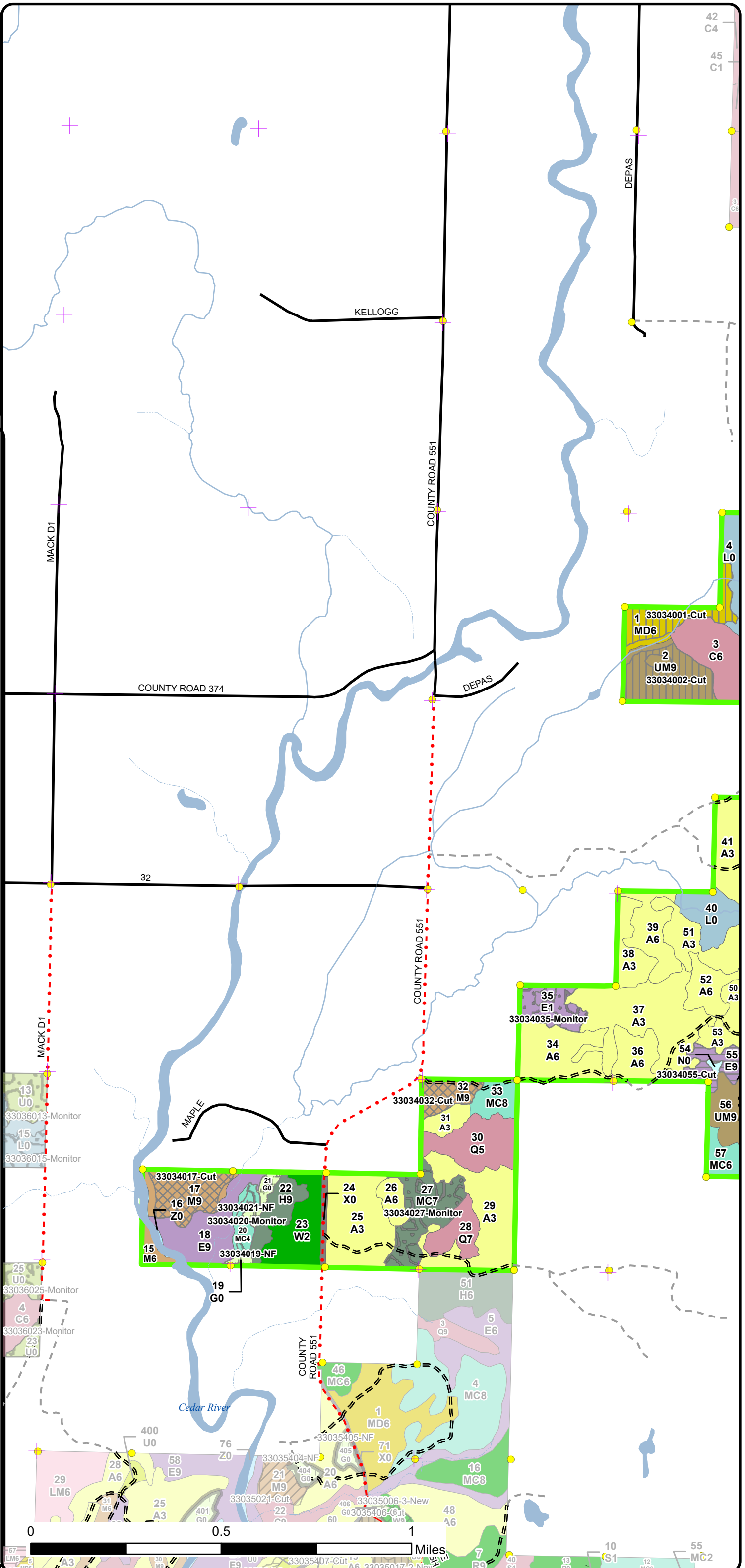


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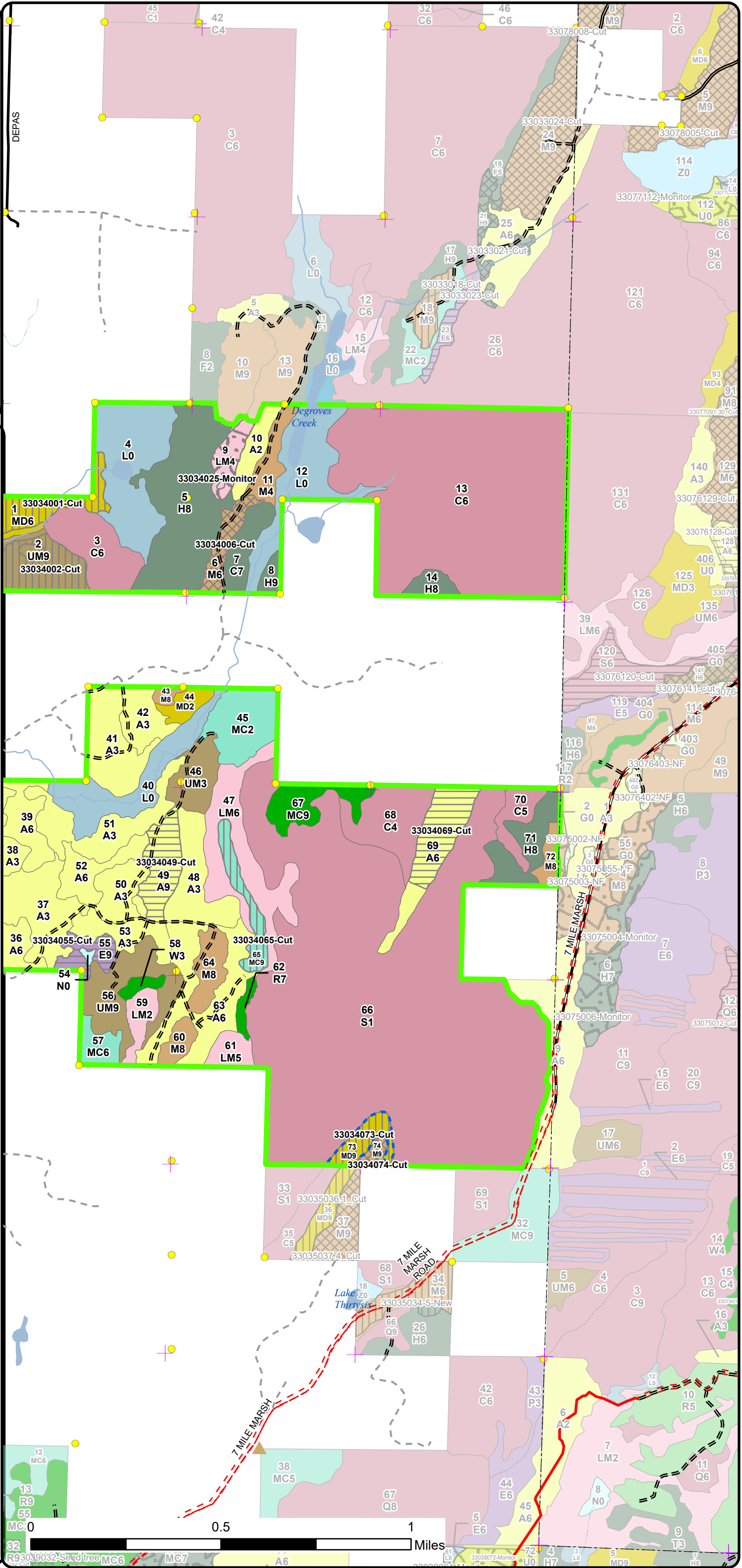
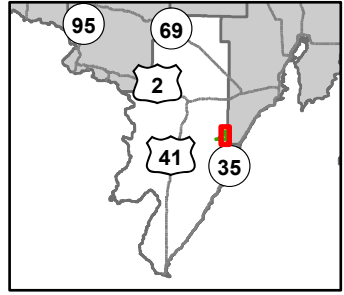


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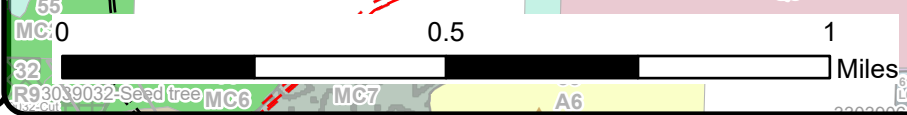


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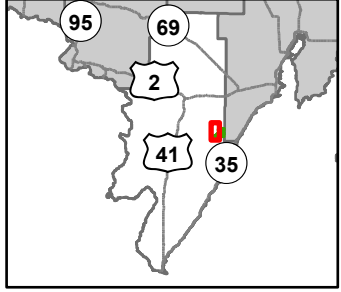


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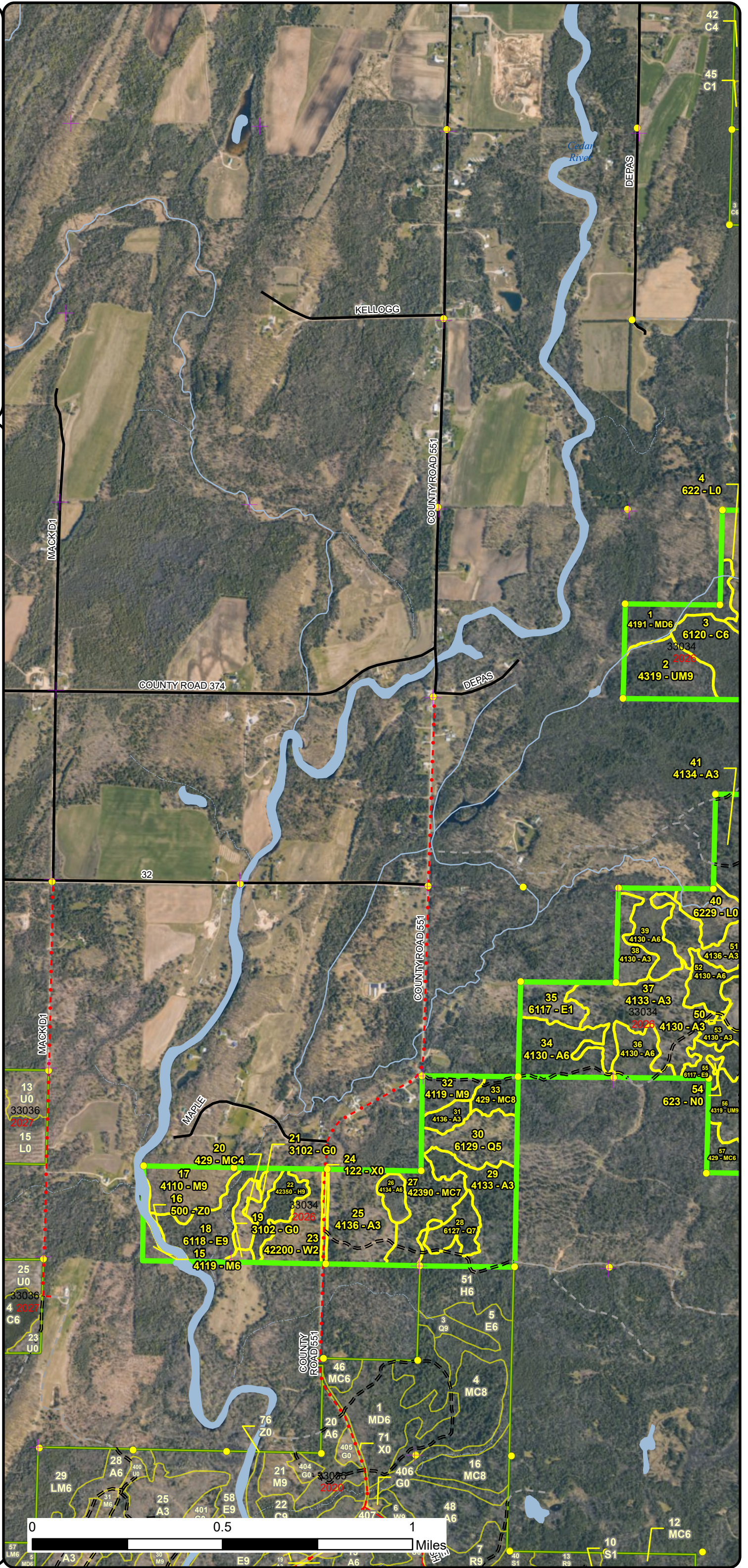


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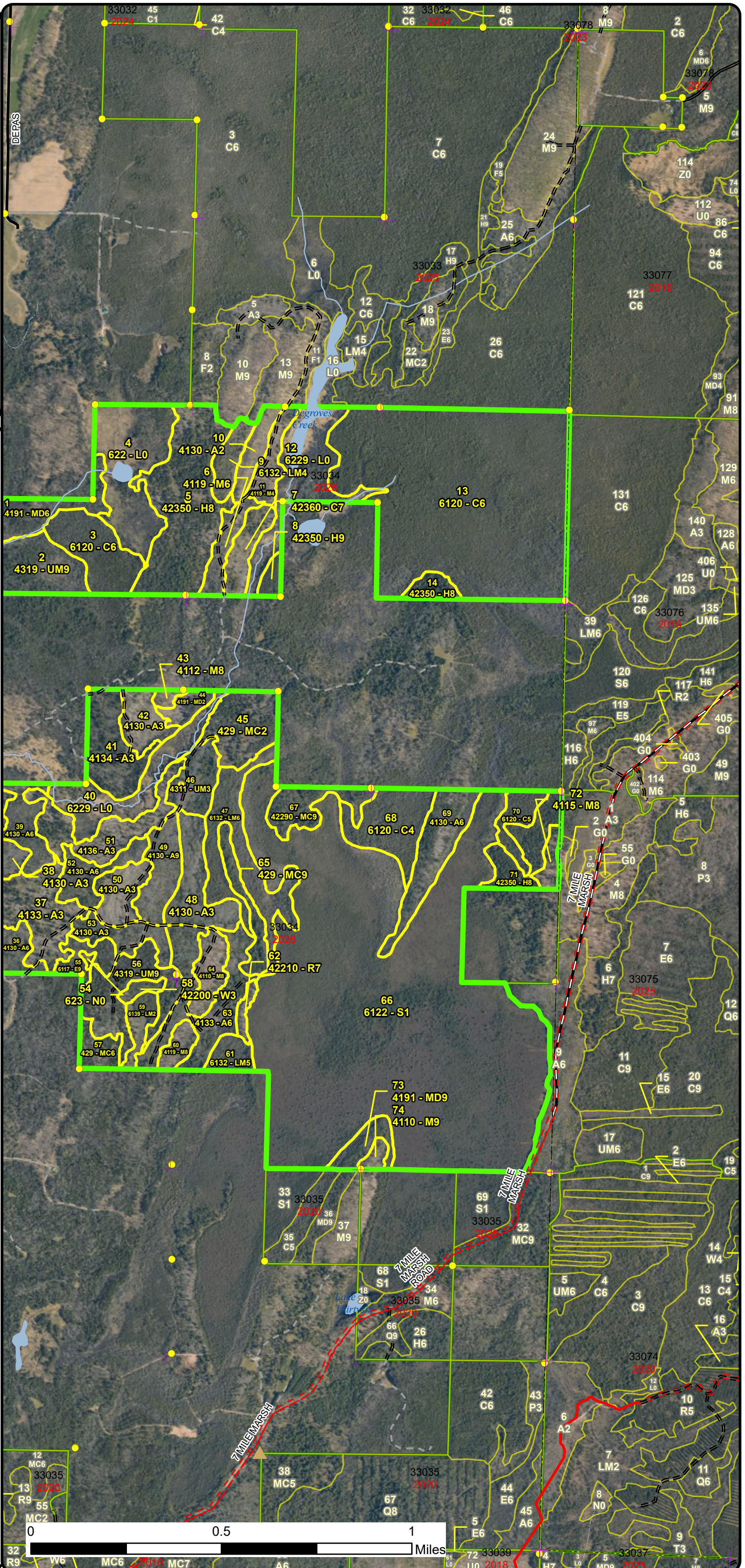
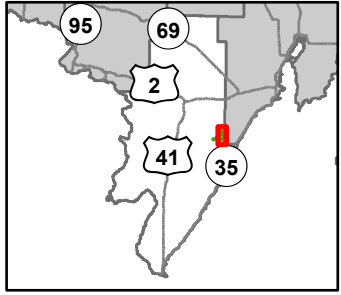


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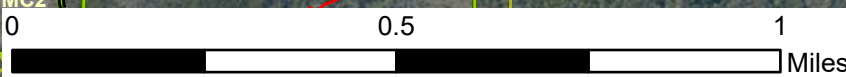


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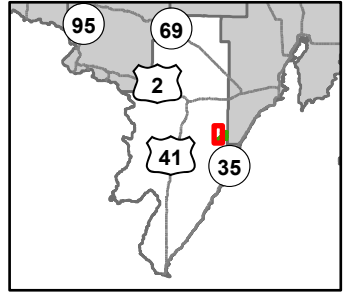


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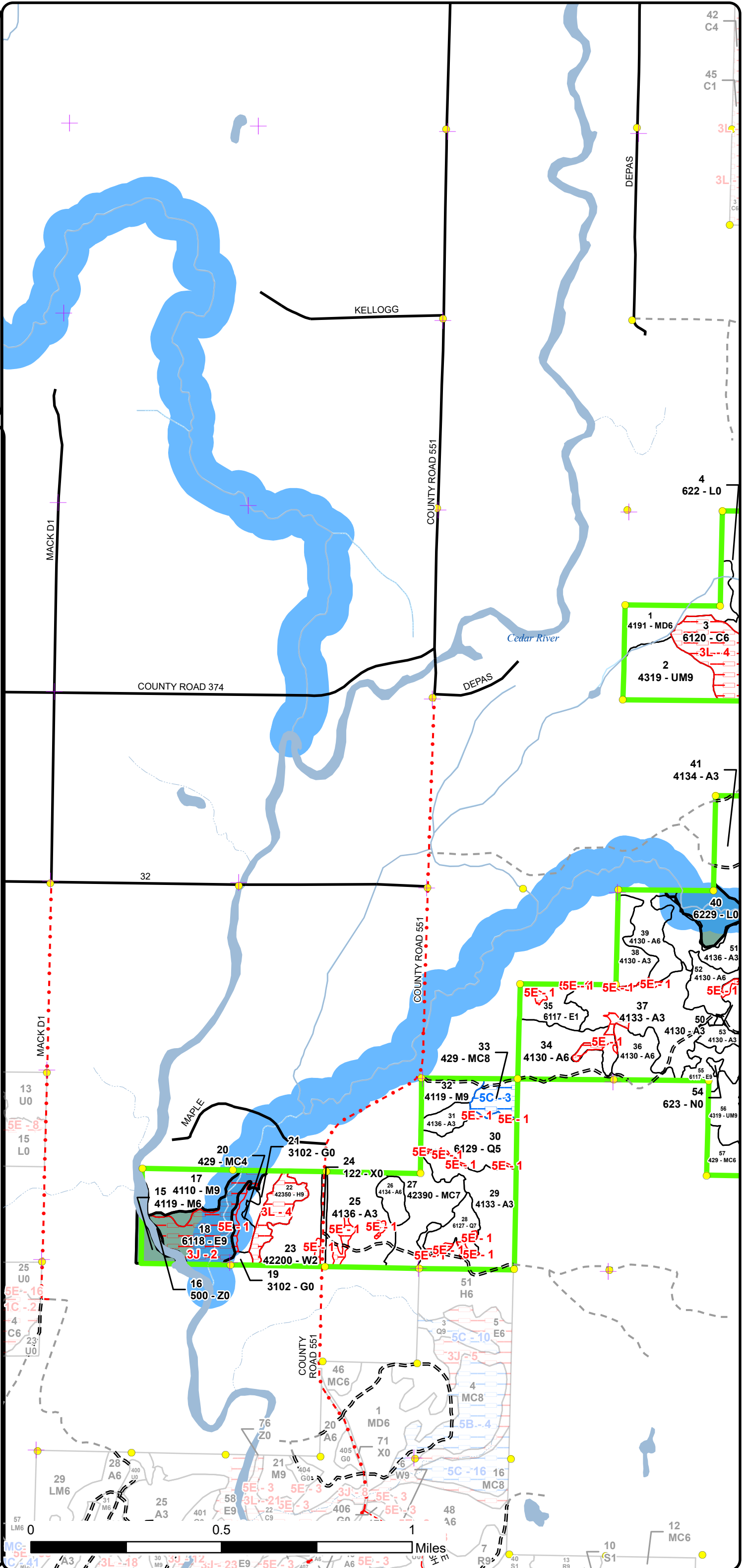


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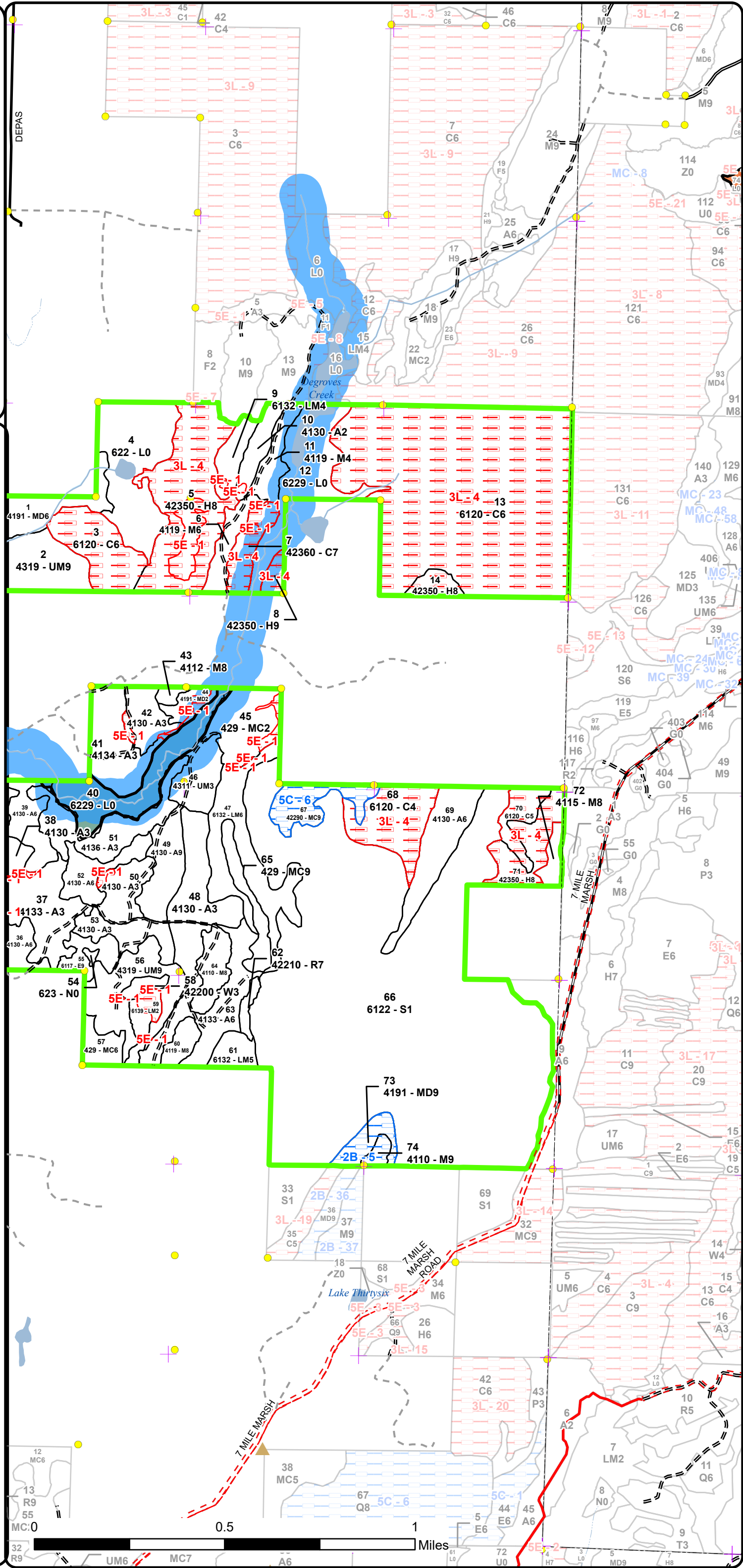
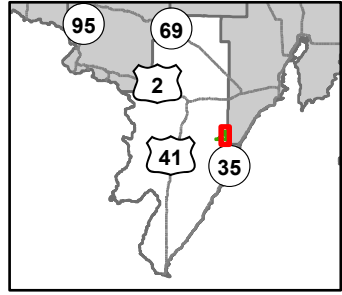


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- SCA
- Available w/ Constraints
- Unavailable
- 5C: Delay treatment for age/size class diversity or exceptional site quality
- 3J: Water quality / BMPs (stream, river, or lake)
- 3L: Other wildlife concerns
- 5E: Long-Term Retention
- Available w/ Constraints
- Unavailable
- Stand Boundaries
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- Cold Water Streams
- High Priority Trout Stream Buffer
- Vernal Pool



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- Vernal Pool
- Other Habitat 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	51	30	34	94	36	21	0	0	0	0	0	0	0	0	0	0	62	327
Cedar	0	0	0	0	0	0	0	0	0	0	0	8	0	224	0	0	0	0	232
Hemlock	0	0	0	0	0	0	0	0	0	0	0	5	69	9	0	0	0	0	83
Herbaceous Openland	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5
Lowland Conifers	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	26	25
Lowland Deciduous	0	10	0	0	0	7	0	0	0	0	18	0	0	0	0	0	0	0	35
Lowland Mixed Forest	0	7	0	0	0	0	0	0	0	0	0	6	40	0	0	0	0	0	53
Lowland Shrub	91	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	91
Lowland Spruce/Fir	0	0	0	0	0	0	0	352	0	0	0	0	0	0	0	0	0	0	352
Marsh	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Mixed Upland Deciduous	0	5	0	0	0	0	0	0	8	0	14	0	0	0	0	0	0	0	27
Natural Mixed Pines	0	0	0	0	0	0	0	0	0	0	0	0	13	0	0	0	0	0	13
Northern Hardwood	0	0	0	0	0	0	0	0	12	35	18	0	0	0	0	0	0	5	69
Red Pine	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	3
Upland Conifers	0	0	0	26	0	0	0	5	0	0	0	0	25	0	0	9	0	0	65
Upland Mixed Forest	0	0	0	0	12	0	0	0	0	0	20	0	24	0	0	0	0	0	56
Urban	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
Water	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
White Pine	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	16	19
Total	102	73	30	63	106	43	21	357	23	35	70	19	171	233	0	9	0	109	1461



Report 2 – Treatment Summary

Escanaba Mgt. Unit

Year of Entry: 2026

Acres of Harvest

Compartment 34

Total Compartment Acres: 1,457

Commercial Harvest - 107
 Harvests with Site Condition - 10
 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	30	0	0	0	0	0	0	0	0	30
Lowland Deciduous	7	0	0	0	0	0	0	0	0	7
Mixed Upland Deciduous	0	0	0	0	20	0	0	0	0	20
Northern Hardwood	0	33	0	0	0	0	0	0	0	33
Upland Conifers	0	0	0	0	9	0	0	0	0	9
Upland Mixed Forest	0	0	0	0	17	0	0	0	0	17
Total	37	33	0	0	47	0	0	0	0	117

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	117	0	0	0	0	0	39	0	5	160
Next Step	0	0	0	0	0	0	117	0	0	117
Total	117	0	0	0	0	0	155	0	5	277



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	33034001-Cut	12.7	4191 - Mixed Upland Deciduous with Conifer	Poletimber Well	94	111-140	Harvest	Shelterwood	4319 - Mixed Upland Forest	Uneven-Aged	No
<p><u>Prescription Specs:</u> Shelterwood treatment cutting all trees greater than 3" except leave hemlock and a mix of large seed trees. Buffer creek along the south stand line. There is a stream mapped in the central and east portion of the stand but no channel was seen walking that area, just sheet flow. If a stream channel is encountered during timber sale preparation, then apply 30' buffer. Due to forest health issue with ash, narrow buffer from 100' to 30'. The pond in stand 4 has outlet on south end flowing south through stand 4 around stand 1 into stand 3 west to stand line between 1 and 2.</p> <p><u>Next Step Treatments:</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Acceptable Regen:</u> Species within the canopy layers.</p> <p><u>Other Comment:</u> This stand is in deer conditional range and has a canopy composition of 10% hemlock and 5% 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>This is a mature stand that does not appear like any recent management has taken place. Cutting the cedar will allow for operability and slash in the lowland wet area along the private property line between upland areas. Cedar trees will remain on both side of this narrow strip. Cedar harvest in the stand are estimated at 50 cord, which should allow for operating without having to cut hemlock.</p> <p>The shelterwood system lies somewhere in between the visual extremes of clearcutting and selection management. The parent forest is removed in several stages, with each stage successively establishing optimum environmental conditions for tree regeneration and then nursing the regeneration along to a point where the remaining parent forest can be harvested. Red oaks and white pine stands will often benefit from shelterwood harvesting.</p> <p><u>Site Condition:</u></p> <p><u>Proposed Start Date:</u> 10/1 /2025</p>											
2	33034002-Cut	17.4	4319 - Mixed Upland Forest	Sawtimber Well	93	141-170	Harvest	Shelterwood	4319 - Mixed Upland Forest	Uneven-Aged	No
<p><u>Prescription Specs:</u> Cut all trees greater than 3" dbh except leave hemlock, 20 basal area of pine where found in western portion of stand, a mix of seed trees and denser cedar patch in northern portion of stand.</p> <p><u>Next Step Treatments:</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Acceptable Regen:</u> Species within the canopy layers.</p> <p><u>Other Comment:</u> This stand is in deer conditional range and has a canopy composition of 15% hemlock and 5% 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 85 cords.</p> <p>This is a mature stand with the lack of past management. Short lived species are dying out. Estimated 85 cord of cedar to be harvested, which will allow for operating amongst the hemlock.</p> <p>The shelterwood system lies somewhere in between the visual extremes of clearcutting and selection management. The parent forest is removed in several stages, with each stage successively establishing optimum environmental conditions for tree regeneration and then nursing the regeneration along to a point where the remaining parent forest can be harvested. Red oaks and white pine stands will often benefit from shelterwood harvesting.</p> <p><u>Site Condition:</u></p> <p><u>Proposed Start Date:</u> 10/1 /2025</p>											



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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6	33034006-Cut	8.6	4119 - Mixed Northern Hardwoods	Poletimber Well	94	81-110	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven- Aged	No
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Prescription Selection thin stand according to the Compleat Marker bringing the basal area to 50-70. Cut all ash, balsam fir, spruce and ironwood 3" dbh and greater. Do not cut hemlock. Cedar (about 5 cord) may be cut to bring basal area into target residual basal area.

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

Acceptable Species in the canopy layers.
Regen:

Other Selection thin stand according to the Compleat Marker. Stand could use a light thinning to remove trees showing signs of mortality and
Comment: reduce growing competition. The tops of birch are noticeably dying.

Selection harvesting may be the most misunderstood system and is certainly the most complex. When stands of trees become overly dense, forest health risks increase. Removing the higher-risk trees and leaving the trees with higher potential improves the quality and character of the forest. The partially-opened canopy allows enough light to accelerate individual tree health, vigor and allows seedlings to grow. The young trees eventually replace the older trees as the older trees either die or are harvested.

Northern hardwood stands are recommended to be thinned at least every 15 years to improve health, productivity and stimulate regeneration

Site Condition:

Proposed Start Date: 10/1 /2025

17	33034017-Cut	14.4	4110 - Sugar Maple Association	Sawtimber Well	88	111- 140	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven- Aged	No
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Prescription Selection thin hardwood according to the Compleat Marker guidelines. Leave a buffer along the Cedar River and Degraeves Creek. Due to
Specs: close proximity with Big Cedar River and Degraeves Creek, wood turtles may utilize this stand during their active season. Therefore, add winter cutting only spec to help protect the species during the active season.

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

Acceptable Species within the canopy layers.
Regen:

Other This is a mature northern hardwood stand that has not been treating for some time. Unknown access through Private Property to the north.
Comment:

Selection harvesting may be the most misunderstood system and is certainly the most complex. When stands of trees become overly dense, forest health risks increase. Removing the higher-risk trees and leaving the trees with higher potential improves the quality and character of the forest. The partially-opened canopy allows enough light to accelerate individual tree health, vigor and allows seedlings to grow. The young trees eventually replace the older trees as the older trees either die or are harvested.

Northern hardwood stands are recommended to be thinned at least every 15 years to improve health, productivity and stimulate regeneration

Site Condition:

Proposed Start Date: 10/1 /2025

19	33034019-NF	1.2	3102 - Grass	Nonstocked		Unspec ified	NonForestMgt	Other - Specify	310 - Herbaceous Openland		No
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Prescription Prescribed fire, farming (dozing, disking, raking, herbiciding, seeding (native or naturalized species only), fertilizing and liming, brushhog/saw
Specs: removal of competing trees and establishment of native hard and soft mast producers such as red oak, crabapple or others

Next Step
Treatments:

Acceptable
Regen:

Other No work has been done here in the last decade
Comment:

Site Condition:

Proposed Start Date: 8 /30/2024



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	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
21	33034021-NF	3.4	3102 - Grass	Nonstocked		Unspecified	NonForestMgt	Other - Specify	310 - Herbaceous Openland		No
<p><u>Prescription Specs:</u> Prescribed fire, farming (dozing, disking, raking, herbiciding, seeding (native or naturalized species only), fertilizing and liming, brushhog/saw removal of competing trees and establishment of native hard and soft mast producers such as red oak, crabapple or others</p> <p><u>Next Step Treatments:</u></p> <p><u>Acceptable Regen:</u></p> <p><u>Other Comment:</u> No work has occurred here in the last decade</p> <p><u>Site Condition:</u></p> <p><u>Proposed Start Date:</u> 8 /30/2024</p>											
32	33034032-Cut	7.4	4119 - Mixed Northern Hardwoods	Sawtimber Well	93	141-170	Harvest	Single Tree Selection	4319 - Mixed Upland Forest	Uneven-Aged	No
<p><u>Prescription Specs:</u> Selection thin stand to around 50-70 basal area. Leave all aspen and hemlock, also leave pine greater than 24" dbh. Cut all ash, balsam fir, spruce and ironwood greater than 3" dbh.</p> <p><u>Next Step Treatments:</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Acceptable Regen:</u> Species in the canopy layers.</p> <p><u>Other Comment:</u> This is a small stand that would most likely be heavily browsed by deer if clearcut promoting regeneration failure. Proposed treatment would promote growth on crop trees, provide shelter wood for pine seedling development and retain aspen for future regeneration sprouting potential. Aspen density is low and scattered. Clearcutting would not produce a fully stocked aspen stand and red maple sprouts overbrowsed causing mortality and poor regeneration.</p> <p>Selection harvesting may be the most misunderstood system and is certainly the most complex. When stands of trees become overly dense, forest health risks increase. Removing the higher-risk trees and leaving the trees with higher potential improves the quality and character of the forest. The partially-opened canopy allows enough light to accelerate individual tree health, vigor and allows seedlings to grow. The young trees eventually replace the older trees as the older trees either die or are harvested.</p> <p><u>Site Condition:</u></p> <p><u>Proposed Start Date:</u> 10/1 /2025</p>											
49	33034049-Cut	13.6	4130 - Aspen	Sawtimber Well	44	1-50	Harvest	Clearcut	4133 - Aspen, Mixed Pine	Even-Aged	No
<p><u>Prescription Specs:</u> Cut all trees 3" dbh and larger except leave hemlock, some large white pine seed trees and 10% retention patch in southern portion of the stand.</p> <p><u>Next Step Treatments:</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Acceptable Regen:</u> Species in the canopy layers.</p> <p><u>Other Comment:</u> Mature aspen stand that will sprout vigorously with full sunlight. Retaining hemlock and some large pine for seed and wildlife.</p> <p>Clearcutting is the solution to forest types whose seedlings or sprouts require full sunlight. Seeds and buds respond well to the warmed ground. The abundance of light produces excellent growth, some of the fastest we have. Species such as aspen, paper birch and jack pine require full sunlight.</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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55	33034055-Cut	7.2	6117 - Lowland Deciduous, Mixed Coniferous	Sawtimber Well	48	81-110	Harvest	Clearcut with Retention	613 - Lowland Mixed Forest	Two-Aged	No
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Prescription Cut all trees except cedar, hemlock and some large seed trees. Cedar and hemlock may be cut for operability.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Species within the canopy layers.

Regen:

Other This stand is in deer conditional range and has a canopy composition of 10% cedar. Harvest of cedar and hemlock for operational purposes has been agreed upon between FRD and WLD in this stand. This harvest is estimated to produce about 30 cords of cedar, and 5 cords of hemlock.

Comment:

About 30 cord of cedar and 5 cord of hemlock would need to be harvested to operate in the stand. EAB is just becoming noticeable in the stand. Trees are mature with some mortality present.

Clearcutting is the solution to forest types whose seedlings or sprouts require full sunlight. Seeds and buds respond well to the warmed ground. The abundance of light produces excellent growth, some of the fastest we have. Species such as aspen, paper birch and jack pine require full sunlight.

Site Condition:

Proposed Start Date: 10/1 /2025

65	33034065-Cut	9.3	429 - Mixed Upland Conifers	Sawtimber Well	140	111-140	Harvest	Shelterwood	4319 - Mixed Upland Forest	Uneven-Aged	No
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Prescription Cut all merchantable trees except cedar and hemlock. Cedar and hemlock may be cut for operational purposes. The south end of the stand has higher density of pine, in that area leave 30 basal area of pine. In middle and northern portion of the stand leave some pine seed trees and leave pine greater than 30" dbh.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Species within the canopy layers.

Regen:

Other This stand is in deer conditional range and has a canopy composition of 15% hemlock and 10% cedar. Harvest of cedar and hemlock 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, and 20 cords of hemlock.

Comment:

Approximately 20 cord of cedar and 20 cord hemlock would be harvested for operational purposes. This is a mature stand with no underbrush or minimal regeneration.

The shelterwood system lies somewhere in between the visual extremes of clearcutting and selection management. The parent forest is removed in several stages, with each stage successively establishing optimum environmental conditions for tree regeneration and then nursing the regeneration along to a point where the remaining parent forest can be harvested. Red oaks and white pine stands will often benefit from shelterwood harvesting.

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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69	33034069-Cut	16.2	4130 - Aspen	Poletimber Well	52	Unspec ified	Harvest	Clearcut with Retention	4133 - Aspen, Mixed Pine	Uneven-Aged	No
<p><u>Prescription</u> Cut all trees 3" dbh and greater except leave cedar, hemlock, some large pine seed trees and the southern area of younger aspen for retention.</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> Species within the canopy layers.</p> <p><u>Other Comment:</u> This is a mature aspen stand that has hemlock and cedar along the west line to the center of ridge. Clearcutting the aspen area will provide for aspen regeneration along with the potential for pine and hemlock to seed in.</p> <p>Clearcutting is the solution to forest types whose seedlings or sprouts require full sunlight. Seeds and buds respond well to the warmed ground. The abundance of light produces excellent growth, some of the fastest we have. Species such as aspen, paper birch and jack pine require full sunlight.</p> <p><u>Site Condition:</u></p> <p><u>Proposed Start Date:</u> 10/1 /2025</p>											

73	33034073-Cut	7.5	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Well	72	111-140	Harvest	Shelterwood	4190 - Mixed Upland Deciduous with Cedar	Uneven-Aged	No
<p><u>Prescription</u> Cut all trees 3" dbh and larger except cedar, hemlock, pine and some large seed trees. Cedar(5 cord) and hemlock(1 cord) may need to be harvested for operational purposes.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u> Species within the canopy layers.</p> <p><u>Other Comment:</u> This stand is in deer conditional range and has a canopy composition of less than 5% hemlock, and 15% cedar. Harvest of cedar and hemlock for operational purposes has been agreed upon between FRD and WLD in this stand. This harvest is estimated to produce about 5 cords of cedar, and 1 cord of hemlock.</p> <p>This stand is mature with short lived species showing mortality. Retaining cedar, hemlock, white pine and some other large trees will aid in shade tolerant species development and wildlife roosting and cover.</p> <p>The shelterwood system lies somewhere in between the visual extremes of clearcutting and selection management. The parent forest is removed in several stages, with each stage successively establishing optimum environmental conditions for tree regeneration and then nursing the regeneration along to a point where the remaining parent forest can be harvested. Red oaks and white pine stands will often benefit from shelterwood harvesting.</p> <p><u>Site Condition:</u> Unknown Access</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
74 33034074-Cut	2.6	4110 - Sugar Maple Association	Sawtimber Well	72	141-170	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven-Aged	No
<p><u>Prescription</u> Selection thinning of northern hardwood stand. Mark stand to a residual of 70-90BA. Leave hemlock, a couple beech with minimal/no scale and some minor component species.</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> Species within the canopy layers.</p> <p><u>Regen:</u></p> <p><u>Other</u> This is a northern hardwood stand that was last thinned 44 years ago.</p> <p><u>Comment:</u> Selection harvesting may be the most misunderstood system and is certainly the most complex. When stands of trees become overly dense, forest health risks increase. Removing the higher-risk trees and leaving the trees with higher potential improves the quality and character of the forest. The partially-opened canopy allows enough light to accelerate individual tree health, vigor and allows seedlings to grow. The young trees eventually replace the older trees as the older trees either die or are harvested.</p> <p>Northern hardwood stands are recommended to be thinned at least every 15 years to improve health, productivity and stimulate regeneration</p> <p><u>Site Condition:</u> Unknown Access</p> <p><u>Proposed Start Date:</u> 10/1 /2025</p>										

Approved Treatments:

20 33034020-Monitor	3.6	429 - Mixed Upland Conifers	Poletimber Poor	65	1-50	Monitoring	Natural Regen (Re-Inventory)	4191 - Mixed Upland Deciduous with Conifer	Even-Aged	No
<p><u>Prescription</u> Monitor the regeneration</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Maple and aspen. Acceptable alternate regeneration of mixed upland conifers.</p> <p><u>Regen:</u></p> <p><u>Other</u> Percent to Treat = 100%</p> <p><u>Comment:</u></p> <p><u>Site Condition:</u></p> <p><u>Proposed Start Date:</u> 10/1 /2023</p>										
9 33034025-Monitor	7.3	6132 - Mixed Lowland Forest with Cedar	Poletimber Poor	112	1-50	Monitoring	Natural Regen (Re-Inventory)	6117 - Lowland Deciduous, Mixed Coniferous	Two-Aged	No
<p><u>Prescription</u> Monitor the regeneration</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Ash and maple. Acceptable alternate regeneration of mixed upland conifer species.</p> <p><u>Regen:</u></p> <p><u>Other</u> Percent to Treat = 100%</p> <p><u>Comment:</u></p> <p><u>Site Condition:</u></p> <p><u>Proposed Start Date:</u> 10/1 /2023</p>										



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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
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27	33034027-Monitor	17.9	42390 - Mixed Non-Pine Upland Conifers	Sawtimber Poor	118	1-50	Monitoring	Natural Regen (Re-Inventory)	429 - Mixed Upland Conifers	Two-Aged	No
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Prescription YOE 2026 regeneration is from seed source with minor stump and root sprouting. Retain Monitoring treatment to check regeneration next inventory cycle. By that time the seedlings should be big enough to determine population and canopy closure.

Next Step
Treatments:

Acceptable Regen: Pine, mixed upland conifers. Acceptable alternate regeneration of aspen.

Other Comment: Percent to Treat = 100%

Site Condition:

Proposed Start Date: 10/1 /2023

35	33034035-Monitor	9.7	6117 - Lowland Deciduous, Mixed Coniferous	Sapling Poor	5	Immature	Monitoring	Natural Regen (Re-Inventory)	6117 - Lowland Deciduous, Mixed Coniferous	Even-Aged	No
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Prescription Monitor the regeneration

Specs:

Next Step
Treatments:

Acceptable Regen: Red maple, ash, spruce, fir and mixed deciduous species. Acceptable alternative regeneration of pine.

Other Comment: Percent to Treat = 100%

Site Condition:

Proposed Start Date: 10/1 /2023

Total Treatment 160
Acres Proposed:

Report 4 – Site Conditions

Escanaba Mgt. Unit
Dan Beaudou: Examiner

Compartment: 34
Year of Entry: 2026



Availability for Management

Total Acres	Acres Available	Acres Avail		Dominant Site Conditions	Dominant Site Conditions				
		With Condition	Not Available		2B	5C	3J	3L	5E
326	318	0	8	Aspen					8
232	0	0	232	Cedar				232	0
83	0	0	83	Hemlock				75	7
5	5	0	0	Herbaceous Openland					
25	23	0	2	Lowland Conifers					2
35	17	0	18	Lowland Deciduous			18		0
52	49	0	3	Lowland Mixed Forest					3
91	91	0	0	Lowland Shrub					
352	352	0	0	Lowland Spruce/Fir					
1	1	0	0	Marsh					
27	18	7	2	Mixed Upland Deciduous	7				2
13	0	13	0	Natural Mixed Pines		13			
68	65	3	0	Northern Hardwood	3				0
3	3	0	0	Red Pine					
65	55	7	4	Upland Conifers		7			4
56	56	0	0	Upland Mixed Forest					0
2	2	0	0	Urban					
3	3	0	0	Water					
19	18	0	1	White Pine					1
1,457	1,075	30	352	Total Forested Acres	10	20	18	307	27
	74%	2%	24%	Relative Percent					

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

Site No.	Dominant Site Cond Availability	Dominant Site Condition	Acres	Other Site Condition	Other Site Condition	Other Site Condition	Other Site Condition
1	Unavailable	5E: Long-Term Retention	27	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Retention patch/areas for treatments by timber sales during YOE 2014.							

Report 4 – Site Conditions

Escanaba Mgt. Unit
Dan Beaudou: Examiner

Compartment: 34
Year of Entry: 2026



2	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	18	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Stand has designation of SCA-Cedar River riparian corridor.							
3	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	7	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Regeneration is in pole stage just becoming merchantable. Canopy has mostly hemlock and a lesser amount of large white pine. Allow pole size to further develop increasing merchantable size for utilization.							
4	Unavailable	3L: Other wildlife concerns	307	Unspecified	Unspecified	Unspecified	Unspecified
Comments: High amount of northern white cedar and/or hemlock. Lack of treatment due to Deer Winter Range Guidelines							
5	Available	2B: Unknown if access through adjacent landowner(s) is possible	10	Unspecified	Unspecified	Unspecified	Unspecified
Comments: The private landowner to the south allowed access for inventory. It sounded favorable for a logger to access but did not give permission for a logger at that time.							
6	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	13	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Due to access issues, concentration of pine, natural pine guidelines and size of stand, it was determined to delay treatment on this stand.							



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
Area 2 Comments	Spring Wetlands Riparian Area	Spring Seep	SCA	20
Area 3 Comments	Spring Wetlands Riparian Area	Spring Seep	SCA	24



Report 6 – EXISTING SPECIAL CONSERVATION AREA DETAILS

* This is a list of SCA's for this compartment along with a 1/4 mile buffer surrounding the compartment. Refer to the Special Conservation Area Map for locations of the below listed Conservation Areas.

ERA = Ecological Reference Area
 HCVA = High Conservation Value Area
 SCA = Special Conservation Area

Conservation Area	Type	Description
SCA	Cold Water Lake	A coldwater lake has temperature and dissolved oxygen conditions that allow naturally-reproduced or stocked trout populations and those of other coldwater fish species to persist from year to year. Suitable conditions for coldwater fishes may occur in Michigan lakes if they are relatively deep, have substantial groundwater inflows, or are located in colder (northern) areas of the state. Such lakes are established by Director's action and designated as trout resources by Fisheries Order 200.
SCA	Cold Water Stream	A coldwater stream has temperature and dissolved oxygen conditions that allow naturally-reproduced or stocked trout populations and those of other coldwater fish species (e.g., slimy sculpin) to persist from year to year. Coldwater streams in Michigan typically provide these conditions due to substantial contributions of groundwater to their stream flows. Such streams are established by Director's action and designated as trout resources by Fisheries Order 210.
SCA	Riparian Area	A transitional area between aquatic and terrestrial ecosystems in which the terrestrial ecosystem influences the aquatic ecosystem and vice-versa. Because of the unique conditions adjacent to lakes, streams and open water wetlands, riparian areas harbor a high diversity of plants and wildlife. Riparian communities are ecologically and socially significant in their effects on water quality and quantity, as well as aesthetics, habitat, bank stability, timber production, and their contribution to overall biodiversity.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																	
1	4191 - Mixed Upland Deciduous with Conifer	Poletimber Well	14.1	94	111-140	N/A	This stand contains both upland and lowland areas with mature trees. Creek along south end of stand. It does not appear there has been any treatment to this stand. Maps show stream crossing through narrow portion of stand along the private property. When walking this area there was sheet flow but could not determine any defined channel. If a channel is encountered during timber sale preparation, then apply 30' buffer. Due to forest health issue with ash, narrow buffer from 100' to 30'.																																																	
<table border="1"> <thead> <tr> <th>Canopy Species</th> <th>% Cover</th> <th>Size Class</th> <th>DBH</th> <th>Age</th> </tr> </thead> <tbody> <tr> <td>Red Maple</td> <td>40</td> <td>Log/Pole</td> <td>12</td> <td>94</td> </tr> <tr> <td>Northern White Cedar</td> <td>5</td> <td>Pole</td> <td>8</td> <td></td> </tr> <tr> <td>Black Ash</td> <td>25</td> <td>Pole</td> <td>8</td> <td></td> </tr> <tr> <td>Hemlock</td> <td>10</td> <td>Log</td> <td>12</td> <td></td> </tr> <tr> <td>Green Ash</td> <td>5</td> <td>Log</td> <td>12</td> <td></td> </tr> <tr> <td>Balsam Fir</td> <td>10</td> <td>Pole</td> <td>6</td> <td></td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age		Red Maple	40	Log/Pole	12	94	Northern White Cedar	5	Pole	8		Black Ash	25	Pole	8		Hemlock	10	Log	12		Green Ash	5	Log	12		Balsam Fir	10	Pole	6		<table border="1"> <thead> <tr> <th>Sub-Canopy Species</th> <th>Density</th> <th>Avg. Height</th> <th>Size</th> </tr> </thead> <tbody> <tr> <td>Balsam Fir</td> <td>Low</td> <td>10 - 20 feet</td> <td>Sapling</td> </tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	Balsam Fir	Low	10 - 20 feet	Sapling									
Canopy Species	% Cover	Size Class	DBH	Age																																																				
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2	4319 - Mixed Upland Forest	Sawtimber Well	20.0	93	141-170	N/A	This is a mature stand with short lived species dying out. Other species include paper and yellow birch, black spruce, black ash.																																																	
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3	6120 - Lowland Cedar	Poletimber Well	21.0	121	51-80	N/A	There is a small ridge in the northeast portion with some maple/birch/spruce/hemlock/ and pine.																																																	
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4	622 - Lowland Shrub	Nonstocked	37.1		Unspecified	No	Contains a small mud pond made by beaver dam years ago.																																																	
5	42350 - Upland Hemlock	Sawtimber Medium	50.9	110	1-50	N/A	Closed canopy areas have minimal to no regeneration due to lack of sunlight. Where the canopy is leaving sunlight to forest floor there is regeneration of mixed species. This stand was cut August 2019 under the New Lines Old Lines sale 33-011-15. This was unit 5. Treatment: Group selection- Cut all trees except the hemlock and cedar, leave pine and spruce seed trees. Leave retention areas around the heaviest pockets of hemlock at approximately 10-20% of the stand, mostly through the center of the stand.																																																	
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6	4119 - Mixed Northern Hardwoods	Poletimber Well	8.6	94	81-110	N/A	Stand was treated by C34 Crunch Time 33-037-06. Thinned in October/November 2007. Dead tops in the birch. Light thinning treatment to remove dying trees and reduce competition. There is a trace of hemlock, pine, balsam fir and cherry. The top part of the ridge is more sugar maple and as you move east more red maple vs sugar maple.																																															
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7	42360 - Upland Cedar	Sawtimber Poor	9.8	128	1-50	N/A	The residual trees are in the canopy layer. Regeneration of balsam, spruce and white pine in the seedling stage is progressing in the open areas. YOE 2016: This stand was unit 9 of the New lines old lines sale. cut august of 2018 Treatment: Clearcut with reserves- Cut all trees except cedar and hemlock and leave a retention area where the hemlock is. Leave a retention buffer along the east side along Degraeves creek of approximately 1/2 chain wide.																																															
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8	42350 - Upland Hemlock	Sawtimber Well	3.2	116	201+	N/A	Small patch of almost pure hemlock. Scattered pine. Red maple paper birch scattered throughout. No regeneration.																																															
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9	6132 - Mixed Lowland Forest with Cedar	Poletimber Poor	7.8	112	1-50	N/A	Regeneration is starting in the more open sunlight areas but the residual is producing shade inhibiting regeneration. This stand was cut in February 2019, was unit 6 of the New Lines Old Lines sale. Estimating age of the smaller diameter black ash. Treatment: Shelterwood with reserves- Cut all the ash 6 inches and greater. Leave all the yellow birch, cedar, and hemlock.																																															
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10	4130 - Aspen	Sapling Medium	7.8	7	Immature	N/A	Aspen is high density along east side and parts of ridgetop. The west side more scattered aspen with conifer seedlings. The open areas have regeneration that will fill in over time. YOE 2016: This stand was cut under the New Lines old lines sale unit 7. Cut October of 2016. Treatment: Clearcut with reserves- Cut all the trees except leave all cedar and leave a retention area along the edge of the boundary line.																																															
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11	4119 - Mixed Northern Hardwoods	Poletimber Poor	8.7	78	1-50	N/A	Areas of higher densities. The stand responding well to treatment, residuals are healthy with regeneration present.																																																				
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12	6229 - Mixed lowland shrub	Nonstocked	29.4		Unspecified	No	Creek flows through with old beaver meadows																																																				
13	6120 - Lowland Cedar	Poletimber Well	171.0	121	81-110	N/A	Large cedar stand with other species present.																																																				
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14	42350 - Upland Hemlock	Sawtimber Medium	4.8	102	81-110	N/A	Treated by the Ackerman timber sale 33-034-95, cut in August 1995. All trees were cut that yielded one pulpstick except cedar, hemlock, pine and beech. Some cedar, hemlock and pine were marked for cutting.																																																				
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15	4119 - Mixed Northern Hardwoods	Poletimber Well	3.0	88	51-80	N/A	Most of this stand is in the buffer area of the river. SCA-Riparian area corridor along the Big Cedar River. The flood plain area then steeper ridge.																																																				
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16	500 - Water	Nonstocked	2.9		Unspecified	No	Big Cedar River																																																				



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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17	4110 - Sugar Maple Association	Sawtimber Well	16.5	88	111-140	N/A	Other species include hemlock, yellow birch, ash and cedar along the river. West portion of the stand is smaller pole timber and larger more logs to the east.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Sugar Maple		80	Log	10	88	Balsam Fir		Low	5 - 10 feet	Sapling
Beech		5	Pole	9		Sugar Maple		Low	10 - 20 feet	Sapling
Quaking Aspen		10	Log/Pole	12		Ironwood		Medium	10 - 20 feet	Sapling
Red Maple		5	Pole	9						

18	6118 - Lowland Deciduous with Cedar	Sawtimber Well	18.0	93	111-140	N/A	Majority of the ash has woodpecker fleck and showing signs of mortality. The southern portion of the stand has the creek fanning out in several channels making it difficult to operate in the stand. Stand has designation of SCA-Cedar River riparian corridor. YOE 2016: Cedar/Hemlock/Ash to the east along the ridge and creek and west side along the Cedar River. Mostly Cedar and Hemlock on the north point. Areas predominate to Ash to the south and southeast. Creek runs through the east and through the center bordered by Cedar River to the west. Silver Maple and sensitive fern toward the river and along the drainage through the stand.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Black Ash		15	Pole	8		Northern White Cedar		Low	>20 feet	Pole
Basswood		3	Log/Pole	12		Balsam Fir		Low	>20 feet	Sapling
Yellow Birch		5	Log	16		Black Ash		Low	10 - 20 feet	Sapling
Red Maple		5	Log	14						
Northern White Cedar		30	Pole	9						
Green Ash		30	Log/Pole	10	93					
Sugar Maple		2	Log/Pole	10						
Silver Maple		5	XLog/Log	18						
Hemlock		5	Log	10						

19	3102 - Grass	Nonstocked	1.2		Unspecified	No	This is a small grass opening along private property where there is a camp or home. WLD: no work has been done here in the last decade
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20	429 - Mixed Upland Conifers	Poletimber Poor	5.0	65	1-50	N/A	The treated area is represented in the sub-canopy layer. Scattered trees are present in the treated area that was retained. There are seedlings present but too small to be considered part of the canopy at this point. This stand was cut November of 2016 as Unit 1 of the Orange Harness 33-007-16 timber sale. Cut all merchantable trees except hemlock. Retention along the west stand line is present. This area is a steep slope down to an ash cedar swamp.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Hemlock		15	Log/Pole	10		Balsam Fir		Medium	< 5 feet	Seeding
Red Maple		30	Pole	8	65	White Spruce		Low	< 5 feet	Seeding
White Spruce		5	Pole	8		Quaking Aspen		Low	10 - 20 feet	Sapling
White Pine		10	Log	10		White Pine		Low	< 5 feet	Seeding
Black Cherry		10	Pole	6						
Balsam Fir		15	Pole	6						
Northern White Cedar		15	Log/Pole	10						

21	3102 - Grass	Nonstocked	3.4		Unspecified	No	This opening contains cherry and pine trees with some other conifer seedlings. WLD: No work has been done here in the last decade
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22	42350 - Upland Hemlock	Sawtimber Well	8.8	120	111-140	N/A	Treated in September 2007 by the C34 Done At Last (33-038-06) timber sale. All orange marked trees. Aspen, balsam fir and balm were also cut unless marked with orange "x". This is a mixed upland/lowland site. Dense shaded forest floor creating minimal regeneration at this time.																																															
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23	42200 - Natural White Pine	Sapling Medium	16.1	16	Immature	N/A	Small seedlings are present in the open areas with thick advanced regeneration of white pine saplings. Stand was shelterwood cut in September 2007 by the C34 Done At Last (33-038-06) timber sale. Then in December 2016 it was Unit 2 of the Orange Harness 33-007-16 timber sale. Cut all merchantable trees except Pine, Cedar, hemlock and yellow birch. Retention on SE corner to blue line.																																															
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24	122 - Road/Parking Lot	Nonstocked	2.3		Unspecified	No	County Road 551 and Right of Way.																																															
25	4136 - Aspen, Mixed Conifer	Sapling Well	25.4	5	Immature	N/A	Cut January of 2019 Unit 3 of the Orange Harness 33-007-16 timber sale. Cut all trees except hemlock, cedar, green marked trees and pine greater than 26" dbh. The retention area is around a drainage area in center of stand and include hemlock areas. Regeneration has sprouted good in the open areas with trees retained also in the canopy layer.																																															
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26	4134 - Aspen, Spruce/Fir	Poletimber Well	4.7	38	1-50	N/A	Dense stand of mostly aspen and red maple with a mix of other species. Some die back from self thinning. Ready to harvest next inventory cycle.																																															
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27	42390 - Mixed Non-Pine Upland Conifers	Sawtimber Poor	18.0	118	1-50	N/A	<p>Most of the regeneration thus far is from seed. Stump or root sprouts are not prevalent in this stand. Monitoring treatment should remain to check next inventory to give seedlings a chance to grow and fill in the open areas providing a canopy closure.</p> <p>This stand was treated in February 2019 as Unit 4 of the Orange Harness (33-007-16) timber sale. All merchantable trees were cut except cedar, hemlock, green marked trees and pine greater than 26" dbh.</p>																																											
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28	6127 - Lowland Pine	Sawtimber Poor	8.5	112	1-50	N/A	<p>Stand was Unit 6 of the Orange Harness (33-007-16) timber sale being treated in March of 2019. All merchantable trees were harvested except pine and other green marked trees. There was some advanced regeneration present from a previous treatment.</p>																																											
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29	4133 - Aspen, Mixed Pine	Sapling Well	27.3	34	Immature	N/A	<p>This stand was cut in 1992 by the Gourley Dump Block 33-002-92 timber sale. All merchantable trees were cut except unmarked pine, hemlock and cedar.</p>																																											
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30	6129 - Mixed Coniferous Lowland Forest	Poletimber Medium	16.8	58	1-50	N/A	<p>This stand was unit 5 on the Orange Harness (33-007-16) timber sale harvested March of 2019. All merchantable trees were cut except cedar, hemlock, beech and trees marked with green paint resembling a shelterwood harvest.</p> <p>Trace amounts of white spruce in the overstory and black ash in the understory. Medium to High understory of white pine, white spruce, beech, and balsam fir.</p>																																											
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments	
31	4136 - Aspen, Mixed Conifer	Sapling Well	4.5	27	Immature	N/A	This stand was cut under the Mack Spring block in March 1997. All trees cut except cedar, hemlock, pine, beech, green painted trees and some pine were marked to cut. Aspen stand with red maple and spruce/fir with some hemlock and white pine super canopy trees.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Balsam Fir		7	Pole/Sapling	6		White Pine		
White Spruce		10	Pole/Sapling	6		White Spruce		
White Pine		3	Log	14		Balsam Fir		
Bigtooth Aspen		15	Pole	6				
Red Maple		15	Sapling	4				
Black Cherry		3	Sapling	4				
Quaking Aspen		45	Sapling/Pole	4	27			
Hemlock		2	Log/Pole	10				
32	4119 - Mixed Northern Hardwoods	Sawtimber Well	7.4	93	141-170	N/A	Stand has a high basal area of pole sized timber. YOE 2016: Red maple mostly 7-9 inches dbh with scattered larger white pine, paper birch, quaking aspen, and a few scattered spruce and hemlock. Trace amount of red pine and hemlock. Cut next treatment period.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Paper Birch		10	Log	10		Balsam Fir		
Quaking Aspen		5	Log	12		White Pine		
White Spruce		5	Pole	9		White Spruce		
Red Maple		75	Log	10	93			
White Pine		5	XLog	20				
33	429 - Mixed Upland Conifers	Sawtimber Medium	6.8	118	1-50	N/A	Open areas from last treatment are filling in. 100% canopy including both layers. Canopy is mostly hemlock and pine. Cut in February 1997 under the Mack spring block 33-037-96 sale. All but cedar, hemlock, pine, and beech were cut. All spruce 7" and greater and orange marked pine were cut. High amount of understory with a mix of red maple, white pine, white spruce, balsam fir, and some aspen. Trace amounts of beech and cedar.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Hemlock		40	Log/Pole	10	118	White Spruce		
Red Maple		15	Pole	6		White Pine		
Balsam Fir		10	Pole/Sapling	5		Red Maple		
White Spruce		5	Pole/Sapling	5		Quaking Aspen		
White Pine		30	Log/Pole	12		Balsam Fir		
34	4130 - Aspen	Poletimber Well	19.6	32	Immature	N/A	Stand was cut in 1992 by the Mack Spring Bock (33-055-91) timber sale. All merchantable trees were harvested except unmarked pine, cedar and hemlock.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Quaking Aspen		80	Pole	6	32	White Pine		
Black Cherry		5	Pole/Sapling	5		Balsam Fir		
White Pine		10	Log/Pole	10		Quaking Aspen		
Black Spruce		3	Pole	8				
Paper Birch		2	Pole	8				



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																															
35	6117 - Lowland Deciduous, Mixed Coniferous	Sapling Poor	10.2	5	Immature	N/A	Sprouting has occurred with smaller conifer seedlings present but at a low density. Will need to keep the Monitoring on to check regenerations progress next inventory. Stand was cut January 2019 as Unit 5 of the 34 Central Patches (33-005-16) timber sale. Do not cut hemlock and trees marked with green paint.																																																															
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36	4130 - Aspen	Poletimber Well	9.7	45	1-50	N/A	This has a smaller overall dbh with sub-merchantable present. Variable diameters in aspen with some super canopy white pine and red maple.																																																															
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37	4133 - Aspen, Mixed Pine	Sapling Well	36.1	4	Immature	N/A	Most of the stand has dense sprouting of aspen with some red maple and cherry mixed in. Conifer seedlings are also present. Stand cut February of 2019 as Unit 4 of the 34 Central patches 33-005-16 timber sale. Cut all trees except cedar, hemlock trees marked with green paint and pine trees greater than 26 inches dbh. Spec to protect existing regeneration.																																																															
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38	4130 - Aspen	Sapling Well	9.1	17	Unspecified	N/A	This stand was cut in September 2007 under the C34 Done At Last (33-038-06) timber sale. All merchantable trees were cut except cedar and hemlock. Open areas are filling in with conifer species.																																																															
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40	6229 - Mixed lowland shrub	Nonstocked	24.4		Unspecified	No	Degraves Creek and old beaver meadows.																																																			
41	4134 - Aspen, Spruce/Fir	Sapling Well	20.5	18	Immature	N/A	Stand treated by the Degrave Creek Block 33-038-01 timber sale. Cut summer 2006. Mix of sapling and pole. Scattered large pine left with several pockets of balsam fir/white spruce in overstory and understory. Trace amounts of balm, tamarack, cedar, and red pine.																																																			
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42	4130 - Aspen	Sapling Well	10.5	5	Immature	N/A	Tall, dense aspen sprouting with red maple, cherry and other conifer seedlings with large residual trees and retention areas. Cut December 2018 by the Blind North of Line 33-004-16 timber sale. Cut all trees that are 3" dbh or more except do not cut hemlock. There also is retention left to south and piece to the west of main road.																																																			
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43	4112 - Maple, Beech, Cherry Association	Sawtimber Medium	1.9	93	51-80	N/A	Small stand against private property. Regeneration influence by the adjacent stands being clearcut. Species other than northern hardwood associated are regenerating in this stand, but meet the regeneration objective. Stand was treated in December 2018 by the Blind North of Line 33-004-16 timber sale. This stand was selection thinned.																																																			
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44	4191 - Mixed Upland Deciduous with Conifer	Sapling Medium	5.2	5	Immature	N/A	South west part of stand is dense aspen, red maple and cherry with some conifer seedlings. The north east portion of stand has less sprouted species with conifer seedlings present. A retention patch along the south east line of the stand. Stand was cut in December 2018 by the Blind North of Line 33-004-16 timber sale. All 3" and greater dbh trees cut except hemlock. Retention is a hemlock piece to the east of stand and buffer along creek.																																																							
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45	429 - Mixed Upland Conifers	Sapling Medium	19.4	29	1-50	N/A	Mixed specie regeneration with other advanced regeneration and residual trees with retention areas. Stand was cut December of 2018 as Unit 1 of the 34 Central Patches 33-005-16 timber sale. Cut all merchantable trees except do not cut cedar hemlock and green marked trees and pine greater than 26" dbh. Stand was previously cut in January of 1995. Cut all aspen and hardwood trees, except beech, which will yield one or more pulpwood sticks. Cut all spruce and balsam fir that yield 1 or more pulpwood sticks. Cut red pine, white pine, hemlock and cedar marked with orange paint.																																																							
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46	4311 - Pine, Aspen Mix	Sapling Well	12.1	37	1-50	N/A	Stand was cut with retaining hemlock and white pine seed trees. Trace amounts of ash, birch, balm, spruce, hemlock and cedar. Cut in January 1994 under contract Degrave's Creek Aspen (33-011-92) timber sale.. Cut all aspen and hardwood trees except beech that are 2 or more inches in dbh. Cut all spruce and balsam fir that yield 1 or more pulpwood sticks. Cut all orange marked red pine, white pine, hemlock and cedar.																																																							
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47	6132 - Mixed Lowland Forest with Cedar	Poletimber Well	31.6	118	1-50	N/A	Cedar lowland deciduous mix of smaller diameters surrounding an upland peninsula. The east side of the stand has a slight upland island containing mature aspen, black spruce, balsam fir, paper birch, red and white pine. Trace amounts of tag alder and holly in the understory.																																																							
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48	4130 - Aspen	Sapling Well	18.6	26	Immature	N/A	Nice aspen stand with other mixed species present. This stand was cut in December 1997 by the Partridge Recovery timber sale. All trees cut except pine and hemlock with some orange marked pine cut. Trace amounts of cedar, hemlock and spruce.																																																							
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49	4130 - Aspen	Sawtimber Well	14.5	44	1-50	N/A	This stand was delineated out of the previous larger stand. Treat to diversify age class of aspen in the area. Trace amounts of large white pine and hemlock.																																																												
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51	4136 - Aspen, Mixed Conifer	Sapling Well	21.1	5	Immature	N/A	Large white pine and hemlock seed trees present. There is good sprouting in aspen and red maple. Several seedings of pine, fir, and spruce.																																																												
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52	4130 - Aspen	Poletimber Well	11.3	44	51-80	N/A	Mixed aspen pine maple stand. This portion of the larger stand will be kept for age class diversity for another cycle. It was part of the Jam Dam Sale (19-79A) cut in 1980.																																																												
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
54	623 - Emergent Wetland	Nonstocked	0.7	0	Unspecified	No	Seasonal pond with cattails.

55	6117 - Lowland Deciduous, Mixed Coniferous	Sawtimber Well	7.2	48	81-110	N/A	Does not appear this area has been treated in recent times. This stand is mixed low and upland with mature and dying short lived species. Minimal signs of EAB so maybe just getting to the stand.
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Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	20	Log	12	84
Black Ash	20	Sapling/Pole	4	
Balsam Poplar	5	Pole/Log	8	
White Pine	5	XLog/Log	18	
Northern White Cedar	10	Log	10	
Hemlock	5	Log	10	
Quaking Aspen	20	Pole/Log	8	48
Green Ash	15	Pole	8	

Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	Medium	10 - 20 feet	Sapling
White Pine	Low	5 - 10 feet	Sapling
White Spruce	Low	5 - 10 feet	Sapling

56	4319 - Mixed Upland Forest	Sawtimber Well	23.7	116	51-80	N/A	Stand has a low density of hardwood in the southern portion with a higher concentration of hemlock and cedar in the northern part. Hold this stand for potential treatment next cycle.
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Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	20	Log/Pole	12	73
Yellow Birch	10	Log	10	
White Pine	10	Log	14	
Balsam Poplar	5	Pole	6	
Black Ash	5	Pole	8	
Northern White Cedar	15	Pole	8	
Quaking Aspen	15	Pole	6	26
Hemlock	20	Log	12	116

Sub-Canopy Species	Density	Avg. Height	Size
White Pine	Medium	5 - 10 feet	Sapling

Treated in October/November 1997 under the Partridge Recovery Sale 33-041-96. Cut all aspen, balm, white birch, balsam fir, and spruce that will yield one or more 100 inch pulpstick to 4" top. Cut marked pine, hemlock, cedar, and hardwood.

57	429 - Mixed Upland Conifers	Poletimber Well	6.6	26	Immature	N/A	Cut in August 1997 under the Partridge Recovery Sale 33-041-96.
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Canopy Species	% Cover	Size Class	DBH	Age
White Pine	35	Pole/Sapling	6	26
Bigtooth Aspen	20	Pole	6	
Red Maple	5	Sapling/Pole	4	
Quaking Aspen	10	Sapling/Pole	3	
White Spruce	10	Pole/Sapling	6	
Balsam Fir	20	Pole/Sapling	6	

Sub-Canopy Species	Density	Avg. Height	Size
White Pine	High	< 5 feet	Sapling
Balsam Fir	Medium	< 5 feet	Sapling
White Spruce	Medium	< 5 feet	Sapling

58	42200 - Natural White Pine	Sapling Well	2.7	26	Immature	N/A	Cut October/November 1997 under the Partridge Recovery Sale 33-041-96. Filling in with white pine, spruce, balsam and occasional hemlock, cedar and large white pine. P/L sized pine left standing most is dead.
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Canopy Species	% Cover	Size Class	DBH	Age
Balsam Fir	10	Sapling	4	
White Spruce	5	Sapling	4	
White Pine	85	Sapling	4	26



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																									
59	6139 - Mixed Lowland Forest	Sapling Medium	6.6	4	1-50	N/A	<p>The northeast portion of the stand remains as a retention patch from the harvest. Mixed regeneration including ash and balm sprouts down through the rest of the stand. Conifer seedlings along the west line where there is slight upland.</p> <p>Cut February of 2019 Unit 7 of the 34 Central Patches 33-005-16 timber sale. Cut all trees except hemlock.</p> <p>Pocket of cedar and other species on north end as you move south more ash, red maple, yellow birch, and less cedar.</p>																																																									
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60	4119 - Mixed Northern Hardwoods	Sawtimber Medium	5.1	86	51-80	N/A	<p>Minimal Northern Hardwood associated species regeneration at this time. Leave the Monitoring treatment on the stand. Beech Scale present on the retained beech trees.</p> <p>Stand was cut in December of 2018 as Unit 8 of the 34 Central patches 33-005-16 timber sale. Cut all trees marked with orange paint. hardwood selection thinning</p>																																																									
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61	6132 - Mixed Lowland Forest with Cedar	Poletimber Medium	6.2	104	51-80	N/A	<p>Stand of small diameters and higher concentration of pole cedar. Aspen and balm dying out.</p>																																																									
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62	42210 - Natural Red Pine	Sawtimber Poor	2.7	74	1-50	N/A	<p>There are seedling and saplings present throughout the stand. Shelterwood treatment retained basal area coverage with large residual trees.</p> <p>Red pine log/pole stand. Cut December of 2018 Unit 9 of the 34 Central Patches 33-005-16 timber sale. Cut all merchantable trees except do not cut cedar, hemlock, and green marked trees which are mostly pine leave trees for shelterwood.</p>																																																									
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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63	4133 - Aspen, Mixed Pine	Poletimber Well	30.2	34	1-50	N/A	Stand was cut in 1989-90 under the DeGraves Creek Block (33-020-87) timber sale. All trees were cut except unmarked pine, hemlock and cedar. The lowland areas has black ash, red maple, aspen, cedar, balsm.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Hemlock		10	Log	12		White Spruce		Low	5 - 10 feet	Sapling
Bigtooth Aspen		35	Pole	8	34	White Pine		Medium	5 - 10 feet	Sapling
Red Pine		5	Log	16		Tag Alder		Medium	5 - 10 feet	Tall Shrub
Red Maple		10	Pole/Sapling	6		Balsam Fir		Medium	10 - 20 feet	Sapling
White Pine		15	XLog/Log	18	84	Red Pine		Low	5 - 10 feet	Sapling
Quaking Aspen		25	Pole/Sapling	6						

64	4110 - Sugar Maple Association	Sawtimber Medium	9.7	86	51-80	N/A	Minimal Northern Hardwood associated species regeneration at this time. Leave the Monitoring treatment on the stand. Beech Scale present on the retained beech trees.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Beech		5	Log/Pole	12		White Pine		Low	5 - 10 feet	Sapling
White Ash		5	Log	12	94	Balsam Fir		Medium	5 - 10 feet	Sapling
Basswood		10	Log/Pole	12		White Spruce		Medium	5 - 10 feet	Sapling
Sugar Maple		80	Log/Pole	12	86	Beech		Medium	5 - 10 feet	Sapling

Cut September of 2018 Unit 6 of the 34 Central Patches 33-005-16 sale. Hardwood stand Selection thinning.

65	429 - Mixed Upland Conifers	Sawtimber Well	9.3	140	111-140	N/A	This is a long ridge that has lowland cedar ash on both sides. Mature red maple, balsam fir, spruce, pine with scattered cedar and hemlock.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Black Spruce		5	Pole	8		Red Maple		Low	Variable	Sapling
White Pine		20	XLog	18	140	Balsam Fir		Low	Variable	Sapling
Hemlock		15	Log/Pole	12		White Spruce		Low	Variable	Sapling
Red Maple		15	Log	10						
Bigtooth Aspen		10	Log	12						
Balsam Fir		5	Pole	8						
White Spruce		5	Log/Pole	12						
Northern White Cedar		10	Pole	8	140					
Quaking Aspen		5	Log	10						
Red Pine		10	Log	16						

66	6122 - Black Spruce	Sapling Poor	351.9	60	1-50	N/A	Some open areas mixed of treed bog and 25-30% canopy. Mix of black spruce and more tamarack to the north end. Very poor quality stand. Trace amounts of tag alder and holly in the understory. This is a part of the 7 Mile Marsh.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
White Pine		25	Log	16		White Pine		Medium	Variable	Sapling
Tamarack		15	Sapling	3		Black Spruce		Medium	Variable	Sapling
Black Spruce		60	Sapling	3	60					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																					
67	42290 - Natural Mixed Pine	Sawtimber Well	12.9	113	111-140	N/A	Mature pine dominated stand with overmature aspen. This stand has a slight upland east portion with majority of trees being red pine. A low area in the middle then upland ridge west portion with white pine and big tooth aspen dominate some red pine, red maple, spruce, fir and tamarack. Accessing would be dry summer or frozen winter.																																																					
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68	6120 - Lowland Cedar	Poletimber Poor	21.7	121	1-50	N/A	Poor quality stand of short cedar with not much foliage. There are small tamarack patches but low merchantable volume. Wet swamp with minimal available to corduroy operations.																																																					
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69	4130 - Aspen	Poletimber Well	20.5	52	Unspecified	N/A	This stand had two different cutting periods. The first was during the winter of 1972 to a thirteen acre portion in the central and north east part of the stand along the east line on contract 23-70A. The second was during March 1997 to the west side of the stand and southern portion on contract Church Hemlock 33-021-97.																																																					
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70	6120 - Lowland Cedar	Poletimber Medium	8.2	106	Unspecified	N/A	Very poor quality stand. Lots of 3-5 inch maple and ash.																																																					
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71	42350 - Upland Hemlock	Sawtimber Medium	15.1	116	111-140	N/A	The majority of the canopy is now hemlock with minor amounts of other species. Open areas have some regeneration, but the majority still has dense canopy.																																																					
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72	4115 - Y.Birch, Hemlock NH	Sawtimber Medium	4.5	94	51-80	N/A	Beech scale present on residual trees. Much of the regeneration is beech with few other species. Hemlock also present in this stand.																																								
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73	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Well	7.5	72	111-140	N/A	This stand is at the tip of a hardwood ridge. Conifer trees are in the transition. Trace amounts of white pine, hemlock, black cherry, bigtooth aspen, tamarack, ash and paper birch. This stand is recommended to merge in with Compartment 35 stand 36 due to access and management practicality.																																								
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Sub-Canopy Species	Density	Avg. Height	Size																																												
Balsam Fir	Low	Variable	Sapling																																												
74	4110 - Sugar Maple Association	Sawtimber Well	2.6	72	141-170	N/A	A northern hardwood stand composed mostly of sugar maple. Trace amounts of aspen, white pine, hemlock, balsam fir, paper birch and black cherry. This stand is recommended to merge in with Compartment 35 stand 37 due to access and management practicality.																																								
<table border="1"> <thead> <tr> <th>Canopy Species</th> <th>% Cover</th> <th>Size Class</th> <th>DBH</th> <th>Age</th> </tr> </thead> <tbody> <tr> <td>Beech</td> <td>5</td> <td>Log</td> <td>14</td> <td></td> </tr> <tr> <td>Basswood</td> <td>5</td> <td>Log</td> <td>12</td> <td></td> </tr> <tr> <td>Sugar Maple</td> <td>80</td> <td>Log</td> <td>12</td> <td>72</td> </tr> <tr> <td>Red Maple</td> <td>10</td> <td>Log</td> <td>10</td> <td></td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age	Beech	5	Log	14		Basswood	5	Log	12		Sugar Maple	80	Log	12	72	Red Maple	10	Log	10		<table border="1"> <thead> <tr> <th>Sub-Canopy Species</th> <th>Density</th> <th>Avg. Height</th> <th>Size</th> </tr> </thead> <tbody> <tr> <td>Hemlock</td> <td>Trace</td> <td>>20 feet</td> <td>Pole</td> </tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	Hemlock	Trace	>20 feet	Pole	<p>This stand was on contract with the stands to the southwest in Compartment 35 under contract 41-75A(expired 55-75A). It appears harvesting was done during 1979 and 1980 not according to the contract with a timber trespass being assessed for damages.</p>										
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