



Compartment Review Presentation

Gaylord Forest Management Unit

Compartment 52104

Entry Year 2020

Acreage: 2,195

County Emmet

Management Area: Emmet Moraines

Revision Date: 2018-04-26

Stand Examiner: Shannon Harig

Legal Description:

T36N R06W Sec. 1-3, 10-12, 14

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:

Blue Lake-Leelanau Association

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

State owned land in this compartment is mostly contiguous and ranges from rolling to very steep.

Unique Natural Features:

Archeological, Historical, and Cultural Features:

Special Management Designations or Considerations:

Watershed and Fisheries Considerations:

The southwest portion of this compartment is within the Central Lake Michigan Management Unit. The portion of the compartment within the Northern Lake Huron Management Unit contains a small unnamed tributary to the West Branch Maple River, a designated trout stream. The clearcut prescribed in Stand 55 appears to cross a small stream/drainage, and seems to get close to another stream along the southern border of the stand. If so, the cutting should stay out of the stream with an appropriate BMP setback.

Wildlife Habitat Considerations:

This compartment consists mainly of Northern hardwoods, some aspen, and planted red pine. The aspen should be harvested in blocks to encourage age-class diversity and to provide early-successional habitat for grouse, woodcock, and deer. Turkeys will also benefit from harvests in hardwoods. There are a number of apple trees in small openings that are in need of pruning to increase apple production.

Mineral Resource and Development Concerns and/or Restrictions

An active sand/gravel pit is located in Section 11, and sand & gravel potential within the compartment is good on the uplands. There has been no oil & gas exploration or production in the area and potential appears to be limited. There is no active mineral leasing in the area.

Vehicle Access:

Very good access throughout the compartment.

Survey Needs:

Approximately 1 mile of line needed.

Recreational Facilities and Opportunities:

A snowmobile trail, ORV route and trailhead are located in this compartment.

Fire Protection:

Additional Compartment Information:

The following reports from the Inventory are attached:

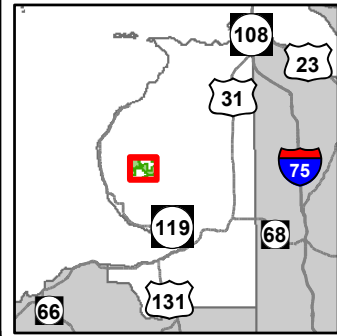
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

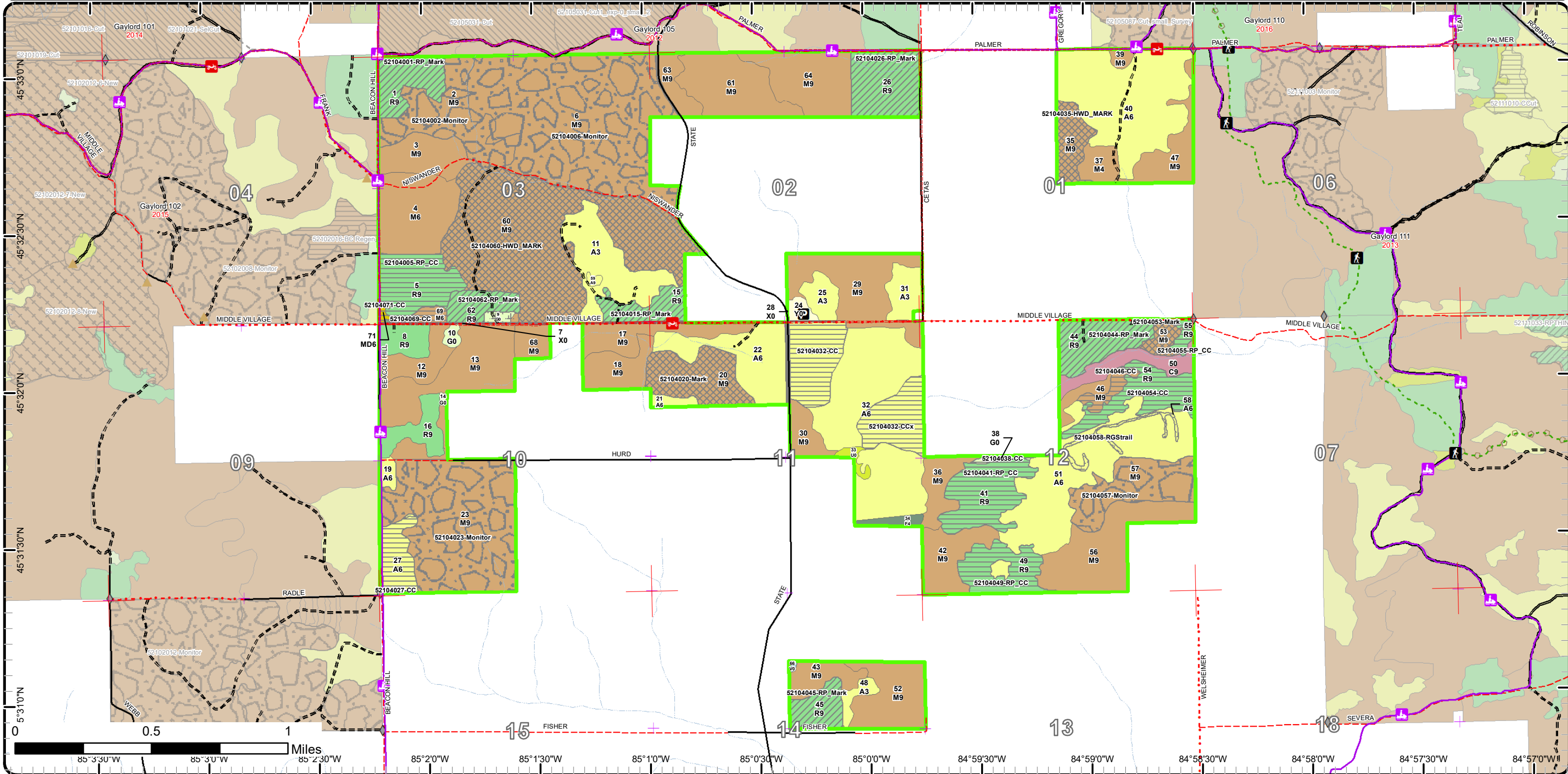
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

Cover Type & Treatments Map

Compartment: 104
 T36N, R06W, Sec. 1-3, 10-12, 14
 County: Emmet
 Unit: Gaylord
 Mgmt Area: Emmet Moraines
 YOE: 2020
 Acres: 2,195 GIS Calculated
 Examiner: Shannon Harig
 Map Revised: 10/1/2018
 Map Phase: Post-Review

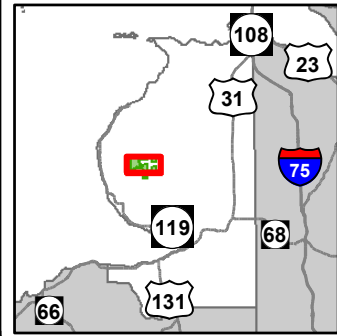


- Miris Corners
- + Remonumented Section Corners
- ◆ Field Grade Corners
- Counties
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Federal / State / County - Paved Road
- County - Gravel Road
- County - Dirt Road (Seasonal)
- 🚶 Hiking Trails
- 🚗 ORV Routes
- 🚙 Snowmobile Trails
- Designated Hiking Trails
- Designated Ski Trails
- Designated Snowshoe Trails
- Designated ORV Route
- Designated Snowmobile Trails
- Berms
- P Parking Lot
- Intermittent Stream
- Compartment Boundary
- Other Treatment - See Comments
- Selection (Group, Single Tree)
- Clearcut (w/Reserves)
- Thinning (Crown, Low, Systematic)
- Regeneration Survey
- Site Prep
- 411 - Northern Hardwood
- 413 - Aspen Types
- 419 - Mixed Upland Deciduous
- 421 - Planted Pines
- 423 - Other Upland Conifers
- 612 - Lowland Coniferous Forest
- 122 - Roads/Parking Lot
- 310 - Herbaceous Openland
- 330 - Low Density Trees
- 622 - Lowland Shrub
- 710 - Sand/Soil

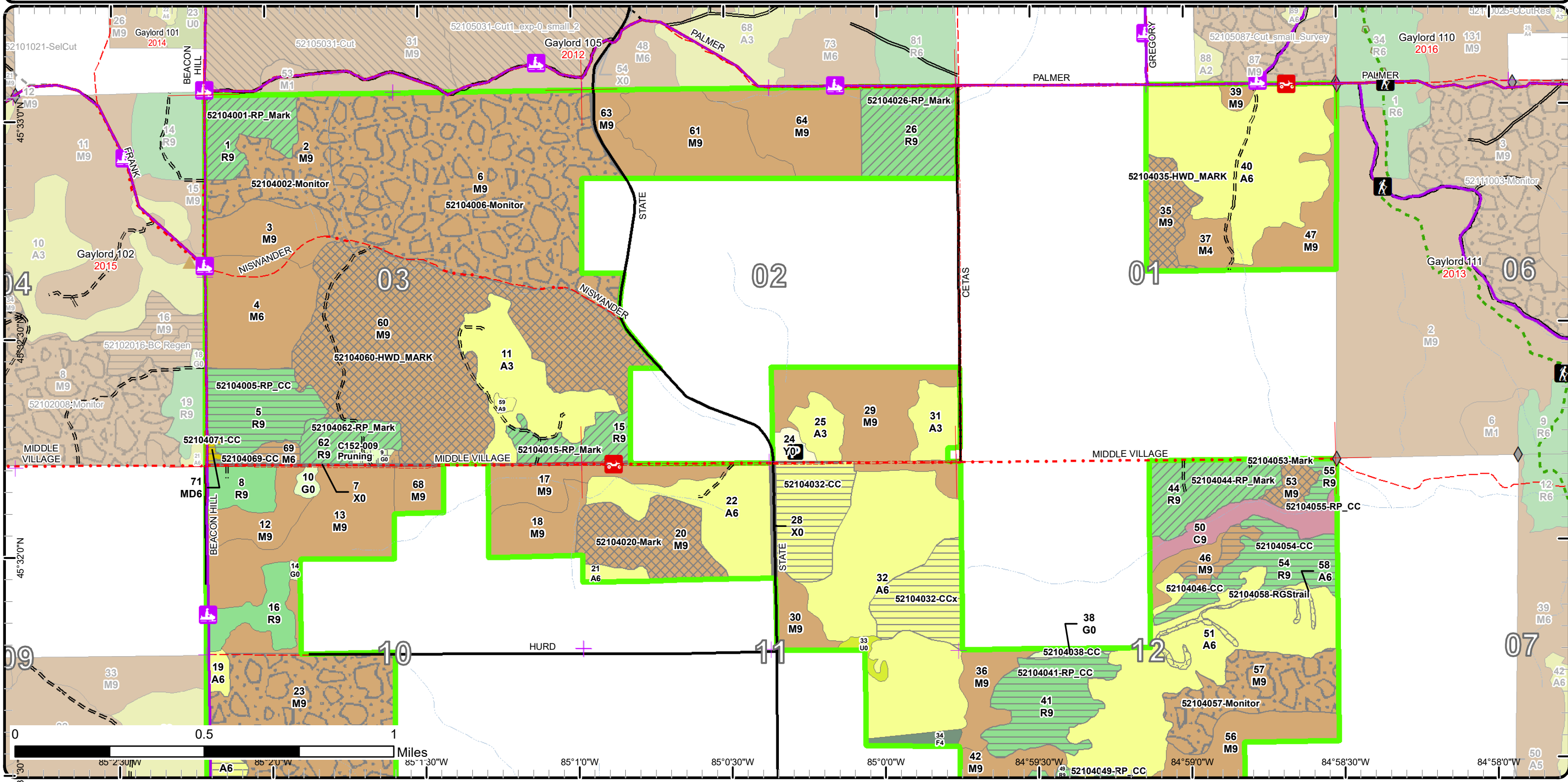


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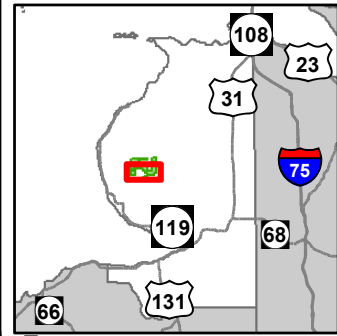


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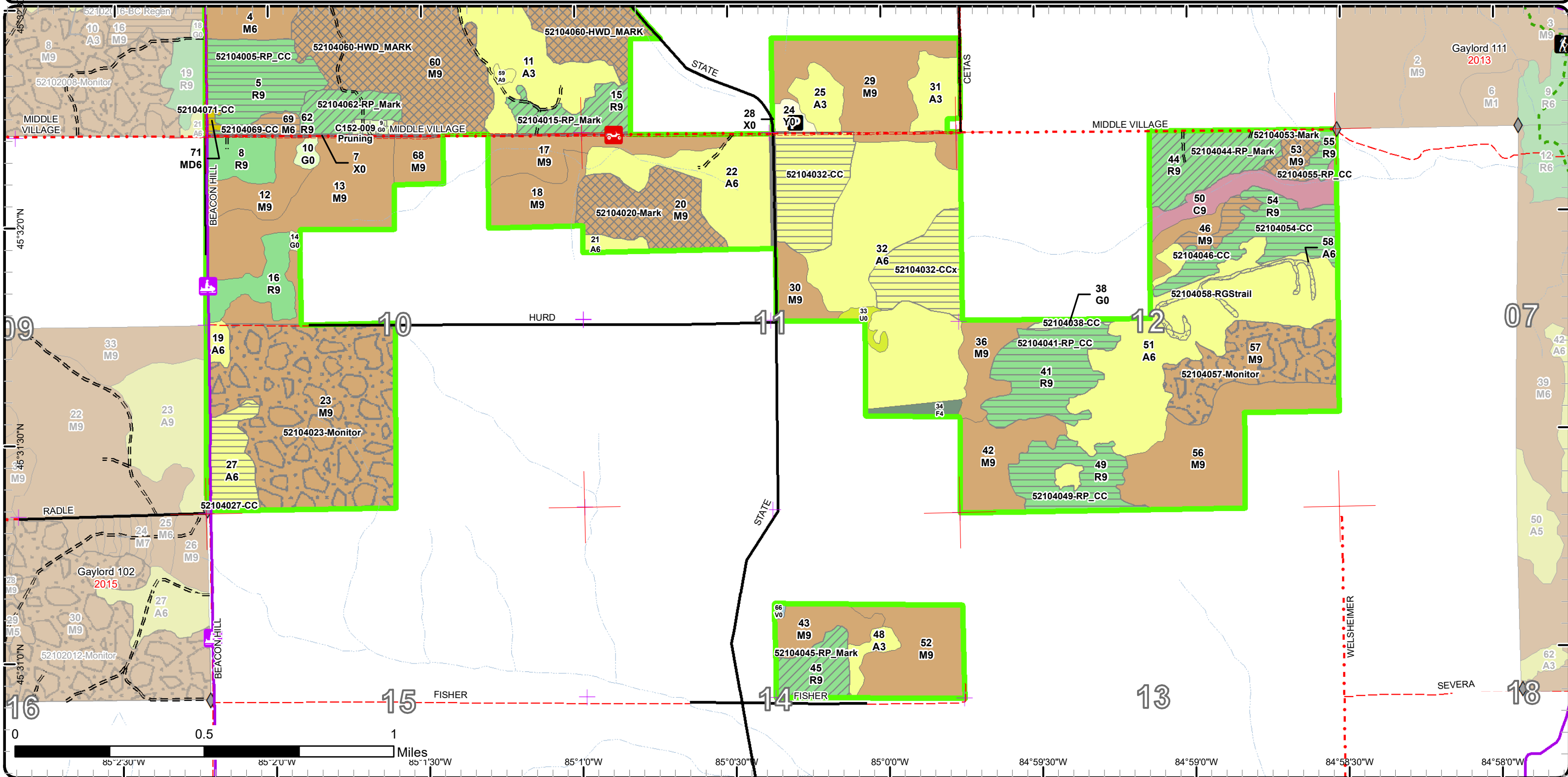


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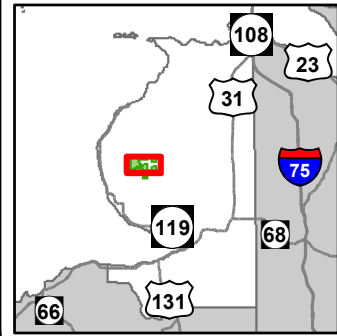
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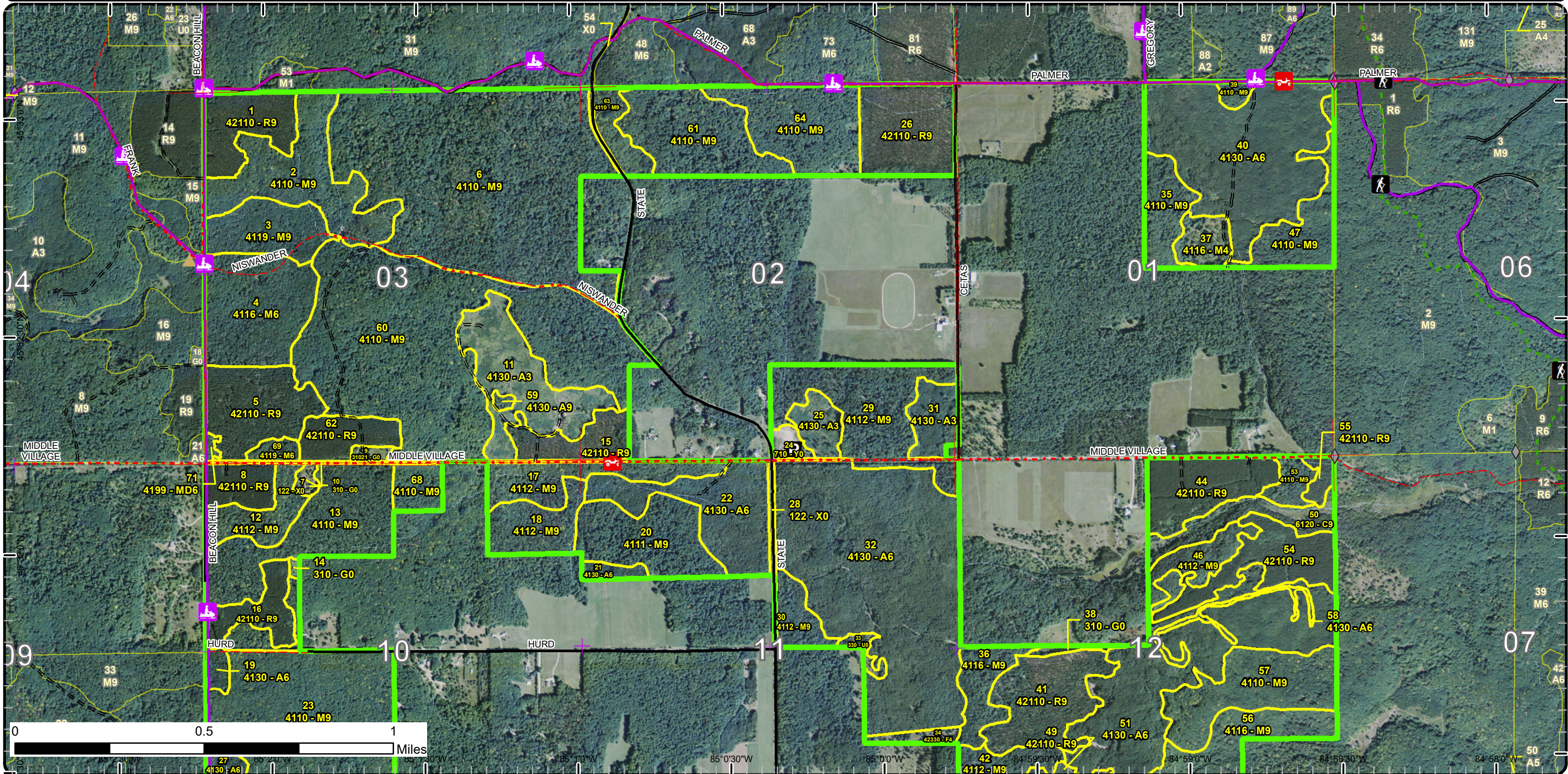


Stand Boundary Map



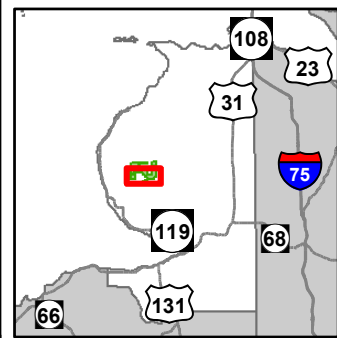
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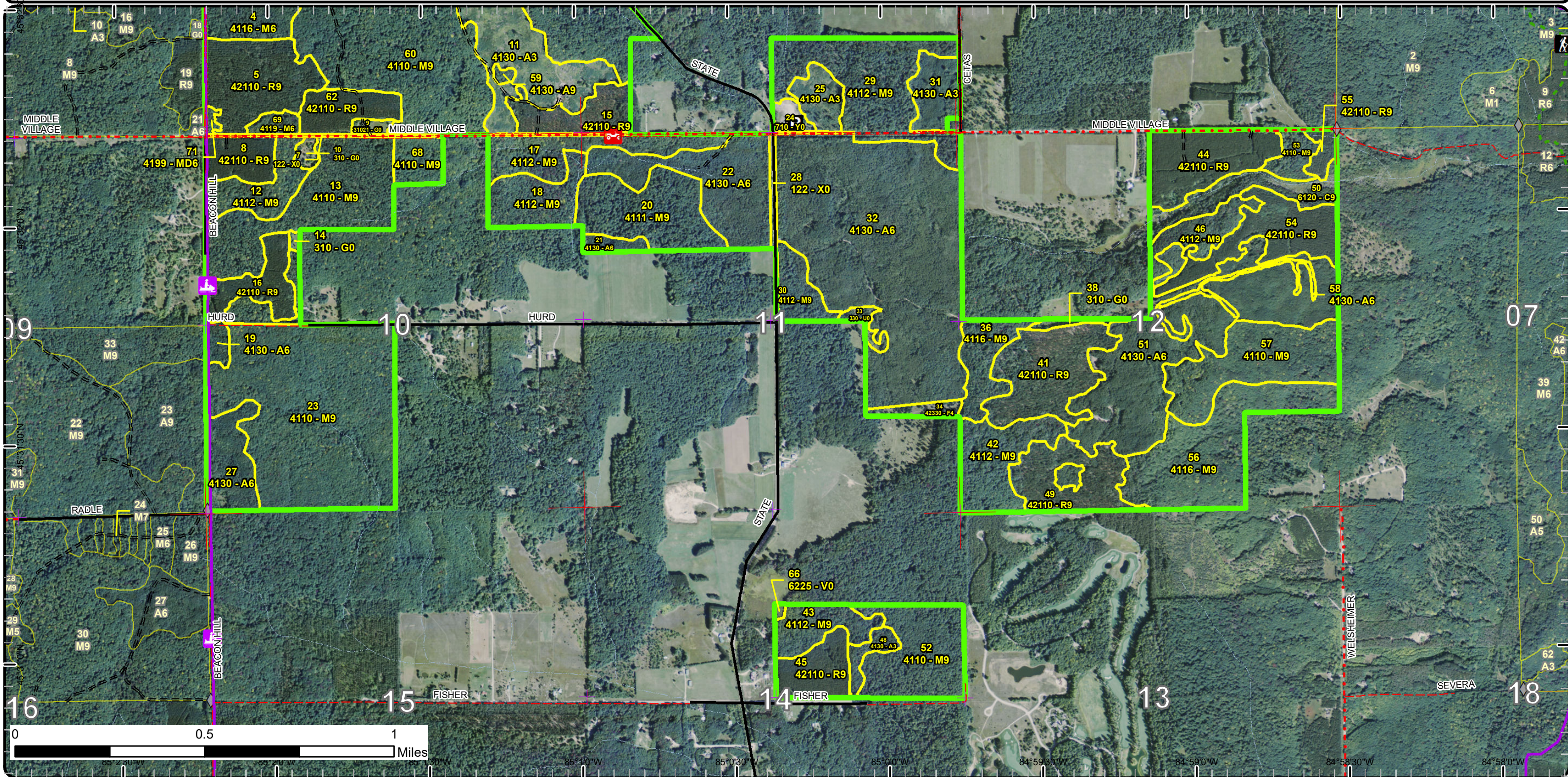


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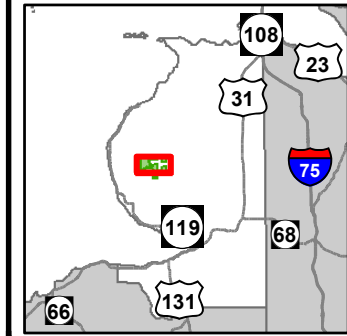


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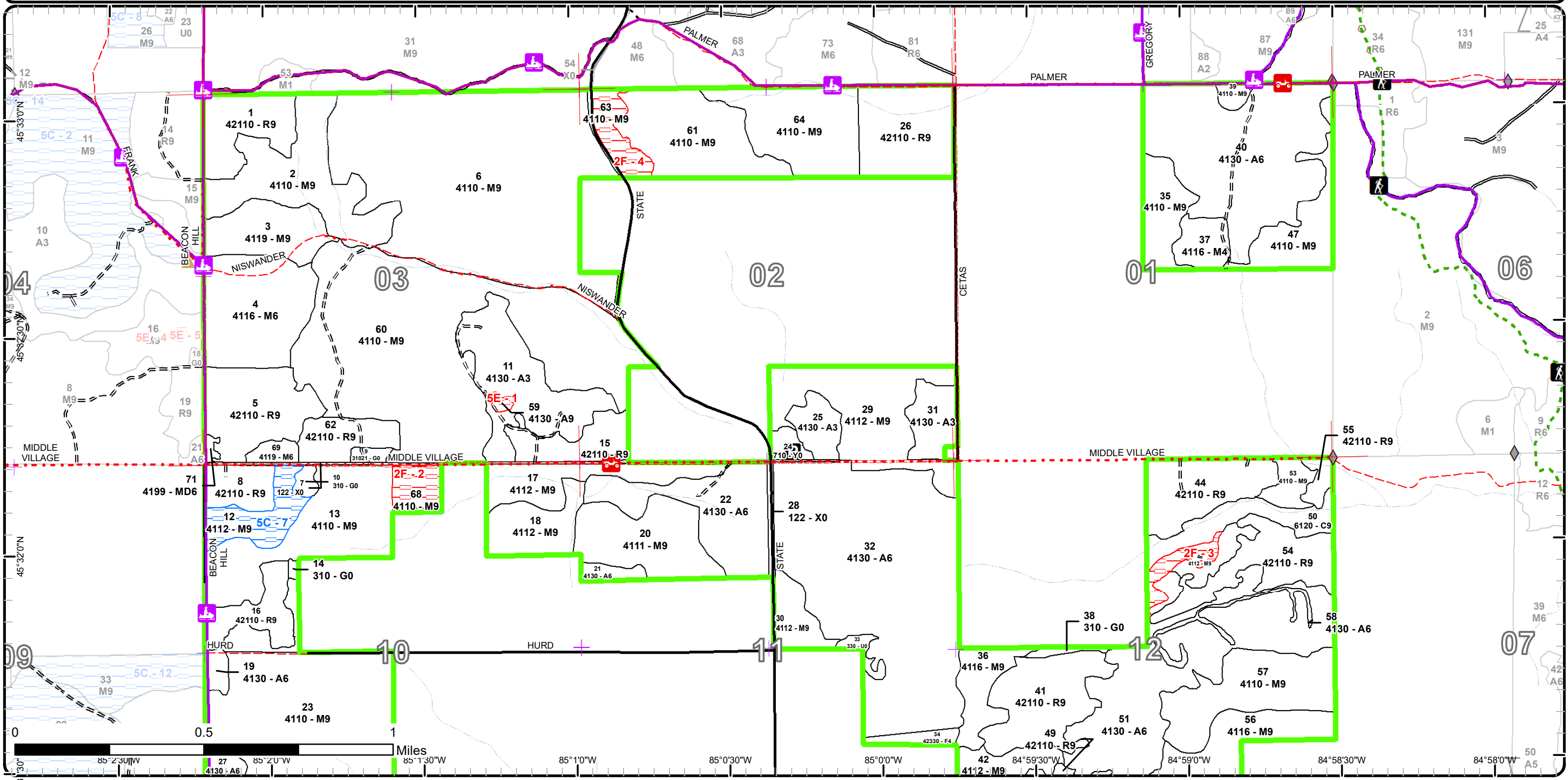


Special Conservation Areas & Site Conditions Map

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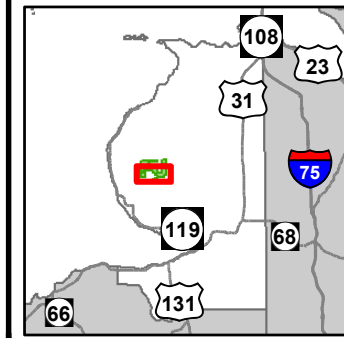


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- Compartment Boundary
- Available w/ Constraints
- Unavailable
- Stand Boundaries
- 2F: Too steep
- 5E: Long-Term Retention

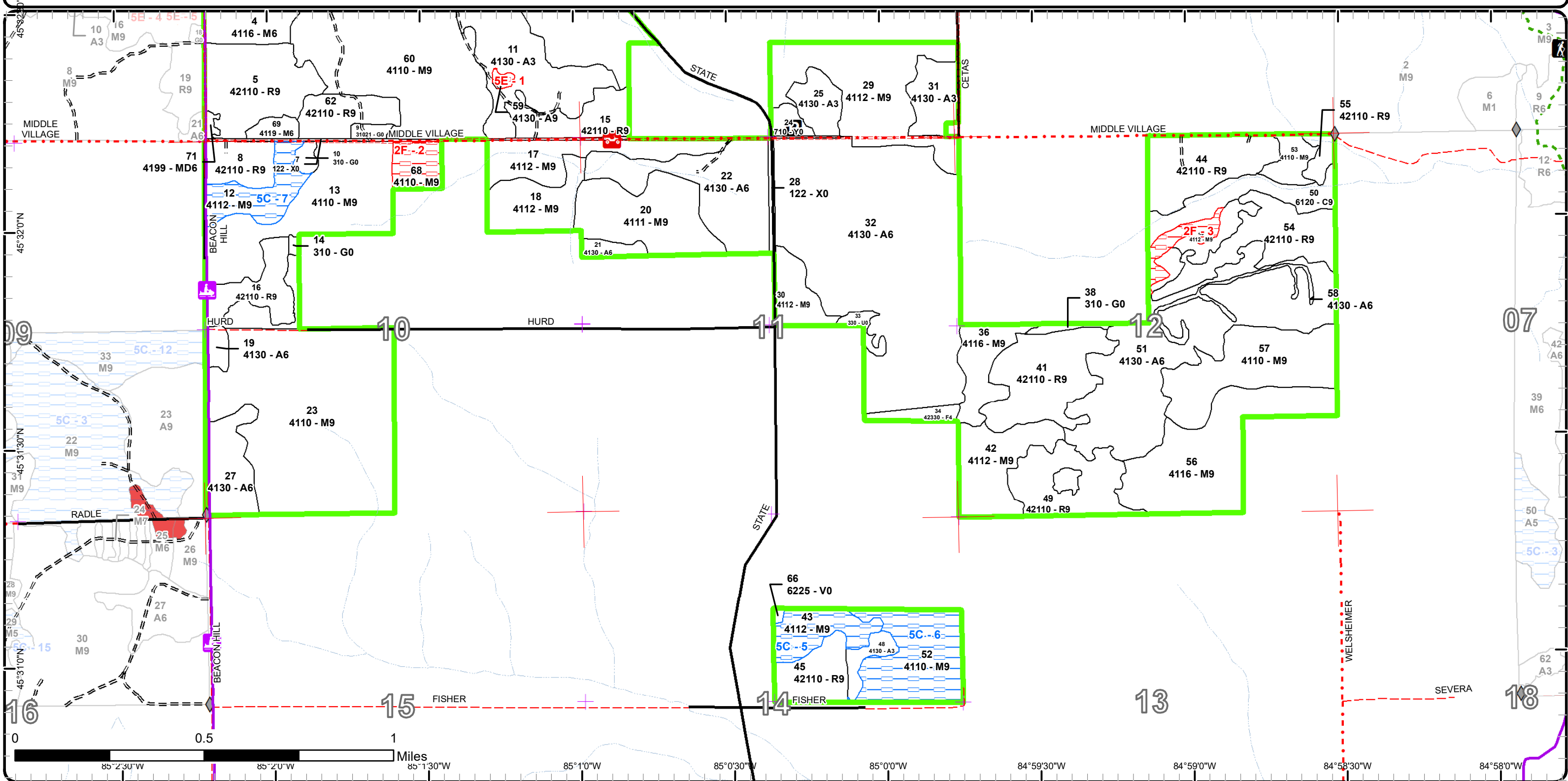


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- Available w/ Constraints
- Unavailable
- 5C: Delay treatment for age/size class diversity or exceptional site quality
- 2F: Too steep
- 5E: Long-Term Retention
- Stand Boundaries
- Ecological Reference Areas





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	65	15	206	242	0	0	1	0	0	0	0	0	0	0	0	0	0	529
Bog	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Cedar	0	0	0	0	0	0	0	0	0	0	20	0	0	0	0	0	0	0	20
Herbaceous Openland	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9
Low-Density Trees	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
Mixed Upland Deciduous	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1
Northern Hardwood	0	0	0	0	0	0	0	11	117	308	186	571	8	87	0	0	0	0	1288
Red Pine	0	0	0	0	0	0	57	267	0	0	0	0	0	0	0	0	0	0	324
Sand, Soil	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
Upland Spruce/Fir	0	0	0	0	0	5	0	0	0	0	0	0	0	0	0	0	0	0	5
Urban	11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	11
Total	30	65	15	206	242	5	58	279	117	308	206	571	8	87	0	0	0	0	2196



Report 2 – Treatment Summary

Gaylord Mgt. Unit

Year of Entry: 2020

Acres of Harvest

Compartment 104

Total Compartment Acres: 2,195

Commercial Harvest - 643
 Harvests with Site Condition - 0
 Next Step Harvest - 0
 Habitat Cut - 0

Cover Type by Harvest Method

	Clearcut	Selection	Patch Clearcut	Seed Tree	Shelterwood	Thinning	Overstory Removal	Salvage	Other	Total Acres
Aspen	84	0	0	0	0	0	0	0	0	84
Herbaceous Openland	3	0	0	0	0	0	0	0	0	3
Mixed Upland Deciduous	1	0	0	0	0	0	0	0	0	1
Northern Hardwood	12	252	0	0	0	0	0	0	0	264
Red Pine	142	0	0	0	0	149	0	0	0	292
Total	242	252	0	0	0	149	0	0	0	643

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	643	6	0	0	0	427	0	3		1079
Next Step	0	303	153	0	0	370	652	0	0	1478
Total	643	309	153	0	0	370	1080	0	3	2557



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	52104001- RP_Mark	26.3	42110 - Planted Red Pine	Sawtimber Well	61	141- 170	Harvest	Crown Thinning	4211 - Planted Red Pine	Even-Aged	Draft Field Boundary

Habitat Cut: No**Site Condition:**

Prescription Thin stand to 100 to 120 BA. Focus marking on poor quality and defective stems. Concentrate marking on larger stems when possible. Take
Specs: care to protect trails during harvest operations.

Next Step
Treatments:

Acceptable
Regen:

Other
Comment:

Proposed Start Date: 10/1 /2019

2	52104002- Monitor	53.5	4110 - Sugar Maple Association	Sawtimber Well	87	81-110	Monitoring	Natural Regen (Intermediate)	411 - Northern Hardwood	Uneven- Aged	Draft Field Boundary
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Habitat Cut: No**Site Condition:**

Prescription Continue to monitor regeneration to assure beech does not dominate and suppress more desirable regeneration.
Specs:

Next Step
Treatments:

Acceptable Minimum stocking of Northern Hardwoods with minimal beech regeneration.
Regen:

Other
Comment:

Proposed Start Date: 10/1 /2019

5	52104005- RP_CC	37.0	42110 - Planted Red Pine	Sawtimber Well	63	111- 140	Harvest	Clearcut	4211 - Planted Red Pine	Even-Aged	Draft Field Boundary
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Habitat Cut: No**Site Condition:**

Prescription Clearcut stand and plant to red pine. Interplant soft and hard mast. Protect snowmobile trail during harvest operations. Chipping recommended
Specs: to help reduce slash prior to reforestation.

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

Acceptable Well stocked stand of red pine.
Regen:

Other
Comment:

Proposed Start Date: 10/1 /2019

6	52104006- Monitor	197.0	4110 - Sugar Maple Association	Sawtimber Well	102	81-110	Monitoring	Natural Regen (Intermediate)	411 - Northern Hardwood	Uneven- Aged	Draft Field Boundary
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Habitat Cut: No**Site Condition:**

Prescription Continue to monitor regeneration to assure beech does not dominate and suppress more desirable regeneration.
Specs:

Next Step
Treatments:

Acceptable Minimum stocking of Northern Hardwoods not dominated by beech.
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
15	52104015- RP_Mark	18.5	42110 - Planted Red Pine	Sawtimber Well	61	141- 170	Harvest	Crown Thinning	4211 - Planted Red Pine	Even-Aged	Draft Field Boundary

Habitat Cut: No**Site Condition:**

Prescription Thin stand to 100 to 120 BA. Focus marking on removing defect and proper spacing of residual. Protect trail during harvest operations.

Specs:

Next Step
Treatments:

Acceptable
Regen:

Other
Comment:

Proposed Start Date: 10/1 /2019

20	52104020- Mark	38.9	4111 - S.Maple, Hard Mast Association	Sawtimber Well	91	111- 140	Harvest	Single Tree Selection	411 - Northern Hardwood	Even-Aged	Draft Field Boundary
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Habitat Cut: No**Site Condition:**

Prescription Reduce BA to 80 using single tree selection. Concentrate marking on stems with poor form or defect. Q curve for this stand shows an abundance of 14 to 18 DBH trees so marking should be focused on those as much as possible. Also release advanced regeneration where possible, taking care to avoid damage to regen during harvest operations. Take care to protect trails during harvest operations.

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

Acceptable Minimum stocking of Sugar Maple, Red Maple, Black Cherry and Basswood.
Regen:

Other
Comment:

Proposed Start Date: 10/1 /2019

23	52104023- Monitor	131.8	4110 - Sugar Maple Association	Sawtimber Well	86	81-110	Monitoring	Natural Regen (Intermediate)	411 - Northern Hardwood	Uneven- Aged	Draft Field Boundary
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Habitat Cut: No**Site Condition:**

Prescription Continue to monitor regeneration to assure beech does not dominate and suppress more desirable regeneration.

Specs:

Next Step
Treatments:

Acceptable Minimum stocking of Northern Hardwoods not dominated by beech.
Regen:

Other
Comment:

Proposed Start Date: 10/1 /2019

26	52104026- RP_Mark	38.8	42110 - Planted Red Pine	Sawtimber Well	50	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 to 100 to 120 BA. Focus marking on removing defect and proper spacing of residual. Take care to protect trails during harvest operations.

Specs:

Next Step
Treatments:

Acceptable
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
27	52104027-CC	20.3	4130 - Aspen	Poletimber Well	36	81-110	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	Draft Field Boundary

Habitat Cut: No**Site Condition:**

Prescription Cut all species to 2" DBH, use standard retention. Take care to protect trails during harvest operations.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Minimum stocking of aspen, cherry and maple.

Regen:OtherComment:

Proposed Start Date: 10/1 /2019

32	52104032-CC	34.2	4130 - Aspen	Poletimber Well	35	51-80	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	Draft Field Boundary
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Habitat Cut: No**Site Condition:**

Prescription Cut all species to 2" DBH, use standard retention. Take care to protect trails during harvest operations. Winter harvest only to minimize soil

Specs: disturbance.

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

Treatments:

Acceptable Minimum stocking of aspen, cherry, maple and balsam fir.

Regen:OtherComment:

Proposed Start Date: 10/1 /2019

32	52104032-CCx	29.7	4130 - Aspen	Poletimber Well	35	51-80	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	Draft Field Boundary
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Habitat Cut: No**Site Condition:**

Prescription Cut all species to 2" DBH, use standard retention. Winter harvest only to minimize soil disturbance.

Specs:

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

Treatments:

Acceptable Minimum stocking of aspen, cherry, maple and balsam fir.

Regen:OtherComment:

Proposed Start Date: 10/1 /2019

35	52104035- HWD_MARK	19.3	4110 - Sugar Maple Association	Sawtimber Well	100	111- 140	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven- Aged	Draft Field Boundary
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Habitat Cut: No**Site Condition:**

Prescription Thin stand to 80 BA as per

Specs: Compleat Marker. Create one 100' regen gap per 5 acres. Take care to protect trails during harvest operations.

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Minimum stocking of northern hardwoods.

Regen: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
38	52104038-CC	2.5	310 - Herbaceous Openland	Nonstocked		Unspecified	Harvest	Clearcut	4211 - Planted Red Pine	Even-Aged	Draft Field Boundary

Habitat Cut: No**Site Condition:**Prescription Cut all trees in the opening.Specs:Next Step Treatments: Pesticide, Aerial; SitePrep, Trenching; Planting, Initial Plant; Monitoring, Artificial Regen(1yr); Pesticide, Aerial; Monitoring, Artificial Regen(3yr)Acceptable Minimum stocking of Red Pine.Regen:OtherComment:Proposed Start Date: 10/1 /2019

41	52104041- RP_CC	39.9	42110 - Planted Red Pine	Sawtimber Well	63	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 Clearcut and plant to red pine. Interplant hard and/or soft mast.Specs:Next Step Treatments: Pesticide, Aerial; SitePrep, Roller Chopping; SitePrep, Trenching; Planting, Initial Plant; Monitoring, Artificial Regen(1yr); Pesticide, Aerial; Monitoring, Artificial Regen(3yr)Acceptable Minimum stocking of red pine.Regen:OtherComment:Proposed Start Date: 10/1 /2019

44	52104044- RP_Mark	32.0	42110 - Planted Red Pine	Sawtimber Well	63	141-170	Harvest	Crown Thinning	4211 - Planted Red Pine	Even-Aged	Draft Field Boundary
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Habitat Cut: No**Site Condition:**Prescription Reduce BA to 100 - 120. Concentrate marking on larger diameter, suppressed and poor quality stems.Specs:Next Step Treatments:AcceptableRegen:OtherComment:Proposed Start Date: 10/1 /2019

45	52104045- RP_Mark	17.3	42110 - Planted Red Pine	Sawtimber Well	53	171-200	Harvest	Crown Thinning	4211 - Planted Red Pine	Even-Aged	Draft Field Boundary
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Habitat Cut: No**Site Condition:**Prescription Thin stand to 100 to 120 BA. Focus marking on removing defect and proper spacing of residual.Specs:Next Step Treatments: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
46	52104046-CC	7.2	4112 - Maple, Beech, Cherry Association	Sawtimber Well	74	111-140	Harvest	Clearcut	4211 - Planted Red Pine	Even-Aged	Draft Field Boundary

Habitat Cut: No**Site Condition:**Prescription Clearcut and plant to red pine. Interplant hard and/or soft mast.Specs:Next Step Pesticide, Aerial; SitePrep, Roller Chopping; SitePrep, Trenching; Planting, Initial Plant; Monitoring, Artificial Regen(1yr); Pesticide, Treatments: Aerial; Monitoring, Artificial Regen(3yr)Acceptable Minimum stocking of red pine.Regen:OtherComment:Proposed Start Date: 10/1 /2019

49	52104049- RP_CC	29.1	42110 - Planted Red Pine	Sawtimber Well	62	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 Clearcut and plant to red pine. Interplant hard and/or soft mast.Specs:Next Step Pesticide, Aerial; SitePrep, Roller Chopping; SitePrep, Trenching; Planting, Initial Plant; Monitoring, Artificial Regen(1yr); Pesticide, Treatments: Aerial; Monitoring, Artificial Regen(3yr)Acceptable Minimum stocking of red pine.Regen:OtherComment:Proposed Start Date: 10/1 /2019

53	52104053- Mark	8.0	4110 - Sugar Maple Association	Sawtimber Well	117	111-140	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven-Aged	Draft Field Boundary
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Habitat Cut: No**Site Condition:**Prescription Mark to reduce BA to 80. Release advanced regen where applicable and create several 80' canopy gaps if possible.Specs:Next Step Monitoring, Natural Regen (Re-Inventory)Treatments:Acceptable Minimum stocking of northern hardwoods.Regen:OtherComment:Proposed Start Date: 10/1 /2019

54	52104054-CC	31.4	42110 - Planted Red Pine	Sawtimber Well	62	141-170	Harvest	Clearcut with Retention	4211 - Planted Red Pine	Even-Aged	Draft Field Boundary
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Habitat Cut: No**Site Condition:**Prescription Clearcut and plant to red pine. Interplant hard and/or soft mast.Specs:Next Step Pesticide, Aerial; SitePrep, Roller Chopping; SitePrep, Trenching; Planting, Initial Plant; Monitoring, Artificial Regen(1yr); Pesticide, Treatments: Aerial; Monitoring, Artificial Regen(3yr)Acceptable Minimum stocking of red pine.Regen: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
55	52104055- RP_CC	4.9	42110 - Planted Red Pine	Sawtimber Well	63	111- 140	Harvest	Clearcut	411 - Northern Hardwood	Even-Aged	Draft Field Boundary
Habitat Cut: No			Site Condition:								
<u>Prescription</u> Clearcut to 2" DBH. Mark a few larger red pine to leave.											
<u>Specs:</u>											
<u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)											
<u>Treatments:</u>											
<u>Acceptable</u> Minimum stocking of northern hardwoods.											
<u>Regen:</u>											
<u>Other</u>											
<u>Comment:</u>											
<u>Proposed Start Date:</u> 10/1 /2019											
57	52104057- Monitor	44.9	4110 - Sugar Maple Association	Sawtimber Well	82	81-110	Monitoring	Natural Regen (Intermediate)	411 - Northern Hardwood	Uneven- Aged	Draft Field Boundary
Habitat Cut: No			Site Condition:								
<u>Prescription</u> Continue to monitor regeneration to assure beech does not dominate and suppress more desirable regeneration.											
<u>Specs:</u>											
<u>Next Step</u>											
<u>Treatments:</u>											
<u>Acceptable</u> Minimum stocking of Northern Hardwoods not dominated by beech.											
<u>Regen:</u>											
<u>Other</u>											
<u>Comment:</u>											
<u>Proposed Start Date:</u> 10/1 /2019											
58	52104058- RGStrail	5.6	4130 - Aspen	Poletimber Well	25	51-80	SitePrep	Other - Specify	3105 - Mixed Upland Herbaceous		Draft Field Boundary
Habitat Cut: No			Site Condition:								
<u>Prescription</u> Cut a 6 foot wide swath through encroaching aspen/hardwood saps along old skid roads to create a hunter walking trail. Trail will also be											
<u>Specs:</u> reseeded with a mix of native grasses to provide a food/cover source for wildlife species.											
<u>Next Step</u> Monitoring, Artificial Regen(1yr)											
<u>Treatments:</u>											
<u>Acceptable</u> A mix of native grasses from natural and artificial seeding, eventually becoming forested from encroaching aspen/hardwood saps.											
<u>Regen:</u>											
<u>Other</u> Equipment and labor provided at no cost by local Ruffed Grouse Society chapter.											
<u>Comment:</u>											
<u>Proposed Start Date:</u> 4 /1 /2017											
60	52104060- HWD_MARK	185.7	4110 - Sugar Maple Association	Sawtimber Well	102	111- 140	Harvest	Single Tree Selection	411 - Northern Hardwood	Even-Aged	Draft Field Boundary
Habitat Cut: No			Site Condition:								
<u>Prescription</u> Thin stand to 80 BA following guidance in the Compleat Marker. Release advanced regeneration where applicable and create one 100' canopy											
<u>Specs:</u> gap per 4 to 5 acres. Take care to protect trails during harvest operations.											
<u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)											
<u>Treatments:</u>											
<u>Acceptable</u> Minimum stocking of northern hardwoods.											
<u>Regen:</u>											
<u>Other</u>											
<u>Comment:</u>											
<u>Proposed Start Date:</u> 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
62	52104062- RP_Mark	16.3	42110 - Planted Red Pine	Sawtimber Well	63	171- 200	Harvest	Crown Thinning	4211 - Planted Red Pine	Even-Aged	Draft Field Boundary

Habitat Cut: No**Site Condition:**

Prescription Mark to 100 to 120 BA. Concentrate marking on suppressed and poor quality stems. Protect trail during harvest operations.

Specs:

Next Step
Treatments:

Acceptable
Regen:

Other
Comment:

Proposed Start Date: 10/1 /2019

69	52104069-CC	4.4	4119 - Mixed Northern Hardwoods	Poletimber Well	103	111- 140	Harvest	Clearcut	4211 - Planted Red Pine	Even-Aged	Draft Field Boundary
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Habitat Cut: No**Site Condition:**

Prescription Clearcut and plant to red pine. Interplant soft and hard mast. Chipping recommended to help reduce slash prior to reforestation. Take care to

Specs: protect trails during harvest operations.

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

Acceptable Minimum stocking of red pine.
Regen:

Other
Comment:

Proposed Start Date: 10/1 /2019

71	52104071-CC	1.4	4199 - Other Mixed Upland Deciduous	Poletimber Well	55	81-110	Harvest	Clearcut	4211 - Planted Red Pine	Even-Aged	Draft Field Boundary
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Habitat Cut: No**Site Condition:**

Prescription Clearcut and plant to red pine. Chipping recommended to help reduce slash prior to reforestation. Interplant soft and hard mast. Take care to

Specs: protect trails during harvest operations.

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

Acceptable Minimum stocking of red pine.
Regen:

Other
Comment:

Proposed Start Date: 10/1 /2019

9	C152-009 Pruning	3.0	31021 - Cool Season Grass	Nonstocked	Unspec ified	NonForestMgt	Other - Specify	31021 - Cool Season Grass			Draft Field Boundary
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Habitat Cut: No**Site Condition:**

Prescription Prune apple trees.

Specs:

Next Step
Treatments:

Acceptable
Regen:

Other
Comment:

Proposed Start Date: 12/30/1899

**Total Treatment
Acreage Proposed: 1078.9**

Report 4 – Site Conditions

Gaylord Mgt. Unit
Shannon Harig : Examiner

Compartment: 104
Year of Entry: 2020

Availability for Management

Total Acres	Acres Available	Acres Avail		Dominant Site Conditions	Dominant Site Conditions		
		With Condition	Not Available		5C	2F	5E
528	527	0	1	Aspen			1
1	1	0	0	Bog			
20	20	0	0	Cedar			
9	9	0	0	Herbaceous Openland			
4	4	0	0	Low-Density Trees			
1	1	0	0	Mixed Upland Deciduous			
1289	1186	73	30	Northern Hardwood	73	30	
323	323	0	0	Red Pine			
5	5	0	0	Sand, Soil			
5	5	0	0	Upland Spruce/Fir			
11	11	0	0	Urban			
2,195	2,091	73	31	Total Forested Acres	73	30	1
	95%	3%	1%	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
Comments:							
2	Unavailable	2F: Too steep	10	2G: Too wet (sensitive soils, does not include access issues)	Unspecified	Unspecified	Unspecified
Comments:							
3	Unavailable	2F: Too steep	8	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Gaylord Mgt. Unit
Shannon Harig : Examiner

Compartment: 104
Year of Entry: 2020

4	Unavailable	2F: Too steep	12	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
5	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	17	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
6	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	38	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
7	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	18	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Harvest and plant to RP next entry (2030) with adjacent pine stand.							

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

Report 7 – Forested Stands

Compartment: 104
Year of Entry: 2020



Stand	Gaylord Mgt. Unit		Acres	Stand Age	BA Range	General Comments:
	Level 4 Cover Type	Size Density				
1	42110 - Planted Red Pine	Sawtimber Well	26.3	61	141-170	Pine looks good, some hardwood in the understory. BA = 170
2	4110 - Sugar Maple Association	Sawtimber Well	53.5	87	81-110	Series of N-S valley's. Moderately steep. Good quality stems. BA = 86
3	4119 - Mixed Northern Hardwoods	Sawtimber Well	26.9	81	141-170	Poor quality stems. BA = 143
4	4116 - Mixed N. Hardwood - Aspen	Poletimber Well	50.9	73	81-110	Low quality stems.
5	42110 - Planted Red Pine	Sawtimber Well	37.0	63	111-140	126 BA. Not many quality stems.
6	4110 - Sugar Maple Association	Sawtimber Well	197.0	102	81-110	Harvested completed in 2015. Some good maple regen as well ash in places. Monitor beech regen to assure it does not dominate.
8	42110 - Planted Red Pine	Sawtimber Well	13.7	60	111-140	Good quality. 127 BA
11	4130 - Aspen	Sapling Well	47.7	7	Immature	In April of 2016, RGS chapter from Harbor Springs planted a mix of shrubs consisting of serviceberry, elderberry, crabapple, black cherry, and gray dogwood, totaling about 100 shrubs, around the main log decking area. Very nice regeneration.
12	4112 - Maple, Beech, Cherry Association	Sawtimber Well	18.4	103	111-140	Some pole sized Striped Maple and Juneberry. Very few quality stems.
13	4110 - Sugar Maple Association	Sawtimber Well	64.2	94	51-80	Good quality stems. Some Red Maple, Yellow Birch and White Ash present. A lot of Black Cherry regen throughout the stand. Beech scale present throughout the stand. BA = 92
15	42110 - Planted Red Pine	Sawtimber Well	18.5	61	141-170	Looks good, rolling. Light understory of Beech. BA = 150
16	42110 - Planted Red Pine	Sawtimber Well	17.6	60	111-140	
17	4112 - Maple, Beech, Cherry Association	Sawtimber Well	26.7	75	81-110	Some open grown, poor form, multiple stem maple. BA is 110.
18	4112 - Maple, Beech, Cherry Association	Sawtimber Well	21.6	86	81-110	Good quality stems. Nice Black Cherry regen in some areas. BA = 98
19	4130 - Aspen	Poletimber Well	4.3	36	51-80	Well stocked.



Stand	Gaylord Mgt. Unit		Report 7 – Forested Stands			Compartment: 104 Year of Entry: 2020
	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
20	4111 - S.Maple, Hard Mast Association	Sawtimber Well	38.9	91	111-140	Harvested in 2002. A lot of nice advanced maple regen throughout the stand as well as some black cherry and beech regen. BA = 127
21	4130 - Aspen	Poletimber Well	4.3	37	51-80	Just moving into pole class.
22	4130 - Aspen	Poletimber Well	44.1	37	81-110	Some nice Black Cherry, keeping pace with aspen. A few American Elm in the stand.
23	4110 - Sugar Maple Association	Sawtimber Well	131.8	86	81-110	Most of stand has good quality stems. Small seep in SW corner of stand. BA = 94
25	4130 - Aspen	Sapling Well	11.2	7	Immature	Very nice regeneration.
26	42110 - Planted Red Pine	Sawtimber Well	39.4	50	141-170	Good quality.
27	4130 - Aspen	Poletimber Well	20.5	36	81-110	Looks good.
29	4112 - Maple, Beech, Cherry Association	Sawtimber Well	54.6	96	81-110	Good quality stems. Starting to see some regen in a few openings. BA = 86
30	4112 - Maple, Beech, Cherry Association	Sawtimber Well	12.6	87	81-110	
31	4130 - Aspen	Sapling Well	14.8	18	Immature	
32	4130 - Aspen	Poletimber Well	168.3	35	51-80	
34	42330 - Upland Fir	Poletimber Poor	4.9	45	Unspecified	This stand is part of an un-resolved trespass.
35	4110 - Sugar Maple Association	Sawtimber Well	19.3	100	111-140	Good looking stand. Larger diameter trees in the northern part of the stand.
36	4116 - Mixed N. Hardwood - Aspen	Sawtimber Well	17.6	95	81-110	A lot of large dead and dying maple and aspen. Many cavities in dead and dying trees. Some elm, black cherry and basswood present.
37	4116 - Mixed N. Hardwood - Aspen	Poletimber Poor	11.4	64	1-50	Scrubby cherry, a couple clones of aspen and some wolfy Sugar Maple.
39	4110 - Sugar Maple Association	Sawtimber Well	3.6	100	81-110	Good looking stand.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
40	4130 - Aspen	Poletimber Well	98.8	26	81-110	Great looking stand. Cherry is keeping up with the aspen.
41	42110 - Planted Red Pine	Sawtimber Well	39.9	63	111-140	Heavy hardwood understory. A lot of 14"+ stems.
42	4112 - Maple, Beech, Cherry Association	Sawtimber Well	28.2	120	81-110	Some nice crop trees. A lot of sugar maple in the understory. BA = 108
43	4112 - Maple, Beech, Cherry Association	Sawtimber Well	16.5	87	111-140	A lot of healthy hemlock (and a high water table) in the west part of the stand.
44	42110 - Planted Red Pine	Sawtimber Well	32.0	63	141-170	Nice looking pine. Will produce a nice crop of utility poles next entry. South part of stand is a little steep but operable. 163 BA
45	42110 - Planted Red Pine	Sawtimber Well	17.3	53	171-200	Nice looking stand.
46	4112 - Maple, Beech, Cherry Association	Sawtimber Well	14.7	74	111-140	North 1/2 of stand is steep and inoperable. Very few grade logs.
47	4110 - Sugar Maple Association	Sawtimber Well	24.9	79	81-110	
48	4130 - Aspen	Sapling Well	6.0	3	Immature	
49	42110 - Planted Red Pine	Sawtimber Well	29.1	62	111-140	Good quality stems, many 12" - 14" DBH.
50	6120 - Lowland Cedar	Sawtimber Well	19.8	96	111-140	Some mortality and windthrow. A few hemlock in the stand.
51	4130 - Aspen	Poletimber Well	101.2	25	51-80	Dense mixed aspen/hardwood regen from 1993 final harvest. Stand is in transition from saps to small poletimber. Good quality.
52	4110 - Sugar Maple Association	Sawtimber Well	38.0	103	111-140	Good quality stems. Great Sugar Maple regeneration in the east 1/2 of the stand. More beech regeneration to the west.
53	4110 - Sugar Maple Association	Sawtimber Well	8.0	117	111-140	A lot of the maple are of large diameter and poor form. Some decent maple regen in places.
54	42110 - Planted Red Pine	Sawtimber Well	31.4	62	141-170	Nice stand, a lot of 14"+ trees. BA = 153
55	42110 - Planted Red Pine	Sawtimber Well	4.9	63	111-140	Good quality. Mark during leaf off conditions. BA = 118
56	4116 - Mixed N. Hardwood - Aspen	Sawtimber Well	59.2	129	81-110	Most of this stand is steep, limited operability. Fair amount of den trees and snags (mostly large beech). Low quality stems through most of the stand. BA = 103



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
57	4110 - Sugar Maple Association	Sawtimber Well	44.9	82	81-110	Good quality stems through most of stand. Very little regen in canopy gaps.
58	4130 - Aspen	Poletimber Well	5.6	25	51-80	Proposed hunter walking trail sponsored by local Ruffed Grouse Society chapter.
59	4130 - Aspen	Sawtimber Well	1.4	60	111-140	
60	4110 - Sugar Maple Association	Sawtimber Well	186.8	102	111-140	Nice regeneration throughout the stand. A lot of the beech and ash still look healthy. Good quality stems throughout the stand. BA = 123
61	4110 - Sugar Maple Association	Sawtimber Well	47.2	102	81-110	Salvage harvest completed in 2016. Continue to monitor regeneration.
62	42110 - Planted Red Pine	Sawtimber Well	16.3	63	171-200	180 BA. Good quality stems.
63	4110 - Sugar Maple Association	Sawtimber Well	12.2	102	81-110	
64	4110 - Sugar Maple Association	Sawtimber Well	44.5	102	81-110	Heavy understory of maple and beech. Some White Ash regen. BA = 100
68	4110 - Sugar Maple Association	Sawtimber Well	10.4	94	51-80	Good quality stems. Some Red Maple, Yellow Birch and White Ash present. Poor operability due to valleys and seeps.
69	4119 - Mixed Northern Hardwoods	Poletimber Well	4.4	103	111-140	Some pole sized Striped Maple and Juneberry. Some nice stems though quality is not consistant throughout stand.
71	4199 - Other Mixed Upland Deciduous	Poletimber Well	1.4	55	81-110	Poor quality stems.



Stand	Cover Type	Acres	Managed Site	General Comments:
7	122 - Road/Parking Lot	4.2	No	Middle Village Road
9	31021 - Cool Season Grass	2.5	No	
10	310 - Herbaceous Openland	2.8	No	
14	310 - Herbaceous Openland	0.9	No	
24	710 - Sand, Soil	4.5	No	ORV Trailhead
28	122 - Road/Parking Lot	7.1	No	State Road
33	330 - Low-Density Trees	3.5	No	A bunch of hawthorn. Sparse, small cherry and white pine. A few aspen.
38	310 - Herbaceous Openland	2.5	No	
66	6225 - Bog	0.7	No	