



# Compartment Review Presentation

Gaylord Forest Management Unit

Compartment 52039

Entry Year 2021

Acreage: 4,844

County Charlevoix

Management Area: Chandler Hills

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**Revision Date:** 2019-07-18

**Stand Examiner:** Zach Crew

**Legal Description:**

T33N R5W, Sec. 21-28, & 32-35

**Identified Planning Goals:**

To provide for the protection, integrated management and responsible use of a healthy, productive and undiminished forest resource base for the social, recreational, environmental, and economic benefit of the State of Michigan.

**Soil and topography:**

The primary soil types within the compartment are Leelanau, Kalkaska and Emmet soils in the upland areas. The lowlands throughout are composed of Organic Mucks. The topography ranges from very hilly uplands to lowland swamps with areas of good quality soils that allow for excellent aspen and northern hardwood stands.

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

There are intermixed private parcels throughout the compartment with the Walloon Hills Challenge Mountain making up a large portion of the private holdings.

**Unique Natural Features:**

The various creeks, vernal pools and associated lowland conifers provide a unique wetland ecosystem that supports a variety of wildlife and flora.

**Archeological, Historical, and Cultural Features:**

None

**Special Management Designations or Considerations:**

This large compartment has a majority of the area in hardwoods and aspen. A variety of aspen age classes are represented and provide excellent habitat for species such as grouse, deer, and woodcock. Openings in the compartment could use maintenance deep their open character and enhance food sources for upland wildlife species.

**Watershed and Fisheries Considerations:**

The compartment contains portions of several tributaries to the Bear River which is a part of the Little Traverse Bay Watershed. These tributaries include Hay Marsh Creek, Gimlet Creek and the North and South Branch of Springbrook Creek. Springbrook and Gimlet creeks are to be protected with the proper natural river buffer. Spring seeps throughout the compartment occur often and should be protected.

**Wildlife Habitat Considerations:**

This compartment provides a variety of both upland and lowland habitats for wildlife. The center of the compartment is being managed for diverse age classes of aspen to benefit grouse, woodcock, and various songbird species. Several openings are prescribed for maintenance to provide food and space for wildlife including wild turkey.

**Mineral Resource and Development Concerns and/or Restrictions**

Active sand/gravel pits are located within three miles of the compartment to the east and west. There appears to be some sand & gravel potential within the compartment on the uplands, but there is also abundant clay in places. Oil & gas potential appears to be low at this time. There may be limited potential for the Antrim Shale as it is thinning out here. There has been one well drilled within the compartment, which was a dry hole. There are no active mineral leases in the compartment. There is no known metallic mineral potential in this part of the state.

**Vehicle Access:**

Between various county roads and forest roads, access to the compartment is very good.

**Survey Needs:**

Some proposed treatments are adjacent to private property in which most survey corners have been established. However, some survey assistance will still be needed.

**Recreational Facilities and Opportunities:**

Recreational activities within the compartment include fishing, hunting, mushrooming. A snowmobile trail bisects the compartment from NW to SE and mainly follows county roads in the compartment.

**Fire Protection:**

Fire protection for this compartment is provided out of the Gaylord Field Office. The timber types in this compartment do not lend themselves to large scale fire events. There might be a few areas that would be difficult to access due to the topography.

**Additional Compartment Information:****The following reports from the Inventory are attached:**

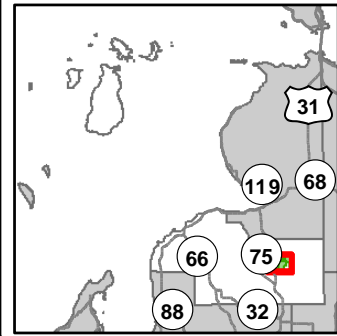
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

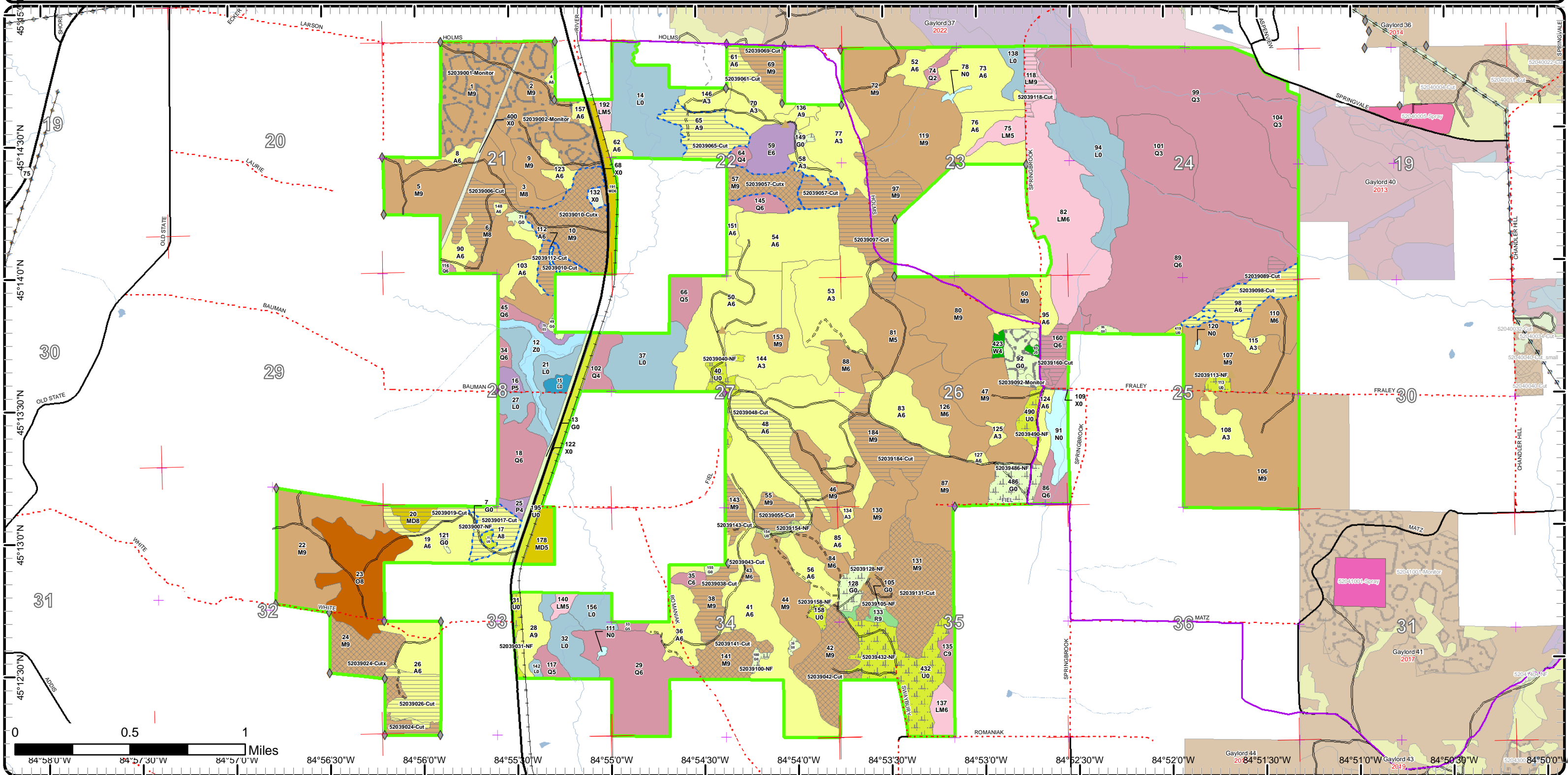
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

# Cover Type & Treatments Map

Compartment: 39  
 T33N, R05W, Sec. 21-28, 32-35  
 County: Charlevoix  
 Unit: Gaylord  
 Mgmt Area: Chandler Hills  
 YOE: 2021  
 Acres: 4,844 GIS Calculated  
 Examiner: Zach Crew  
 Map Revised: 10/8/2019  
 Map Phase: Post-Review



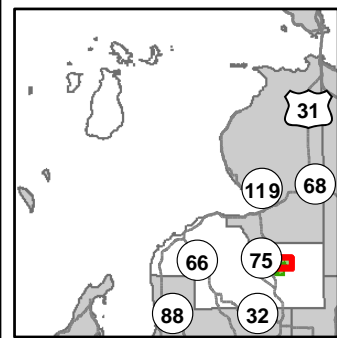
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- + Remonumented Section Corners
- ◆ Field Grade Corners
- ▭ Counties
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- == DNR - Forest Access Route
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- - - County - Dirt Road (Seasonal)
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- ▲ Berms
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- Lakes and Rivers All
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- Treatments with Site Conditions
- Other Treatment - See Comments
- ▨ Selection (Group, Single Tree)
- ▨ Clearcut (w/Reserves)
- ▨ Regeneration Survey
- ▨ 411 - Northern Hardwood
- ▨ 412 - Oak Types
- ▨ 413 - Aspen
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- ▨ 310 - Herbaceous Openland
- ▨ 320 - Upland Shrub
- ▨ 330 - Low Density Trees
- ▨ 500 - Water
- ▨ 622 - Lowland Shrub
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- ▨ 629 - Mixed non-forested wetland
- ▨ 790 - Other Bare/Sparsely Vegetated
- ▨ Lakes



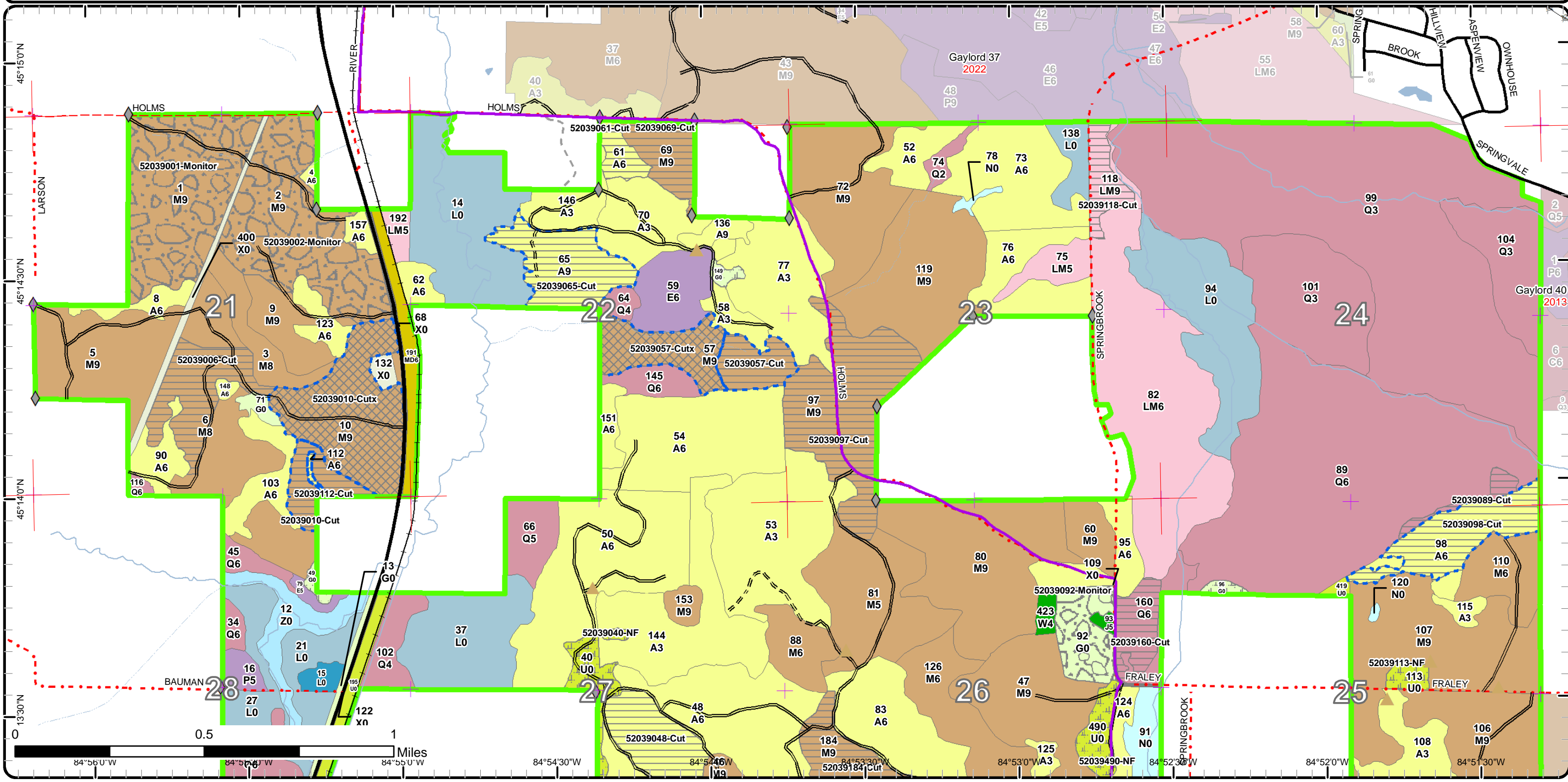


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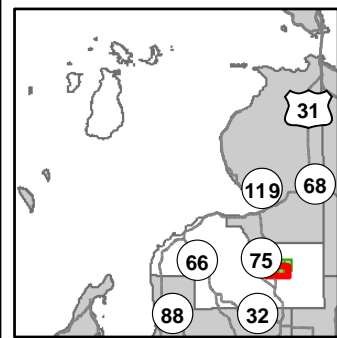


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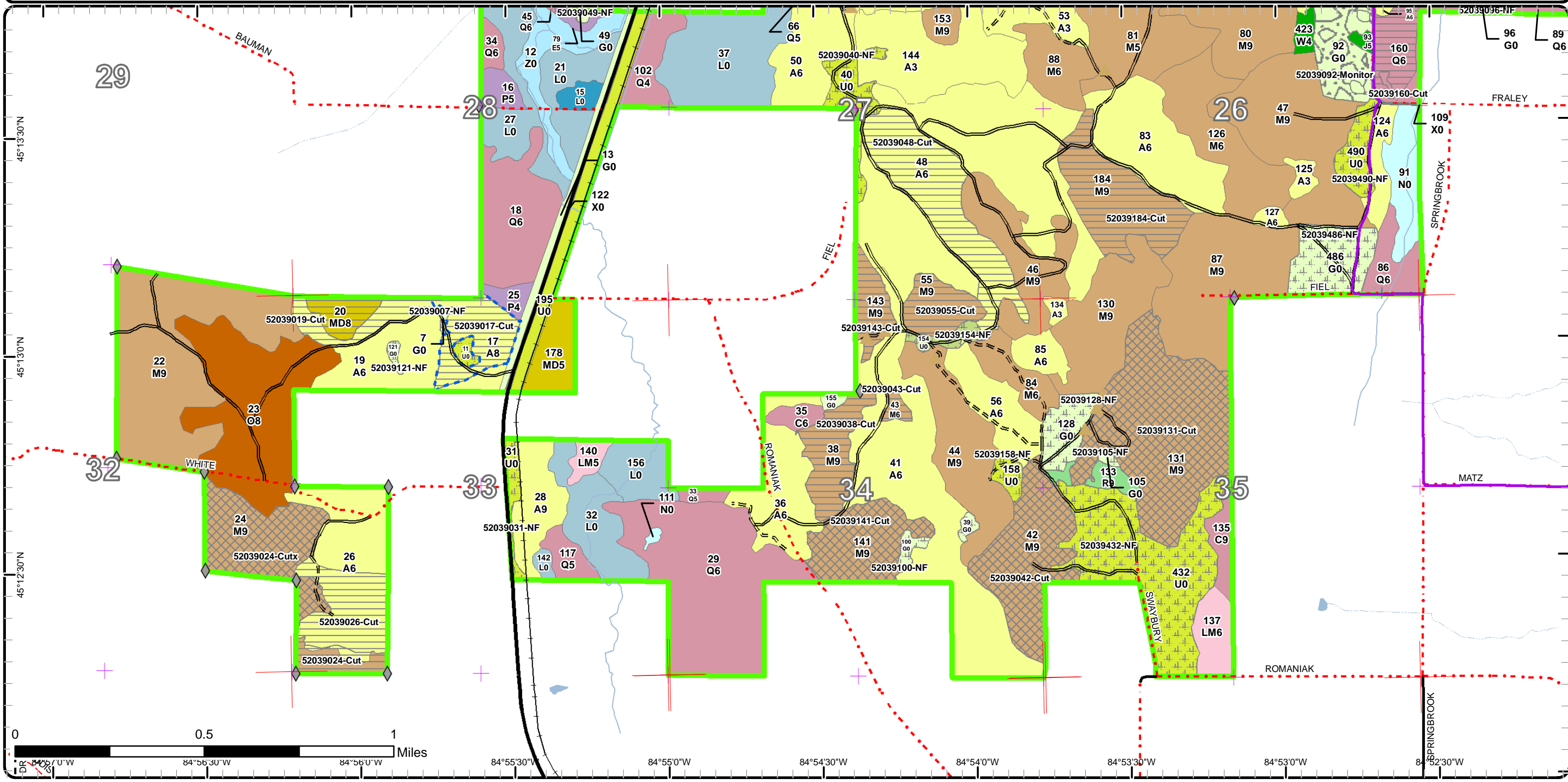


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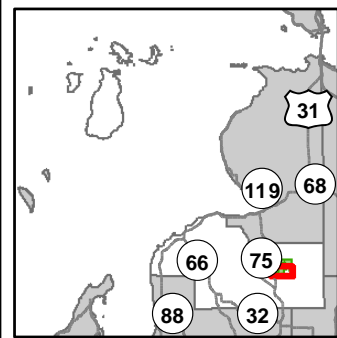
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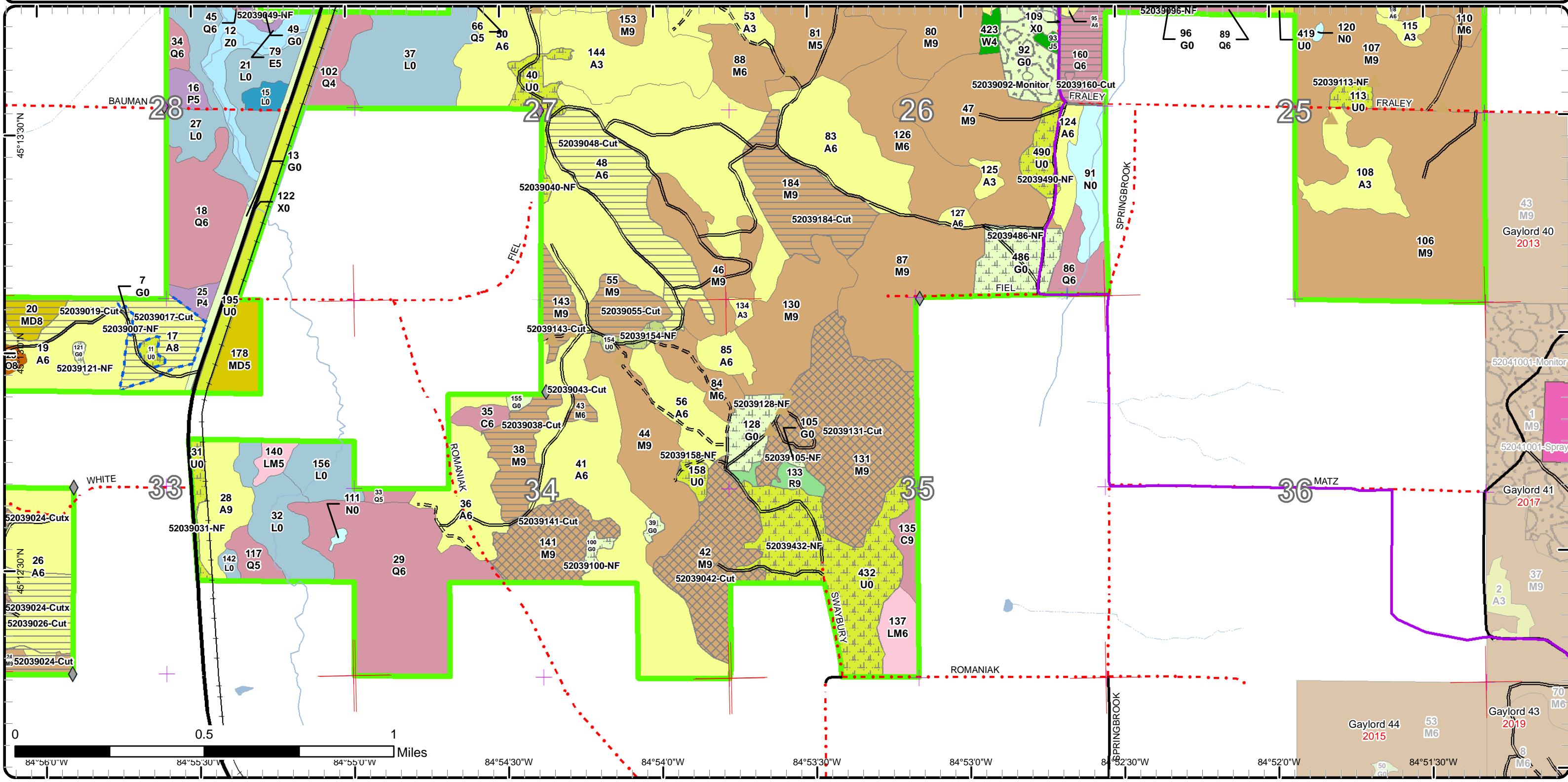


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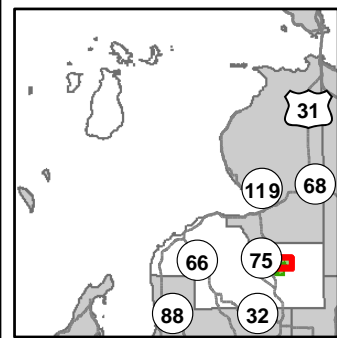
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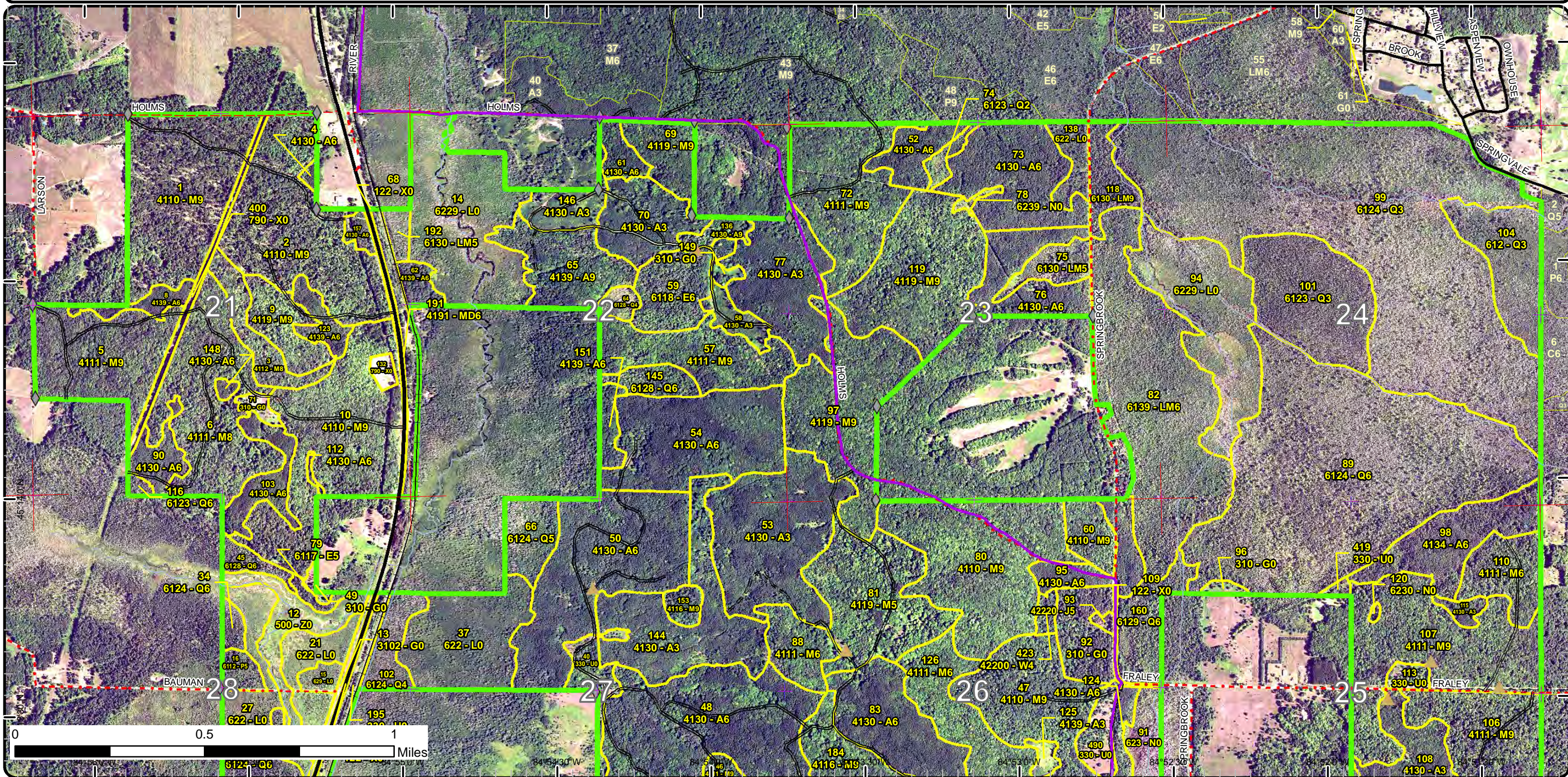


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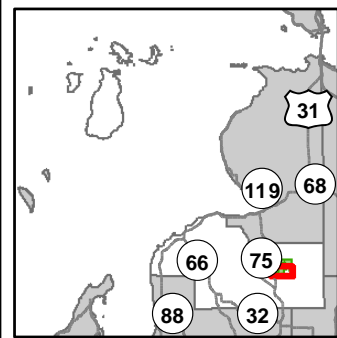




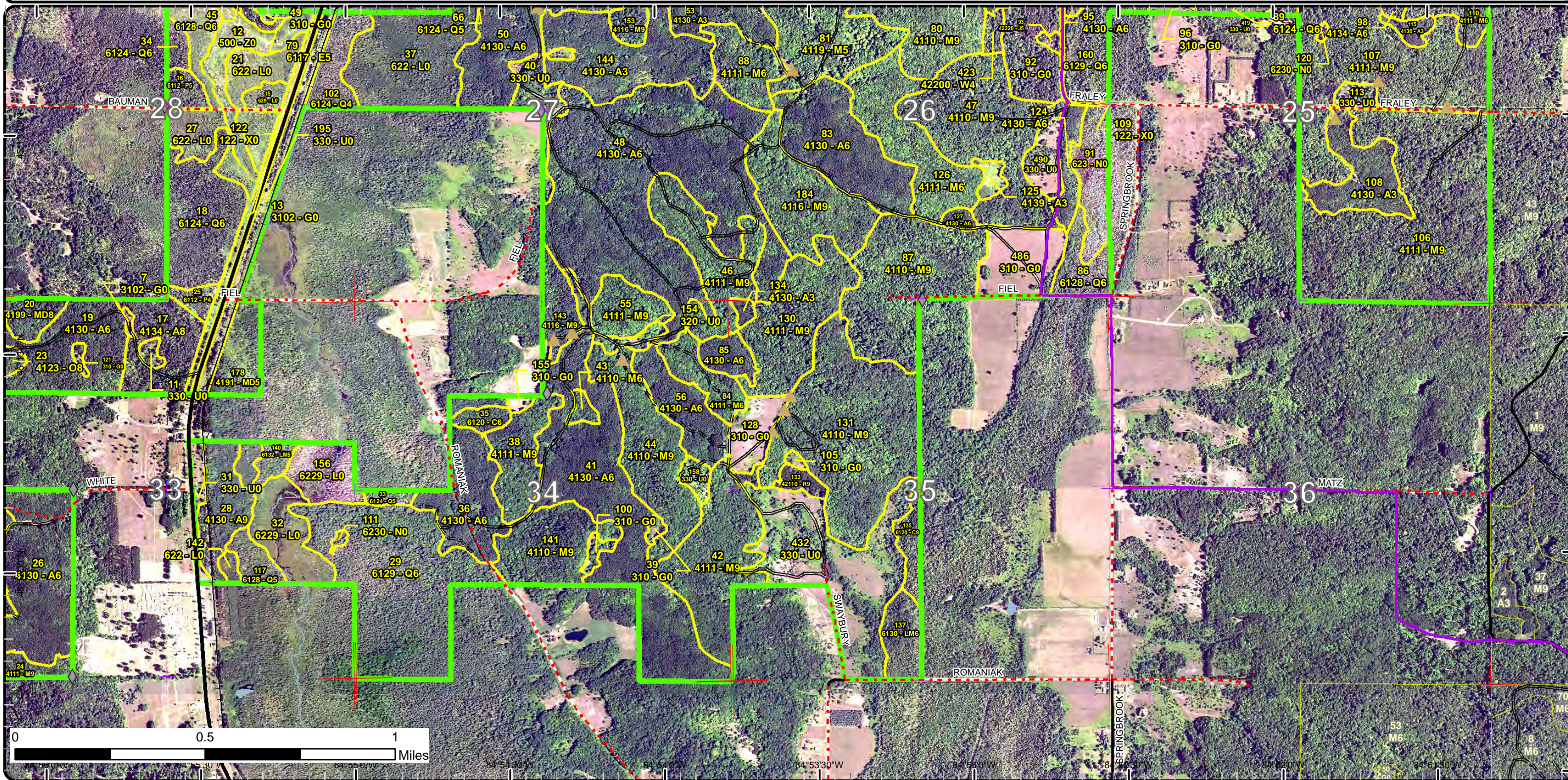


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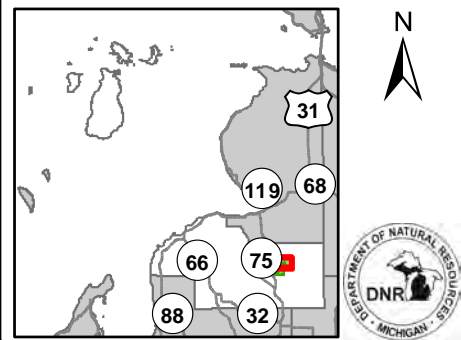
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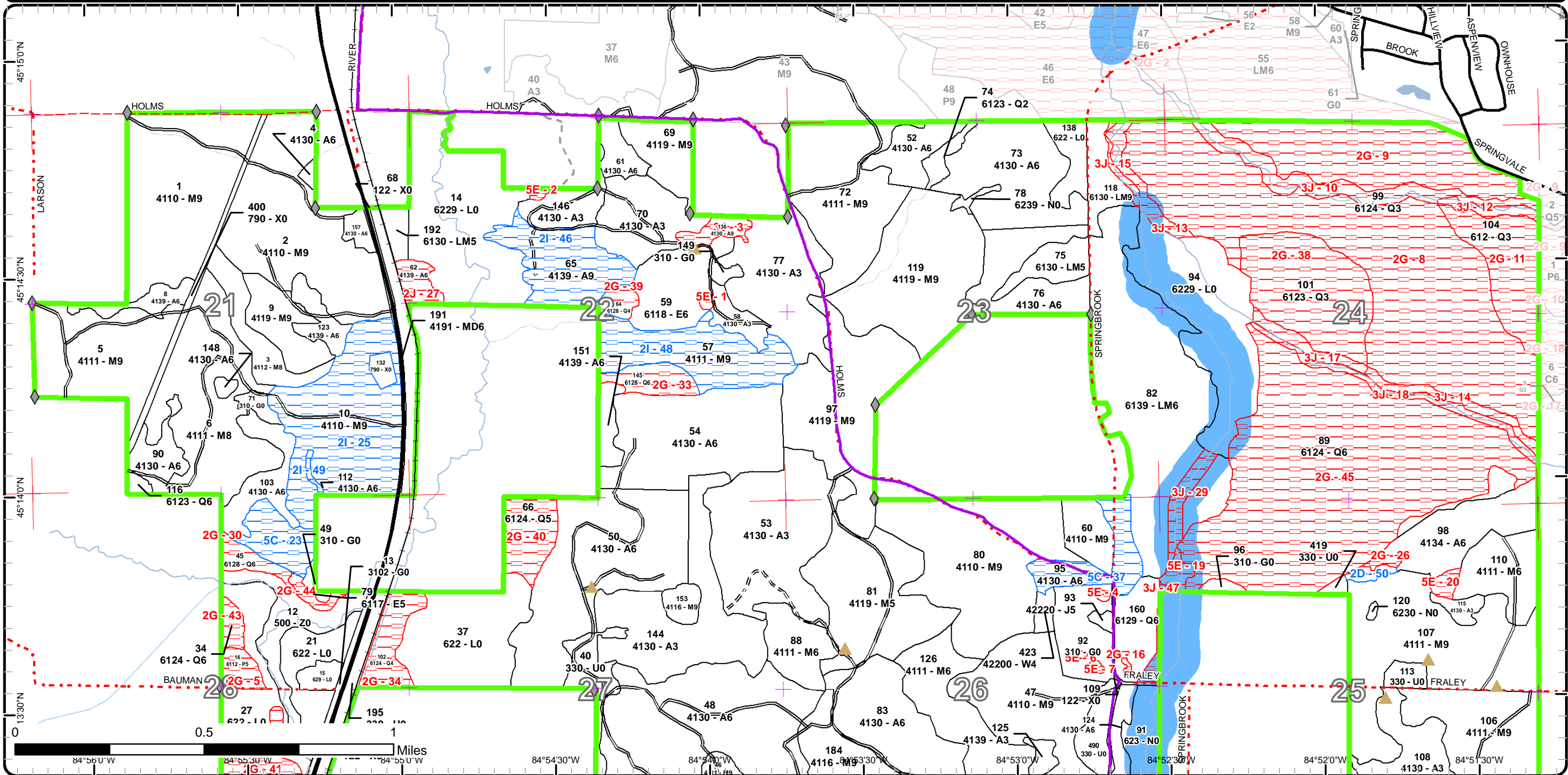


# Special Conservation Areas & Site Conditions Map

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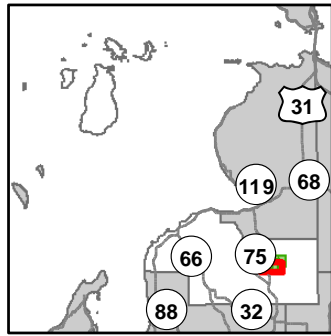
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- Available w/ Constraints
- Unavailable
- 2D: Portable Bridge Needed (Dept. bridge will be adequate)
- 2I: Survey needed
- 5C: Delay treatment for age/size class diversity or exceptional site quality
- 2G: Too wet (sensitive soils, does not include access issues)
- 3J: Water quality / BMPs (stream, river, or lake)
- 5E: Long-Term Retention
- Stand Boundaries
- Cold Water Streams
- High Priority Trout Stream Buffer



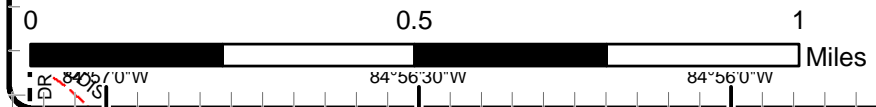
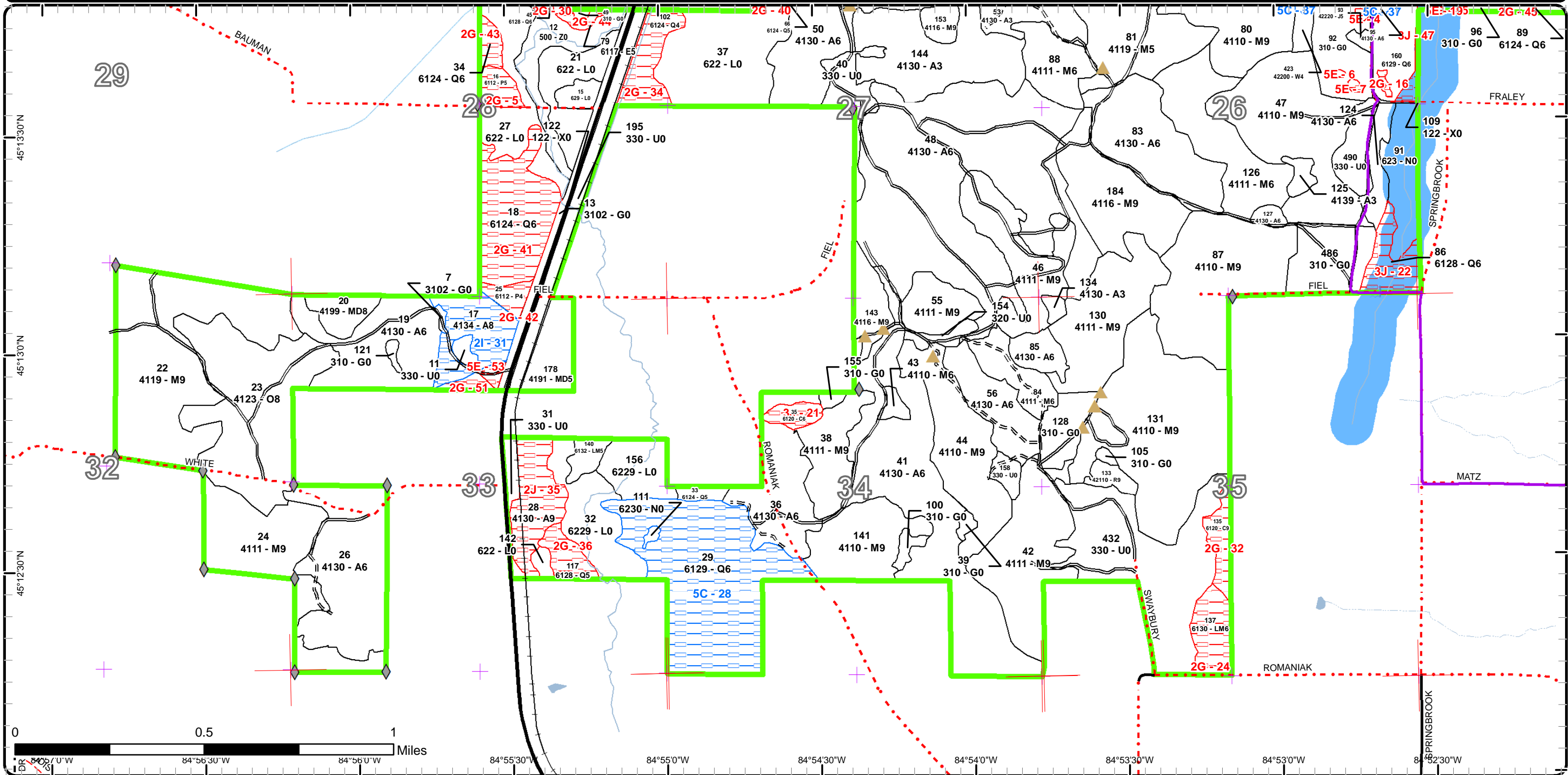


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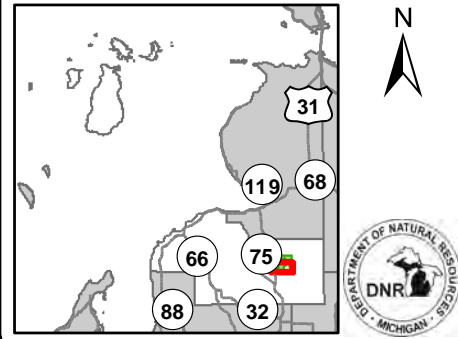
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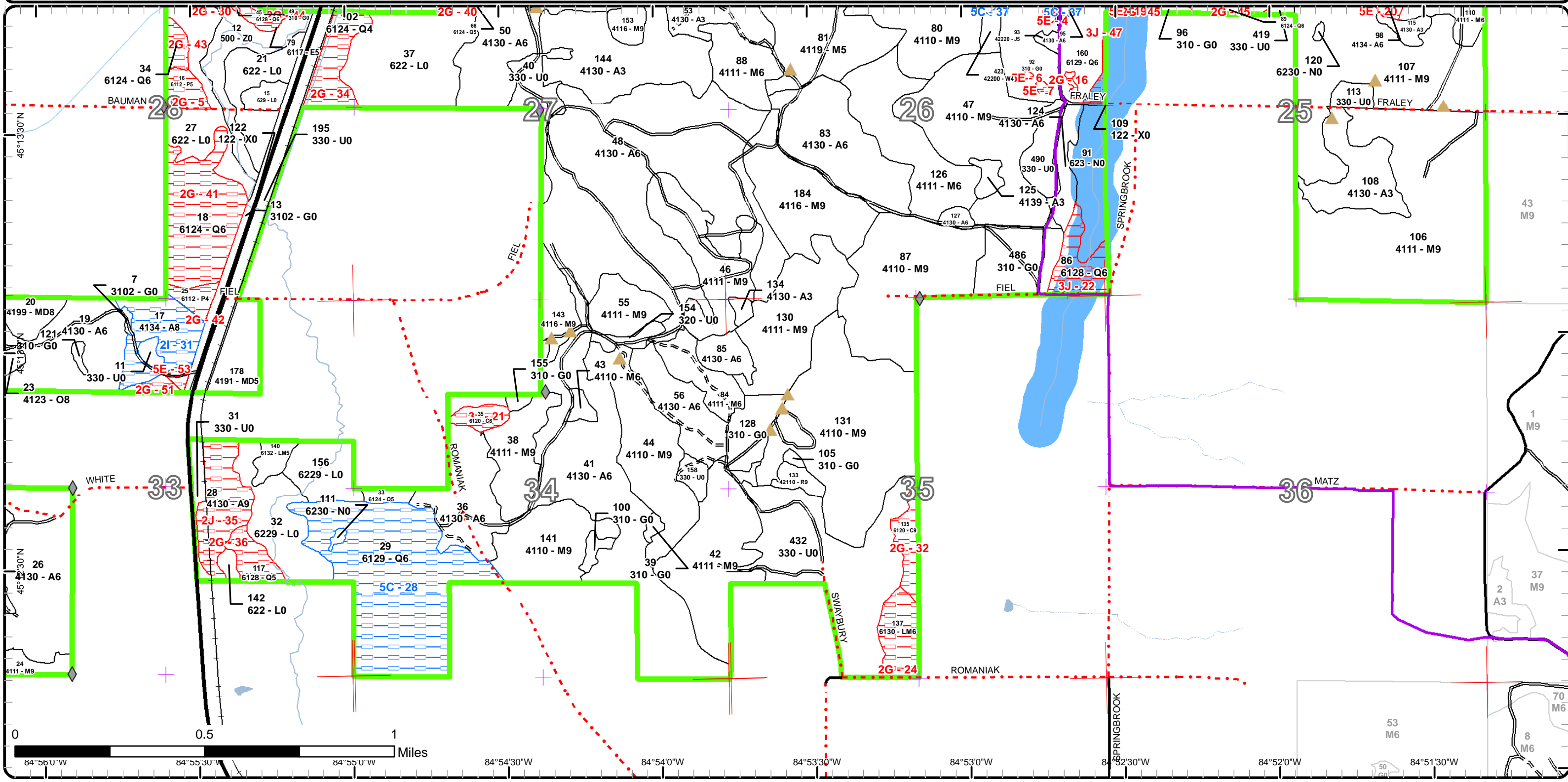


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Report 1 – Total Acres by Cover Type and Age Class



Age Class

	Non-Forest	0-9	10-19	20-29	30-39	40-49	50-59	60-69	70-79	80-89	90-99	100-109	110-119	120-129	130-139	140-149	150+	Uneven-Aged	Total
Aspen	0	27	124	177	521	314	29	41	0	0	0	0	0	0	0	0	0	0	1232
Bare/Sparsely Vegetated	12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12
Cedar	0	0	0	0	0	0	0	0	0	13	0	0	0	0	0	0	0	0	13
Herbaceous Openland	88	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	88
Jack Pine	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
Low-Density Trees	136	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	136
Lowland Aspen/Balsam Poplar	0	0	0	0	5	7	0	0	0	0	0	0	0	0	0	0	0	0	11
Lowland Conifers	0	0	0	0	59	8	32	44	0	38	121	0	0	0	0	0	0	556	858
Lowland Deciduous	0	0	0	0	0	3	0	25	0	0	0	0	0	0	0	0	0	0	28
Lowland Mixed Forest	0	0	0	0	127	12	19	20	0	0	0	0	0	0	0	0	0	0	178
Lowland Shrub	296	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	296
Marsh	22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	22
Mixed Upland Deciduous	0	0	0	0	0	16	15	0	0	10	0	0	0	0	0	0	0	0	41
Northern Hardwood	0	0	0	0	0	0	0	43	407	241	649	0	0	0	0	0	0	460	1800
Oak	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	76	76
Red Pine	0	0	0	0	0	0	0	6	0	0	0	0	0	0	0	0	0	0	6
Upland Shrub	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
Urban	14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	14
Water	24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24
White Pine	0	0	0	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	4
<b>Total</b>	<b>596</b>	<b>27</b>	<b>124</b>	<b>179</b>	<b>712</b>	<b>364</b>	<b>95</b>	<b>179</b>	<b>407</b>	<b>289</b>	<b>783</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1092</b>	<b>4845</b>





## Report 2 – Treatment Summary

Gaylord Mgt. Unit

Year of Entry: 2021

Acres of Harvest

Compartment 39

Total Compartment Acres: 4,844

Commercial Harvest - 580  
 Harvests with Site Condition - 206  
 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	190	0	0	0	0	0	0	0	0	190
Lowland Conifers	21	0	0	0	0	0	0	0	0	21
Lowland Mixed Forest	13	0	0	0	0	0	0	0	0	13
Mixed Upland Deciduous	10	0	0	0	0	0	0	0	0	10
Northern Hardwood	254	298	0	0	0	0	0	0	0	552
<b>Total</b>	<b>487</b>	<b>298</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>786</b>

### Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	786	0	0	0	0	181	0	167	0	1134
Next Step	0	20	0	0	0	826	22	0	0	869
<b>Total</b>	<b>786</b>	<b>20</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1007</b>	<b>22</b>	<b>167</b>	<b>0</b>	<b>2002</b>





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	Approval Status
1	52039001-Monitor	79.0	4110 - Sugar Maple Association	Sawtimber Well	92	51-80	Monitoring	Natural Regen (Intermediate)	411 - Northern Hardwood	Uneven-Aged	Draft Field Boundary
<b>Habitat Cut: No</b>		<b>Site Condition:</b>									
<u>Prescription</u> Regen Check.											
<u>Specs:</u>											
<u>Next Step</u>											
<u>Treatments:</u>											
<u>Acceptable</u> A mix of northern hardwood species that meets minimum stocking requirements and isn't dominated by beech and ironwood.											
<u>Regen:</u>											
<u>Other</u> Percent to Treat = 100%											
<u>Comment:</u>											
<u>Proposed Start Date:</u> 5 /6 /2019											
2	52039002-Monitor	81.5	4110 - Sugar Maple Association	Sawtimber Well	94	51-80	Monitoring	Natural Regen (Intermediate)	411 - Northern Hardwood	Uneven-Aged	Draft Field Boundary
<b>Habitat Cut: No</b>		<b>Site Condition:</b>									
<u>Prescription</u> Regen Check.											
<u>Specs:</u>											
<u>Next Step</u>											
<u>Treatments:</u>											
<u>Acceptable</u> A mix of northern hardwood species that meets minimum stocking criteria that is not dominated by beech and ironwood.											
<u>Regen:</u>											
<u>Other</u> Percent to Treat = 100%											
<u>Comment:</u>											
<u>Proposed Start Date:</u> 10/1 /2019											
6	52039006-Cut	31.5	4111 - S.Maple, Hard Mast Association	Sawtimber Medium	84	81-110	Harvest	Clearcut with Retention	4119 - Mixed Northern Hardwoods	Even-Aged	Draft Field Boundary
<b>Habitat Cut: No</b>		<b>Site Condition:</b>									
<u>Prescription</u> Final harvest. Cut all trees 2" DBH and up, minimum retention. Retention should be placed around steep hills, pocket(s) of large crowned, wind											
<u>Specs:</u> firm sugar maple or red oak.											
<u>Next Step</u> Monitoring, Natural Regen (Intermediate)											
<u>Treatments:</u>											
<u>Acceptable</u> Any mix of sugar maple, basswood or red maple that is not dominated by beech and/or ironwood that meets minimum stocking criteria.											
<u>Regen:</u>											
<u>Other</u> Standing dead ash present. Use caution. Some post harvest treatment may be needed.											
<u>Comment:</u>											
<u>Proposed Start Date:</u> 10/1 /2020											
7	52039007-NF	0.9	3102 - Grass	Nonstocked	0		NonForestMgt	Other - Specify	310 - Herbaceous Openland		Draft Field Boundary
<b>Habitat Cut: No</b>		<b>Site Condition:</b>									
<u>Prescription</u> Brush, mow, plant, burn and/or herbicide to maintain opening. Planting of hard and soft mast.											
<u>Specs:</u>											
<u>Next Step</u>											
<u>Treatments:</u>											
<u>Acceptable</u>											
<u>Regen:</u>											
<u>Other</u>											
<u>Comment:</u>											
<u>Proposed Start Date:</u> 10/1 /2020											





Stand	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
10	52039010-Cut	14.5	4110 - Sugar Maple Association	Sawtimber Well	93	111-140	Harvest	Clearcut	4116 - Mixed N. Hardwood - Aspen	Even-Aged	Draft Field Boundary

**Habitat Cut: No Site Condition: Survey Needed**Prescription Final harvest trees 2" and up. No retention.Specs:Next Step Monitoring, Natural Regen (Re-Inventory)Treatments:Acceptable A mix of desirable species such as aspen, sugar maple, basswood or conifers that meet minimum stocking requirements.Regen:Other Restart stand to encourage any aspen clones from edges.Comment:Proposed Start Date: 4 /3 /2019

10	52039010-Cutx	58.8	4110 - Sugar Maple Association	Sawtimber Well	93	111-140	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven-Aged	Draft Field Boundary
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**Habitat Cut: No Site Condition: Survey Needed**Prescription Mark to cut to an average residual BA of 70-90 sq ft. Cut all beech but mark to leave 1 beech per 2 acres for hard mast or snag creation.Specs: Establish 100' x 100' regeneration gaps at 1 per 5 acres. Protect seeps. Where appropriate, focus regen gaps around aspen clones.Next Step Monitoring, Natural Regen (Intermediate)Treatments:Acceptable A mix of northern hardwood species such as basswood, sugar maple, birch or red maple not dominated by beech and/or ironwood that meets minimum stocking criteria.Regen:Other Beware, standing dead ash is present.Comment:Proposed Start Date: 10/1 /2020

11	52039011-NF	2.3	330 - Low-Density Trees	Nonstocked	0		NonForestMgt	Other - Specify	320 - Upland Shrub		Draft Field Boundary
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**Habitat Cut: No Site Condition:**Prescription Brush, mow, plant, burn and/or herbicide to maintain opening. Planting of hard and soft mast.Specs:Next StepTreatments:AcceptableRegen:OtherComment:Proposed Start Date: 10/1 /2020

17	52039017-Cut	21.8	4134 - Aspen, Spruce/Fir	Sawtimber Medium	48	81-110	Harvest	Clearcut with Retention	4136 - Aspen, Mixed Conifer	Even-Aged	Draft Field Boundary
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**Habitat Cut: No Site Condition: Survey Needed**Prescription Final harvest all trees 2" DBH and up. Protect pre-merchantable balsam fir as much as possible. Place retention in southern part of stand. AddSpecs: drum log specs into sale.Next Step Monitoring, Natural Regen (Re-Inventory)Treatments:Acceptable Any mix of aspen, red maple, birch and mixed conifer that meet minimum stocking requirements.Regen:Other Small culvert over creek. May need to add crane mats for support. Road will need repair. Wet areas throughout sale, consider seasonalComment: harvesting restrictions (dry summer/cold winter). Retention is approximate in southeast corner. Retention will be confirmed during sale prep.Proposed Start Date: 10/1 /2020





Stand Name	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
19	52039019-Cut	12.4	4130 - Aspen	Poletimber Well	38	81-110	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	Draft Field Boundary

**Habitat Cut: No****Site Condition:**

Prescription Final harvest all trees 2" DBH and up to break up the age class. Minimum retention. Place retention around conifer pocket in the north. Do not cut white pine.

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

Acceptable Regen: A mix of predominately aspen, with a minor component of birch, oak, red maple, sugar maple, or mixed conifers that meet minimum stocking requirements.

Other Comment: Two track entering stand may need some work.

Proposed Start Date: 10/1 /2020

20	52039020-Cut	9.6	4199 - Other Mixed Upland Deciduous	Sawtimber Medium	87	51-80	Harvest	Clearcut	4199 - Other Mixed Upland Deciduous	Even-Aged	Draft Field Boundary
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**Habitat Cut: No****Site Condition:**

Prescription Final harvest all trees 2" DBH and up. Small acreage, no retention. Mark to leave two small pockets around large crowned, mast producing oak clumps. Pockets should not exceed more than 5% of treatment area.

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

Acceptable Regen: A mix of oak, sugar maple, red maple, aspen and mixed conifers that meets minimum stocking requirements.

Other Comment:

Proposed Start Date: 10/1 /2020

24	52039024-Cut	10.5	4111 - S.Maple, Hard Mast Association	Sawtimber Well	94	111-140	Harvest	Clearcut	4119 - Mixed Northern Hardwoods	Even-Aged	Draft Field Boundary
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**Habitat Cut: No****Site Condition:**

Prescription Cut all trees 2" DBH and up. Small acreage, no retention. Exclude far east portion of stand due to large, steep slope. Incorporate treatment into stand 6 to encourage expansion of aspen clone.

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

Acceptable Regen: Any mix of sugar maple, basswood, red maple, birch or aspen that is not dominated by beech or ironwood.

Other Comment: Private line and corners are established due to private timber sale. Access to stand can be through stand 6 or may need to gain permission from Northern Michigan Flywheelers to cross their property from east.

Proposed Start Date: 10/1 /2020

24	52039024-Cutx	41.7	4111 - S.Maple, Hard Mast Association	Sawtimber Well	94	111-140	Harvest	Single Tree Selection	4119 - Mixed Northern Hardwoods	Uneven-Aged	Draft Field Boundary
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**Habitat Cut: No****Site Condition:**

Prescription Mark to cut to a residual BA of 70-90 sq ft. Cut beech except mark to leave 1 beech per 2 acres for hard mast production and cavity tree creation.

Specs: Create 100' x 100' regeneration gaps at 1 per 5 acres. Avoid steep hill in southwest corner.

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

Acceptable Regen: Any mix of sugar maple, red maple, basswood, or oak that is not dominated by beech or ironwood that meets minimum stocking requirements.

Other Comment: Heavy beech brush in areas. Private lines and corners are established from private timber sale.

Proposed Start Date: 10/1 /2020





Stand Name	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
26	52039026-Cut	27.7	4130 - Aspen	Poletimber Well	38	81-110	Harvest	Clearcut with Retention	4139 - Aspen, Mixed Deciduous	Even-Aged	Draft Field Boundary

**Habitat Cut: No****Site Condition:**

Prescription Final harvest all trees 2" and up, standard retention. Due to oak present in adjacent stand to north, Oak wilt specs may be needed.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Regen: Predominately aspen with a minor component of northern hardwood species such as sugar maple, red maple, birch, cherry and/or oak that meets minimum stocking requirements.

Other Comment: Survey corners have been established.

Proposed Start Date: 10/1 /2020

31	52039031-NF	5.9	330 - Low-Density Trees	Nonstocked	0	Unspecified	NonForestMgt	Other - Specify	320 - Upland Shrub		Draft Field Boundary
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**Habitat Cut: No****Site Condition:**

Prescription Brush, mow, plant, burn and/or herbicide to maintain opening. Planting of hard and soft mast.

Specs:

Next Step

Treatments:

Acceptable Regen:

Other Comment:

Proposed Start Date: 10/1 /2020

38	52039038-Cut	22.1	4111 - S.Maple, Hard Mast Association	Sawtimber Well	71	81-110	Harvest	Clearcut with Retention	4116 - Mixed N. Hardwood - Aspen	Even-Aged	Draft Field Boundary
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**Habitat Cut: No****Site Condition:**

Prescription Final harvest stand, standard retention, mark 1 beech to leave per 2 acres for mast production and wildlife habitat.

Specs:

Next Step ; Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Regen: A mix of maple, basswood, aspen, and cherry that meets minimum stocking criteria.

Other Comment:

Other Comment: Mark large crowned, wind firm, "woffy" sugar maple to act as a seed source, potential CWD recruitment, and potentially future snags. Mark no more than 2 of these trees per acre.

Proposed Start Date: 10/1 /2020

39	52039039-NF	1.6	310 - Herbaceous Openland	Nonstocked	0		NonForestMgt	Other - Specify	310 - Herbaceous Openland		Draft Field Boundary
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**Habitat Cut: No****Site Condition:**

Prescription Brush, mow, plant, burn and/or herbicide to maintain opening. Planting of hard and soft mast.

Specs:

Next Step

Treatments:

Acceptable Regen:

Other Comment:

Proposed Start Date: 10/1 /2020





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	Approval Status
40	52039040-NF	13.4	330 - Low-Density Trees	Nonstocked			NonForestMgt	Other - Specify	320 - Upland Shrub		Draft Field Boundary

**Habitat Cut: No****Site Condition:**

Prescription Brush, mow, plant, burn and/or herbicide to maintain opening. Planting of hard and soft mast.

Specs:

Next Step

Treatments:

Acceptable

Regen:

Other

Comment:

Proposed Start Date: 10/1 /2020

42	52039042-Cut	48.3	4111 - S.Maple, Hard Mast Association	Sawtimber Well	81	111-140	Harvest	Single Tree Selection	411 - Northern Hardwood	Even-Aged	Draft Field Boundary
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**Habitat Cut: No****Site Condition:**

Prescription Mark to cut with a residual target of 70-90 BA. Establish regen gaps at least 100' in diameter at a rate of no less than 1 per 5 acres. Mark 1

Specs: beech tree to leave for mast production/resistance per acre.

Next Step

Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable

A mix of maple and basswood that is not dominated by ironwood and beech that meets minimum stocking criteria.

Regen:

Other

Be sure to keep seeps and streams out of treatment area when marking.

Comment:

Proposed Start Date: 10/1 /2020

43	52039043-Cut	2.9	4110 - Sugar Maple Association	Poletimber Well	68	51-80	Harvest	Clearcut	4116 - Mixed N. Hardwood - Aspen	Even-Aged	Draft Field Boundary
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**Habitat Cut: No****Site Condition:**

Prescription Final harvest stand, no retention due to small stand size.

Specs:

Next Step

Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable

A mix of maple, basswood, cherry, and aspen that meets minimum stocking criteria.

Regen:

Other

Comment:

Proposed Start Date: 10/1 /2020

48	52039048-Cut	50.9	4130 - Aspen	Poletimber Well	44	81-110	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	Draft Field Boundary
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**Habitat Cut: No****Site Condition:**

Prescription Final harvest 2" and up, leave standard retention.

Specs:

Next Step

Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable

aspen, maple, basswood

Regen:

Other

Comment:

Proposed Start Date: 10/1 /2020





Stand	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
49	52039049-NF	2.0	310 - Herbaceous Openland	Nonstocked	0		NonForestMgt	Other - Specify	310 - Herbaceous Openland		Draft Field Boundary

**Habitat Cut: No****Site Condition:**

Prescription Brush, mow, plant, burn and/or herbicide to maintain opening. Planting of hard and soft mast.

Specs:

Next Step

Treatments:

Acceptable

Regen:

Other

Comment:

Proposed Start Date: 10/1 /2020

55	52039055-Cut	15.7	4111 - S.Maple, Hard Mast Association	Sawtimber Well	68	81-110	Harvest	Clearcut with Retention	4116 - Mixed N. Hardwood - Aspen	Even-Aged	Draft Field Boundary
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**Habitat Cut: No****Site Condition:**

Prescription Final harvest stand, standard retention.

Specs:

Next Step

Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable

A mix of aspen, red maple, sugar maple, basswood, with minor components of other species that meets minimum stocking criteria.

Regen:

Other

Comment:

Proposed Start Date: 10/1 /2020

57	52039057-Cut	15.2	4111 - S.Maple, Hard Mast Association	Sawtimber Well	92	111-140	Harvest	Clearcut	411 - Northern Hardwood	Even-Aged	Draft Field Boundary
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**Habitat Cut: No****Site Condition: Survey Needed**

Prescription Final harvest with no retention due to storm damage.

Specs:

Next Step

Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable

A mix of northern hardwood species such as maple, basswood, cherry, and birch that is not dominated by beech and/or ironwood that meets minimum stocking criteria.

Regen:

Other

This portion of the stand has received storm damage. Access will be difficult with steep hills, work with site condition forester during sale prep.

Comment:

Proposed Start Date: 10/1 /2019

57	52039057-Cutx	26.1	4111 - S.Maple, Hard Mast Association	Sawtimber Well	92	111-140	Harvest	Single Tree Selection	411 - Northern Hardwood	Even-Aged	Draft Field Boundary
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**Habitat Cut: No****Site Condition: Survey Needed**

Prescription Thin stand down to 80 BA, create 100 ft regeneration gaps, at least 1 for every 5 acres. Harvest all beech, mark out any large, overmature ones to leave for mast production. Clearcut the small aspen pocket along the west boundary of this stand (approximately 3 acres). Follow BMP's along creek found along the north edge of the stand. Protect any seeps found during sale prep.

Specs:

Next Step

Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable

A mix of northern hardwood species representative of the parent stand.

Regen:

Other

Tough access with steep hills, private property, and creeks and wet soils. Crane mats may be needed to cross stand 64 if hills along east end of stand are too steep. Work with site condition forester if needed during sale prep.

Comment:

Proposed Start Date: 10/1 /2020





Stand	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
61	52039061-Cut	8.2	4130 - Aspen	Poletimber Well	36	81-110	Harvest	Clearcut	413 - Aspen	Even-Aged	Draft Field Boundary

**Habitat Cut: No****Site Condition:**

Prescription Final harvest with no retention due to small stand size. Add trail protection specs for the snowmobile trail.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Aspen, maple, basswood.

Regen:

Other

Comment:

Proposed Start Date: 10/1 /2020

65	52039065-Cut	34.5	4139 - Aspen, Mixed Deciduous	Sawtimber Well	68	111-140	Harvest	Clearcut with Retention	4139 - Aspen, Mixed Deciduous	Even-Aged	Draft Field Boundary
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**Habitat Cut: No****Site Condition: Survey Needed**

Prescription Final harvest with retention, focus retention around areas with a conifer component for wildlife cover. Do not cut cedar or hemlock.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Aspen, maple, basswood, white pine.

Regen:

Other

Might be a couple of wet areas within this stand that need to be lined out.

Comment:

Proposed Start Date: 10/1 /2020

69	52039069-Cut	18.3	4119 - Mixed Northern Hardwoods	Sawtimber Well	92	81-110	Harvest	Clearcut with Retention	4116 - Mixed N. Hardwood - Aspen	Even-Aged	Draft Field Boundary
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**Habitat Cut: No****Site Condition:**

Prescription Final harvest with standard retention, leave retention around longer lived species (maple, oak). Add snowmobile trail protection specs.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Maple, aspen, basswood, oak. A beech and ironwood dominated stand is not acceptable.

Regen:

Other

Comment:

Proposed Start Date: 10/1 /2020

89	52039089-Cut	5.2	6124 - Lowland Spruce-Fir	Poletimber Well	75	81-110	Harvest	Clearcut	6128 - Lowland Coniferous, Mixed Deciduous	Even-Aged	Draft Field Boundary
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**Habitat Cut: No****Site Condition:**

Prescription Final harvest this portion of the stand, no retention due to small harvest size.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable A stand with a mix of aspen, fir, spruce, and other incidental lowland species that meets minimum stock criteria.

Regen:

Other Be sure to utilize appropriate specs to create beneficial snowshoe hare habitat during harvest operations.

Comment:

Proposed Start Date: 10/1 /2020





Stand Name	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
92	52039092-Monitor	20.3	310 - Herbaceous Openland	Nonstocked	0	Unspecified	Monitoring	Artificial Regen(1yr)	4211 - Planted Red Pine	Even-Aged	Draft Field Boundary
<b>Habitat Cut: No</b>			<b>Site Condition:</b>								
<u>Prescription</u> Year 1 regen survey											
<u>Specs:</u>											
<u>Next Step</u> SitePrep, Trenching; ; ; Monitoring, Artificial Regen(3yr); Monitoring, Natural Regen (Re-Inventory)											
<u>Treatments:</u>											
<u>Acceptable</u> Planted red pine.											
<u>Regen:</u>											
<u>Other</u> Percent to Treat = 100%											
<u>Comment:</u>											
<u>Proposed Start Date:</u> 10/1 /2019											
96	52039096-NF	2.3	310 - Herbaceous Openland	Nonstocked	0	Unspecified	NonForestMgt	Other - Specify	310 - Herbaceous Openland		Draft Field Boundary
<b>Habitat Cut: No</b>			<b>Site Condition:</b>								
<u>Prescription</u> Brush, mow, plant, burn and/or herbicide to maintain opening. Planting of hard and soft mast.											
<u>Specs:</u>											
<u>Next Step</u>											
<u>Treatments:</u>											
<u>Acceptable</u>											
<u>Regen:</u>											
<u>Other</u>											
<u>Comment:</u>											
<u>Proposed Start Date:</u> 10/1 /2020											
97	52039097-Cut	69.1	4119 - Mixed Northern Hardwoods	Sawtimber Well	78	81-110	Harvest	Clearcut with Retention	4116 - Mixed N. Hardwood - Aspen	Even-Aged	Draft Field Boundary
<b>Habitat Cut: No</b>			<b>Site Condition:</b>								
<u>Prescription</u> Final harvest, leave retention around areas with oak for mast production. Add snowmobile trail protection specs.											
<u>Specs:</u>											
<u>Next Step</u> Monitoring, Natural Regen (Intermediate)											
<u>Treatments:</u>											
<u>Acceptable</u> Maple, aspen, basswood, oak. A beech dominated stand is not acceptable.											
<u>Regen:</u>											
<u>Other</u>											
<u>Comment:</u>											
<u>Proposed Start Date:</u> 10/1 /2019											
98	52039098-Cut	33.9	4134 - Aspen, Spruce/Fir	Poletimber Well	48	81-110	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	Draft Field Boundary
<b>Habitat Cut: No</b>			<b>Site Condition: Portable Bridge Needed</b>								
<u>Prescription</u> Final harvest stand, place retention around cedar in southernmost finger, also place small pockets around any hemlock. Be sure to utilize appropriate specs in order to facilitate the creation of beneficial snowshoe hare habitat during logging operations.											
<u>Specs:</u>											
<u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)											
<u>Treatments:</u>											
<u>Acceptable</u> A mix of aspen with smaller components of black spruce, balsam fir, and other incidental deciduous species that meets minimum stocking criteria.											
<u>Regen:</u>											
<u>Other</u> Small wet pocket in the west finger of the stand has already been drawn out of the treatment. West finger of treatment is cut off from main portion by a small creek, will need to be crossed or navigated around if possible.											
<u>Comment:</u>											
<u>Proposed Start Date:</u> 10/1 /2020											





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	Approval Status
100	52039100-NF	2.7	310 - Herbaceous Openland	Nonstocked	0		NonForestMgt	Other - Specify	310 - Herbaceous Openland		Draft Field Boundary

**Habitat Cut: No****Site Condition:**

Prescription Brush, mow, plant, burn and/or herbicide to maintain opening. Planting of hard and soft mast.

Specs:

Next Step

Treatments:

Acceptable

Regen:

Other

Comment:

Proposed Start Date: 10/1 /2020

105	52039105-NF	1.1	310 - Herbaceous Openland	Nonstocked	0		NonForestMgt	Other - Specify	310 - Herbaceous Openland		Draft Field Boundary
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**Habitat Cut: No****Site Condition:**

Prescription Brush, mow, plant, burn and/or herbicide to maintain opening. Planting of hard and soft mast.

Specs:

Next Step

Treatments:

Acceptable

Regen:

Other

Comment:

Proposed Start Date: 10/1 /2020

112	52039112-Cut	1.0	4130 - Aspen	Poletimber Well	23	1-50	Harvest	Clearcut	4139 - Aspen, Mixed Deciduous	Even-Aged	Draft Field Boundary
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**Habitat Cut: No****Site Condition: Survey Needed**

Prescription Final harvest stand along with adjacent treatments. Cut all trees 2" and up, no retention due to small acreage.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Predominately aspen with a minor component of sugar maple, red maple, basswood, birch and oak that is not dominated by beech or aspen that

Regen: meets minimum stocking requirements.

Other

Comment:

Proposed Start Date: 10/1 /2020

113	52039113-NF	4.6	330 - Low-Density Trees	Nonstocked	0		NonForestMgt	Other - Specify	320 - Upland Shrub		Draft Field Boundary
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**Habitat Cut: No****Site Condition:**

Prescription Brush, mow, plant, burn and/or herbicide to maintain opening. Planting of hard and soft mast.

Specs:

Next Step

Treatments:

Acceptable

Regen:

Other

Comment:

Proposed Start Date: 10/1 /2020





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	Approval Status
118	52039118-Cut	12.6	6130 - Fir, Aspen, Maple	Sawtimber Well	68	81-110	Harvest	Clearcut with Retention	613 - Lowland Mixed Forest	Even-Aged	Draft Field Boundary

**Habitat Cut: No****Site Condition:**

Prescription Final harvest stand, retention already established in MIFI. Do not use 2 inch spec. Mark 5-10 cedar per acre where it is abundant to be dropped  
Specs: and act as nurse logs.

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

Acceptable A mix of aspen, balsam fir, black spruce, and white cedar that meets minimum stocking criteria.  
Regen:

Other Retention already established with the creek buffer on the east side of the stand.  
Comment:

Proposed Start Date: 10/1 /2020

121	52039121-NF	1.3	310 - Herbaceous Openland	Nonstocked	0		NonForestMgt	Other - Specify	310 - Herbaceous Openland		Draft Field Boundary
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**Habitat Cut: No****Site Condition:**

Prescription Brush, mow, plant, burn and/or herbicide to maintain opening. Planting of hard and soft mast.  
Specs:

Next Step  
Treatments:

Acceptable  
Regen:

Other  
Comment:

Proposed Start Date: 10/1 /2020

128	52039128-NF	13.3	310 - Herbaceous Openland	Nonstocked	0		NonForestMgt	Other - Specify	310 - Herbaceous Openland		Draft Field Boundary
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**Habitat Cut: No****Site Condition:**

Prescription Brush, mow, plant, burn and/or herbicide to maintain opening. Planting of hard and soft mast.  
Specs:

Next Step  
Treatments:

Acceptable  
Regen:

Other  
Comment:

Proposed Start Date: 10/1 /2020

131	52039131-Cut	92.3	4110 - Sugar Maple Association	Sawtimber Well	84	111- 140	Harvest	Single Tree Selection	411 - Northern Hardwood	Even-Aged	Draft Field Boundary
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**Habitat Cut: No****Site Condition:**

Prescription Mark to cut with a residual BA target of 70-90 sq ft. Cut all beech. Mark 1 beech to leave per 2 acres for hard mast production and to develop  
Specs: into a snag. Establish regen gaps at least 100' in diameter roughly 1 per 5 acres.

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

Acceptable A mix of northern hardwood species not dominated by beech and/or ironwood that meets minimum stocking criteria.  
Regen:

Other Be sure to keep seeps out of treatment area when marking.  
Comment:

Proposed Start Date: 10/1 /2020





Stand Name	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
141	52039141-Cut	31.1	4110 - Sugar Maple Association	Sawtimber Well	77	111-140	Harvest	Single Tree Selection	411 - Northern Hardwood	Even-Aged	Draft Field Boundary

**Habitat Cut: No****Site Condition:**

Prescription Mark stand to cut with a residual target of 70-90 sq ft. Establish regen gaps at least 100' in diameter at a rate roughly 1 per 5 acres. Cut all  
Specs: beech, mark 1 beech to leave per 2 acres for hard mast and wildlife habitat.

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

Acceptable A mix of norther hardwood species that isn't dominated by beech or ironwood, and meets minimum stocking criteria.  
Regen:

Other  
Comment:

Proposed Start Date: 10/1 /2020

143	52039143-Cut	12.6	4116 - Mixed N. Hardwood - Aspen	Sawtimber Well	71	81-110	Harvest	Clearcut with Retention	4116 - Mixed N. Hardwood - Aspen	Even-Aged	Draft Field Boundary
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**Habitat Cut: No****Site Condition:**

Prescription Final harvest stand, establish retention along the wet areas that are adjacent to the private boundary on the west line of the stand. These areas  
Specs: may total more than 10 percent of the stand.

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

Acceptable A mix of aspen, maple, basswood, and cherry that meets minimum stocking criteria.  
Regen:

Other  
Comment:

Proposed Start Date: 10/1 /2020

149	52039149-NF	2.4	310 - Herbaceous Openland	Nonstocked	0		NonForestMgt	Other - Specify	310 - Herbaceous Openland		Draft Field Boundary
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**Habitat Cut: No****Site Condition:**

Prescription Brush, mow, plant, burn and/or herbicide to maintain opening. Planting of hard and soft mast.  
Specs:

Next Step  
Treatments:

Acceptable  
Regen:

Other  
Comment:

Proposed Start Date: 10/1 /2020

154	52039154-NF	4.2	320 - Upland Shrub	Nonstocked			NonForestMgt	Other - Specify	320 - Upland Shrub		Draft Field Boundary
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**Habitat Cut: No****Site Condition:**

Prescription Brush, mow, plant, burn and/or herbicide to maintain opening. Planting of hard and soft mast.  
Specs:

Next Step  
Treatments:

Acceptable  
Regen:

Other  
Comment:

Proposed Start Date: 10/1 /2020





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	Approval Status
158	52039158-NF	4.2	330 - Low-Density Trees	Nonstocked	0		NonForestMgt	Other - Specify	320 - Upland Shrub		Draft Field Boundary

**Habitat Cut: No****Site Condition:**

Prescription Brush, mow, plant, burn and/or herbicide to maintain opening. Planting of hard and soft mast.

Specs:

Next Step

Treatments:

Acceptable

Regen:

Other

Comment:

Proposed Start Date: 10/1 /2020

160	52039160-Cut	15.6	6129 - Mixed Coniferous Lowland Forest	Poletimber Well	88	111- 140	Harvest	Clearcut with Retention	613 - Lowland Mixed Forest	Even-Aged	Draft Field Boundary
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**Habitat Cut: No****Site Condition:**

Prescription Final harvest stand. Leave all white pine and red pine greater than 15 inches. Leave all hemlock, make sure that tops are lopped and scattered and that sale is cut in the winter or very dry summer. Do not use 2 inch spec, there are pockets of advanced regen in the 2"-4" range that should be protected. Mark one clump (5-10) of lowland conifer species per acre to act as a seed source.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable

A mix of fir, spruce, cedar, white pine, aspen, and birch that meets minimum stocking standards

Regen:

Other Retention has already been placed in the NE corner to account for seeps to flow into the creek to the east. More retention may be placed dependent upon if any additional creeks are found during set up. This may result in larger than 10 percent retention of the stand. Be sure to follow appropriate Rec Trail BMPs when working next to the snowmobile trail on the west side of the stand.

Proposed Start Date: 10/1 /2020

184	52039184-Cut	41.5	4116 - Mixed N. Hardwood - Aspen	Sawtimber Well	91	81-110	Harvest	Clearcut with Retention	4116 - Mixed N. Hardwood - Aspen	Even-Aged	Draft Field Boundary
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**Habitat Cut: No****Site Condition:**

Prescription Final harvest with standard retention, leave retention around longer live species (maple).

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable

Maple, aspen, basswood. A stand dominated by beech and ironwood is not acceptable.

Regen:

Other

Comment:

Proposed Start Date: 10/1 /2020

432	52039432-NF	70.6	330 - Low-Density Trees	Nonstocked			NonForestMgt	Other - Specify	320 - Upland Shrub		Draft Field Boundary
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**Habitat Cut: No****Site Condition:**

Prescription Brush, mow, plant, burn and/or herbicide to maintain opening. Planting of hard and soft mast.

Specs:

Next Step

Treatments:

Acceptable

Regen:

Other

Comment:

Proposed Start Date: 10/1 /2020





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	Approval Status
486	52039486-NF	23.4	310 - Herbaceous Openland	Nonstocked			NonForestMgt	Other - Specify	310 - Herbaceous Openland		Draft Field Boundary

**Habitat Cut: No**

**Site Condition:**

Prescription Brush, mow, plant, burn and/or herbicide to maintain opening. Planting of hard and soft mast. Protect trail on east side of opening.

Specs:

Next Step

Treatments:

Acceptable

Regen:

Other

Comment:

Proposed Start Date: 10/1 /2020

490	52039490-NF	11.1	330 - Low-Density Trees	Nonstocked			NonForestMgt	Other - Specify	320 - Upland Shrub		Draft Field Boundary
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**Habitat Cut: No**

**Site Condition:**

Prescription Brush, mow, plant, burn and/or herbicide to maintain opening. Planting of hard and soft mast. Protect trail on east side of opening.

Specs:

Next Step

Treatments:

Acceptable

Regen:

Other

Comment:

Proposed Start Date: 10/1 /2020

**Total Treatment  
Acreage Proposed: 1133.7**

## Report 4 – Site Conditions

Gaylord Mgt. Unit  
Zach Crew : Examiner

Compartment: 39  
Year of Entry: 2021

### Availability for Management

Total Acres	Acres Available	Acres Avail		Dominant Site Conditions	Dominant Site Conditions						
		With Condition	Not Available		2D	2I	5C	2G	2J	3J	5E
1232	1108	<b>79</b>	46	Aspen	<b>2</b>	<b>57</b>	<b>19</b>	4	29	6	7
12	12	<b>0</b>	0	Bare/Sparsely Vegetated							
13	0	<b>0</b>	13	Cedar				8		5	
88	87	<b>0</b>	2	Herbaceous Openland							2
2	2	<b>0</b>	0	Jack Pine							
136	136	<b>0</b>	0	Low-Density Trees							
11	0	<b>0</b>	11	Lowland Aspen/Balsam Poplar				11			
859	31	<b>91</b>	737	Lowland Conifers			<b>91</b>	660		73	4
28	25	<b>0</b>	3	Lowland Deciduous				3			
178	155	<b>0</b>	23	Lowland Mixed Forest				14		9	
296	296	<b>0</b>	0	Lowland Shrub							
22	22	<b>0</b>	0	Marsh							
41	41	<b>0</b>	0	Mixed Upland Deciduous							
1799	1668	<b>131</b>	0	Northern Hardwood		<b>115</b>	<b>16</b>				
76	76	<b>0</b>	0	Oak							
6	6	<b>0</b>	0	Red Pine							
4	4	<b>0</b>	0	Upland Shrub							
14	14	<b>0</b>	0	Urban							
24	24	<b>0</b>	0	Water							
4	4	<b>0</b>	0	White Pine							
4,844	3,709	<b>301</b>	835	Total Forested Acres	<b>2</b>	<b>173</b>	<b>125</b>	701	29	94	12
	77%	<b>6%</b>	17%	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	1	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							



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2	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
3	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	6	2F: Too steep	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Steep slope that leads down to a seep.							
4	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
5	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	7	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
6	Unavailable	5E: Long-Term Retention	0	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
7	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
8	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	189	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Beaver activity and multiple stream crossings would make harvesting in this area anytime in the future problematic if not downright impossible.							

## Report 4 – Site Conditions

Gaylord Mgt. Unit  
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9	<b>Unavailable</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	66	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Beaver activity and multiple stream crossings would make harvesting in this area anytime in the future problematic if not downright impossible.							
10	<b>Unavailable</b>	<b>3J: Water quality / BMPs (stream, river, or lake)</b>	22	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> SMZ for the north branch of Springbrook Creek.							
11	<b>Unavailable</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	32	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
12	<b>Unavailable</b>	<b>3J: Water quality / BMPs (stream, river, or lake)</b>	4	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> SMZ for the North branch of Springbrook Creek.							
13	<b>Unavailable</b>	<b>3J: Water quality / BMPs (stream, river, or lake)</b>	8	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Beaver activity and multiple stream crossings would make harvesting in this area anytime in the future problematic if not downright impossible.							
14	<b>Unavailable</b>	<b>3J: Water quality / BMPs (stream, river, or lake)</b>	7	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							



## Report 4 – Site Conditions

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15	<b>Unavailable</b>	<b>3J: Water quality / BMPs (stream, river, or lake)</b>	2	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
16	<b>Unavailable</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	1	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Cattail marsh							
17	<b>Unavailable</b>	<b>3J: Water quality / BMPs (stream, river, or lake)</b>	6	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
18	<b>Unavailable</b>	<b>3J: Water quality / BMPs (stream, river, or lake)</b>	10	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
19	<b>Unavailable</b>	<b>5E: Long-Term Retention</b>	4	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
20	<b>Unavailable</b>	<b>5E: Long-Term Retention</b>	3	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
21	<b>Unavailable</b>	<b>3J: Water quality / BMPs (stream, river, or lake)</b>	5	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							

## Report 4 – Site Conditions

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22	<b>Unavailable</b>	<b>3J: Water quality / BMPs (stream, river, or lake)</b>	13	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
23	<b>Available</b>	<b>5C: Delay treatment for age/size class diversity or exceptional site quality</b>	16	5B: Maintain for regeneration purposes	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Good sapling/small pole sugar maple recruitment into intermediate class within natural gaps. Hold this portion until next entry to see change.							
24	<b>Unavailable</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	14	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
25	<b>Available</b>	<b>2I: Survey needed</b>	74	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
26	<b>Unavailable</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	2	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
27	<b>Unavailable</b>	<b>2J: Blocked by Railroad</b>	7	2I: Survey needed	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Railroad blocking access into stand. Survey would be recommended to establish property line if harvest is possible.							



## Report 4 – Site Conditions

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28	<b>Available</b>	<b>5C: Delay treatment for age/size class diversity or exceptional site quality</b>	91	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Delay any treatments in this stand until adjacent aspen in stand 36 is harvested.							
29	<b>Unavailable</b>	<b>3J: Water quality / BMPs (stream, river, or lake)</b>	7	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
30	<b>Unavailable</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	7	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> High water level throughout most of stand, small acreage and signs of high wildlife traffic.							
31	<b>Available</b>	<b>2I: Survey needed</b>	22	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Records indicate past corner establishment. Couldn't find it during inventory.							
32	<b>Unavailable</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	8	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
33	<b>Unavailable</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	10	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							

## Report 4 – Site Conditions

Gaylord Mgt. Unit  
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Compartment: 39  
Year of Entry: 2021

34	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	15	2J: Blocked by Railroad	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
35	Unavailable	2J: Blocked by Railroad	22	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
36	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	8	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
37	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	19	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
38	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	53	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Blocked by streams all around, no way to get to sale from any high ground.							
39	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	5	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							



## Report 4 – Site Conditions

Gaylord Mgt. Unit  
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Compartment: 39  
Year of Entry: 2021

40	<b>Unavailable</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	17	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
41	<b>Unavailable</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	40	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Wet and low volume.							
42	<b>Unavailable</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	5	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Majority of stand wet with little volume.							
43	<b>Unavailable</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	4	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
44	<b>Unavailable</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	3	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							

## Report 4 – Site Conditions

Gaylord Mgt. Unit  
Zach Crew : Examiner

Compartment: 39  
Year of Entry: 2021

45	<b>Unavailable</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	212	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
46	<b>Available</b>	<b>2I: Survey needed</b>	35	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
47	<b>Unavailable</b>	<b>3J: Water quality / BMPs (stream, river, or lake)</b>	3	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> This portion of treatment falls within the 300' buffer for a Cold Water Trout Stream, will have to get approval from Fisheries Division to harvest in this area.							
48	<b>Available</b>	<b>2I: Survey needed</b>	41	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Crane mats may also be needed if hills on the east end of the stand are too steep.							
49	<b>Available</b>	<b>2I: Survey needed</b>	1	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
50	<b>Available</b>	<b>2D: Portable Bridge Needed (Dept. bridge will be adequate)</b>	3	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Could be possible to cross stream with just crane mats							



## Report 4 – Site Conditions

Gaylord Mgt. Unit  
Zach Crew : Examiner

Compartment: 39  
Year of Entry: 2021

51	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	3	2I: Survey needed	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Records indicate past corner establishment. Couldn't find it during inventory.							
53	Unavailable	5E: Long-Term Retention	2	2I: Survey needed	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Records indicate past corner establishment. Couldn't find it during inventory.							

Mgt. Unit

Compartment: #Type!

Year of Entry:



### Report 5 – PROPOSED SPECIAL CONSERVATION AREA\* (SCA) DETAILS

\* This is a partial list of SCAs for this compartment. Not included are those areas identified under other Department initiatives (Natural Rivers, Deer Wintering Areas, etc.). Those will be identified in separate, future map and report products.

SCA Name	SCA Category	Detail Type	Recommendation	Acres
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Comments





**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 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	4110 - Sugar Maple Association	Sawtimber Well	78.8	92	51-80	N/A	Thinned and salvaged in 2015. Portions that were too steep were left out of sale. Very good quality logs throughout. Few healthy scattered beech were left. Gaps were not established into sale but natural gaps are found throughout.			
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Canopy Species</b>		<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>
Sugar Maple		68	Log/Pole	12	92	Hemlock		Low	Variable	Pole
Basswood		20	Log/Pole	12		Blackberry/Raspberry		High	5 - 10 feet	Tall Shrub
Red Maple		10	Log/Pole	12		Sugar Maple		Low	Variable	Sapling
						Beech	High	5 - 10 feet	Sapling	
2	4110 - Sugar Maple Association	Sawtimber Well	82.5	94	51-80	N/A	Hilly stand with ridges and valleys running east/west. Good quality logs throughout with scattered large poles intermixed. Finished a thinning along with a Beech and Ash salvage in 2015. Seeps present along with an intermittent stream in the north portion of the stand. Beech presence heavy throughout with Ash saplings focused more in the SE corner.			
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Canopy Species</b>		<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>
Sugar Maple		68	Log/Pole	13	94	White Ash		High	5 - 10 feet	Sapling
Red Maple		7	Log/Pole	11		Ironwood		Medium	10 - 20 feet	Sapling
Basswood		20	Log	13		Beech		High	5 - 10 feet	Sapling
						Blackberry/Raspberry		Medium	< 5 feet	Tall Shrub
						Hemlock		Low	>20 feet	Pole
						Sugar Maple	Trace	5 - 10 feet	Sapling	
3	4112 - Maple, Beech, Cherry Association	Sawtimber Medium	17.9	86	81-110	N/A	North portion of stand is on a very steep hill. Lots of blowdown, beech mortality and standing dead ash. Some beech showing resistance. Further south, quality increases along with better operating conditions. 6 plots averaged at ~92 sqft.			
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Canopy Species</b>		<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>
Sugar Maple		40	Log/Pole	10	86	Beech		High	5 - 10 feet	Sapling
Beech		34	Log	14		Sugar Maple		Low	>20 feet	Pole
Basswood		18	Log	13		Ironwood	Medium	5 - 10 feet	Sapling	
4	4130 - Aspen	Poletimber Well	1.5	26	51-80	N/A	Small pole sized stand harvested in 1993. Small conifer component in stand along intermittent creek.			
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Canopy Species</b>		<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>
Quaking Aspen		35	Pole/Sapling	5	26	Beech		Low	10 - 20 feet	Sapling
Bigtooth Aspen		40	Pole/Sapling	5	26	Ironwood		Medium	5 - 10 feet	Sapling
Sugar Maple		7	Sapling/Pole	3		Sugar Maple		Trace	5 - 10 feet	Sapling
Ironwood		10	Sapling/Pole	4		Red Maple		Low	10 - 20 feet	Sapling
						Black Cherry		Low	10 - 20 feet	Sapling
5	4111 - S.Maple, Hard Mast Association	Sawtimber Well	54.3	93	81-110	N/A	Hilly stand, never salvaged with lots of blow down present. Quality and stocking variable. Some beech are healthy with the majority starting to show signs of mortality. Pockets of overmature aspen clones in portions of stand. Fair co-dominant pole size sugar maple class within areas. Eutypella cankers present throughout stand. Access may be difficult. South east quarter is ash/beech dominated with heavy beech brush in this area.			
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Canopy Species</b>		<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>
Sugar Maple		50	Log/Pole	12	93	Sugar Maple		Low	Variable	Sapling
Basswood		12	Log/Pole	13		Ironwood		Medium	5 - 10 feet	Sapling
Beech		18	Log	15		Beech		High	5 - 10 feet	Sapling
Red Maple		9	Log/XLog	16		Black Cherry		Low	10 - 20 feet	Sapling
						Hemlock		Low	10 - 20 feet	Sapling
						Balsam Fir		Trace	5 - 10 feet	Sapling





Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments			
6	4111 - S.Maple, Hard Mast Association	Sawtimber Medium	69.6	84	81-110	N/A	Younger stand compared to adjacent stands. Hilly but operable. Majority of stand is poor quality and stocking. Multi stem and open grown characteristics present. Never salvaged, lots of standing dead ash and beech mortality. Northern most portion of stand contains best quality logs with larger density of co-dominant pole sized sugar maples. Intermittent creek from seeps is found in the southeast portion. Larger oak component in southwest. Most natural canopy gaps are producing beech and pole sized ironwood.			
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Canopy Species</b>		<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>
Sugar Maple		40	Log/Pole	12	84	Ironwood		Medium	>20 feet	Pole
Beech		17	Log/Pole	11		Ironwood		Medium	5 - 10 feet	Sapling
Basswood		20	Log/Pole	13		Beech		High	5 - 10 feet	Sapling
Red Maple		6	Log/Pole/XLog	14		Sugar Maple		Low	Variable	Sapling
Red Oak		7	Log/Pole/XLog	13		White Pine		Low	10 - 20 feet	Sapling
7	3102 - Grass	Nonstocked	0.9	0		No				
<b>Canopy Species</b>		<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>						
Black Cherry		Low	10 - 20 feet	Sapling						
8	4139 - Aspen, Mixed Deciduous	Poletimber Well	7.9	26	1-50	N/A	Large hardwood component throughout. Left occasional log sugar maple throughout. Harvested in 1993. Good sugar maple recruitment in pockets with some advanced regen from past harvest.			
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Canopy Species</b>		<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>
Sugar Maple		18	Pole/Sap/Log	8		Ironwood		High	10 - 20 feet	Sapling
Bigtooth Aspen		50	Pole/Sapling	5	26	Sugar Maple		Medium	5 - 10 feet	Sapling
Red Maple		13	Sapling/Pole	4		Beech		Medium	Variable	Sapling
Ironwood		9	Sapling/Pole	4		Black Cherry		Low	5 - 10 feet	Sapling
9	4119 - Mixed Northern Hardwoods	Sawtimber Well	19.3	76	81-110	N/A	Rich soils. Unique stand containing many seeps and intermittent creeks coming out of the hill to the west. North and south portions are drier with a higher density of sugar maple and beech. 4 plots ~ 105 sqft.			
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Canopy Species</b>		<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>
Red Maple		30	Log/XLog	15	76	Hemlock		Low	>20 feet	Pole
Sugar Maple		28	Log	11		Yellow Birch		Trace	5 - 10 feet	Sapling
Yellow Birch		13	Log/Pole	15		Sugar Maple		Medium	Variable	Sapling
Basswood		16	Log	12		Ironwood		Medium	10 - 20 feet	Sapling
Beech		10	Log	10		Beech		Medium	Variable	Sapling
						Green Ash		Low	10 - 20 feet	Sapling
10	4110 - Sugar Maple Association	Sawtimber Well	89.7	93	111-140	N/A	Standing dead ash and beech mortality present, never salvaged. Good quality logs throughout with intermixed pockets of sugar maple poles in sub-canopy. Hilly terrain with a large seep through the middle of stand. Far south contains a south facing slope with a mix of red oak and white pine.			
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Canopy Species</b>		<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>
Sugar Maple		60	Log	13	93	Ironwood		High	Variable	Sapling
Basswood		25	Log	12		Beech		Medium	5 - 10 feet	Sapling
Beech		10	Log/XLog	13		Hawthorn (spp.)		Trace	< 5 feet	Tall Shrub
						Red Oak		Trace	10 - 20 feet	Sapling
						Sugar Maple		Low	5 - 10 feet	Sapling
						Sugar Maple		Medium	>20 feet	Pole
						Red Oak	Low	>20 feet	Pole	



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments					
11	330 - Low-Density Trees	Nonstocked	2.3	0		No	Patchy stand with grasses and pockets of fir and hawthorn thickets.					
								<b>Canopy Species</b>	<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>	
								Scotch Pine	Low	10 - 20 feet	Sapling	
								Black Cherry	Medium	10 - 20 feet	Sapling	
								Quaking Aspen	Low	>20 feet	Log	
								Balsam Fir	Medium	10 - 20 feet	Pole	
								White Pine	Low	10 - 20 feet	Sapling	
								Red Oak	Trace	5 - 10 feet	Sapling	
Hawthorn (spp.)	Low	5 - 10 feet	Tall Shrub									
12	500 - Water	Nonstocked	23.7	0		No	Hay Marsh Creek.					
13	3102 - Grass	Nonstocked	10.6	0		No	Consumers Powerline right of way. Contains sparse vegetation and some lowland pockets where it passes through the edge of stand 21 and 18.					
14	6229 - Mixed lowland shrub	Nonstocked	74.0		Immature	No	Lowland brush, tag alder, cattail, a few scattered cedar, spruce, and pine. A lot of standing dead trees. Hay Marsh Creek flows through the middle of the stand. Some areas are starting to fill in with trees.					
15	629 - Mixed non-forested wetland	Nonstocked	4.8	0		No	Non-forested, low density stand of trees transitioning from L type up to US 131 ROW. Stand is wet with mortality present.					
								<b>Canopy Species</b>	<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>	
								Black Spruce	Medium	>20 feet	Pole	
								Balsam Fir	Medium	>20 feet	Pole	
								Tag Alder	High	5 - 10 feet	Tall Shrub	
Tamarack	Low	>20 feet	Pole									
16	6112 - Lowland Aspen	Poletimber Medium	6.5	49	1-50	N/A	Low stocking. Pockets of alder, cattails, and sedge mats in areas where aspen is falling out. Signs of rising water table. Wet. This stand along with portions of stand 34 to the north were harvested in 1970.					
								<b>Canopy Species</b>	<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>	
								Northern White Cedar	Low	5 - 10 feet	Sapling	
								Black Spruce	Trace	< 5 feet	Sapling	
								Balsam Fir	Low	10 - 20 feet	Sapling	
								Tamarack	Trace	5 - 10 feet	Sapling	
								Tag Alder	Medium	5 - 10 feet	Tall Shrub	
								Black Willow	Medium	5 - 10 feet	Sapling	
								<b>Canopy Species</b>	<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>
								Tamarack	10	Pole/Log	8	
Quaking Aspen	60	Pole/Log	8	49								
Paper Birch	20	Pole	6									





Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments			
17	4134 - Aspen, Spruce/Fir	Sawtimber Medium	26.4	48	81-110	N/A	Majority of stand is upland with portions containing characteristics of a lowland type in the north and the south. Fir establishment is very good throughout, with some pockets of aspen starting to show decline. Pockets of blowdown are giving way to a good establishment of red maple and aspen saplings. A creek runs through the stand in the south and southeast corner. Conifer component diminishes to the south. High deer activity throughout. Poor volume and stocking in areas.			
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Canopy Species</b>		<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>
Quaking Aspen		43	Pole/Log	9	48	Balsam Fir		High	Variable	Sapling
Balsam Fir		30	Pole/Log	9		White Pine		Low	5 - 10 feet	Sapling
Balsam Poplar		16	Log/Pole	10		Black Ash		Medium	5 - 10 feet	Sapling
Red Maple		6	Pole/Log	9		Red Maple		Low	10 - 20 feet	Sapling
						Paper Birch		Low	10 - 20 feet	Sapling
						Black Spruce		Low	5 - 10 feet	Sapling
						Quaking Aspen		Medium	10 - 20 feet	Sapling
18	6124 - Lowland Spruce-Fir	Poletimber Well	39.9	62	51-80	N/A	Much of the hardwood component (B.Ash, Red Maple, Aspen, Elm) are falling out. Conifer component along with birch are establishing well. Areas of open canopy are giving way to tag alder and cattails. Signs of high water table are present. Some merchantable areas but overall low volume.			
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Canopy Species</b>		<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>
Black Spruce		38	Pole	7	62	Paper Birch		Medium	10 - 20 feet	Sapling
Paper Birch		15	Pole/Sapling	6		Balsam Fir		Medium	5 - 10 feet	Sapling
Red Maple		10	Pole	7		Tag Alder		Medium	5 - 10 feet	Tall Shrub
Quaking Aspen		13	Pole	7		Black Ash		Low	10 - 20 feet	Sapling
Balsam Fir		15	Pole	6						
19	4130 - Aspen	Poletimber Well	41.8	38	81-110	N/A	Good quality aspen stand with a hardwood component throughout. Pockets of larger sized aspen but dominated by large pole size class. Rolling hills in the west moving to more flat, lower quality to the east.			
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Canopy Species</b>		<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>
Bigtooth Aspen		52	Pole/Log	8	38	Beech		Low	5 - 10 feet	Sapling
Red Oak		14	Log/Pole	13		Red Oak		Low	10 - 20 feet	Sapling
Sugar Maple		11	Pole/Log	8		Sugar Maple		Medium	Variable	Sapling
Black Cherry		8	Pole	7		Ironwood		Low	5 - 10 feet	Sapling
Quaking Aspen		10	Pole/Log	8		Paper Birch		Low	>20 feet	Sapling
20	4199 - Other Mixed Upland Deciduous	Sawtimber Medium	9.6	87	51-80	N/A	No history of harvests. Old notes says this was a residual stand from an adjacent harvest, stand origin was 1932. Scattered red oaks, some large diameter and large crown. Some inclusions of quality aspen and fair hardwoods throughout. Small log, large pole sized stand with pockets of good sugar maple regeneration and good oak recruitment in sub canopy. Rolling topography. Average BA 68.5. Beech component falling out, some natural canopy gaps created.			
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Canopy Species</b>		<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>
Red Oak		50	Log/XLog	15	87	Sugar Maple		Medium	5 - 10 feet	Sapling
Sugar Maple		21	Log/Pole	11		Ironwood		Medium	10 - 20 feet	Sapling
Bigtooth Aspen		16	Pole/Log	9		Beech		Medium	5 - 10 feet	Sapling
						Red Oak		Low	10 - 20 feet	Sapling
						Red Oak		Medium	>20 feet	Pole
						Black Cherry		Low	10 - 20 feet	Pole
21	622 - Lowland Shrub	Nonstocked	19.7	0		No	Willow/Alder shrub dominated with very few scattered trees. Cedar that is present is declining.			
<b>Canopy Species</b>		<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>						
Tag Alder		High	5 - 10 feet	Tall Shrub						
Black Willow		Medium	5 - 10 feet	Tall Shrub						
Tamarack		Low	>20 feet	Pole						
Northern White Cedar		Low	10 - 20 feet	Pole						



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																		
<b>22</b>	4119 - Mixed Northern Hardwoods	Sawtimber Well	91.1	98	81-110	N/A	Hilly. Thinning completed in 2004 removing mostly hard and soft maple. Understory dominated with beech brush except under pockets of yellow birch and cherry. Good quality logs within stand with occasional pockets of larger pole sized trees. Most of the hemlock saplings are found under overmature aspen. More standing dead ash in the northern portion along with better sugar maple regeneration in the NE corner. Beech scale present within stand however some beech are still healthy.																																																		
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<b>23</b>	4123 - Red Oak	Sawtimber Medium	75.5	70	81-110	N/A	Oak Shelterwood completed in 1992. Very little oak seems to be regenerating, but some oak sapling and pole sized trees present. Good aspen component in pockets with nice sugar maple saplings coming up underneath. Understory is primarily beech with ironwood. Overstory oak stocking variable with lower stocking in the southern portion. Good quality oak, sugar maple and red maple logs throughout. Beech scale is present within stand.																																																		
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<b>24</b>	4111 - S.Maple, Hard Mast Association	Sawtimber Well	50.4	94	111-140	N/A	Hilly throughout and some steep terrain present. Does not appear to have had a beech or ash salvage in which most ash is still standing. Naturally thinning itself. Some beech still healthy, however contains areas of very heavy mortality (central portion). Southwest corner does contain a larger oak component with the presence of scattered over mature aspen. Overall contains very good quality logs and crop trees. Old notes indicate previous treatment was terminated due to not meeting silvicultural criteria (BA less than 120).																																																		
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<b>25</b>	6112 - Lowland Aspen	Poletimber Poor	4.8	35	1-50	N/A	Wet. Dominated by cattails and alder in portions of stand with poor quality aspen throughout.  OPIC - FMD: Lowland hardwoods with black ash, quaking aspen, balsam fir, & red maple. Too wet to log & low timber volume. Tag alder and cattail marsh at the entrance of stand.																																																		
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<b>26</b>	4130 - Aspen	Poletimber Well	58.0	38	81-110	N/A	Well stocked, large pole stand. Steep ridge runs along central portion of stand. Otherwise still contains very operable terrain. Good quality aspen, sugar maple and red oak. Beech scale is present resulting in some open gaps in the canopy. Southwest portion contains more beech brush and smaller stems. Few scattered open grown sugar maple and red oak.																																																		
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27	622 - Lowland Shrub	Nonstocked	25.6	0		No	Willow/Alder shrub dominated with scattered trees. Cedar that is present is declining.																																																
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28	4130 - Aspen	Sawtimber Well	21.8	55	51-80	N/A	Aspen we should look to harvest, most apple trees found are at the north end.																																																
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29	6129 - Mixed Coniferous Lowland Forest	Poletimber Well	90.8	97		N/A	Ridge running along north boundary of stand, possible an old R/R grade?. Understorey very sparse due to heavy cover and probably heavy deer pressure.																																																
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31	330 - Low-Density Trees	Nonstocked	5.9	0	Unspecified	No	Opening area between the road and railroad tracks with some scattered cherry, pine, and maple.																																																
32	6229 - Mixed lowland shrub	Nonstocked	27.1			No	Mainly tag alder																																																
33	6124 - Lowland Spruce-Fir	Poletimber Medium	3.2	47	1-50	N/A	Separated from stand 29 to the south, portions of stand flooded out possibly due to inhibited ground water flow.																																																
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<b>34</b>	6124 - Lowland Spruce-Fir	Poletimber Well	4.4	67	81-110	N/A	Contains pockets of cattails, grass and sedge mats. Lots of indication of wet area. Denser cedar component moving north. Cedar that is present in sub-canopy is past browse height but is still providing good deer habitat. Signs of high deer activity. Areas of blow down giving way to alder establishment.																																																						
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<b>35</b>	6120 - Lowland Cedar	Poletimber Well	5.1	93	141-170	N/A																																																							
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<b>36</b>	4130 - Aspen	Poletimber Well	34.8	44	51-80	N/A	Small lowland inclusions, along the powerline. Good looking aspen regen, majority of the Quaking aspen is west of Romaniak Road, Big tooth Aspen found to the east, stands 36 and 39 were merged. Trace amounts of cedar/hemlock and yellow birch around the lowland spots east of the road along the powerline.																																																						
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<b>37</b>	622 - Lowland Shrub	Nonstocked	49.2		Unspecified	No	Lowland shrub with scattered fir, spruce, birch, and aspen.																																																						
<b>38</b>	4111 - S.Maple, Hard Mast Association	Sawtimber Well	22.1	71	81-110	N/A	Northern hardwood stand with mix of sawtimber & poles. Select harvest prescribed. Sale set up as part of 52-015-11-01. Sale never sold in 5 years, treatment terminated in 2016.																																																						
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<b>39</b>	310 - Herbaceous Openland	Nonstocked	1.6	0		No	Grassy opening, may have been used as a landing when stand 44 was last harvested.																																																						
<b>40</b>	330 - Low-Density Trees	Nonstocked	13.4			No	Open area with some aspen, maple, and cherry. Good amount of witch hazel scattered throughout.																																																						



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<b>41</b>	4130 - Aspen	Poletimber Well	96.1	37	51-80	N/A	OPIC - FMD: SI IS ESTIMATE - REGEN LOOKS EXCELLENT. 55' IN HEIGHT. Minor component of red maple.																																																						
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<b>42</b>	4111 - S.Maple, Hard Mast Association	Sawtimber Well	48.3	81	111-140	N/A	Commercial thinning completed in 1997. Some marked poles left uncut following a firewood salvage. Hilly terrain and access will be difficult. Nice form.																																																						
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<b>43</b>	4110 - Sugar Maple Association	Poletimber Well	2.9	68	51-80	N/A	Small northern hardwood island left when the adjacent aspen was harvested.																																																						
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<b>44</b>	4110 - Sugar Maple Association	Sawtimber Well	43.2	91	81-110	N/A	OPIC - FMD: Northern hardwood stand developing into 12-14"dbh. This stand has been selectively cut in 1997. salvage occurred in middle in 99																																																						
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<b>45</b>	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Well	6.7	94	81-110	N/A	Alder taking over pockets of sub canopy. Appears that water table is rising. Non-merchantable areas.																																																						
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<b>46</b>	4111 - S.Maple, Hard Mast Association	Sawtimber Well	36.0	91	81-110	N/A	Borderline pole/log stand. The few scattered ash are dead and blowing over.																																								
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<b>47</b>	4110 - Sugar Maple Association	Sawtimber Well	62.5	91	81-110	N/A	Selection harvest completed in 2012, BA is higher on steep slopes that weren't cut. South end has a wet area with cedar and hemlock.																																								
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<b>48</b>	4130 - Aspen	Poletimber Well	165.5	44	81-110	N/A	Aspen mixed with pockets of hardwood, witch hazel found at the north end near stand 40.																																								
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<b>49</b>	310 - Herbaceous Openland	Nonstocked	2.0	0		No	Open grown white pine along with scattered cherry brush and various sapling sized pines. Two track from private land cuts across stand.																																								
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<b>50</b>	4130 - Aspen	Poletimber Well	87.8	31	Immature	N/A	Harvested in 1988, mixed aspen. Small drainage with a few cedar at the north end. Southwest corner of the stand contains a 4 acre pocket of mature QA that looks like it wasn't cut with the rest of the stand, might have been too wet.																																								
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<b>52</b>	4130 - Aspen	Poletimber Well	15.0	37		N/A	Harvested at the same time as stand 73, north end has a small drainage with a creek.																																								
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<b>53</b>	4130 - Aspen	Sapling Well	74.5	23	Immature	N/A	Harvested in 1996, hilly, borderline sapling/pole stand. South end has a seep running through that starts near stand 88.																																								
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<b>54</b>	4130 - Aspen	Poletimber Well	67.6	37		N/A	Hilly, west end has storm damage and a small drainage. Average stand diameters are smaller uphill to the east.																																								
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<b>55</b>	4111 - S.Maple, Hard Mast Association	Sawtimber Well	15.7	68	81-110	N/A	Low quality stand left when surrounding aspen was cut. Decent amount of big tooth aspen clones found on hilltops throughout stand.																																								
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<b>56</b>	4130 - Aspen	Poletimber Well	22.3	41	51-80	N/A	Good looking aspen regen, some stems have already developed into small saw logs, the majority of the stems are still in the pole size range.																																								
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<b>57</b>	4111 - S.Maple, Hard Mast Association	Sawtimber Well	41.3	92	111-140	N/A	Northern hardwood stand with difficult access, severe slopes on east and south boundaries, private to the west, wet to the north. East end of stand has received storm damage, BA excluding this area is around 130.																																								
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<b>58</b>	4130 - Aspen	Sapling Well	8.8	7	Immature	N/A	Stand final harvested in 2012, good regeneration, a few scattered oak left, south end has thick beech regeneration.																																													
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<b>59</b>	6118 - Lowland Deciduous with Cedar	Poletimber Well	24.9	60	81-110	N/A	Mixed stand, hard to tell how wet it is with snow depth, seep from stand 136 flows through this stand somewhere. Pockets of this stand are heavier to cedar while others are heavier to aspen, maple.																																													
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<b>60</b>	4110 - Sugar Maple Association	Sawtimber Well	12.9	90	81-110	N/A	Thinned in 2004, good quality sugar maple. BA is getting close, hold 10 years.																																													
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<b>61</b>	4130 - Aspen	Poletimber Well	8.2	36	81-110	N/A	Pole size aspen pockets mixed with maple and basswood, steep hills.																																													
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<b>62</b>	4139 - Aspen, Mixed Deciduous	Poletimber Well	6.8	52	81-110	N/A	Small large pole aspen stand. Access difficult because of railroad track.																																													
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<b>64</b>	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Poor	4.8	55	1-50	N/A	Looks really wet, some open areas with cattail, tag alder, and standing dead trees. Good size creek runs through south half of the stand.																																													
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<b>65</b>	4139 - Aspen, Mixed Deciduous	Sawtimber Well	34.5	68	111-140	N/A	Variable stand, some areas more hardwood dominated and some more aspen dominated. More of a conifer component in the northwest portion of the stand. Looks like a small lowland drainage in the north half.																																										
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<b>66</b>	6124 - Lowland Spruce-Fir	Poletimber Medium	17.3	58	Unspecified	N/A	Looks pretty wet, good amount of tamarack in the west half of the stand.																																										
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<b>68</b>	122 - Road/Parking Lot	Nonstocked	5.7	0		No	US 131 right of way.																																										
<b>69</b>	4119 - Mixed Northern Hardwoods	Sawtimber Well	18.3	92	81-110	N/A	Steep north facing slope, ash is dead and falling over. Oak is mostly on top of the ridge, this stand should be restarted.																																										
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<b>70</b>	4130 - Aspen	Sapling Well	31.0	14	Immature	N/A	Final harvest completed in 2005. Scattered oak, and a few white pine and beech were left during the harvest. Overall the stand is very dense.																																										
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<b>71</b>	310 - Herbaceous Openland	Nonstocked	3.5	0		No	Was cut with surrounding aspen stands in 1993. Now a non forested stand. Good opening for landing for adjacent stands.																																										
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<b>72</b>	4111 - S.Maple, Hard Mast Association	Sawtimber Well	60.3	92	81-110	N/A	Average BA is 105, old notes indicate some harvesting has been done in this stand but couldn't find any records. Steep slopes, lower quality and more aspen at the bottom of the hills.																																										
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<b>73</b>	4130 - Aspen	Poletimber Well	49.3	37		N/A	Harvested in 1982, has a nice conifer component for wildlife value. A few open wet areas with tag alder.																																																						
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<b>74</b>	6123 - Lowland Fir	Sapling Medium	4.8	40		N/A	Lowland wet area filling in with fir and other species, looks like multiple creeks running through. North end is dense, south end is more open.																																																						
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<b>75</b>	6130 - Fir, Aspen, Maple	Poletimber Medium	12.0	45		N/A	North half has open areas with blowdown, south half has more of an aspen component. At least two seeps run into this stand from the southwest, small open area with cattail included.																																																						
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<b>76</b>	4130 - Aspen	Poletimber Well	30.6	31		N/A	Harvested in 1988, some wet areas in this stand, mostly out by the road.																																																						
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<b>77</b>	4130 - Aspen	Sapling Well	47.9	25	Immature	N/A	Harvested in 1994, some areas sapling sized and some areas pole sized, overall the stand is just entering pole size class. Looks like scattered oak and a few white pine were left during harvest.																																																						
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<b>78</b>	6239 - Mixed Emergent Wetland	Nonstocked	1.7			No	Pockets of standing dead, some open areas with cattail, and a small pocket of fir/cedar.																																																						



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<b>79</b>	6117 - Lowland Deciduous, Mixed Coniferous	Poletimber Medium	3.3	44	51-80	N/A	Wet. Patchy stocking with large presence of alder in understory. Non-commercial. Aspen declining.																																																		
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<b>80</b>	4110 - Sugar Maple Association	Sawtimber Well	86.1	91	81-110	N/A	Steep slopes, quality diminishes the further south you are in this stand, good amount of multi stemmed trees.																																																		
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<b>81</b>	4119 - Mixed Northern Hardwoods	Poletimber Medium	59.5	84	1-50	N/A	Poor quality, open grown hardwood with some open areas and aspen pockets.																																																		
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<b>82</b>	6139 - Mixed Lowland Forest	Poletimber Well	126.9	35	1-50	N/A	Areas heavy to red maple regen, lots of deer browse, good component of paper birch that is above browse line.																																																		
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<b>83</b>	4130 - Aspen	Poletimber Well	45.6	37	51-80	N/A	Nice aspen stand, harvested in 1982, looks like some larger scattered maple were left at the north end. Slightly smaller stand diameters at the top of the hill.																																																		
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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**84** 4111 - S.Maple, Hard Mast Association Poletimber Well 14.5 89 51-80 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Canopy Species	Density	Avg. Height	Size
Sugar Maple	50	Pole/Sap/Log	8	89	Sugar Maple	Low	Variable	Sapling
Basswood	10	Log/Pole	10		Ironwood	Medium	Variable	Sapling
Red Maple	20	Pole/Sap/Log	6	35	Black Cherry	Trace	10 - 20 feet	Sapling
Beech	15	Pole/Sap/Log	8		Red Maple	Medium	Variable	Sapling

**85** 4130 - Aspen Poletimber Well 8.6 36 1-50 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Canopy Species	Density	Avg. Height	Size
Bigtooth Aspen	70	Pole	6	36	Beech	Low	5 - 10 feet	Sapling
Beech	10	Pole/Sapling	5		Ironwood	Low	5 - 10 feet	Sapling
Sugar Maple	10	Pole/Sapling	5		Sugar Maple	Trace	< 5 feet	Sapling
Red Maple	10	Pole/Sapling	5		Red Maple	Trace	< 5 feet	Sapling

OPIC - FMD: Aspen regeneration is average of 4" dbh, approx. 40' tall. Looks good, hold. Primarily B. tooth aspen with some beech intermixed.

**86** 6128 - Lowland Coniferous, Mixed Deciduous Poletimber Well 13.2 99 111-140 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Canopy Species	Density	Avg. Height	Size
Quaking Aspen	10	Log/Pole	10		Tag Alder	Low	5 - 10 feet	Tall Shrub
Northern White Cedar	35	Pole/Log	8	99	Balsam Fir	Low	Variable	Sapling
Balsam Fir	29	Pole/Log	8		Paper Birch	Trace	10 - 20 feet	Sapling
Red Maple	10	Pole/Log	8		Northern White Cedar	Trace	5 - 10 feet	Sapling

Lots of seeps and flowing water.

**87** 4110 - Sugar Maple Association Sawtimber Well 62.3 91 81-110 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Canopy Species	Density	Avg. Height	Size
Sugar Maple	60	Log/Pole	12	91	Beech	Low	5 - 10 feet	Sapling
Basswood	30	Log/Pole	12		Ironwood	Low	5 - 10 feet	Sapling
					Sugar Maple	Trace	< 5 feet	Sapling

Selection harvest completed in 2012 as part of Half Dome HDWDS sale. Aspen logs cut off of workable slopes. Prescribing a selection cut. Some inclusions of A3. Protect hillsides during selection cut. A few slopes left uncut during sale. Planted spruce next to stand 489

**88** 4111 - S.Maple, Hard Mast Association Poletimber Well 18.9 90 81-110 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Canopy Species	Density	Avg. Height	Size
Sugar Maple	58	Pole/Log	9	90	Beech	Medium	5 - 10 feet	Sapling
Basswood	10	Log/Pole	10		Ironwood	Medium	Variable	Sapling
Beech	10	Log/Pole	10					
Bigtooth Aspen	10	Log/Pole	11					
Ironwood	10	Pole	7					

Variable stand, lots of ironwood on top of hill, seep at the north end.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																									
<b>89</b>	6124 - Lowland Spruce-Fir	Poletimber Well	227.1	75	81-110	N/A	Old railroad grade looks to define boundary between this stand and stand 98. From imagery the stand looks to be similar to stand 99 to the north with areas of blowdown and beaver activity that have resulted in an uneven aged stands with areas dominated by cattails to mature pockets of timber.																																									
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<b>90</b>	4130 - Aspen	Poletimber Well	11.9	26	51-80	N/A	Decent quality aspen stand harvested in 1993. Hilly portions in the north transitioning into flatter terrain to the south. Good quality oak throughout.																																									
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<b>91</b>	623 - Emergent Wetland	Nonstocked	18.9	0	Unspecified	No	Flooded out area around gimlet creek, looks to be a beaver damn in the north portion of the stand that caused the mortality. Mostly just grasses currently.																																									
<b>92</b>	310 - Herbaceous Openland	Nonstocked	21.8	0	Unspecified	4211 - Planted Red Pine	Stand was trenched on 6/20/2017, sprayed on 09/12/2018, and scheduled to be planted this spring. Three retention islands were left, they are mostly red pine overstory and full of white pine regeneration underneath. Site planted 5/14/2019.																																									
<b>93</b>	42220 - Natural Jack Pine	Poletimber Medium	1.6	26		N/A	Old notes indicate this was an old opening that filled in with pine, just becoming pole size. Picket fence of red pine left around the outside of the stand.																																									
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<b>94</b>	6229 - Mixed lowland shrub	Nonstocked	65.8			No	Lowland brush surrounding a marshy flooding. Areas where trees are starting to come in, lots of tag alder.																																									
<b>95</b>	4130 - Aspen	Poletimber Well	19.2	49	Unspecified	N/A	Nice aspen stand, some wet areas with tag alder and cattail at the north end.																																									
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<b>96</b>	310 - Herbaceous Openland	Nonstocked	2.3	0	Unspecified	No	Part of old farm field																																									



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																														
<b>97</b>	4119 - Mixed Northern Hardwoods	Sawtimber Well	69.1	78	81-110	N/A	Borderline pole/log stand. Low quality hardwoods, good amount of beech with aspen pockets. Some areas with blowdown, look to restart.																																														
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<b>98</b>	4134 - Aspen, Spruce/Fir	Poletimber Well	38.3	48	81-110	N/A	Aspen stand with a few wetter areas present, transition between upland/lowland types. R/R grade located along NW boundary probably altered the hydrology somewhat to allow more lowland species to develop in the stand. Some pockets of tag alder, south finger of stand dominated by cedar, multiple seeps come together in this area.																																														
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<b>99</b>	6124 - Lowland Spruce-Fir	Sapling Well	292.3	20	1-50	N/A	Large swamp complex, multiple age cohorts due to beaver activity along various creeks and blowdown areas. Some pockets of still standing mature timber. Cattails present in some really low areas. Tag alder still in abundance in recently flooded beaver ponds. First age is estimate of large amounts of sapling sized regen. Second age is from standing mature scattered white pine.																																														
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<b>100</b>	310 - Herbaceous Openland	Nonstocked	2.7	0		No	Grassy opening transitioning to an upland brush stand due to hardwood encroachment from the west and aspen expansion from the aspen harvest of stand 41.																																														
<b>101</b>	6123 - Lowland Fir	Sapling Well	59.3	35	1-50	N/A	Lots of standing dead timber, observed thick understory, edge call from the south edge of the stand.																																														
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<b>102</b>	6124 - Lowland Spruce-Fir	Poletimber Poor	15.0	85	1-50	N/A	Wet, areas with blowdown. Good sized creek runs along the east side of the railroad.																																														
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																													
<b>103</b>	4130 - Aspen	Poletimber Well	17.1	26	1-50	N/A	Harvest in 1993. Larger diameter stems left on hill in the north, overall small pole.																																													
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<b>104</b>	612 - Lowland Coniferous Forest	Sapling Well	36.2	35	1-50	N/A	From imagery, looks similar to stand 101. Never was able to make it to the stand due to several large creeks and beaver flooding being in the way. Imagery selects lots of standing dead timber with a heavy lowland conifer component dominated by balsam fir.																																													
<b>105</b>	310 - Herbaceous Openland	Nonstocked	1.1	0		No	Small G stand on plateau along north edge of pine. A few pine volunteers beginning to develop in the SW corner.																																													
<b>106</b>	4111 - S.Maple, Hard Mast Association	Sawtimber Well	124.3	75	81-110	N/A	Stand harvested 4/04. Some very sparse areas still present, some areas heavy to beech. BBD present.																																													
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<b>107</b>	4111 - S.Maple, Hard Mast Association	Sawtimber Well	85.1	72	81-110	N/A	Harvest completed in 4/04. Powerline running along the south boundary of the stand. About 20 acres in the NW look to have been left unmarked. BBD present. Less diversity in the NW also (more sugar maple, less other species). Most of the red maple was in the East half of the stand.																																													
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<b>108</b>	4130 - Aspen	Sapling Well	25.5	15	Immature	N/A	Aspen final harvest 2004. Good looking regen, some nice cherry poles developing as well. Super Canopy white pine left post harvest in the north end.																																													
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<b>109</b>	122 - Road/Parking Lot	Nonstocked	1.7	0		No																																														



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																															
<b>110</b>	4111 - S.Maple, Hard Mast Association	Poletimber Well	24.3	66	81-110	N/A	Lower quality hardwood pole stand, growth looks to be pretty slow, some clumps.																																															
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<b>111</b>	6230 - Cattail	Nonstocked	0.9			No																																																
<b>112</b>	4130 - Aspen	Poletimber Well	1.0	23	1-50	N/A	Small stand harvested in 1993. Aspen slowly expanding into adjacent hardwoods. Small poles.																																															
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<b>113</b>	330 - Low-Density Trees	Nonstocked	4.6	0		No	Opening filling in, a few apples trees.																																															
<b>115</b>	4130 - Aspen	Sapling Well	4.2	15	Immature	N/A	Small aspen final harvest that was originally part of stand 107. Seep defines the south boundary of the stand.																																															
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<b>116</b>	6123 - Lowland Fir	Poletimber Well	2.0	52	51-80	N/A	OPIC - FMD: Pole size red oak																																															
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<b>117</b>	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Medium	8.0	56	51-80	N/A	Wet, a few open areas with cattail.																																															
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<b>118</b>	6130 - Fir, Aspen, Maple	Sawtimber Well	14.8	68	81-110	N/A	According to stand records, attempt was made to harvest stand previously, sale never sold due to wet conditions. Pick up more conifer and lowland species as you move east towards the creek.																																													
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<b>119</b>	4119 - Mixed Northern Hardwoods	Sawtimber Well	70.2	91	81-110	N/A	Steep slopes, multiple seeps and creeks start in this stand and run into adjacent lowlands. Area near stand 78 is wet with some lowland aspen pockets.																																													
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<b>120</b>	6230 - Cattail	Nonstocked	0.7	0		No	Small depression, looks to be the genesis of a significant seep that flows to the north into the swamp complex.																																													
<b>121</b>	310 - Herbaceous Openland	Nonstocked	1.3	0		No	Small opening containing a mix of hard and soft mast species. The Oak that is present is open grown and healthy.																																													
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<b>122</b>	122 - Road/Parking Lot	Nonstocked	6.4			No	US 131																																													
<b>123</b>	4139 - Aspen, Mixed Deciduous	Poletimber Well	9.5	26	51-80	N/A	Harvested in 1993 apart of 131 West Aspen. A creek runs west to east through central portion of stand. Hilly along northeast edge. Ironwood and beech sapling dominated along hardwood edge especially in the north.																																													
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																				
<b>124</b>	4130 - Aspen	Poletimber Well	9.8	34		N/A	Harvested in 1985, north end has a lot of red maple in the understory. A few wet spots near adjacent stand 91.																																				
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<b>125</b>	4139 - Aspen, Mixed Deciduous	Sapling Well	3.7	7	Immature	N/A	OPIC - FMD: Final harvest completed as part of Half Dome HDWDS sale in 2012. Well stocked aspen log stand at base of hardwood slope. Final harvest prescribed which can be expanded into adjacent low quality hardwood. Protect intermittent creek to the north and east of this stand along with the minor component of white cedar. No retention. pockets of aspen came back well rest is beech and cherry																																				
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<b>126</b>	4111 - S.Maple, Hard Mast Association	Poletimber Well	40.6	82	81-110	N/A	BA is around 90, middle of the stand is fairly flat with some hills at the south end.																																				
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<b>127</b>	4130 - Aspen	Poletimber Well	2.7	34	Immature	N/A	Small aspen pocket cut in 1985, includes small pocket of red pine poles at the east end.																																				
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<b>128</b>	310 - Herbaceous Openland	Nonstocked	13.3	0		No	Red pine planted around the edges of opening.																																				
<b>130</b>	4111 - S.Maple, Hard Mast Association	Sawtimber Well	43.4	78	81-110	N/A	OPIC - FMD: Good quality northern hardwood poles with several draws of M9. Select mark & treat as one stand. Purchased land. STAND MARKED, HARVESTED AND COMPLETED 1/2005.																																				
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<b>131</b>	4110 - Sugar Maple Association	Sawtimber Well	92.3	84	111-140	N/A	Hilly in spots, quite a few seeps flowing towards from the ridge top to the east. Copse of hemlock found along the south boundary of stand around a few seeps that flow into stand 135.																																				
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<b>132</b>	790 - Other Bare/Sparsely Vegetated	Nonstocked	3.2	0		No	Sand/Gravel Pit. Some scattered red pine seedlings on the edges.																																				



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<b>133</b>	42110 - Planted Red Pine	Sawtimber Well	6.1	60	111-140	N/A	R9 on a hillside.																																										
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<b>134</b>	4130 - Aspen	Sapling Well	2.1	16	Immature	N/A	OPIC - FMD: NOT FDF-PURCHASED LAND. M6, M7 located adjacent to large aspen stand. No cutting needed at this time. clearcut in 2005																																										
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<b>135</b>	6120 - Lowland Cedar	Sawtimber Well	8.3	95	141-170	N/A	Cedar is open grown and in clumps, evidence of sever deer browse.																																										
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<b>136</b>	4130 - Aspen	Sawtimber Well	6.0	60	81-110	N/A	Looks like this was the remainder that couldn't be cut from adjacent harvests. There is a seep that starts in this stand and a steep hill that leads down to it.																																										
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<b>137</b>	6130 - Fir, Aspen, Maple	Poletimber Well	13.7	54	51-80	N/A	Stand appears to be slightly drier than 135 to the north.																																										
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<b>138</b>	622 - Lowland Shrub	Nonstocked	10.7		Immature	No	Tag alder, some scattered aspen and fir throughout.																																										
<b>140</b>	6132 - Mixed Lowland Forest with Cedar	Poletimber Medium	5.3	57	51-80	N/A	Wet, creek running through to stand 156.																																										
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<b>141</b>	4110 - Sugar Maple Association	Sawtimber Well	31.1	77	111-140	N/A	Selection harvest completed in 1997. Good looking hardwood saw logs and stocking. A few pockets of decent sugar maple and black cherry regen.																																														
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<b>142</b>	622 - Lowland Shrub	Nonstocked	2.3	0	Unspecified	No	Lowland shrub, mostly tag alder.																																														
<b>143</b>	4116 - Mixed N. Hardwood - Aspen	Sawtimber Well	12.6	71	81-110	N/A	Set up as part of sale 52-015-11-01, sale never sold in 5 years, treatment terminated in 2016. Some decent clones of aspen, ground becomes wetter along the west private boundary.																																														
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<b>144</b>	4130 - Aspen	Sapling Well	60.8	16	Immature	N/A	Harvested in 2003, hilly, a couple of open areas throughout. North end has scattered mature oak that was left during the harvest.																																														
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<b>145</b>	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Well	10.4	99	81-110	N/A	Valley and drainage leading down from the hills to private. Stand has some open areas in the west half. Some blowdown.																																														
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<b>146</b>	4130 - Aspen	Sapling Well	14.7	7	Immature	N/A	Harvested in 2012 with stand 67, good regeneration, north end has a couple pockets with steep hills that were not harvested.																																														
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<b>148</b>	4130 - Aspen	Poletimber Well	1.7	26	51-80	N/A	Harvested in 1993 with surround aspen stands. Aspen encroaching into adjacent hardwood stand.																																														
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<b>149</b>	310 - Herbaceous Openland	Nonstocked	2.4	0		No	Small opening, pocket of mature aspen included.																																														
<b>151</b>	4139 - Aspen, Mixed Deciduous	Poletimber Well	7.4	47	Unspecified	N/A	Small stand not cut when adjacent stand 54 was cut, hold and manage when that stand gets cut again. A couple of small drainages leading to private.																																														
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<b>153</b>	4116 - Mixed N. Hardwood - Aspen	Sawtimber Well	5.7	90	81-110	N/A	Small stand that wasn't harvested with adjacent stands.																																														
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<b>154</b>	320 - Upland Shrub	Nonstocked	4.2			No	OPENING W/ ASPEN SAPLING & HARDWOOD ENCROACHMENT.																																														
<b>155</b>	310 - Herbaceous Openland	Nonstocked	1.6	0		No	Open field, from imagery could be a possible trespass? Verify when snow levels are down.																																														
<b>156</b>	6229 - Mixed lowland shrub	Nonstocked	16.7			No	old flooded marsh that looks to be beginning to fill back in																																														
<b>157</b>	4130 - Aspen	Poletimber Well	4.0	26	51-80	N/A	Stand was harvested in 1993 as a part of the 131 West Aspen sale. Some overmature aspen present along with larger healthy looking black cherry. Ash is present in the understory with heavy browse. Lower quality site.																																														
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<b>158</b>	330 - Low-Density Trees	Nonstocked	4.2	0		No	Brush beginning to encroach on the edges of this opening.																																														



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<b>160</b>	6129 - Mixed Coniferous Lowland Forest	Poletimber Well	23.3	88	111-140	N/A	Upland pockets along powerline and in NW and SW corners dominated by large WP and RP. Once you get into the lowland portions of the sale regen is very light, small creek starts in the NE corner and flows into the main creek running along the west boundary of the stand.																																																							
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<b>178</b>	4191 - Mixed Upland Deciduous with Conifer	Poletimber Medium	15.9	48	81-110	N/A	Wet, marshy pockets within stand. Areas of wind throw and blow down creating gaps of sapling sized aspen and red maple. Cedar component is falling out of stand. Access would be difficult due to railroad and adjacent wetland.																																																							
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<b>184</b>	4116 - Mixed N. Hardwood - Aspen	Sawtimber Well	41.5	91	81-110	N/A	Some steep hills, pockets of aspen scattered throughout. Hardwood quality is not the best, look to restart the stand.																																																							
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<b>191</b>	4191 - Mixed Upland Deciduous with Conifer	Poletimber Well	15.3	56	81-110	N/A	Thin stand between railroad and US 131. Extremely variable composition with heavy pine influence especially scotch pine in the south portion. Some intermittent creeks and drainage run through the stand. Spotty patches of browning and die back of edge trees most likely due to heavy road salt use. Contains two private driveways.																																																							
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<b>192</b>	6130 - Fir, Aspen, Maple	Poletimber Medium	5.1	65	51-80	N/A	Good stand for wildlife. Signs of high water table, small lowland hardwood component. Dead ash and elm throughout.																																																							
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																					
195	330 - Low-Density Trees	Nonstocked	21.8		Unspecified	No	Stand contains drainage from Hay Marsh Creek, scattered shrubs and trees along with a railroad right of way.																																					
400	790 - Other Bare/Sparse Vegetated	Nonstocked	9.1			No	Power line. Hilly.																																					
419	330 - Low-Density Trees	Nonstocked	1.7			No	Open area beginning to the fill in.																																					
423	42200 - Natural White Pine	Poletimber Poor	3.6	48	51-80	N/A	East half is mostly mature white pine, west half is more pine seeding in. Old notes indicate this was an opening that has seeded in with pine. Some areas with the mature white pine look like they may have been planted.																																					
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432	330 - Low-Density Trees	Nonstocked	70.6			No	Open fields, some red pine an scotch pine planted in spots. Lowland cattails and cedar in the SW corner.																																					
486	310 - Herbaceous Openland	Nonstocked	23.4			No	Open grassy field once used for hay field, old foundation in the middle. A couple of scattered pine seeding in.																																					
490	330 - Low-Density Trees	Nonstocked	11.1			No	Grassy opening with scattered pole sized cherry with sapling white pine underneath, some scattered hardwood pockets also.																																					