



Compartment Review Presentation

Gaylord Forest Management Unit

Compartment 52112

Entry Year 2021

Acreage: 1,465

County Emmet

Management Area: Emmet Moraines

Revision Date: 2019-07-14

Stand Examiner: Donald Stacks

Legal Description:

T36N R05W Sections 19, 20, 29, 30, 31.

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:

Mostly Blue lakes sands on very hilly topography.

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

Many residences are located around Compartment 112, including a few active family owned farms. Boyne Highlands resort is located about one mile to the east of the compartment.

Unique Natural Features:

Red-shouldered hawk and English sundew.

Archeological, Historical, and Cultural Features:

None listed.

Special Management Designations or Considerations:

High levels of development in the area.

Watershed and Fisheries Considerations:

Wildlife Habitat Considerations:

This compartment has steep hills but good access for hunting off Welsheimer Rd. Treatments prescribed this year of entry include encouraging aspen clones which will benefit wildlife and assist in creating more diverse habitats.

Mineral Resource and Development Concerns and/or Restrictions

The nearest active sand/gravel pit is located more than two miles to the northwest. There is good sand & gravel potential in places within the compartment, but there is also abundant clay in this area. The compartment is many miles from the nearest current or past oil and gas production. There is no known oil and gas potential in the area, and there is no active mineral leasing in the vicinity. There is no known metallic mineral potential in this part of the state.

Vehicle Access:

Numerous county and forest trail roads provide access into and around the compartment.

Survey Needs:

None.

Recreational Facilities and Opportunities:

A designated snowmobile trail exists within the compartment boundary.

Fire Protection:

The Indian River Field Office is located about 23 miles to the east and the Harbor Springs VFD is located about five miles to the south of the compartment.

Additional Compartment Information:

The following reports from the Inventory are attached:

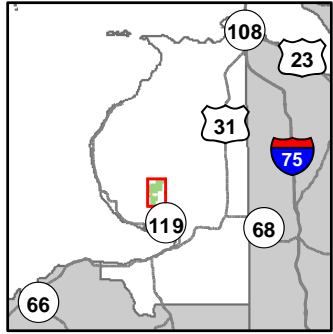
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

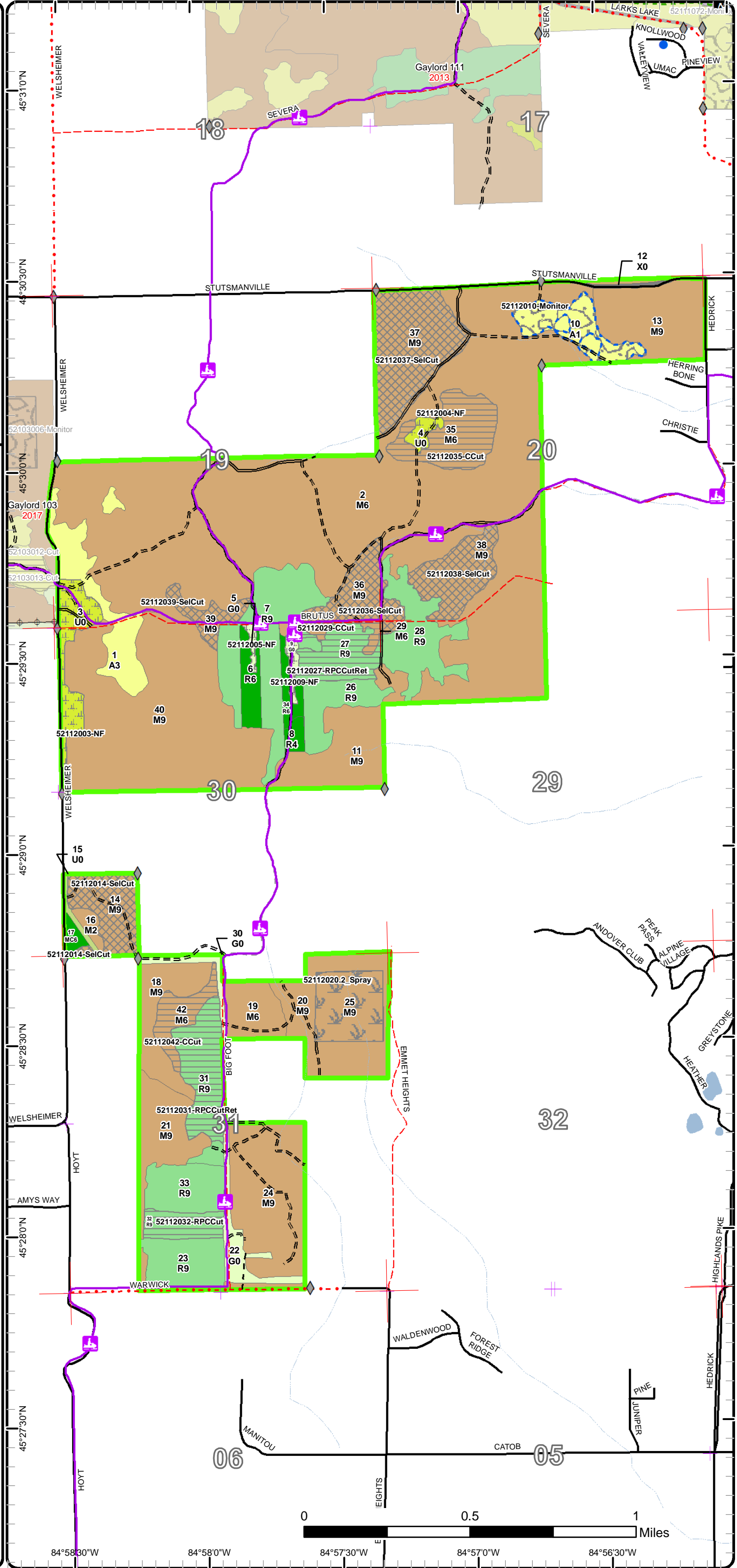
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

Cover Type & Treatments Map

Compartment: 112
 T36N, R05W, Sec. 19, 20, 29, 30, 31
 County: Emmet
 Unit: Gaylord
 Mgmt Area: Emmet Moraines
 YOE: 2021
 Acres: 1,465 GIS Calculated
 Examiner: Donald Stacks
 Map Revised: 10/8/2019
 Map Phase: Post-Review



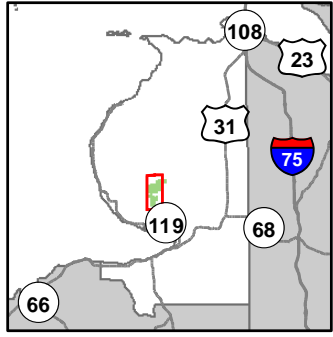
- Miris Corners
- Remonumented Section Corners
- Field Grade Corners
- Counties
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Federal / State / County - Paved Road
- Federal / State - Dirt / Gravel Road
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- Private - Dirt / Gravel Road
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- Designated Snowmobile Trails
- Intermittent Stream
- Lake/Pond
- Lakes and Rivers All
- Powerline
- Compartment Boundary
- Treatments with Site Conditions
- Pesticide
- Other Treatment - See Comments
- Selection (Group, Single Tree)
- Clearcut (w/Reserves)
- Regeneration Survey
- 411 - Northern Hardwood
- 413 - Aspen
- 421 - Planted Pines
- 422 - Natural Pines
- 122 - Roads/Parking Lot
- 310 - Herbaceous Openland
- 320 - Upland Shrub
- 330 - Low Density Trees
- Lakes



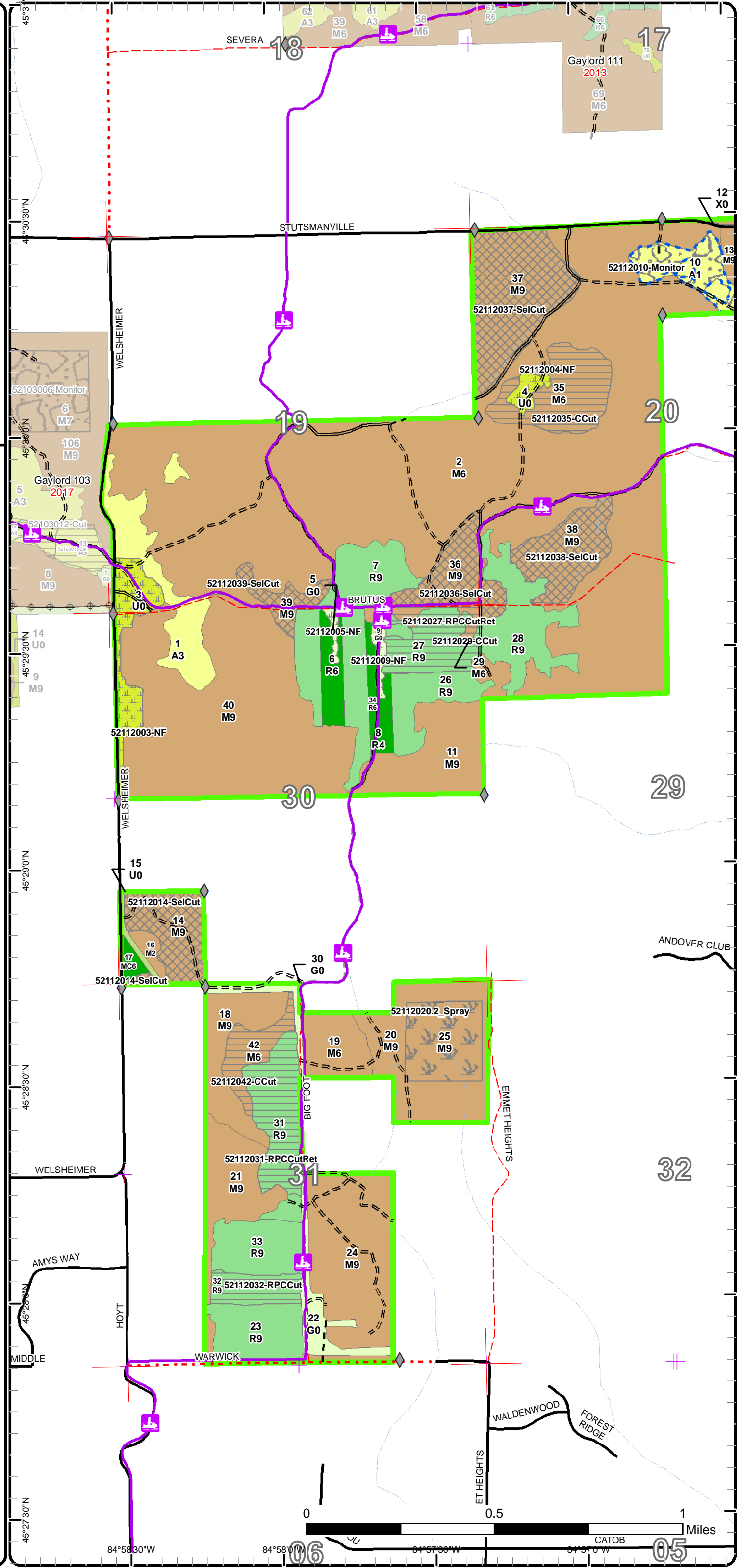
84°58'30"W 84°58'0"W 84°57'30"W 84°57'0"W 84°56'30"W

Cover Type & Treatments Map

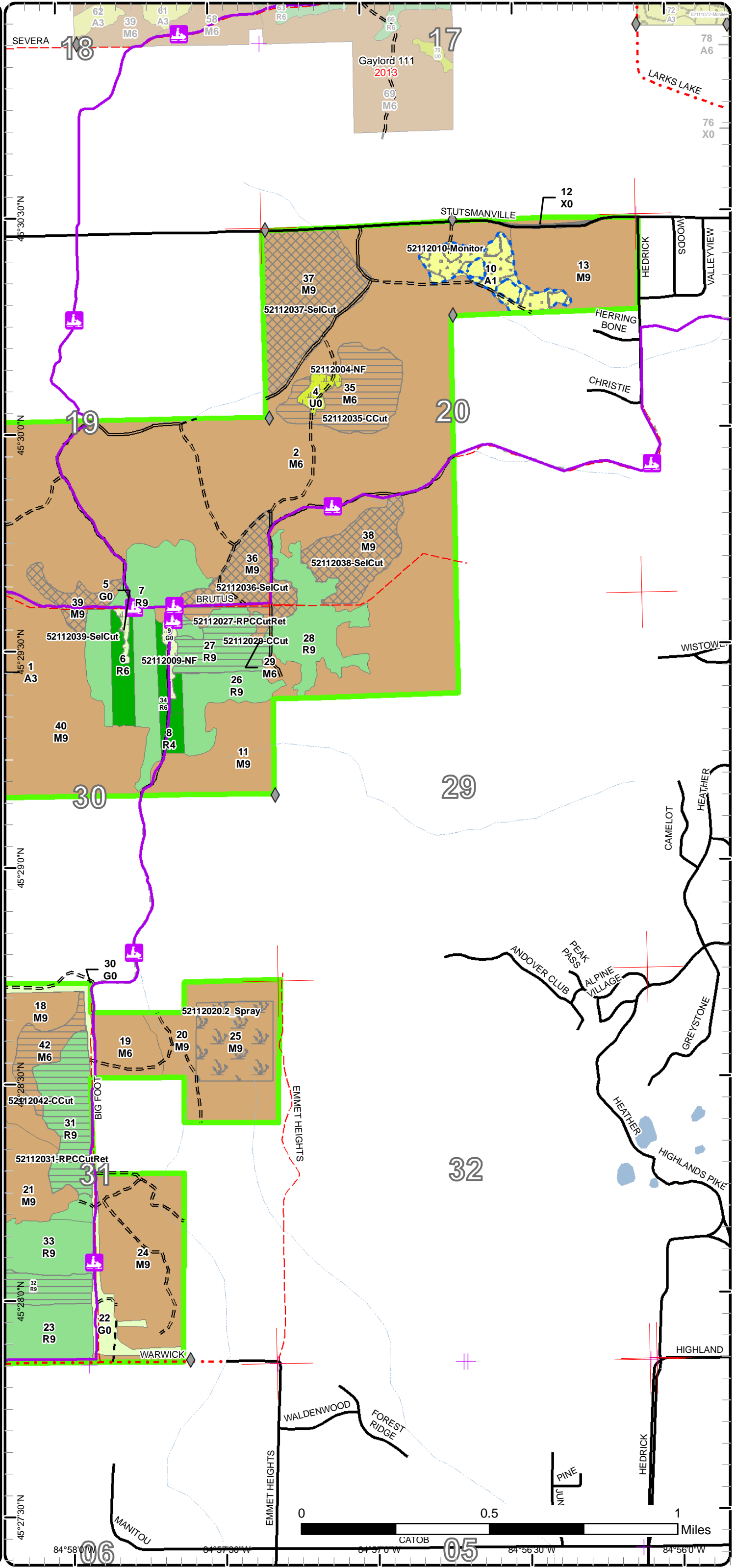
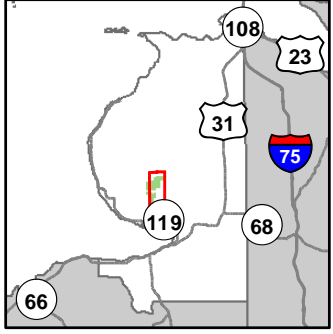
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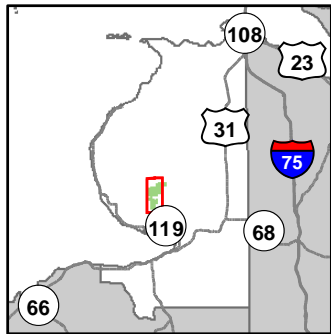
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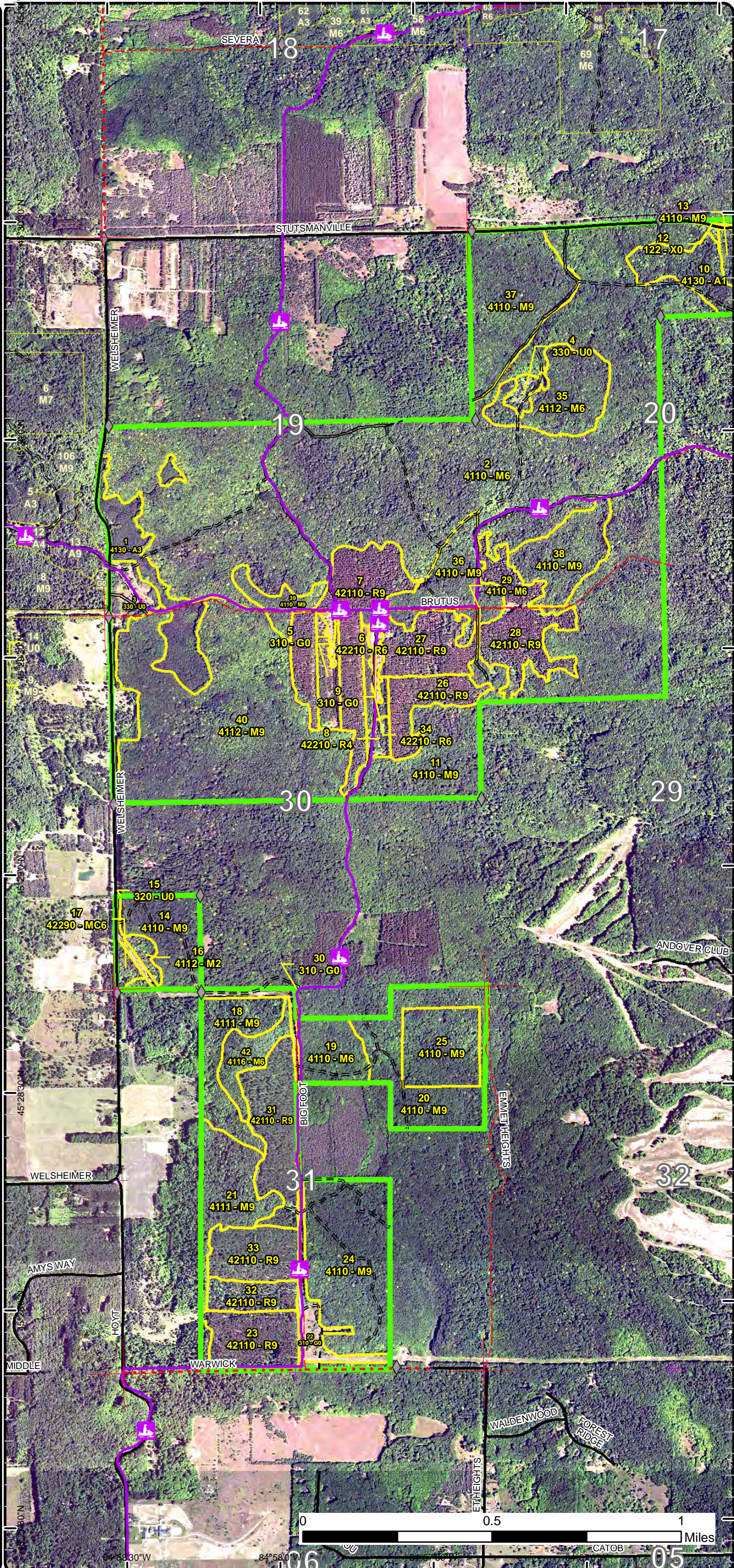
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Stand Boundary Map

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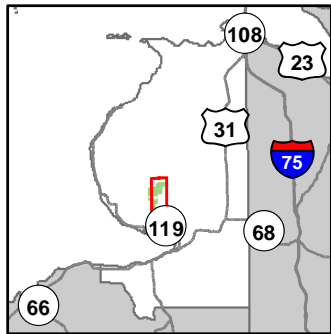


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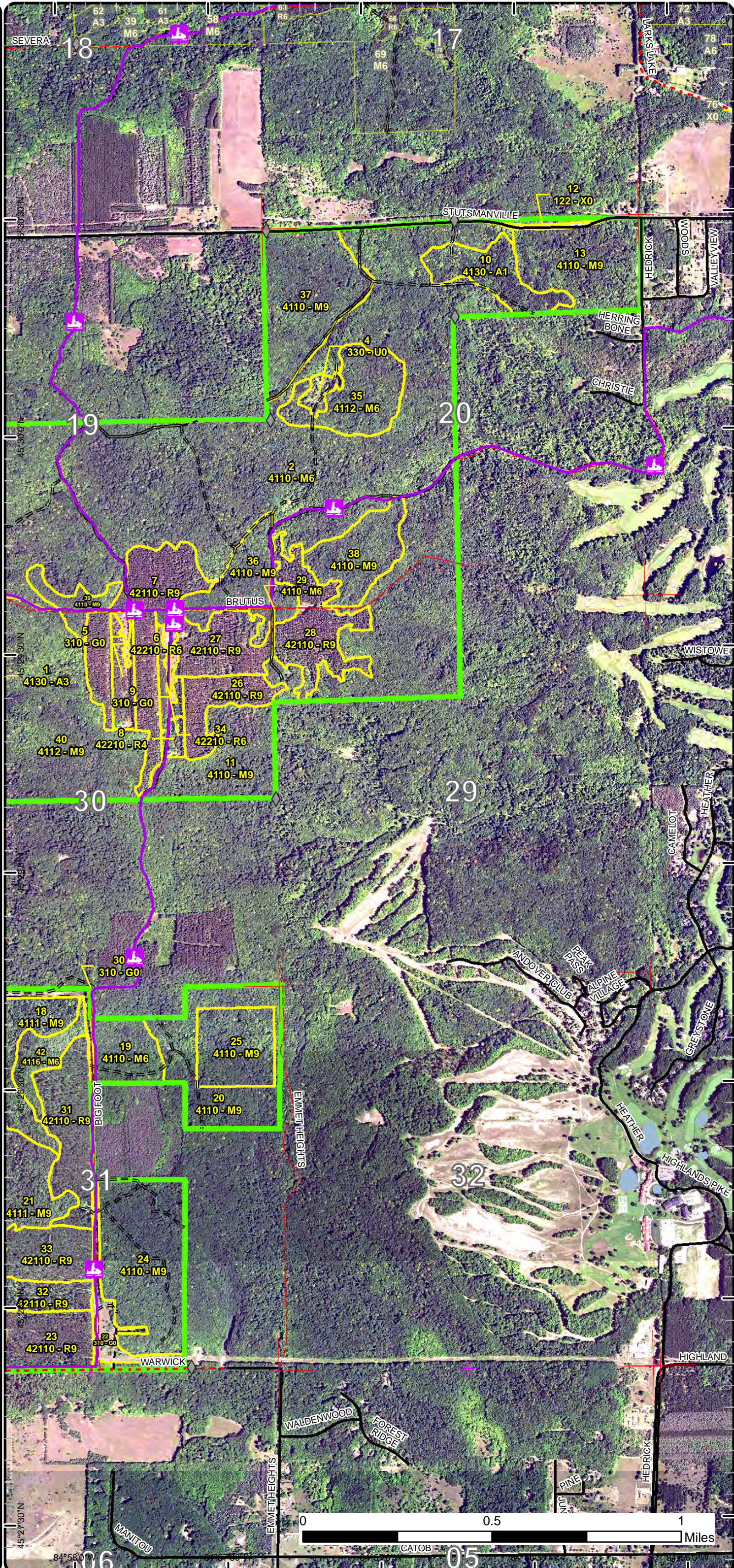


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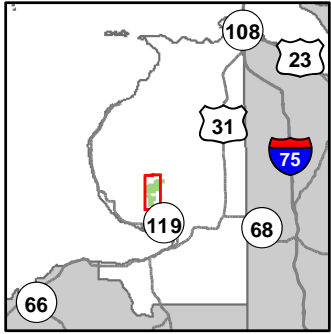


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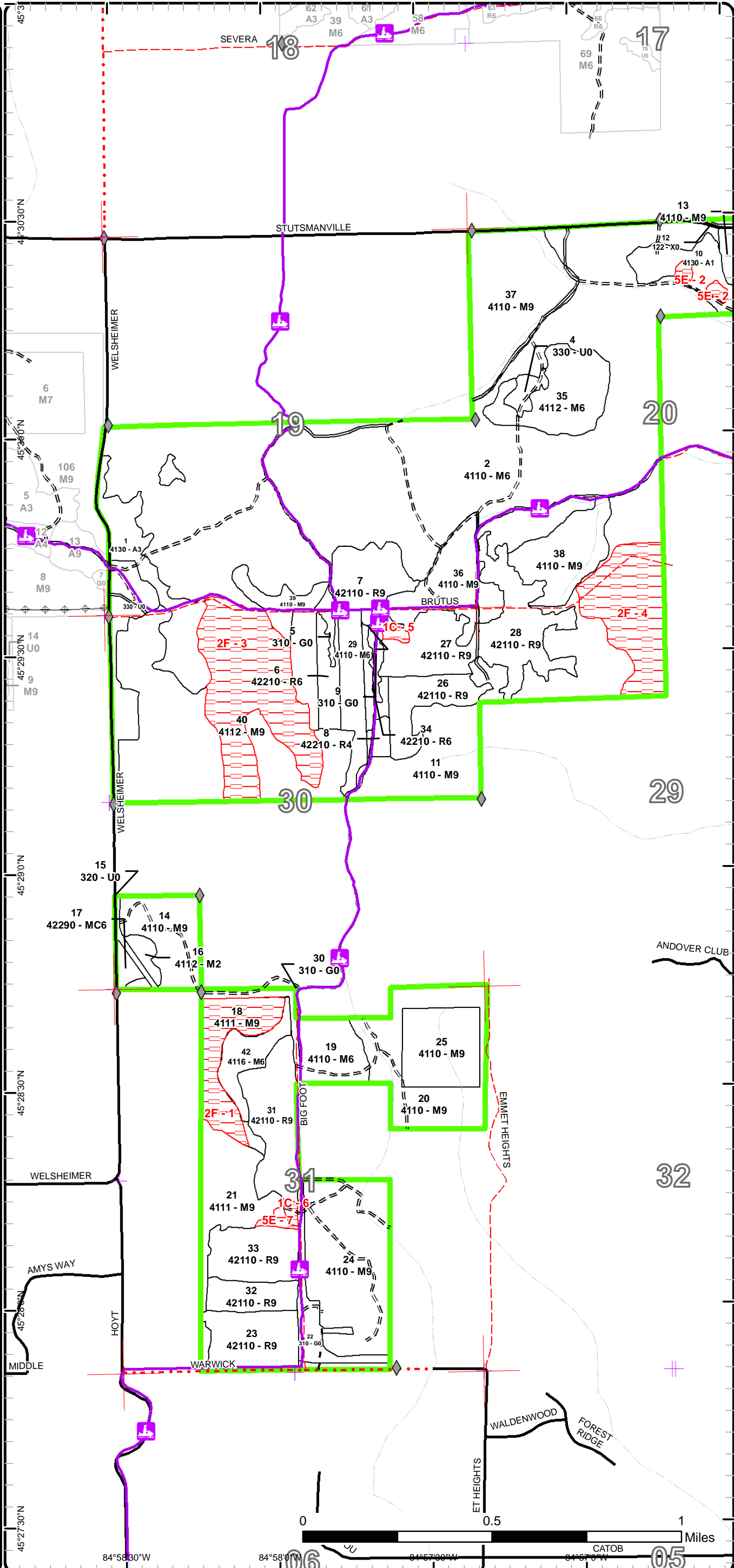


Special Conservation Areas & Site Conditions Map

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- Unavailable
- 1C: Other dept or div proc/practices
- 2F: Too steep
- 5E: Long-Term Retention
- Stand Boundaries



ANDOVER CLUB

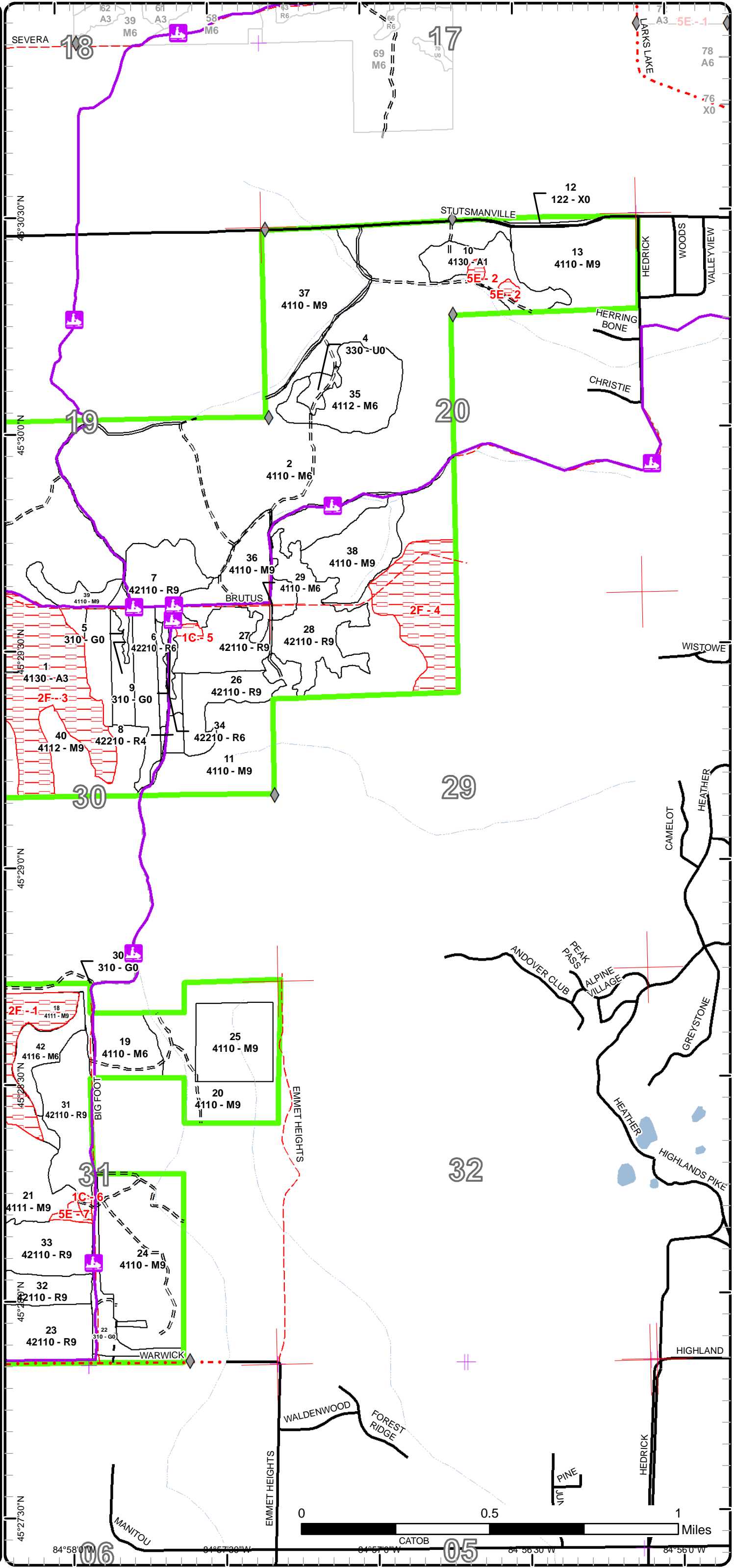
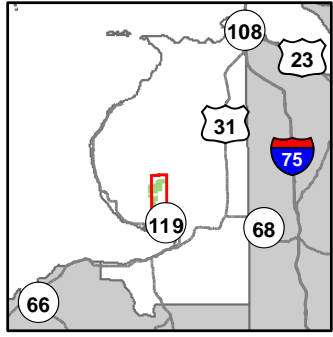
EMMET HEIGHTS

ET HEIGHTS

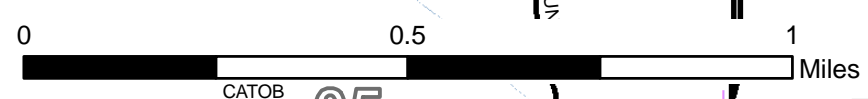
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Age Class

	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	23	0	32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	55
Herbaceous Openland	25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	25
Low-Density Trees	25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	25
Natural Mixed Pines	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	3
Northern Hardwood	0	0	0	0	4	0	0	0	0	88	882	86	0	0	0	0	0	60	1120
Red Pine	0	0	0	20	0	0	0	213	0	0	0	0	0	0	0	0	0	0	233
Upland Shrub	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
Urban	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
Total	55	23	0	52	4	3	0	213	0	88	882	86	0	0	0	0	0	60	1465



Report 2 – Treatment Summary

Gaylord Mgt. Unit

Year of Entry: 2021

Acres of Harvest

Compartment 112

Total Compartment Acres: 1,465

Commercial Harvest - 250
 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
Northern Hardwood	48	139	0	0	0	0	0	0	0	187
Red Pine	64	0	0	0	0	0	0	0	0	64
Total	112	139	0	0	0	0	0	0	0	250

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	250	0	0	0	0	28	19	0	31	328
Next Step	0	166	138	28	0	138	319	0	0	788
Total	250	166	138	28	0	166	339	0	31	1116



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
3	52112003-NF	20.6	330 - Low-Density Trees	Nonstocked		Unspec ified	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/or soft mast.

Specs:

Next Step

Treatments:

Acceptable

Regen:

Other

Comment:

Proposed Start Date: 10/1 /2020

4	52112004-NF	4.4	330 - Low-Density Trees	Nonstocked		Unspec ified	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/or soft mast.

Specs:

Next Step

Treatments:

Acceptable

Regen:

Other

Comment:

Proposed Start Date: 10/1 /2020

5	52112005-NF	1.8	310 - Herbaceous Openland	Nonstocked	0	Unspec ified	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/or soft mast.

Specs:

Next Step

Treatments:

Acceptable

Regen:

Other

Protect snowmobile trail from damage if treatment occurs.

Comment:

Proposed Start Date: 10/1 /2020

9	52112009-NF	3.7	310 - Herbaceous Openland	Nonstocked		Unspec ified	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/or soft mast.

Specs:

Next Step

Treatments:

Acceptable

Regen:

Other

Protect snowmobile trail from damage if treatment occurs.

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
2	52112010-Monitor	19.4	4110 - Sugar Maple Association	Poletimber Well	90	51-80	Monitoring	Natural Regen (Re-Inventory)	4139 - Aspen, Mixed Deciduous	Even-Aged	Field Boundary

Habitat Cut: No **Site Condition:** Too Steep

Prescription Monitor aspen/hardwood regen.

Specs:

Next Step

Treatments:

Acceptable A fully stocked mix of aspen and northern hardwood species.

Regen:

Other Cujo Aspen 52-135-11-01.

Comment:

Proposed Start Date: 10/1 /2028

14	52112014-SetCut	25.9	4110 - Sugar Maple Association	Sawtimber Well	95	111-140	Harvest	Single Tree Selection	411 - Northern Hardwood	Even-Aged	Draft Field Boundary
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Habitat Cut: No **Site Condition:**

Prescription Selection harvest is prescribed this YOE. Mark stand down to a post-harvest stocking density of 70 - 75 sq. ft. BA. Release desirable crop trees and create a 100 - 150' canopy gap every 4 - 6 acres. Harvest aspen clones as part of canopy gap areas. Cut all beech, white ash, and aspen unless marked with a band of green paint. No tree length skidding will be allowed. There will be no harvest activity during the barkslip season unless changed by written permission from the Gaylord Unit Supervisor. Protect den trees and raptor nests from harvest.

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable A mix of northern hardwood and aspen.

Regen:

Other Potential for legacy trees in the stand, protect if found.

Comment:

Proposed Start Date: 10/1 /2020

25	52112020.2_S pray	27.7	4110 - Sugar Maple Association	Sawtimber Well	98	51-80	Pesticide	ERROR	411 - Northern Hardwood	Uneven-Aged	Draft Field Boundary
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Habitat Cut: No **Site Condition:**

Prescription Herbicide per Hardwood Research Project specifications. MWR Gaylord Cluster 3, Unit 2. 52-104-17-01.

Specs:

Next Step Seeding, Hand Seed; SitePrep, Scarification

Treatments:

Acceptable A diverse mix of northern hardwood species.

Regen:

Other Percent to Treat = 6%

Comment:

Proposed Start Date: 10/1 /2019

27	52112027-RPCCutRet	22.1	42110 - Planted Red Pine	Sawtimber Well	64	81-110	Harvest	Clearcut with Retention	42110 - Planted Red Pine	Even-Aged	Draft Field Boundary
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Habitat Cut: No **Site Condition:**

Prescription Final harvest this YOE with a red pine MO. Cut all trees 2" and larger. One un-harvested retention area will be left in the NW portion of the stand where the site condition exists. Do not harvest timber or operate equipment within this area.. Non-winter harvest only because of the presence of the snowmobile trail. Add sale specs to protect trail during harvest operations. Use standard next step treatments for site prep, planting, and herbicide application, as well as any re-planting needs. Include hard and soft mast species as part of the replanting project.

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

Treatments: Planting, Replant; Pesticide, Skidder - Release; Monitoring, Artificial Regen(3yr)

Acceptable A fully stocked stand of planted red pine seedlings. Include scattered hard and soft mast species.

Regen:

Other

Comment:

Proposed Start Date: 10/1 /2020

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	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
29	52112029-CCut	5.1	4110 - Sugar Maple Association	Poletimber Well	100	81-110	Harvest	Clearcut	42110 - Planted Red Pine	Even-Aged	Draft Field Boundary

Habitat Cut: No**Site Condition:**

Prescription Final harvest this YOE with a red pine MO. Cut all trees 2" and larger. No un-harvested retention islands will be created because of the relatively small stand acreage and shading concerns. Non-winter harvest only because of the presence of the snowmobile trail. Add sale specs to protect trail during harvest operations. Use standard next step treatments for site prep, planting, and herbicide application, as well as any re-planting needs. Include planting scattered hard and soft mast species with the red pine seedlings.

Next Step SitePrep, Roller Chopping; SitePrep, Trenching; Pesticide, Skidder - Site Prep; Planting, Initial Plant; Monitoring, Artificial Regen(1yr);
Treatments: Planting, Replant; Pesticide, Skidder - Release; Monitoring, Artificial Regen(3yr)

Acceptable A fully stocked stand of planted red pine seedlings along with scattered hard and soft mast species.
Regen:

OtherComment:

Proposed Start Date: 10/1 /2020

31	52112031-RPCCutRet	29.4	42110 - Planted Red Pine	Sawtimber Well	66	81-110	Harvest	Clearcut with Retention	42110 - Planted Red Pine	Even-Aged	Draft Field Boundary
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Habitat Cut: No**Site Condition:**

Prescription Final harvest this YOE with a red pine MO. Cut all trees 2" and larger. Leave a one acre unharvested red pine retention island in the southern part of the sale area. Protect the non-stocked area shown on the map. No decking of cut products or equipment operation will be allowed in this area. Non-winter harvest only because of the presence of the snowmobile trail on Bigfoot Rd. Add sale specs to protect trail during harvest operations. Use standard next step treatments for site prep, planting, and herbicide application, as well as any re-planting needs. Include scattered hard and soft mast species with the replanting of the red pine seedlings.

Next Step SitePrep, Roller Chopping; SitePrep, Trenching; Pesticide, Skidder - Site Prep; Planting, Initial Plant; Monitoring, Artificial Regen(1yr);
Treatments: Planting, Replant; Pesticide, Skidder - Release; Monitoring, Artificial Regen(3yr)

Acceptable Fully stocked, hand-planted red pine seedlings. Include scattered hard and soft mast species with the replanting of the red pine seedlings.
Regen:

OtherComment:

Proposed Start Date: 10/1 /2020

32	52112032-RPCCut	12.3	42110 - Planted Red Pine	Sawtimber Well	66	81-110	Harvest	Clearcut	42110 - Planted Red Pine	Even-Aged	Draft Field Boundary
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Habitat Cut: No**Site Condition:**

Prescription Final harvest this YOE with a red pine MO. Cut all trees 2" and larger. No un-harvested red pine retention islands will be created because of the relatively small stand acreage and shading concerns. Non-winter harvest only because of the presence of the snowmobile trail on Bigfoot Rd. Add sale specs to protect trail during harvest operations. Use standard next step treatments for site prep, planting, and herbicide application, as well as any re-planting needs. Include scattered hard and soft mast species with the replanting of the red pine seedlings.

Next Step SitePrep, Roller Chopping; SitePrep, Trenching; Pesticide, Skidder - Site Prep; Planting, Initial Plant; Monitoring, Artificial Regen(1yr);
Treatments: Pesticide, Skidder - Release; Planting, Replant; Monitoring, Artificial Regen(3yr)

Acceptable Fully stocked planted red pine seedlings, including scattered hard and soft mast species.
Regen:

OtherComment:

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
35	52112035- CCut	29.9	4112 - Maple, Beech, Cherry Association	Poletimber Well	80	81-110	Harvest	Clearcut	4116 - Mixed N. Hardwood - Aspen	Even-Aged	Draft Field Boundary

Habitat Cut: No**Site Condition:**

Prescription Cut all trees 2" or larger at DBH, except any incidental oak, hemlock, or white pine. No unharvested retention islands will be left on this sale because of the relatively small acreage being harvested. Protect any raptor nests or obvious den trees found within the sale area. Mark 6 - 12 trees to be felled and left intact to serve as grouse drumming logs. Use standard trail protection specs to protect snowmobile trail from damage and to perform road maintenance during harvest activity. No trucks or harvest equipment may use the designated snowmobile trail to access this sale between December 1 and April 1.

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

Acceptable A fully stocked stand of mixed northern hardwood/aspen.
Regen:

Other
Comment:

Proposed Start Date: 10/1 /2020

36	52112036- SelCut	23.7	4110 - Sugar Maple Association	Sawtimber Well	100	111- 140	Harvest	Single Tree Selection	411 - Northern Hardwood	Even-Aged	Draft Field Boundary
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Habitat Cut: No**Site Condition:**

Prescription Selection harvest is prescribed this YOE. Mark stand down to a post-harvest stocking density of 70 - 75 sq. ft. BA. Release desirable crop trees and create a 100 - 150' canopy gap every 4 - 6 acres. Harvest aspen clones as part of canopy gap areas. Cut all beech and white ash, unless marked with a band of green paint. No tree length skidding will be allowed. No harvest activity from December 1 to April 1 because of the presence of a designated snowmobile trail, which will be the primary access road for trucks and equipment. Trail must be maintained in reasonable condition during harvest activity and be suitable for grooming by December 1. Do not damage or remove trail signs or markers. All stumps within 10' of the trail must be cut flush with the ground. There will also be no harvest activity during the barkslip season unless changed by written permission from the Gaylord Unit Supervisor. Protect den trees and raptor nests from harvest.

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

Acceptable A mix of northern hardwood without excessive beech regen occurring.
Regen:

Other
Comment:

Proposed Start Date: 10/1 /2020

37	52112037- SelCut	52.3	4110 - Sugar Maple Association	Sawtimber Well	100	81-110	Harvest	Single Tree Selection	411 - Northern Hardwood	Even-Aged	Draft Field Boundary
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Habitat Cut: No**Site Condition:**

Prescription Selection harvest is prescribed this YOE. Mark stand down to a post-harvest stocking density of 70 - 75 sq. ft. BA. Release desirable crop trees and create a 100 - 150' canopy gap every 4 - 6 acres. Harvest aspen clones as part of canopy gap areas. Cut all beech and white ash, unless marked with a band of green paint. No tree length skidding will be allowed. There will be no harvest activity during the barkslip season unless changed by written permission from the Gaylord Unit Supervisor. Protect den trees and raptor nests from harvest.

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

Acceptable A mix of northern hardwood species, without excessive beech regen is preferred.
Regen:

Other
Comment:

Proposed Start Date: 10/1 /2020

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	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
38	52112038-SelCut	26.5	4110 - Sugar Maple Association	Sawtimber Well	100	81-110	Harvest	Single Tree Selection	411 - Northern Hardwood	Even-Aged	Draft Field Boundary

Habitat Cut: No**Site Condition:**

Prescription Selection harvest is prescribed this YOE. Mark stand down to a post-harvest stocking density of 70 - 75 sq. ft. BA. Release desirable crop trees and create a 100 - 150' canopy gap every 4 - 6 acres. Harvest aspen clones as part of canopy gap areas. Cut all beech and white ash, unless marked with a band of green paint. No tree length skidding will be allowed. No harvest activity from December 1 to April 1 because of the presence of a designated snowmobile trail, which will be the primary access road for trucks and equipment. Trail must be maintained in reasonable condition during harvest activity and be suitable for grooming by December 1. Do not damage or remove trail signs or markers. All stumps within 10' of the trail must be cut flush with the ground. There will also be no harvest activity during the barkslip season unless changed by written permission from the Gaylord Unit Supervisor. Protect den trees and raptor nests from harvest.

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

Acceptable A mix of northern hardwood without excessive ash or beech regen.
Regen:

Other
Comment:

Proposed Start Date: 10/1 /2020

39	52112039-SelCut	10.1	4110 - Sugar Maple Association	Sawtimber Well	100	111-140	Harvest	Single Tree Selection	411 - Northern Hardwood	Even-Aged	Draft Field Boundary
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Habitat Cut: No**Site Condition:**

Prescription Selection harvest is prescribed this YOE. Mark stand down to a post-harvest stocking density of 70 - 75 sq. ft. BA. Release desirable crop trees and create a 100 - 150' canopy gap every 4 - 6 acres. Harvest aspen clones as part of canopy gap areas. Cut all beech and white ash, unless marked with a band of green paint. No tree length skidding will be allowed. No harvest activity from December 1 to April 1 because of the presence of a designated snowmobile trail, which will be the primary access road for trucks and equipment. Trail must be maintained in reasonable condition during harvest activity and be suitable for grooming by December 1. Do not damage or remove trail signs or markers. All stumps within 10' of the trail must be cut flush with the ground. There will also be no harvest activity during the barkslip season unless changed by written permission from the Gaylord Unit Supervisor. Protect den trees and raptor nests from harvest.

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

Acceptable A mix of northern hardwood without excessive ash and beech regen.
Regen:

Other
Comment:

Proposed Start Date: 10/1 /2020

42	52112042-CCut	13.1	4116 - Mixed N. Hardwood - Aspen	Poletimber Well	80	81-110	Harvest	Clearcut	4116 - Mixed N. Hardwood - Aspen	Even-Aged	Draft Field Boundary
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Habitat Cut: No**Site Condition:**

Prescription Cut all trees 2" or larger at DBH, except any incidental oak, hemlock, or white pine. No unharvested retention islands will be left on this sale because of the relatively small acreage being harvested. Protect any raptor nests or obvious den trees found within the sale area. Mark 3 - 5 trees to be felled and left intact to serve as grouse drumming logs. Use standard trail protection specs to protect snowmobile trail from damage and to perform road maintenance during harvest activity. No harvest activity will occur between December 1 and April 1 because of the designated snowmobile trail that is adjacent to the sale and is the only access road.

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

Acceptable A mix of northern hardwood and aspen.
Regen:

Other
Comment:

Proposed Start Date: 10/1 /2020

**Total Treatment
Acreage Proposed: 328.0**

Report 4 – Site Conditions

Gaylord Mgt. Unit
Donald Stacks : Examiner

Compartment: 112
Year of Entry: 2021

Availability for Management

Total Acres	Acres Available	Acres Avail		Dominant Site Conditions	Dominant Site Conditions		
		With Condition	Not Available		1C	2F	5E
55	52	0	2	Aspen			2
25	25	0	0	Herbaceous Openland			
25	25	0	0	Low-Density Trees			
3	3	0	0	Natural Mixed Pines			
1120	991	0	129	Northern Hardwood		129	
232	227	0	5	Red Pine	3		2
2	2	0	0	Upland Shrub			
2	2	0	0	Urban			
1,465	1,329		136	Total Forested Acres	3	129	4
	91%		9%	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	2F: Too steep	24	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
2	Unavailable	5E: Long-Term Retention	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
3	Unavailable	2F: Too steep	64	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
4	Unavailable	2F: Too steep	40	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Gaylord Mgt. Unit
Donald Stacks : Examiner

Compartment: 112
Year of Entry: 2021

5	Unavailable	1C: Other dept or div proc/practices	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
6	Unavailable	1C: Other dept or div proc/practices	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
7	Unavailable	5E: Long-Term Retention	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

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
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
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																	
1	4130 - Aspen	Sapling Well	32.1	28	Immature	N/A	High density aspen regen from 1991 harvest. Saplings in transition to young poletimber. Dense mixed hardwood understory. Possible final harvest in 20-30 years. Continue to manage for aspen.																																	
<table border="1"> <thead> <tr> <th>Canopy Species</th> <th>% Cover</th> <th>Size Class</th> <th>DBH</th> <th>Age</th> </tr> </thead> <tbody> <tr> <td>Bigtooth Aspen</td> <td>95</td> <td>Sapling/Pole</td> <td>4</td> <td>28</td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age		Bigtooth Aspen	95	Sapling/Pole	4	28	<table border="1"> <thead> <tr> <th>Canopy Species</th> <th>Density</th> <th>Avg. Height</th> <th>Size</th> </tr> </thead> <tbody> <tr> <td>Sugar Maple</td> <td>High</td> <td>10 - 20 feet</td> <td>Sapling</td> </tr> <tr> <td>Red Maple</td> <td>Medium</td> <td>10 - 20 feet</td> <td>Sapling</td> </tr> <tr> <td>Beech</td> <td>Medium</td> <td>10 - 20 feet</td> <td>Sapling</td> </tr> </tbody> </table>		Canopy Species	Density	Avg. Height	Size	Sugar Maple	High	10 - 20 feet	Sapling	Red Maple	Medium	10 - 20 feet	Sapling	Beech	Medium	10 - 20 feet	Sapling										
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2	4110 - Sugar Maple Association	Poletimber Well	487.3	90	51-80	N/A	Large stand of mixed northern hardwood, mostly sugar maple poletimber, with lesser amounts of basswood, beech, and red maple present. A fair amount of white ash sawtimber is present but almost entirely dead. Beech are in various stages of decline, as well as showing significant amounts of mortality from BBD. Smaller diameters and lower B.A.'s at present time. Ave. BA is about 75 sq. ft. presently. Terrain is very steep and hilly. Possible treatments of 40 - 60 acres may occur within this stand over scattered areas within the next 30 years. Designated snowmobile trails run through stand.																																	
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3	330 - Low-Density Trees	Nonstocked	20.6		Unspecified	No	Mixed scattered shrubs and mixed hardwood seedlings, as well as a few scotch pine, red pine, and white pine along Welsheimer Rd.																																	
4	330 - Low-Density Trees	Nonstocked	4.4		Unspecified	No																																		
5	310 - Herbaceous Openland	Nonstocked	1.8	0	Unspecified	No	Small grass opening surrounded by encroaching volunteer red pine.																																	
6	42210 - Natural Red Pine	Poletimber Well	9.9	20	1-50	N/A	Red pine poletimber/saps volunteers from adjacent red pine plantation. About 40 sq. ft. of one stick poletimber is present. Not great form. Harvest this stand with the adjacent red pine stands in about 20 years. Return stand to a managed grass opening after the harvest.																																	
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7	42110 - Planted Red Pine	Sawtimber Well	48.9	64	81-110	N/A	High quality red pine plantation. Log/pole size class, last thinned in 2012, which was the third thinning the stand has received. Current average B.A. is 100 sq. ft. Another marked thinning may be prescribed in 10 years, with a final harvest occurring in 20 years.																																	
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8	42210 - Natural Red Pine	Poletimber Poor	3.6	20	1-50	N/A	Lesser stocked red pine poletimber/saps volunteers from adjacent red pine stand. Snowmobile trail runs through stand. Final harvest this stand with adjacent red pine stands in about 20 years. Restore this stand as managed grass opening after harvest.																																	
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9	310 - Herbaceous Openland	Nonstocked	3.7		Unspecified	No	Grass stand with encroaching red pine seedlings/saps from adjacent red pine stand. Snowmobile trail runs through stand. A few apple trees are present.																																	
10	4130 - Aspen	Sapling Poor	22.6	3	Immature	N/A	Young, sparse mix of aspen/northern hardwood regen from 2016-2017 final harvest. Located mostly on steep, south-facing slope.																																	
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																											
11	4110 - Sugar Maple Association	Sawtimber Well	37.6	90	51-80	N/A	Mixed high quality northern hardwood, mostly sugar maple sawtimber, located on hilly terrain with numerous steep slopes present. Thinned in 2002. Lower B.A. present, about 70 sq. ft. BA. Dense, young hardwood regen, mostly beech with lesser amount of sugar maple, in understory. All white ash appears to be dead. Beech scale throughout stand. A fair amount of beech is also dead. Possible selection harvest 30 years.																											
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Beech	Full	5 - 10 feet	Sapling																															
12	122 - Road/Parking Lot	Nonstocked	2.3		Unspecified	No	Stutsmanville Rd.																											
13	4110 - Sugar Maple Association	Sawtimber Well	45.8	95	81-110	N/A	Nice stand of northern hardwood, mostly sugar maple sawtimber, located on very hilly terrain. Some larger diameters present. Stand was thinned in 2002. Current BA is about 98 sq. ft. Almost all white ash is dead. Beech scale present also. Possible selection harvest again in 10 to 20 years.																											
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14	4110 - Sugar Maple Association	Sawtimber Well	25.9	95	111-140	N/A	Mixed northern hardwood but almost entirely high quality sugar maple sawtimber located on relatively flat ground adjacent to Welsheimer Rd. Current average BA is about 123 sq. ft. Prescribe selection harvest this YOY. Private residences to the north and east.																											
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Beech	Full	10 - 20 feet	Sapling																															
15	320 - Upland Shrub	Nonstocked	2.5		Unspecified	No	Mixed upland shrubs and encroaching saplings along powerline R.O.W.																											
16	4112 - Maple, Beech, Cherry Association	Sapling Medium	3.7	30	Immature	N/A	Stand consists of mostly red maple and sugar maple saplings and small poletimber encroaching into juniper brush stand adjacent to powerline R.O.W.																											
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17	42290 - Natural Mixed Pine	Poletimber Well	3.4	40	51-80	N/A	A couple rows of planted scotch pine along county road. Scotch pine saplings have seeded in over the last 10-20 years. A little sugar maple poletimber and saps also present. Small acreage, small volume.																											
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18	4111 - S.Maple, Hard Mast Association	Sawtimber Well	26.0	80	81-110	N/A	Mix of northern hardwood sawtimber located on very high, steep slopes, which would be very hard for equipment to operate on. Current BA is about 87 sq. ft. Too steep site condition applied. Multiple seeps are evident. Better quality and higher stocking levels in the north half of the stand. More beech and lower stocking levels in the south half. Adjacent to private ownership on the north and west.																											
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19	4110 - Sugar Maple Association	Poletimber Well	18.7	80	51-80	N/A	Stand consists of mostly sugar maple and beech poletimber, with lesser amounts of sawlogs. A few basswood, yellow birch poles are also present, as well as one small red oak saw log tree. The B.A. is lower at present, averaging 77 sq. ft., with areas of dense sapling growth. No treatment will be needed for about 20 - 30 years.																											
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments			
20	4110 - Sugar Maple Association	Sawtimber Well	41.8	98	81-110	N/A	Stand consists of mostly high quality sugar maple sawtimber with sparse, scattered beech and basswood. Stand was last thinned in 2002. Present BA is about 93 sq. ft. Larger diameters and better quality trees are found in the valleys and lower side slopes, with smaller diameters found on ridgetops. Heavy young hardwood regen, mostly beech, in understory throughout stand. Areas of steep topography present, but operable. A MWR cut is in the center of this stand. Possible selection cut in 20 years.			
Canopy Species		% Cover	Size Class	DBH	Age	Canopy Species		Density	Avg. Height	Size
Sugar Maple		98	Log/XLog/Pole	13	98	Sugar Maple		Medium	Variable	Sapling
						Beech		Full	Variable	Sapling
21	4111 - S.Maple, Hard Mast Association	Sawtimber Well	30.1	90	81-110	N/A	Stand consists of mostly high quality sugar maple sawtimber located on rolling hills. Slightly lower B.A. at present from 2002 thinning. Average BA is about 107 sq. ft. presently. Many high quality sugar maple crop trees present. Possible selection harvest in 10 - 20 years. Most of the beech and ash is dead.			
Canopy Species		% Cover	Size Class	DBH	Age	Canopy Species		Density	Avg. Height	Size
Sugar Maple		97	Log/XLog/Pole	12	90	Sugar Maple		Medium	5 - 10 feet	Sapling
						Beech		Full	5 - 10 feet	Sapling
22	310 - Herbaceous Openland	Nonstocked	13.2		Unspecified	No	Mostly grass with sparse, scattered mixed upland shrubs (sumac, juniper, m-seedlings, etc.) along powerline R.O.W. Police radio tower present within stand.			
23	42110 - Planted Red Pine	Sawtimber Well	23.7	66	81-110	N/A	Red pine plantation consisting of a mix of sawtimber and poletimber. Stand was last thinned, for a third time, in 2012. Stand needs to put on more diameter growth before a final harvest is prescribed. Present BA (approx. 100 sq. ft.) does not justify a marked thinning this YOE.			
Canopy Species		% Cover	Size Class	DBH	Age	Canopy Species		Density	Avg. Height	Size
Red Pine		100	Log/Pole	11	66	Sugar Maple		Medium	5 - 10 feet	Sapling
						Beech		Medium	5 - 10 feet	Sapling
24	4110 - Sugar Maple Association	Sawtimber Well	64.6	95	81-110	N/A	Stand consists of mostly very high quality sugar maple sawtimber with scattered beech, basswood, and red maple sawtimber on mostly flat topography. Present BA is about 100 sq. ft. presently. Last thinning occurred in 2002. Selection harvest recommended next YOE.			
Canopy Species		% Cover	Size Class	DBH	Age	Canopy Species		Density	Avg. Height	Size
Sugar Maple		89	Log/XLog/Pole	14	95	Sugar Maple		Medium	Variable	Sapling
						Beech		Full	Variable	Sapling
25	4110 - Sugar Maple Association	Sawtimber Well	27.4	98	51-80	N/A	Mix of sugar maple, beech, and basswood sawlogs and pulpwood. Good quality. Stand was thinned in 2002. Larger diameters and better quality trees are found in the valleys and lower side slopes, with smaller diameters found on ridgetops. Heavy young hardwood regen in understory throughout stand. Harvested in 2017/2018 as part of MWR project. Present post-harvest BA is 78 Sq. Ft.			
Canopy Species		% Cover	Size Class	DBH	Age	Canopy Species		Density	Avg. Height	Size
Sugar Maple		65	Log/Pole	11	98	Sugar Maple		High	5 - 10 feet	Sapling
Basswood		15	Pole/Log	10		Beech		Full	5 - 10 feet	Sapling
Beech		20	Log/Pole	11						
26	42110 - Planted Red Pine	Sawtimber Well	18.1	64	81-110	N/A	High quality red pine plantation. Log/pole size class, last thinned in 2012, which was the third thinning the stand has received. Current average B.A. is about 95 sq. ft. Another marked thinning may be prescribed in 10 years, with a final harvest possibly occurring in 20 years.			
Canopy Species		% Cover	Size Class	DBH	Age	Canopy Species		Density	Avg. Height	Size
Red Pine		100	Log/Pole	11	64	Sugar Maple		Medium	5 - 10 feet	Sapling
						Beech		Medium	5 - 10 feet	Sapling
27	42110 - Planted Red Pine	Sawtimber Well	23.7	64	81-110	N/A	Red pine plantation, mostly sawlogs, many larger diameters present in lower stocked areas. Stand was thinned, for a third time, in 2012. Present BA is about 95 sq. ft. Final harvest stand this YOE, perform site prep, and replant red pine seedlings. Include hard and soft mast species as part of the replanting of red pine. Designated snowmobile trail is adjacent to the stand on the north side.			
Canopy Species		% Cover	Size Class	DBH	Age	Canopy Species		Density	Avg. Height	Size
Red Pine		100	Log/Pole	11	64	Sugar Maple		Medium	5 - 10 feet	Sapling
						Beech		Medium	5 - 10 feet	Sapling



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments			
28	42110 - Planted Red Pine	Sawtimber Well	31.8	64	81-110	N/A	High quality red pine plantation. Log/pole size class, last thinned in 2012, which was the third thinning the stand has received. Current average B.A. is about 100 sq. ft. Another marked thinning may be prescribed in 10 years, with a final harvest possibly occurring in 20 years.			
Canopy Species		% Cover	Size Class	DBH	Age	Canopy Species		Density	Avg. Height	Size
Red Pine		100	Log/Pole	11	64	Sugar Maple		Medium	5 - 10 feet	Sapling
						Beech		Medium	5 - 10 feet	Sapling
29	4110 - Sugar Maple Association	Poletimber Well	6.2	100	81-110	N/A	Small stand of hardwood poletimber consisting mostly sugar maple, with lesser amounts of basswood and beech present. White ash is mostly dead. Adjacent to designated snowmobile trail to the north. Final harvest this stand with red pine stand adjacent to the south and replant red pine seedlings, as well as scattered hard and soft mast species.			
Canopy Species		% Cover	Size Class	DBH	Age	Canopy Species		Density	Avg. Height	Size
Sugar Maple		75	Pole/Log	8	100	Sugar Maple		Medium	Variable	Sapling
Basswood		15	Log/Pole	10		Basswood		Low	Variable	Sapling
Black Cherry		10	Log/Pole	10						
30	310 - Herbaceous Openland	Nonstocked	6.0		Unspecified	No	Mostly grass with sparse, scattered mixed upland shrubs (sumac, juniper, m-seedlings, etc.) along powerline R.O.W.			
31	42110 - Planted Red Pine	Sawtimber Well	32.6	66	81-110	N/A	Red pine plantation consisting of mostly sawtimber, many with larger diameters, and lesser amounts of poletimber. Located on fairly flat ground. Stand was last thinned, for a third time, in 2012. Areas of heavy hardwood regen. Current BA is about 105 sq. ft. Prescribe a final harvest with a red pine MO. Include hard and soft mast species with the replanting of red pine seedlings.			
Canopy Species		% Cover	Size Class	DBH	Age	Canopy Species		Density	Avg. Height	Size
Red Pine		100	Log/XLog/Pole	14	66	Sugar Maple		High	5 - 10 feet	Sapling
						Beech		High	5 - 10 feet	Sapling
32	42110 - Planted Red Pine	Sawtimber Well	12.3	66	81-110	N/A	Red pine plantation consisting of a mix of sawtimber, many with larger diameters, and larger poletimber, on fairly flat ground. Present BA is about 92 sq. ft. Stand was thinned, for a third time, in 2012. Areas of heavy hardwood regen. Prescribe a final harvest, followed by site prep, and re-plant to red pine, as well as scattered hard and soft mast species.			
Canopy Species		% Cover	Size Class	DBH	Age	Canopy Species		Density	Avg. Height	Size
Red Pine		100	Log/XLog/Pole	14	66	Sugar Maple		Medium	Variable	Sapling
						Beech		High	Variable	Sapling
33	42110 - Planted Red Pine	Sawtimber Well	21.5	66	81-110	N/A	Red pine plantation consisting of a mix of sawtimber and poletimber. Stand was last thinned, for a third time, in 2012. Stand needs to put on more diameter growth before a final harvest is prescribed. Present BA (approx. 102 sq. ft.) does not justify a marked thinning this YOE.			
Canopy Species		% Cover	Size Class	DBH	Age	Canopy Species		Density	Avg. Height	Size
Red Pine		100	Log/Pole	11	66	Sugar Maple		High	5 - 10 feet	Sapling
						Beech		High	5 - 10 feet	Sapling
34	42210 - Natural Red Pine	Poletimber Well	5.9	20	1-50	N/A	Red pine, poletimber/saps, volunteers from adjacent red pine plantation. About 40 sq. ft. of one stick poletimber is present. Not great form. Harvest this stand with the adjacent red pine stands in about 20 years. Return stand to a managed grass opening after the harvest.			
Canopy Species		% Cover	Size Class	DBH	Age					
Red Pine		100	Pole/Sapling	5	20					
35	4112 - Maple, Beech, Cherry Association	Poletimber Well	29.9	80	81-110	N/A	Stand consists of a lesser stocked mix of northern hardwood poletimber/sawtimber and bigtooth aspen sawlogs, located on a plateau of fairly flat ground. Average BA is about 89 sq. ft. presently. The hardwood consists of a mix of mostly sugar maple and beech poletimber, with lesser amounts of basswood and red maple present. There is both live and dead beech present. Almost all white ash is dead. Manage this stand for aspen, especially since aspen makes up a small percentage of the cover type in the compartment. Prescribe a final harvest this YOE.			
Canopy Species		% Cover	Size Class	DBH	Age	Canopy Species		Density	Avg. Height	Size
Sugar Maple		36	Pole/Log	8	80	Sugar Maple		Medium	Variable	Sapling
Beech		34	Pole/Log	8		Basswood		Low	Variable	Sapling
Red Maple		15	Pole/Log	9		Beech		Medium	Variable	Sapling



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																			
36	4110 - Sugar Maple Association	Sawtimber Well	23.7	100	111-140	N/A	Smaller stand of fairly good quality mixed hardwood sawlogs/poletimber on fairly flat ground, adjacent to the designated snowmobile trail. Mostly sugar maple, with lesser amounts of basswood, beech, and black cherry. White ash is also present, but most, if not all, is dead. Present BA is about 123 Sq. Ft. Prescribe for a selection harvest this YOE.																																			
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37	4110 - Sugar Maple Association	Sawtimber Well	52.3	100	81-110	N/A	Fair quality mixed northern hardwood stand, mostly sugar maple boltwood, located on rolling hills adjacent to Stutsmanville Rd. Private property is adjacent to the west of the stand. A forest trail road provides access along the east boundary of the stand. Concentrations of sugar maple sawtimber exists in the north half of the stand, with lesser stocked areas of beech poletimber found in the SW corner. This produces an average BA of 106 sq. ft. Prescribe a selection harvest this YOE.																																			
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38	4110 - Sugar Maple Association	Sawtimber Well	26.5	100	81-110	N/A	Smaller stand of mostly sugar maple sawtimber/boltwood located on fairly hilly, but operable, terrain. Present BA is about 113 sq. ft. Prescribe a selection harvest this YOE.																																			
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39	4110 - Sugar Maple Association	Sawtimber Well	10.1	100	111-140	N/A	Small stand of high quality mixed northern hardware, mostly sugar maple sawtimber and boltwood, located on a plateau with steep slopes on three sides. Adjacent to snowmobile trails. Average BA is about 113 sq. ft. Prescribe a selection harvest this YOE.																																			
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40	4112 - Maple, Beech, Cherry Association	Sawtimber Well	148.9	90	81-110	N/A	Mixed northern hardwood, mostly sugar maple boltwood and small sawlogs, with lesser amounts of beech, and red maple present. The east half of the stand is extremely hilly, some of which is inoperable and has site conditions applied. Beech is in various stages of decline, as well as showing significant amounts of mortality from BBD. Lower B.A.'s exist at present time. Ave. BA is about 93 sq. ft. presently. Possible treatment in the west half of the stand could occur next 10 - 20 years. Designated snowmobile trail runs along the north boundary of the stand.																																			
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42	4116 - Mixed N. Hardwood - Aspen	Poletimber Well	13.1	80	81-110	N/A	Small stand of mostly lesser quality northern hardwood poletimber and boltwood on flat ground at the top of a very high, steep slope. The northern portion of the stand was prescribed as a selection harvest the last YOE, prepped, and sold last YOE. Contract holder never started harvest operations and turned the sale back to the State, possibly because of the lower volume, lesser quality, and steep topography. A final harvest has been prescribed this YOE to regenerate the stand into a mix of northern hardwood and aspen.																																			
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