



# Compartment Review Presentation

Gaylord Forest Management Unit

Compartment 52061

Entry Year 2020

Acreage: 2,319

County Antrim

Management Area: Grayling Outwash

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**Revision Date:** 2018-04-03

**Stand Examiner:** Zach Crew

**Legal Description:**

T29N R06W Sec, 1,2, 11-13, 24, 25, 35, and 36

**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 compartment is mostly flat with some rolling topography, The dominant soil types are excessively drained Kalkaska Sands and Kalkaska - Montcalm complex.

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

This compartment has a mix of ownership patterns. There are two large chunks of state land in the north and in the south portions of the compartment. The rest is intermixed with private property.

**Unique Natural Features:**

None

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

None

**Special Management Designations or Considerations:**

None

**Watershed and Fisheries Considerations:**

**Wildlife Habitat Considerations:**

This compartment is primarily northern hardwoods, aspen, and pine. Treatments in this compartment will encourage aspen re-growth benefiting deer, grouse, wild turkey and woodcock. Red pine restart areas will be supplemented with hard and soft mast plantings. This area receives considerable hunting pressure for both white-tailed deer and wild turkey.

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

An active sand/gravel pit is located in Section 2, just northwest of the compartment, and there is good potential for sand & gravel within the compartment. State minerals in this area are leased and are being developed for Antrim Shale gas.

**Vehicle Access:**

There is plenty of access throughout the compartment provided by many gas well roads. There are quite a few county roads throughout the compartment as well.

**Survey Needs:**

None

**Recreational Facilities and Opportunities:**

Wetzel Lake Day Park is located in the NW corner of the compartment. This compartment also contains a small portion of an MCCCT trail, snowmobile trail, and the North Country Pathway.

**Fire Protection:**

Resources are provided out of the Bellaire and Gaylord Field Offices.

**Additional Compartment Information:**

**The following reports from the Inventory are attached:**

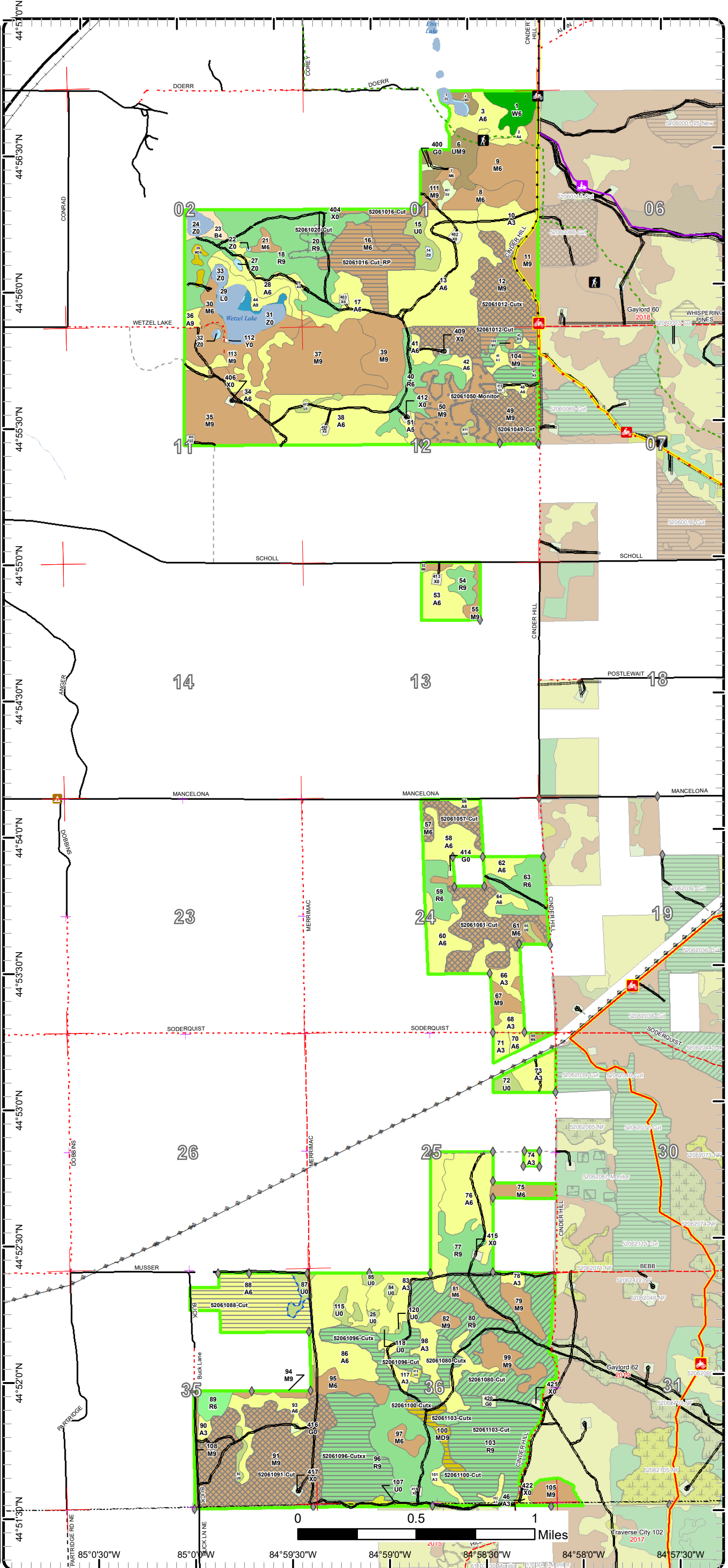
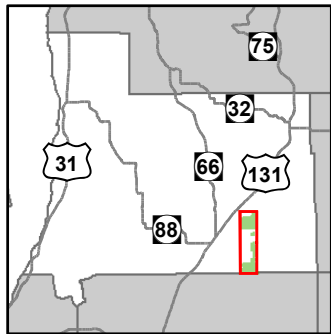
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

**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

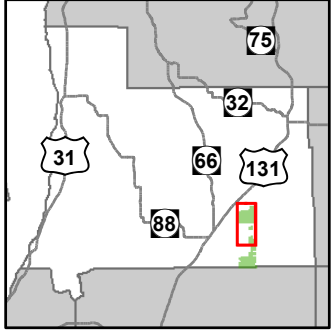
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 Unit: Gaylord  
 Mgmt Area: Grayling Outwash  
 YOE: 2020  
 Acres: 2,319 GIS Calculated  
 Examiner: Zach Crew  
 Map Revised: 10/1/2018  
 Map Phase: Post-Review



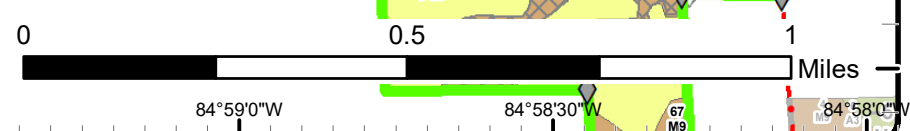
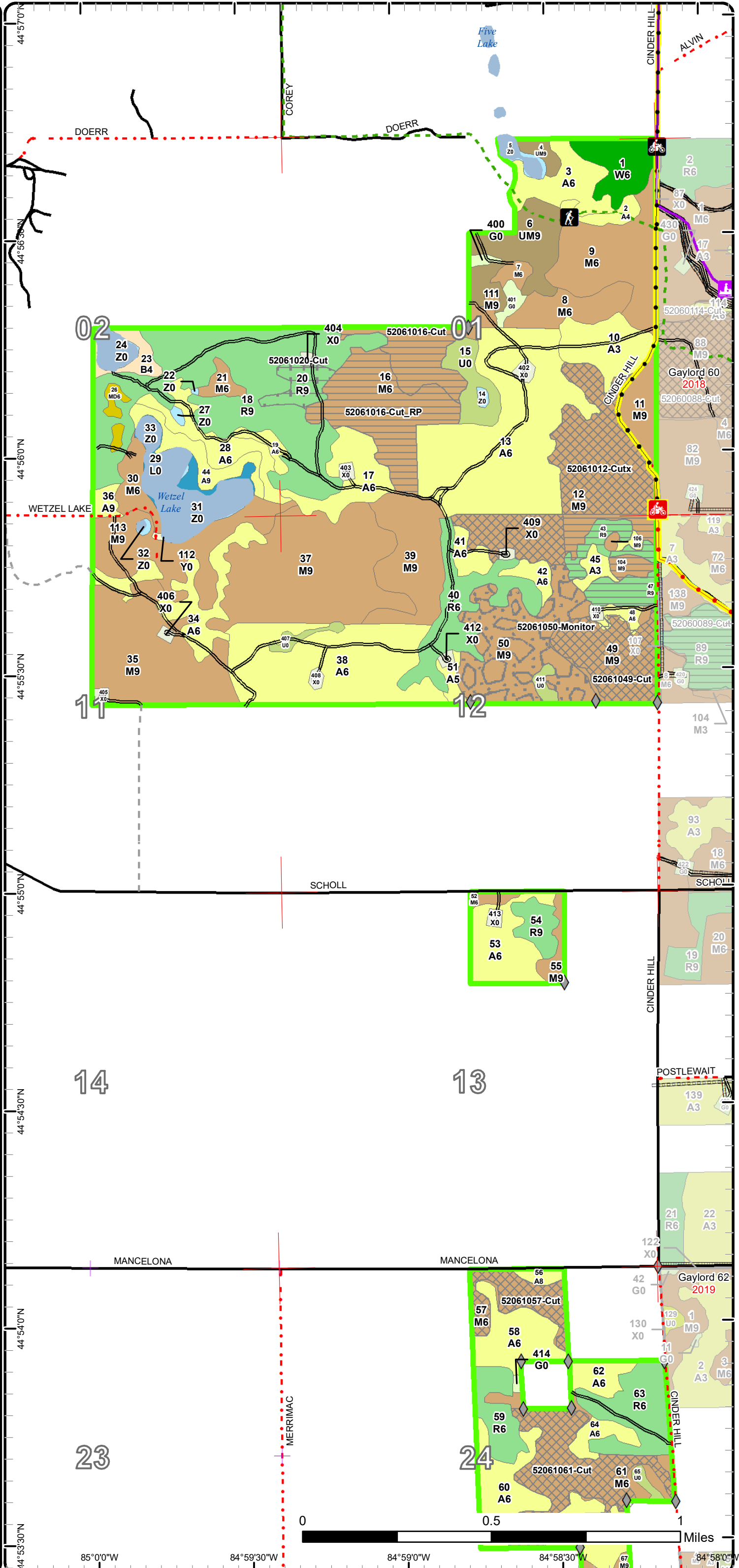
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- Lakes and Rivers All
- Pipeline
- Powerline
- Compartment Boundary
- Treatments with Site Conditions
- Selection (Group, Single Tree)
- Clearcut (w/Reserves)
- Harvest, Overstory Removal
- Thinning (Crown, Low, Systematic)
- Regeneration Survey
- 411 - Northern Hardwood
- 413 - Aspen Types
- 414 - Other Upland Deciduous
- 419 - Mixed Upland Deciduous
- 421 - Planted Pines
- 422 - Natural Pines
- 424 - Pine (OI)
- 430 - Upland Mixed Forest
- 310 - Herbaceous Openland
- 320 - Upland Shrub
- 330 - Low Density Trees
- 500 - Water
- 629 - Mixed non-forested wetland
- 710 - Sand/Soil
- 790 - Other Bare/Sparsely Vegetated
- Lakes

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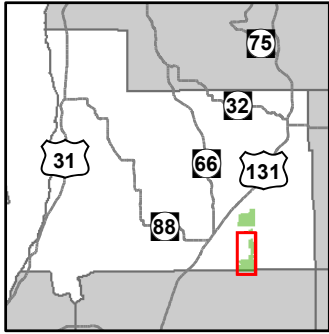


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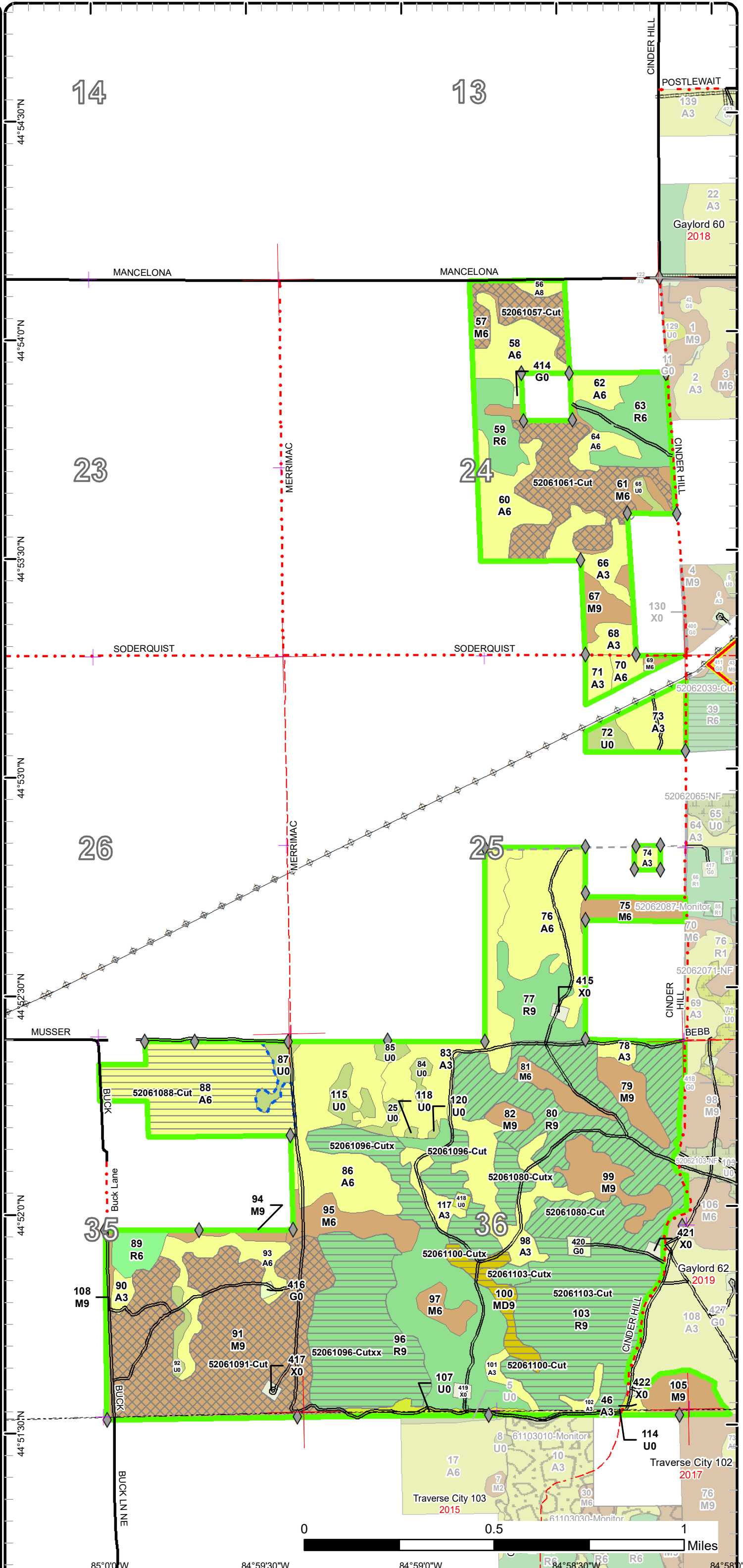


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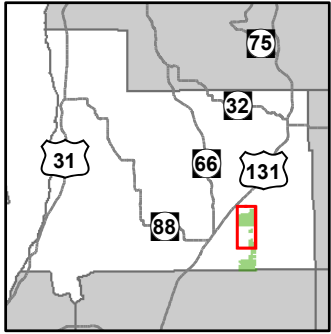


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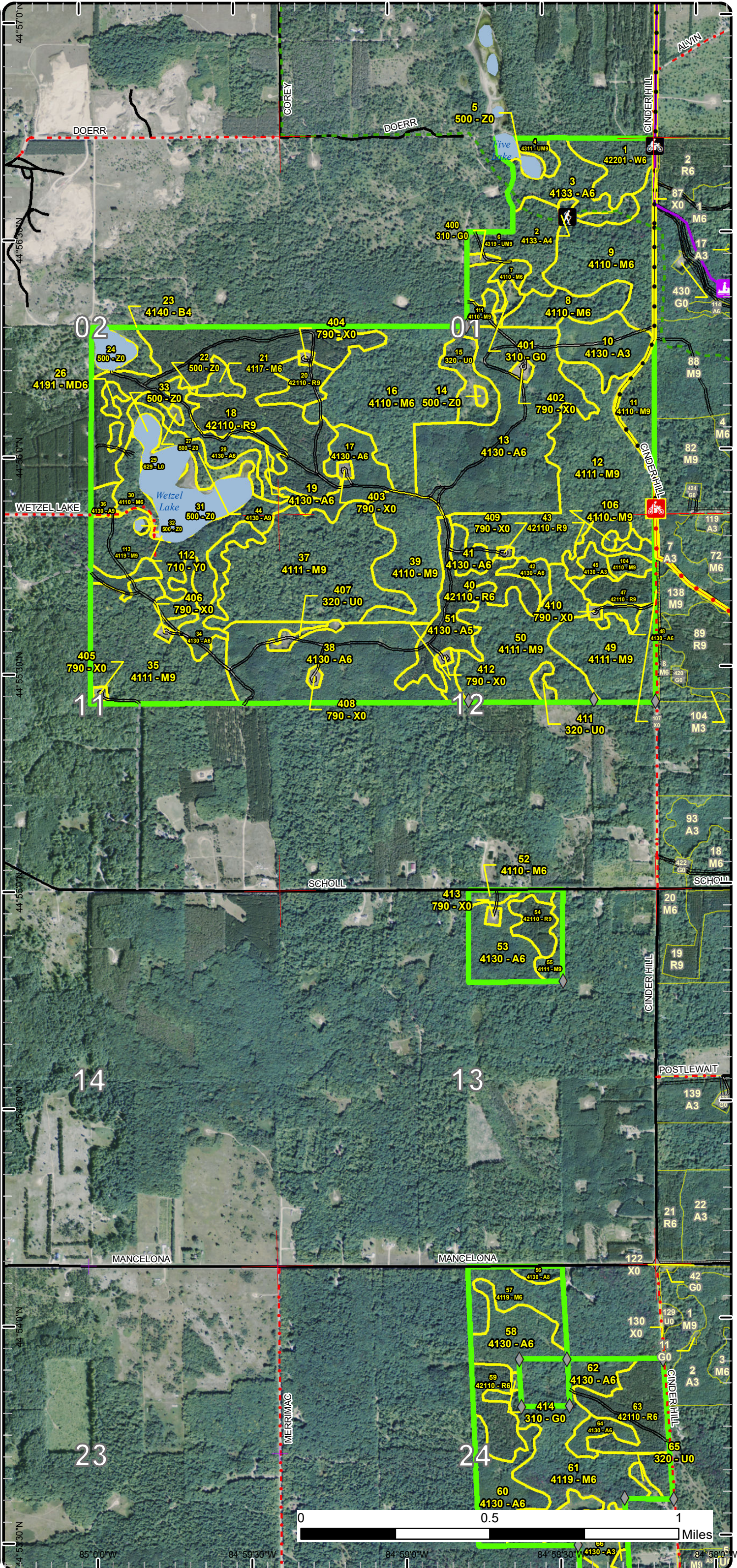


# Stand Boundary Map

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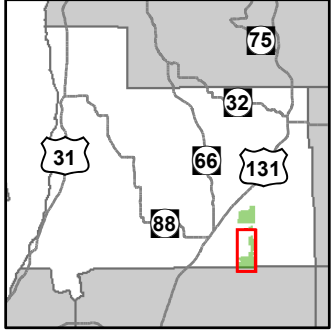


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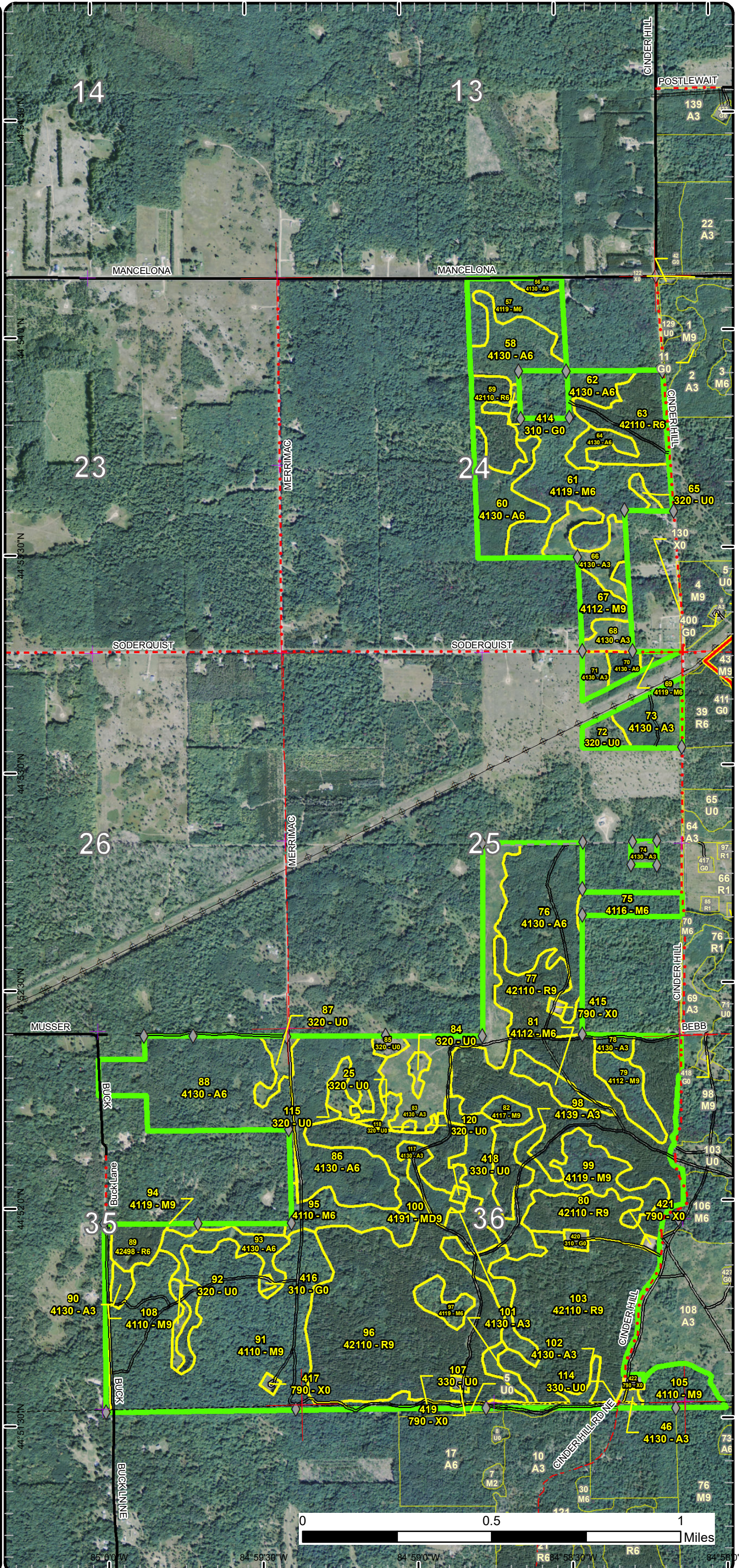


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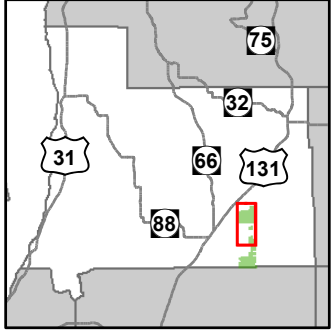


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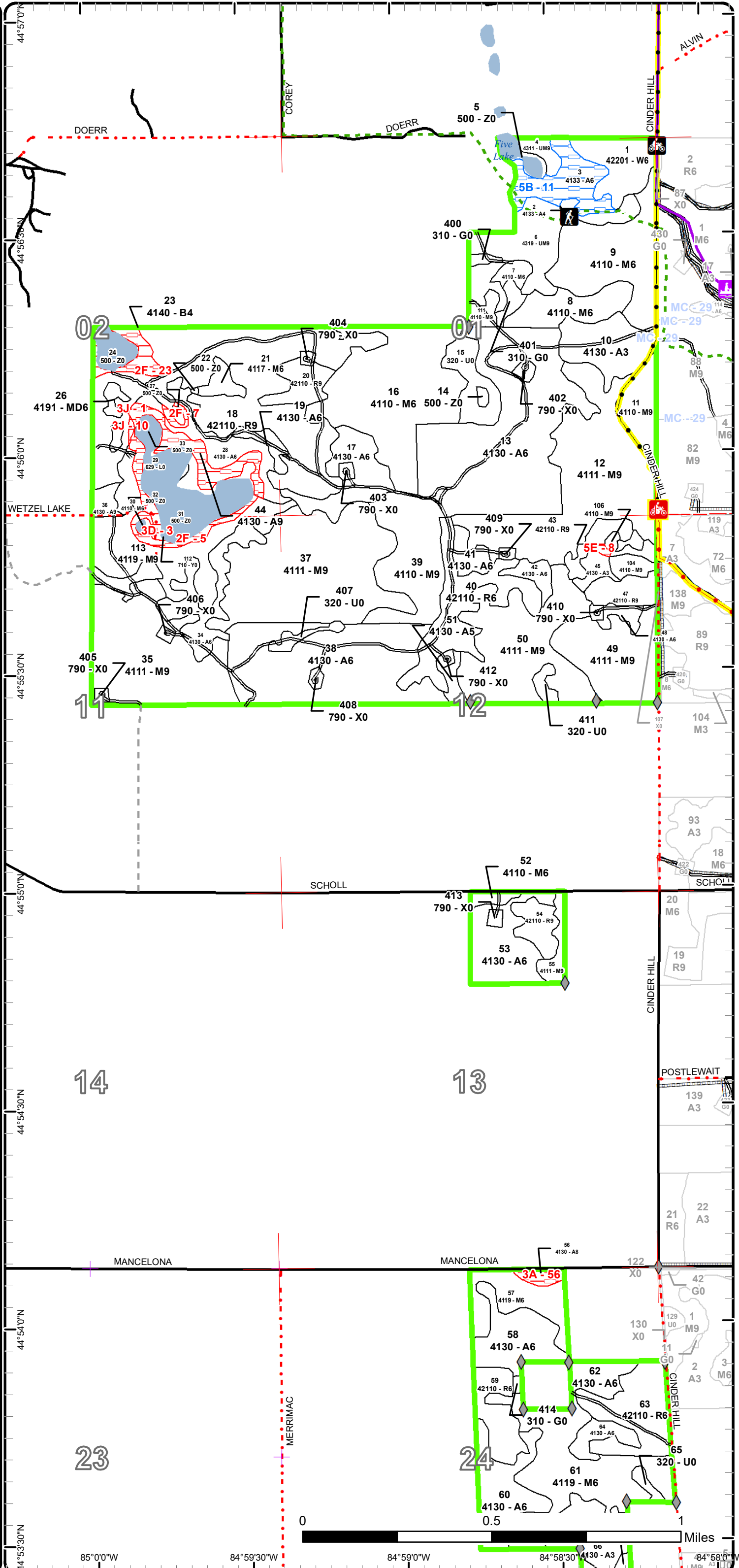


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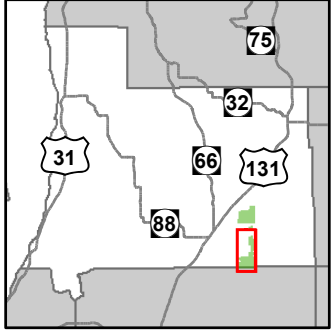
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- Compartment Boundary
- Available w/ Constraints
- Unavailable
- 5B: Maintain for regeneration purposes
- 2F: Too steep
- 3A: Conservation Values incompatible with harvest at this time
- 3D: Recreational / Scenic values
- 3J: Water quality / BMPs (stream, river, or lake)
- 5E: Long-Term Retention
- Stand Boundaries



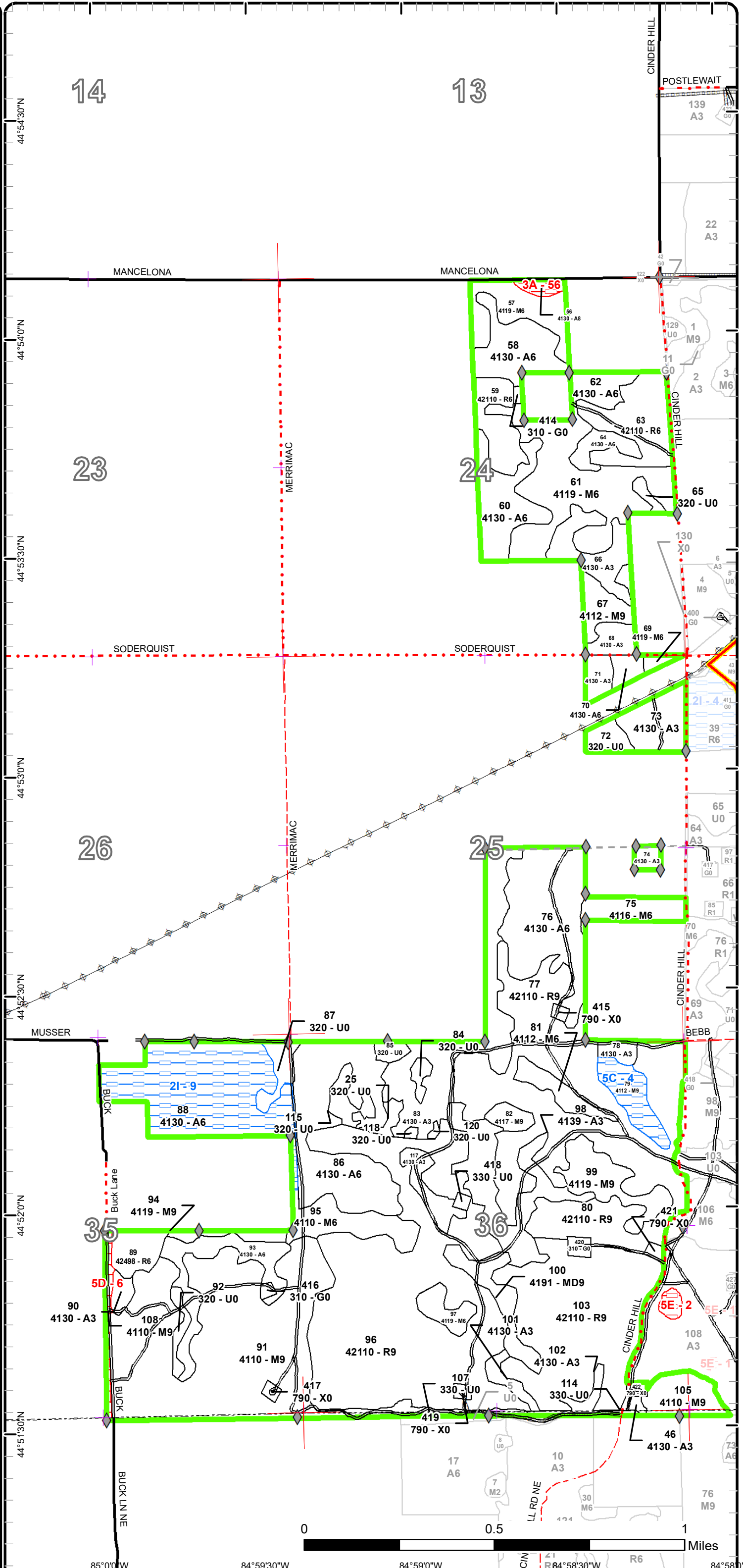


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- Compartment Boundary
- Available w/ Constraints
- Unavailable
- 2I: Survey needed
- 5C: Delay treatment for age/size class diversity or exceptional site quality
- 3A: Conservation Values incompatible with harvest at this time
- 5D: Unproductive Forest Land
- 5E: Long-Term Retention
- Stand Boundaries



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	73	85	234	209	65	21	3	11	0	0	0	0	0	0	0	0	0	700
Bare/Sparsely Vegetated	16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	16
Herbaceous Openland	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8
Low-Density Trees	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9
Lowland Shrub	11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10
Mixed Upland Deciduous	0	0	4	0	0	0	13	0	0	0	0	0	0	0	0	0	0	0	17
Northern Hardwood	0	0	0	0	0	0	4	200	394	76	0	0	0	0	0	0	0	158	832
Paper Birch	0	0	0	0	0	0	0	0	0	6	0	0	0	0	0	0	0	0	6
Red Pine	0	0	0	0	0	0	590	0	0	0	0	0	0	0	0	0	0	0	590
Sand, Soil	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Upland Mixed Forest	0	0	0	0	0	0	0	4	26	0	0	0	0	0	0	0	0	0	30
Upland Shrub	49	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	49
Water	32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	32
White Pine	0	0	0	0	0	0	0	16	0	0	0	0	0	0	0	0	0	0	16
<b>Total</b>	<b>126</b>	<b>73</b>	<b>89</b>	<b>234</b>	<b>209</b>	<b>65</b>	<b>628</b>	<b>223</b>	<b>431</b>	<b>82</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>158</b>	<b>2316</b>



## Report 2 – Treatment Summary

Gaylord Mgt. Unit

Year of Entry: 2020

Acres of Harvest

Compartment 61

Total Compartment Acres: 2,319

Commercial Harvest - 687  
 Harvests with Site Condition - 63  
 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	63	0	0	0	0	0	0	0	0	63
Mixed Upland Deciduous	13	0	0	0	0	0	0	0	0	13
Northern Hardwood	76	287	0	0	0	0	0	0	0	363
Red Pine	193	0	0	0	0	107	12	0	0	312
<b>Total</b>	<b>344</b>	<b>287</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>107</b>	<b>12</b>	<b>0</b>	<b>0</b>	<b>750</b>

### Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	750	0	0	0	0	0	52	0	0	802
Next Step	0	462	231	0	0	231	888	0	0	1813
<b>Total</b>	<b>750</b>	<b>462</b>	<b>231</b>	<b>0</b>	<b>0</b>	<b>231</b>	<b>940</b>	<b>0</b>	<b>0</b>	<b>2615</b>



Standard

Treatment ID	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
12	52061012-Cut	7.8	4111 - S.Maple, Hard Mast Association	Sawtimber Well	89	111-140	Harvest	Clearcut with Retention	4211 - Planted Red Pine	Even-Aged	Draft Field Boundary

**Habitat Cut: No**

**Site Condition:**

Prescription Final harvest stand, leave minimal retention, place retention along edge of cut boundary or on implantable slopes if applicable. Add chipping  
Specs: specs, and make sure stumps are cut low enough to allow for planting.

Next Step SitePrep, Roller Chopping; SitePrep, Trenching; Planting, Initial Plant; Monitoring, Artificial Regen(1yr); Pesticide, Skidder/Mechanical;  
Treatments: Monitoring, Artificial Regen(3yr)

Acceptable A well stocked stand of planted red pine  
Regen:

Other Incorporate planting of hard and soft mast where applicable.  
Comment:

Proposed Start Date: 10/1 /2019

12	52061012-Cutx	66.0	4111 - S.Maple, Hard Mast Association	Sawtimber Well	89	111-140	Harvest	Group Selection	4116 - Mixed N. Hardwood - Aspen	Two-Aged	Draft Field Boundary
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**Habitat Cut: No**

**Site Condition:**

Prescription Mark out large regen gaps in areas dominated by aspen, basswood, and/or beech. Gaps should be a minimum of an acre in size. Gaps should  
Specs: not cover more than 50 percent of the treatment. In areas not in the gaps, a thinning should be implemented with a target BA of 80-90 feet to release crop trees.

Next Step Monitoring, Natural Regen (Intermediate)  
Treatments:

Acceptable In gaps, a mix of aspen, red maple, basswood, and some trace sugar maple, with less than 20% beech. Regen is not in a concern in areas that  
Regen: will be thinned.

Other If treatment doesn't meet stated objectives, discuss alternatives with stakeholders. Be sure to add appropriate trail protection specs along the  
Comment: MCCT trail.

Proposed Start Date: 10/1 /2019

16	52061016-Cut	19.9	4110 - Sugar Maple Association	Poletimber Well	68	81-110	Harvest	Clearcut with Retention	4199 - Other Mixed Upland Deciduous	Even-Aged	Draft Field Boundary
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**Habitat Cut: No**

**Site Condition:**

Prescription Final harvest stand, stand retention. Leave all white pine.  
Specs:

Next Step Monitoring, Natural Regen (Intermediate)  
Treatments:

Acceptable A mix of maple, aspen, and black cherry that is at least 1/3 aspen and meets minimum stocking requirements.  
Regen:

Other  
Comment:

Proposed Start Date: 10/1 /2019

16	52061016-Cut_RP	44.3	4110 - Sugar Maple Association	Poletimber Well	68	81-110	Harvest	Clearcut with Retention	4211 - Planted Red Pine	Even-Aged	Draft Field Boundary
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**Habitat Cut: No**

**Site Condition:**

Prescription Final harvest stand, leave as close to 3 percent retention as possible, locate retention along boundaries of harvest.  
Specs:

Next Step SitePrep, Roller Chopping; SitePrep, Trenching; Planting, Initial Plant; Monitoring, Artificial Regen(1yr); Pesticide, Skidder/Mechanical;  
Treatments: Monitoring, Artificial Regen(3yr)

Acceptable A fully stocked red pine plantation.  
Regen:

Other Incorporate planting of hard and soft mast where applicable. Leave 2 3-5 acre unplanted patches post harvest, these patches can be chosen  
Comment: following the harvest to best meet wildlife objectives.

Proposed Start Date: 10/1 /2019



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
20	52061020-Cut	9.1	42110 - Planted Red Pine	Sawtimber Well	56	81-110	Harvest	Overstory Removal	4199 - Other Mixed Upland Deciduous	Even-Aged	Draft Field Boundary

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

Prescription Final harvest stand by removing the over story, minimize damage to fully stocked under story as much as possible.

Specs:

Next Step Monitoring, Natural Regen (Intermediate)

Treatments:

Acceptable A mix of maple, aspen, and black cherry that meets minimum stocking requirements.

Regen:OtherComment:

Proposed Start Date: 10/1 /2019

43	52061043-Cut	8.2	42110 - Planted Red Pine	Sawtimber Well	55	81-110	Harvest	Clearcut with Retention	4211 - Planted Red Pine	Even-Aged	Draft Field Boundary
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**Habitat Cut: No****Site Condition:**

Prescription Final harvest, retention has already been mapped out. Be sure to include chipping and stump height specs.

Specs:

Next Step SitePrep, Roller Chopping; SitePrep, Trenching; Planting, Initial Plant; Monitoring, Artificial Regen(1yr); Pesticide, Skidder/Mechanical;

Treatments: Monitoring, Artificial Regen(3yr)

Acceptable A fully stocked stand of planted red pine.

Regen:

Other Incorporate planting of hard and soft mast where applicable.

Comment:

Proposed Start Date: 10/1 /2019

47	52061047-Cut	8.7	42110 - Planted Red Pine	Sawtimber Well	55	111-140	Harvest	Clearcut with Retention	4211 - Planted Red Pine	Even-Aged	Draft Field Boundary
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**Habitat Cut: No****Site Condition:**

Prescription Final harvest, leave a one acre patch of retention along the south or east boundary of the stand.

Specs:

Next Step SitePrep, Roller Chopping; SitePrep, Trenching; Planting, Initial Plant; Monitoring, Artificial Regen(1yr); Pesticide, Skidder/Mechanical;

Treatments: Monitoring, Artificial Regen(3yr)

Acceptable A fully stocked red pine plantation.

Regen:OtherComment:

Proposed Start Date: 10/1 /2019

49	52061049-Cut	30.3	4111 - S.Maple, Hard Mast Association	Sawtimber Well	78	111-140	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven-Aged	Field Boundary
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**Habitat Cut: No****Site Condition:**

Prescription Mark to cut with a target BA of 70. Establish regen gaps where applicable.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable A mix of hardwood species that resembles the current canopy and meets minimum stocking requirements.

Regen:

Other Percent to Treat = 100%

Comment:

Proposed Start Date: 10/1 /2016



Stand	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
50	52061050-Monitor	51.8	4111 - S.Maple, Hard Mast Association	Sawtimber Well	78	111-140	Monitoring	Natural Regen (Intermediate)	411 - Northern Hardwood	Even-Aged	Draft Field Boundary

**Habitat Cut: No****Site Condition:**PrescriptionSpecs:Next StepTreatments:Acceptable Any mix of deciduous species that result in a well stocked stand of northern hardwood species.Regen:Other Percent to Treat = 100%Comment:Proposed Start Date: 10/1 /2017

57	52061057-Cut	16.6	4119 - Mixed Northern Hardwoods	Poletimber Well	68	111-140	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven-Aged	Field Boundary
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**Habitat Cut: No****Site Condition:**Prescription Mark to cut stand with a target BA of 80. Establish regen gaps where applicable.Specs:Next Step Monitoring, Natural Regen (Re-Inventory)Treatments:Acceptable A mix of hardwood species similar to the canopy that meets minimum stocking requirements.Regen:Other Percent to Treat = 100%Comment:Proposed Start Date: 10/1 /2016

61	52061061-Cut	44.7	4119 - Mixed Northern Hardwoods	Poletimber Well	67	111-140	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven-Aged	Field Boundary
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**Habitat Cut: No****Site Condition:**Prescription Mark to cut stand with a target residual BA of 80. Establish regen gaps where applicable.Specs:Next Step Monitoring, Natural Regen (Re-Inventory)Treatments:Acceptable A mix of hardwood species that resembles the canopy and meets minimum stocking requirements.Regen:Other Percent to Treat = 100%Comment:Proposed Start Date: 10/1 /2016

80	52061080-Cut	107.0	42110 - Planted Red Pine	Sawtimber Well	55	141-170	Harvest	Crown Thinning	4211 - Planted Red Pine	Even-Aged	Draft Field Boundary
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**Habitat Cut: No****Site Condition:**Prescription Thin stand with a target residual BA of 120-140. Try to avoid damaging/harvesting under represented trees where possible. Some areas rows may need to be marked.Specs:Next StepTreatments:AcceptableRegen:OtherComment:Proposed Start Date: 10/1 /2019



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
80	52061080-Cutx	8.5	42110 - Planted Red Pine	Sawtimber Well	55	141-170	Harvest	Clearcut with Retention	4199 - Other Mixed Upland Deciduous	Even-Aged	Draft Field Boundary

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

Prescription Final harvest stand, standard retention.

Specs:

Next Step Monitoring, Natural Regen (Intermediate)

Treatments:

Acceptable Any mix of aspen, maple, and or pine that meets minimum stocking requirements.

Regen:

Other

Comment:

Proposed Start Date: 10/1 /2019

88	52061088-Cut	63.4	4130 - Aspen	Poletimber Well	47	51-80	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	Draft Field Boundary
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**Habitat Cut: No****Site Condition: Survey Needed**

Prescription Final harvest stand, utilize standard retention.

Specs:

Next Step Monitoring, Natural Regen (Intermediate)

Treatments:

Acceptable A stand that meets minimum stocking requirements dominated by big tooth and quaking aspen.

Regen:

Other

Comment:

Proposed Start Date: 10/1 /2019

91	52061091-Cut	129.0	4110 - Sugar Maple Association	Sawtimber Well	72	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 stand to cut with a target BA of 70-90. Establish regen at least 100 feet in diameter at a rate of no less than 1/5 acres. Try to concentrate

Specs: regen gaps around pockets of hard maple saplings that area already developing.

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable A mix of deciduous species that is at least 50% desirable species (hard maple, basswood, birch) that meets minimum stocking requirements.

Regen:

Other

Comment:

Proposed Start Date: 10/1 /2019

96	52061096-Cut	16.9	42110 - Planted Red Pine	Sawtimber Well	55	111-140	Harvest	Clearcut with Retention	4199 - Other Mixed Upland Deciduous	Even-Aged	Draft Field Boundary
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**Habitat Cut: No****Site Condition:**

Prescription Final harvest stand, follow standard retention, leave at least one retention pocket of red pine for vertical structure.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable A mix of mostly aspen, red maple, and black cherry that meets minimum stocking requirements.

Regen:

Other

Comment:

Proposed Start Date: 10/1 /2019



Stand	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
96	52061096-Cutx	16.9	42110 - Planted Red Pine	Sawtimber Well	55	111-140	Harvest	Clearcut with Retention	4199 - Other Mixed Upland Deciduous	Even-Aged	Draft Field Boundary

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

Prescription Final harvest stand, utilize standard retention.

Specs:

Next Step Monitoring, Natural Regen (Intermediate)

Treatments:

Acceptable A mix of aspen, red maple, and black cherry that is at least 1/3 aspen and meets minimum stocking requirements.

Regen:

Other

Comment:

Proposed Start Date: 10/1 /2019

96	52061096-Cutxx	68.8	42110 - Planted Red Pine	Sawtimber Well	55	111-140	Harvest	Clearcut with Retention	4211 - Planted Red Pine	Even-Aged	Draft Field Boundary
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**Habitat Cut: No****Site Condition:**

Prescription Final harvest stand, leave as close to 3 percent retention as possible, place retention pockets along stand harvest boundary.

Specs:

Next Step SitePrep, Roller Chopping; SitePrep, Trenching; Planting, Initial Plant; Monitoring, Artificial Regen(1yr); Pesticide, Aerial; Monitoring,

Treatments: Artificial Regen(3yr)

Acceptable A fully stocked red pine plantation.

Regen:

Other Incorporate planting of hard and soft mast where applicable.

Comment:

Proposed Start Date: 10/1 /2019

100	52061100-Cut	8.0	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Well	55	111-140	Harvest	Clearcut	4211 - Planted Red Pine	Even-Aged	Draft Field Boundary
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**Habitat Cut: No****Site Condition:**

Prescription Final harvest stand, no retention (retention from stand 103 should be utilized as retention for this stand). Re plant

Specs:

Next Step SitePrep, Roller Chopping; SitePrep, Trenching; Planting, Initial Plant; Monitoring, Artificial Regen(1yr); Pesticide, Skidder/Mechanical;

Treatments: Monitoring, Artificial Regen(3yr)

Acceptable A fully stocked red pine plantation.

Regen:

Other Incorporate planting of hard and soft mast where applicable.

Comment:

Proposed Start Date: 10/1 /2019

100	52061100-Cutx	4.6	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Well	55	111-140	Harvest	Clearcut with Retention	4199 - Other Mixed Upland Deciduous	Even-Aged	Draft Field Boundary
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**Habitat Cut: No****Site Condition:**

Prescription Final harvest stand, mark out 3 clumps of trees of any species to leave for vertical structure. Make sure there are enough trees in clumps to

Specs: keep them wind firm.

Next Step Monitoring, Natural Regen (Intermediate)

Treatments:

Acceptable A mix of aspen, maple, and black cherry that meets minimum stocking requirements.

Regen:

Other

Comment:

Proposed Start Date: 10/1 /2019





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
103	52061103-Cut	81.4	42110 - Planted Red Pine	Sawtimber Well	55	111-140	Harvest	Clearcut with Retention	4211 - Planted Red Pine	Even-Aged	Draft Field Boundary

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

Prescription Final harvest stand, utilize standard retention, try to focus retention on pockets of mixed red pine/deciduous species. Try to keep retention as close to 3 percent as possible. Be sure to include chipping specs

Next Step SitePrep, Roller Chopping; SitePrep, Trenching; Planting, Initial Plant; Monitoring, Artificial Regen(1yr); Pesticide, Skidder/Mechanical;  
Treatments: Monitoring, Artificial Regen(3yr)

Acceptable A fully stocked red pine plantation  
Regen:

Other Incorporate planting of hard and soft mast where applicable.  
Comment:

Proposed Start Date: 10/1 /2019

103	52061103-Cutx	3.1	42110 - Planted Red Pine	Sawtimber Well	55	111-140	Harvest	Overstory Removal	4199 - Other Mixed Upland Deciduous	Even-Aged	Draft Field Boundary
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**Habitat Cut: No****Site Condition:**

Prescription Remove over story trees from stand, avoid damage to fully stocked under story as much as possible. Do not replant. Mark 2 clumps of 5-10 red pine to leave for vertical structure.

Next Step  
Treatments:

Acceptable Natural regeneration that is dominated by aspen and/or maple that meets minimum stocking requirements.  
Regen:

Other As stand ages it should blend in and become part of the adjacent stand 98 to the north.  
Comment:

Proposed Start Date: 10/1 /2019

104	52061104-Cut	3.9	4110 - Sugar Maple Association	Sawtimber Well	69	81-110	Harvest	Clearcut	4211 - Planted Red Pine	Even-Aged	Draft Field Boundary
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**Habitat Cut: No****Site Condition:**

Prescription Final harvest stand, no retention due to stand size, be sure to use chipping and stump height specs in order to properly prep the stand for planting.

Next Step SitePrep, Roller Chopping; SitePrep, Trenching; Planting, Initial Plant; Monitoring, Artificial Regen(1yr); Pesticide, Skidder/Mechanical;  
Treatments: Monitoring, Artificial Regen(3yr)

Acceptable A well stocked red pine plantation of planted origin.  
Regen:

Other Incorporate planting of hard and soft mast where applicable.  
Comment:

Proposed Start Date: 10/1 /2019

**Total Treatment  
Acreage Proposed: 818.9**

## Report 4 – Site Conditions

Gaylord Mgt. Unit  
Zach Crew : Examiner

Compartment: 61  
Year of Entry: 2020

### Availability for Management

Total	Acres	<b>Acres Avail</b>	Acres
Acres	Available	<b>With Condition</b>	Not Available

### Dominant Site Conditions

	Total Acres	Acres Available	Acres With Condition	Acres Not Available	Dominant Site Conditions									
					2I	5B	5C	2F	3A	3D	3J	5D	5E	
702	604	<b>83</b>	16		Aspen	<b>65</b>	<b>18</b>		1	3		11		
16	16	<b>0</b>	0		Bare/Sparsely Vegetated									
8	8	<b>0</b>	0		Herbaceous Openland									
9	9	<b>0</b>	0		Low-Density Trees									
11	11	<b>0</b>	0		Lowland Shrub									
16	16	<b>0</b>	0		Mixed Upland Deciduous									
833	808	<b>12</b>	13		Northern Hardwood			<b>12</b>	5		4		4	
6	0	<b>0</b>	6		Paper Birch				6					
590	589	<b>0</b>	1		Red Pine						0		0	
1	1	<b>0</b>	0		Sand, Soil									
30	30	<b>0</b>	0		Upland Mixed Forest									
49	49	<b>0</b>	0		Upland Shrub									
32	32	<b>0</b>	0		Water									
16	16	<b>0</b>	0		White Pine									
2,319	2,188	<b>95</b>	36		Total Forested Acres	<b>65</b>	<b>18</b>	<b>12</b>	12	3	4	12	4	0
	94%	<b>4%</b>	2%		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	<b>3J: Water quality / BMPs (stream, river, or lake)</b>	11	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Sloping down towards Wetzel Lake.							
2	Unavailable	<b>5E: Long-Term Retention</b>	2	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							

## Report 4 – Site Conditions

Gaylord Mgt. Unit  
Zach Crew : Examiner

Compartment: 61  
Year of Entry: 2020

3	<b>Unavailable</b>	<b>3D: Recreational / Scenic values</b>	4	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
4	<b>Available</b>	<b>5C: Delay treatment for age/size class diversity or exceptional site quality</b>	12	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Looking to final harvest and convert to red pine when the surrounding stand 80 is replanted.							
5	<b>Unavailable</b>	<b>2F: Too steep</b>	5	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
6	<b>Unavailable</b>	<b>5D: Unproductive Forest Land</b>	4	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
7	<b>Unavailable</b>	<b>2F: Too steep</b>	1	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
8	<b>Unavailable</b>	<b>5E: Long-Term Retention</b>	1	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
9	<b>Available</b>	<b>2I: Survey needed</b>	65	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							

## Report 4 – Site Conditions

Gaylord Mgt. Unit  
Zach Crew : Examiner

Compartment: 61  
Year of Entry: 2020

10	<b>Unavailable</b>	<b>3J: Water quality / BMPs (stream, river, or lake)</b>	1	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
11	<b>Available</b>	<b>5B: Maintain for regeneration purposes</b>	18	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Aspen is of poor form and size for its age, should it fall out of stand and let other species develop.							
23	<b>Unavailable</b>	<b>2F: Too steep</b>	6	4A: No Markets Available for these Forest Products	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
56	<b>Unavailable</b>	<b>3A: Conservation Values incompatible with harvest at this time</b>	3	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Will allow stand to convert to northern hardwoods.							

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

Mgt. Unit

Compartment:

Year of Entry



## 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
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
1	42201 - Natural White Pine, Mixed Deciduous	Poletimber Well	16.4	61	81-110	White pine more dense in the western portion of the stand, poor quality aspen. Lots of variability in white pine size classes, most common size class (10-12 inches) the age was 60. There are some large (20+ inch) white pine that are around 95-110 years old.
2	4133 - Aspen, Mixed Pine	Poletimber Poor	5.3	31	Immature	Low spot filling in with white pine, quaking aspen, and black cherry, also scattered hardwood saplings.
3	4133 - Aspen, Mixed Pine	Poletimber Well	18.0	51	51-80	Poor quality aspen, large variability in size of white pine, probably indicative of multiple age classes. Beaver activity noted in the west portion of the stand around stand 5. Small areas of upland brush type scattered throughout the west portion of the stand as well (.1 to .25 acres in size)
4	4311 - Pine, Aspen Mix	Sawtimber Well	3.8	61	81-110	OPIC - FMD: AREAS OF DECENT WP - LIMBY. MIX OF DIAMETERS AND HEIGHTS. ASPEN DYING.
6	4319 - Mixed Upland Forest	Sawtimber Well	25.8	71	81-110	As is common in area, lots of variability in white pine size classes. Age was taken on what appeared to be the most common size class (10-12 inches dbh). Hazelnut and service berry particularly thick along the north slope of the stand. Maple understory very dense under areas of dense understory (mature white pine with a BA over 100)
7	4110 - Sugar Maple Association	Poletimber Well	3.2	68	81-110	Small hardwood stand on ridge, decent quality.
8	4110 - Sugar Maple Association	Poletimber Well	16.0	73	81-110	Quality declines as you go east. Sparse areas in the east filling in with hard maple saplings ~ 20 ft tall. Some hemlock present and large white pine. Average BA ~ 95 from 3 plots.
9	4110 - Sugar Maple Association	Poletimber Well	38.7	74	81-110	THINNED 2002. MOSTLY POOR QUALITY AND CLUMPY. SOME GOOD SINGLE STEMS. M3 ~ 5 FT TALL AND HEAVY TO IRONWOOD AND BCH. SOME YOUNG HEMLOCK 20 FT TALL AND 1 - 3" DIAMETER ON EAST SIDE. Some walkthrough pockets in the stand are filling in with sugar maple saplings. Regen pockets that were established during the previous cut are almost 100 percent ironwood. Serviceberry and hazelnut concentrated on the north edge of the stand.
10	4130 - Aspen	Sapling Well	20.0	16	Immature	Stand cut in 2002, white pine left, lots of red maple stump sprouts.
11	4110 - Sugar Maple Association	Sawtimber Well	12.5	72	81-110	Thinned in 2002. Heavy beech/ironwood understory. BA ~ 105 from 3 plots.
12	4111 - S.Maple, Hard Mast Association	Sawtimber Well	73.8	89	111-140	Sugar maple is mainly found in the west side of the stand in a few open pockets filling in. Ironwood and beech mainly found in the west as well, understory becomes less dense in the east portion of the stand. Aspen mainly found in pockets along the east boundary of the stand ranging in size from 1/4 acre to 2 acres. Average BA = 135 from 9 plots.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
13	4130 - Aspen	Poletimber Well	88.9	38	51-80	Good looking aspen regen, more hardwood than aspen in spots. Could be broken out into blocks in 10 years. Most hardwood located on ridges in the SE portion of the stand.
16	4110 - Sugar Maple Association	Poletimber Well	64.2	68	81-110	Low quality hardwood stand. Lots of clumps, open areas dominated by ironwood, but a few areas with decent hard maple saps. Scattered clones of big tooth aspen.
17	4130 - Aspen	Poletimber Well	18.4	24	Immature	Nice looking aspen regen
18	42110 - Planted Red Pine	Sawtimber Well	96.7	56	141-170	Stand thinned in 2001. Sparse areas especially in the north and NE portions of the stand. Hawthorne most found in NW portion of stand. Areas of dense hardwood understory. BA~161 from 10 plots. SW corner of stand part of Wetzel Lake Day Use Area (L-9844)
19	4130 - Aspen	Poletimber Well	3.9	23	Immature	Small clone of almost pure Big Tooth Aspen on ridge top. well stocked regen.
20	42110 - Planted Red Pine	Sawtimber Well	9.1	56	81-110	Lots of space between rows, heavy hardwood understory 20-25 feet tall. Thinned in 2001.
21	4117 - Mixed N. Hardwood - Pine	Poletimber Well	4.2	51	1-50	Scattered Quaking Aspen, Red Pine, Red Maple, and Black Cherry. Frost Pocket.
23	4140 - Other Upland Deciduous	Poletimber Poor	6.4	81	1-50	Mostly open grown paper birch, tried to core for age, too punky.
26	4191 - Mixed Upland Deciduous with Conifer	Poletimber Well	3.5	17	Immature	All aspen and hardwood cut out of stand in 2001. Red pine left. Merge with stand 25
28	4130 - Aspen	Poletimber Well	15.8	23	51-80	Big tooth aspen and Paper Birch on ridge overlooking Wetzel Lake. Some portions of stand were final harvested in 1994. Not sure why some areas cut and others not. Younger areas dominated by Quaking Aspen. Variable size classes, varies from A3 to M3 to MD9. Most of stand consists of steep slopes down to Wetzel Lake. BA ~ 64 from 4 plots.
30	4110 - Sugar Maple Association	Poletimber Well	9.1	78	81-110	Low Quality hardwood stand, east facing slope. Part of Wetzel Lake Day Use Area (L-9844). BA ~ 107 from 3 plots.
34	4130 - Aspen	Poletimber Well	22.4	24	Immature	Well stocked regen, rolling hills. Cut in 1994. Majority of stand lies within the Wetzel Lake Day Use area (L-9844)
35	4111 - S.Maple, Hard Mast Association	Sawtimber Well	56.4	75	81-110	Thinned in 2003. North facing slope, some single stem crop trees in spots, mostly clumpy low quality hardwoods. BA ~ 98 from 6 plots. North 1/4 of stand lies within the Wetzel Lake Day Use Area (L-9844)
36	4130 - Aspen	Sawtimber Well	3.4	54	81-110	Small clone of aspen transitioning to hardwood similar to stand 30. Part of Wetzel Lake Day Use area (L-9844)





	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
37	4111 - S.Maple, Hard Mast Association	Sawtimber Well	74.8	73	81-110	Thinned in 2003. BA still really low, aspen sprouted and growing from where the clones were cut. BA ~ 87 from 8 plots.
38	4130 - Aspen	Poletimber Well	66.1	38	51-80	Good looking aspen stand, some aspen logs already developing. Rolling hills, scattered residual open grown hardwood left.
39	4110 - Sugar Maple Association	Sawtimber Well	32.6	68	81-110	Steep slope along eastern boundary dropping down to stand 40. BA ~ 108 from 4 plots.
40	42110 - Planted Red Pine	Poletimber Well	28.9	55	111-140	IRREGULAR PLANTATION ROWS AND BOUNDARY. DECENT QUALITY. SOME ROLLING HILLS AND AREAS OF HEAVY M3 UNDERSTORY. SOME ASP, HDWD AND PORKY DAMAGE. MAY NEED TO MARK. Thinning completed 1/3/2014.
41	4130 - Aspen	Poletimber Well	5.5	24	1-50	Some clumps of basswood and beech left. Good aspen regen
42	4130 - Aspen	Poletimber Well	4.5	24	1-50	Some large crowned clumpy hardwood left, good looking regen, already at pole size.
43	42110 - Planted Red Pine	Sawtimber Well	8.7	55	81-110	Irregular rows and stand shape, some porcupine damage, some areas open grown and limby. Thick hardwood understory.
44	4130 - Aspen	Sawtimber Well	11.4	78	81-110	Big tooth aspen and Paper Birch on ridge overlooking Wetzel Lake. Some portions of stand were final harvested in 1994. Not sure why some areas cut and others not. Younger areas dominated by Quaking Aspen. Variable size classes, varies from A3 to M3 to MD9. Most of stand consists of steep slopes down to Wetzel Lake. BA ~ 64 from 4 plots
45	4130 - Aspen	Sapling Well	5.4	24	Immature	Small pocket of aspen, good looking regen, good stocking.
46	4130 - Aspen	Sapling Well	1.0	7	Immature	Stand harvested in conjunction with stand 108 in compartment 62. Good looking aspen regen.
47	42110 - Planted Red Pine	Sawtimber Well	8.7	55	111-140	3rd row thinned in 2001. Rows go east to west, very thick hardwood understory, stocking slightly better than stand 43 to the north.
48	4130 - Aspen	Poletimber Well	3.3	24	1-50	Good Looking pocket of aspen regen.
49	4111 - S.Maple, Hard Mast Association	Sawtimber Well	32.2	78	111-140	Thinned in 1992. Heavy beech/ironwood understory. Decent quality hardwoods, mostly single stems. Currently marked and on proposal as part of Halftime Hardwoods Redux Sale. BA ~ 129 from 5 plots.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
50	4111 - S.Maple, Hard Mast Association	Sawtimber Well	51.8	78	111-140	OPIC - FMD: POOR/FAIR QUALITY HDWD. AREAS OF MORE OPEN GROWN/WOLF TREES. BASSWOOD CLUMPS COMMON. SOME ASPEN AND ROLLING HILLS. BCH UNDERSTORY. TRY SOME GROUP SELECTION AND/OR STRIP CUTS. Sale completed in may 2015 as part of Walk on Home Hardwood. Conduct regen survey summer of 2008.
51	4130 - Aspen	Poletimber Medium	3.2	38	1-50	Large crowned maple left in a few spots.
52	4110 - Sugar Maple Association	Poletimber Well	2.6	81	81-110	Clumpy and open grown hardwood stand on slight north facing slope, according to previous comments it may have been left as a buffer when stand 53 was harvested.
53	4130 - Aspen	Poletimber Well	21.3	26	Immature	Pockets of higher quality Bigtooth Aspen on ridge tops. Some big tooth almost 8 inches DBH. Stand harvested in 1991.
54	42110 - Planted Red Pine	Sawtimber Well	8.2	56	111-140	Removed hardwood and aspen in 1991. Thick hardwood understory throughout. Red Pine open grown, short, and bushy.
55	4111 - S.Maple, Hard Mast Association	Sawtimber Well	5.5	78	81-110	Low quality hardwood stand, lots of clumps and poor form.
56	4130 - Aspen	Sawtimber Medium	3.0	61	1-50	Dying aspen, not a fully stocked stand (~60 percent canopy closure). Thick developing hardwood understory, previous comments were to let stand convert, seems like a good idea.
57	4119 - Mixed Northern Hardwoods	Poletimber Well	17.7	68	111-140	Stand currently out for bid under contract Halftime Hardwoods Redux. Lots of single stems, some areas of open grown/clumpy hardwood.
58	4130 - Aspen	Poletimber Well	20.2	27	1-50	Good looking aspen regen.
59	42110 - Planted Red Pine	Poletimber Well	14.0	56	111-140	Thinned 2002. Very open and limby. BA ~ 137 from 3 plots. lots of space between rows.
60	4130 - Aspen	Poletimber Well	21.8	27	1-50	Similar to stand 58, cut at the same time, good looking aspen regen, mainly big tooth.
61	4119 - Mixed Northern Hardwoods	Poletimber Well	52.7	67	111-140	Lots of open grown hardwood, scattered single stems. Stand currently up for bid under contract Halftime Hardwoods Redux.
62	4130 - Aspen	Poletimber Well	8.0	27	1-50	Nice aspen regen, dominated by big tooth.
63	42110 - Planted Red Pine	Poletimber Well	24.8	56	141-170	Species thinned in 1991, row thinned in 2002. Red Pine stocking fairly sparse in some areas. North portion of stand stocking is better. Average BA ~142 from 5 points.
64	4130 - Aspen	Poletimber Well	6.4	27	1-50	Good Looking Aspen regen.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
66	4130 - Aspen	Sapling Well	15.6	7	Immature	Stand clear-cut 2011 Aestivation Aspen. Good looking aspen regen (10-15 ft tall)
67	4112 - Maple, Beech, Cherry Association	Sawtimber Well	10.1	72	111-140	Small hardwood stand, mostly red maple, good stocking BA ~ 125 from 3 plots. Fair quality, some single stems.
68	4130 - Aspen	Sapling Well	6.2	7	Immature	Stand clear-cut 2011 Aestivation Aspen. Nice looking regen, quaking more predominate than in other stands in the compartment.
69	4119 - Mixed Northern Hardwoods	Poletimber Well	1.7	71	81-110	Small section of poor quality open grown hardwood on a slight rise.
70	4130 - Aspen	Poletimber Well	4.0	27	1-50	Nice aspen regen
71	4130 - Aspen	Sapling Well	5.0	7	Immature	Stand clear-cut 2011 Aestivation Aspen. Well stocked regen, more Quaking noticed than in other stands in the area.
73	4130 - Aspen	Sapling Well	15.2	17	Immature	Nice well stocked aspen regen.
74	4130 - Aspen	Sapling Well	2.8	7	Immature	Stand harvested in 2011. Good looking aspen regen, fully stocked. According to old notes stand was recommended for disposal last YOE, but has not been disposed of according to LOTS.
75	4116 - Mixed N. Hardwood - Aspen	Poletimber Well	11.2	64	51-80	Slight north facing ridge with low quality hardwood and over mature aspen that is falling apart.
76	4130 - Aspen	Poletimber Well	45.5	38	1-50	Good looking aspen regen, dominated by big tooth.
77	42110 - Planted Red Pine	Sawtimber Well	22.3	55	141-170	Stand thinned in 2014. Better stocking in the northern portion of the stand (some areas still as high as 190). In the south the BA ~ 140. Dense hardwood understory.
78	4130 - Aspen	Sapling Well	3.6	16	Immature	Fully Stocked aspen regen.
79	4112 - Maple, Beech, Cherry Association	Sawtimber Well	11.9	70	111-140	Fair quality hardwood, barely any understory development.
80	42110 - Planted Red Pine	Sawtimber Well	115.6	55	141-170	Thinned in 2002. Decent Quality Red Pine throughout, some areas limby or open grown. Rows well defined in most spots. Dense hardwood understory, mostly sugar maple.
81	4112 - Maple, Beech, Cherry Association	Poletimber Well	8.0	68	81-110	Poor quality hardwood stand.
82	4117 - Mixed N. Hardwood - Pine	Sawtimber Well	4.3	68	81-110	Poor quality hardwood, some planted red pine and declining aspen.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
83	4130 - Aspen	Sapling Well	42.0	7	Immature	Stand was final harvested in 2011. No retention. Good looking aspen regen. Heavy maple stump sprouting.
86	4130 - Aspen	Poletimber Well	51.4	27	1-50	Planted Red Pine found in the south portions of the stand. Nice developing aspen in most spots, some areas a little sparse.
88	4130 - Aspen	Poletimber Well	64.7	47	51-80	Couldn't find a cutting record but increment borer measurement is close to age from previous inventory. More open grown areas in the SE corner of stand already developing into small aspen logs in some spots. Other areas better stocking but less DBH development.
89	42498 - Red Pine (OI)	Poletimber Well	9.0	56	111-140	OPIC - FMD: NICE TALL RP. LIMBY. SOME HILLS. Thinned in 2014 as part of sale 52-001-11-01
90	4130 - Aspen	Sapling Well	3.2	27	1-50	Small aspen stand, low quality.
91	4110 - Sugar Maple Association	Sawtimber Well	129.9	72	111-140	Thinned 2003. Some areas of decent hard maple regeneration. Flat no terrain issues with operability. BA ~ 120 from 16 points. Quality drops along the west edge of the stand.
93	4130 - Aspen	Poletimber Well	18.9	27	1-50	Mix of poor quality and decent aspen regen. Some pockets dominated by scattered quaking and cherry brush.
94	4119 - Mixed Northern Hardwoods	Sawtimber Well	4.4	72	81-110	Narrow strip of low quality hardwood with a few scattered declining aspen.
95	4110 - Sugar Maple Association	Poletimber Well	16.5	66	81-110	Pockets of planted red pine, low quality hardwood stand. Sugar maple not common in stand, but under red pine portions almost full coverage in the understory.
96	42110 - Planted Red Pine	Sawtimber Well	159.8	55	111-140	Thinned in 2002, sparse stocking throughout, areas of pure A3 or M3.
97	4119 - Mixed Northern Hardwoods	Poletimber Well	6.8	68	81-110	Poor quality multi stem hardwood.
98	4139 - Aspen, Mixed Deciduous	Sapling Well	30.2	16	Immature	Good looking aspen regen, residual patches of planted red pine and low quality hardwood (predominantly red maple) scattered throughout.
99	4119 - Mixed Northern Hardwoods	Sawtimber Well	17.8	67	81-110	Thinned in 2002. Decent Quality Red Pine throughout, some areas limby or open grown. Rows well defined in most spots. Dense hardwood understory, mostly sugar maple.
100	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Well	12.6	55	111-140	Areas of planted red pine, mixed hardwood in areas that plantation failed. Never been thinned. Thick hardwood understory consisting of mostly hard maple where Red Pine is dominant.
101	4130 - Aspen	Sapling Well	4.1	16	Immature	Nice looking aspen regen.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
102	4130 - Aspen	Sapling Well	4.4	16	Immature	Fully stocked aspen regen
103	42110 - Planted Red Pine	Sawtimber Well	84.4	55	111-140	Thinned 2002. Good site indexes for Red Pine in this stand. Lots of areas understocked where plantation failed (BA as low as 30 in some areas) Most of the good stocking is concentrated in the south and southeast (170 BA or higher). Intermixed non red pine areas dominated by sugar maple or quaking aspen with scattered black cherry.
104	4110 - Sugar Maple Association	Sawtimber Well	3.9	69	81-110	Poor quality hardwood, open grown and in clumps, some aspen present.
105	4110 - Sugar Maple Association	Sawtimber Well	13.0	70	81-110	Cut in 2009, decent quality hardwood. BA ~ 98 from 3 plots.
106	4110 - Sugar Maple Association	Sawtimber Well	1.0	67	81-110	Similar to stand 45, low quality clumpy hardwood, a few declining aspen stems.
108	4110 - Sugar Maple Association	Sawtimber Well	4.4	72	51-80	Long narrow low quality strip of timber, open grown and limby.
111	4110 - Sugar Maple Association	Sawtimber Well	4.4	78	111-140	Nice ridge of hardwoods. A heavy understory of undesirable species.
113	4119 - Mixed Northern Hardwoods	Sawtimber Well	36.1	77	81-110	Aspen and PB dying out, majority of east 2/3 of stand is ridgetop that slopes down to Wetzel Lake. Most of stand lies within Wetzel Lake Day Use Area (L-9844). Poor quality hardwood, multi stems common. BA ~ 103 from 4 plots.
117	4130 - Aspen	Sapling Well	7.9	16	Immature	OPIC - FMD: NICE REGEN ~ 12 FT TALL. SCATTERED RES HDWD AND POCKETS OF RP.



Stand	Cover Type	Acres	Managed Site	General Comments:
5	500 - Water	4.1	No	Five Lake
14	500 - Water	0.9	No	Seasonally wet pond.
15	320 - Upland Shrub	11.9	No	Slopes down to depression in the center of the stand, frost pocket, scattered aspen, black cherry, and red maple.
22	500 - Water	0.2	No	Small depression, seasonally wet pond
24	500 - Water	5.5	No	Dry Lake
25	320 - Upland Shrub	2.6	No	Scattered aspen and cherry brush
27	500 - Water	0.8	No	small depression, seasonally wet pond.
29	629 - Mixed non-forested wetland	10.5	No	Dry portion of Wetzel lake, some knapweed noted along shore.
31	500 - Water	17.7	No	Wetzel Lake
32	500 - Water	0.9	No	Seasonally wet depression
33	500 - Water	2.2	No	Weltzel Lake
65	320 - Upland Shrub	2.0	No	Scattered cherry and other various hardwood species filling in.
72	320 - Upland Shrub	5.2	No	Scattered cherry and aspen.
84	320 - Upland Shrub	2.4	No	Scattered Aspen and Cherry brush
85	320 - Upland Shrub	2.7	No	Scattered cherry
87	320 - Upland Shrub	6.2	No	Scattered cherry brush
92	320 - Upland Shrub	3.4	No	Low valley, frost pocket, scattered cherry brush, red maple, and a few lonely quaking aspen.



Stand	Cover Type	Acres	Managed Site	General Comments:
107	330 - Low-Density Trees	6.4	No	Upland brush/areas of grass opening, filling in with mostly maple and back cherry. Some clones of dense aspen regen also throughout stand. Canopy is made up of a few scattered wolfy hard maple and basswood.
112	710 - Sand, Soil	0.6	No	Sandy/gravel area, looks like where people launch kayaks/canoes.
114	330 - Low-Density Trees	1.4	No	Mostly open grass and bracken fern, knapweed present. Gas well roads run through stand.
115	320 - Upland Shrub	6.1	No	Scattered aspen and cherry
118	320 - Upland Shrub	0.6	No	Scattered aspen and black cherry
120	320 - Upland Shrub	0.5	No	Scattered aspen and cherry
400	310 - Herbaceous Openland	1.3	No	Grassy opening, some cherry, aspen, and white pine. Spotted Knapweed present.
401	310 - Herbaceous Openland	2.8	No	Low lying frost pocket, filling in with white pine and cherry.
402	790 - Other Bare/Sparsely Vegetate	1.6	No	Gas Well, Pump Jack and Shed
403	790 - Other Bare/Sparsely Vegetate	1.1	No	GAS WELL - PUMP JACK AND SHED. KNAWWEED.
404	790 - Other Bare/Sparsely Vegetate	0.9	No	Gas Well, valves only
405	790 - Other Bare/Sparsely Vegetate	0.9	No	Gas Well
406	790 - Other Bare/Sparsely Vegetate	0.9	No	Gas Well, Pump Jack and shed
407	320 - Upland Shrub	3.0	No	Scattered cherry, maple, and aspen brush, old road to sale landing, has been closed.
408	790 - Other Bare/Sparsely Vegetate	1.1	No	Gas Well, pump jack and shed, knapweed present.
409	790 - Other Bare/Sparsely Vegetate	0.8	No	Gas well, pump jack and shed, knapweed present.
410	790 - Other Bare/Sparsely Vegetate	0.9	No	Gas well pad
411	320 - Upland Shrub	2.7	No	Scattered cherry, lots of braken and raspberry as well as hardwood brush.



Stand	Cover Type	Acres	Managed Site	General Comments:
412	790 - Other Bare/Sparsely Vegetate	0.9	No	Gas well, pump jack and shed. Knapweed present.
413	790 - Other Bare/Sparsely Vegetate	1.1	No	Pump Jack and Shed
414	310 - Herbaceous Openland	0.7	No	Mostly grass, a few scattered cherry and red maple stems.
415	790 - Other Bare/Sparsely Vegetate	1.0	No	Gas Well
416	310 - Herbaceous Openland	0.9	No	Small opening.
417	790 - Other Bare/Sparsely Vegetate	1.1	No	Gas well
418	330 - Low-Density Trees	1.0	No	Old gas well site, filling in with cherry and aspen.
419	790 - Other Bare/Sparsely Vegetate	1.1	No	Gas Well Site
420	310 - Herbaceous Openland	2.0	No	Old gas well site, beginning to fill in along the edges with cherry and aspen, site plugged in 1980, do not use as a landing, let restoration continue.
421	790 - Other Bare/Sparsely Vegetate	1.1	No	Gas well
422	790 - Other Bare/Sparsely Vegetate	1.3	No	Gas well site