



Compartment Review Presentation

Gaylord Forest Management Unit

Compartment 52154

Entry Year 2022

Acreage: 2,354

County Cheboygan

Management Area: Chandler Hills

Revision Date: 2020-03-08

Stand Examiner: Shannon Harig

Legal Description:

T34N R03W Sec. 22-27, 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 topography in this compartment consists of moderate to steep slopes. Soils are well drained with the exception of the flood plains along the Sturgeon River. Soils are mostly Rubicon and Kalkaska Sands and Blue Lake Loamy Sand.

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

State ownership is fairly contiguous. Private ownership is mostly larger parcels with few residences. This area is primarily used for various recreational pursuits.

Unique Natural Features:

Archeological, Historical, and Cultural Features:

Special Management Designations or Considerations:

Watershed and Fisheries Considerations:

This compartment contains portions of Berry Creek (a tributary to Pickerel Lake), and the Sturgeon River, both of which are in the Cheboygan River watershed. Stand 16 appears to have a tributary to Berry Creek flowing through it. Appropriate buffers should be maintained adjacent to this stream.

Wildlife Habitat Considerations:

This compartment offers a wide variety of cover types including swamps, hardwoods, aspen, and conifers. This mix provides suitable habitat for several game and non-game species. Management should be consistent with providing opportunities for wildlife-related recreation, given the ease with which the forest is accessed and the proximity to nearby towns.

Mineral Resource and Development Concerns and/or Restrictions

Active sand/gravel pits are located approximately three miles to the northeast. There appears to be some sand & gravel potential within the compartment but there is also abundant clay in this area. There does not appear to be any potential for limestone development in this area. The compartment is several miles from the nearest current or past oil and gas production, and there is no known oil and gas potential. There is no known metallic mineral potential in this part of the state.

Vehicle Access:

Good access to most of the compartment.

Survey Needs:

Recreational Facilities and Opportunities:

There is a State Forest Campground, a boating access site and a multiple use recreational trail in this compartment as well as snowmobile and motorcycle trails.

Fire Protection:

Additional Compartment Information:

The following reports from the Inventory are attached:

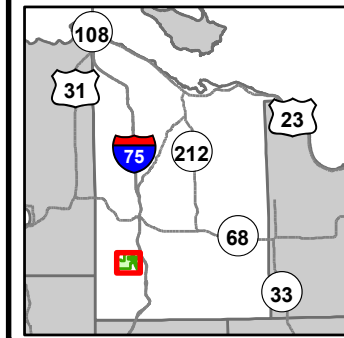
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

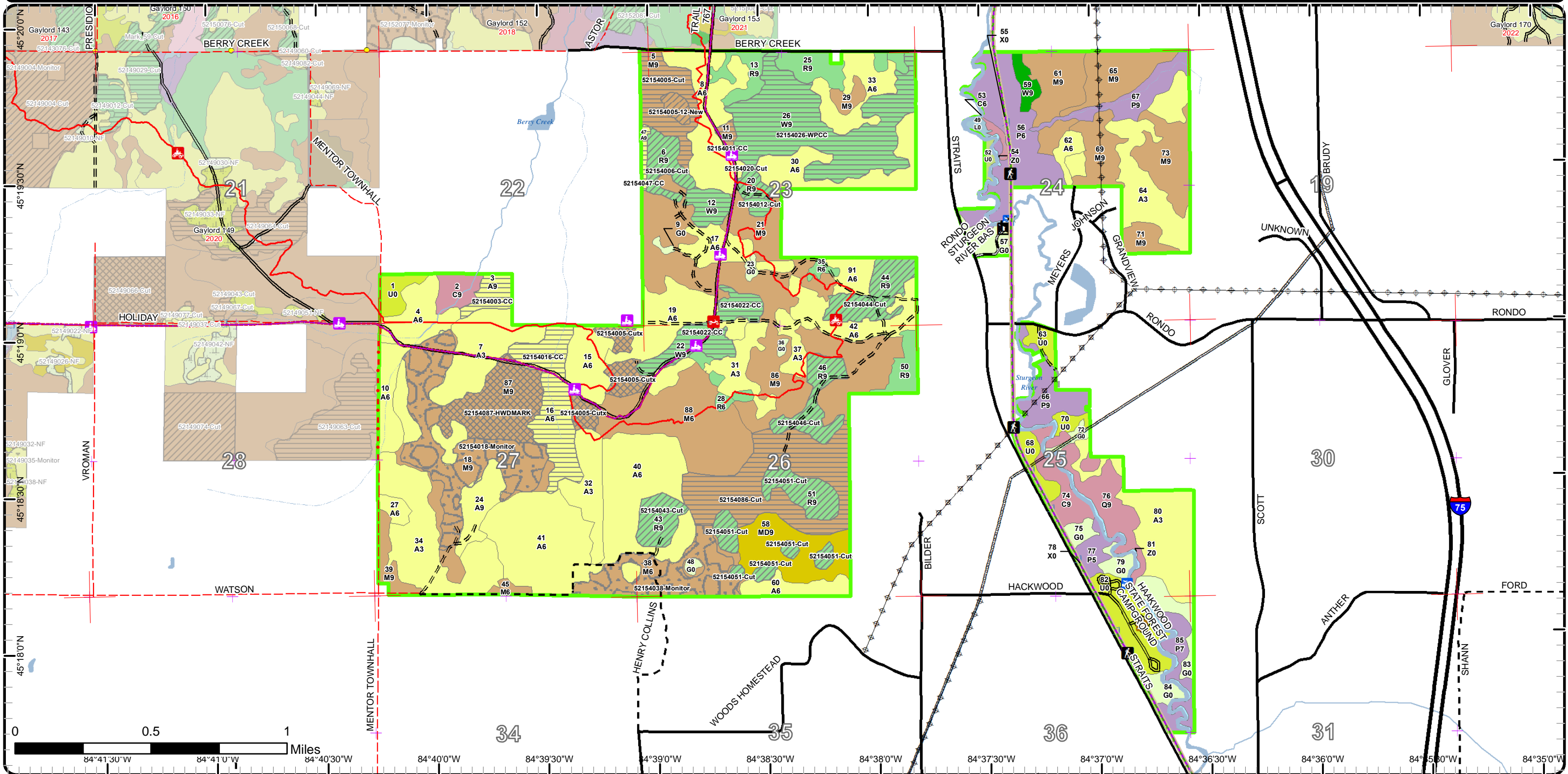
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

Cover Type & Treatments Map

Compartment: 154
 T34N, R03W, Sec. 22-27, 36
 County: Cheboygan
 Unit: Gaylord
 Mgmt Area: Chandler Hills
 YOE: 2022
 Acres: 2,354 GIS Calculated
 Examiner: Shannon Harig
 Map Revised: 11/20/2020
 Map Phase: Post-Review

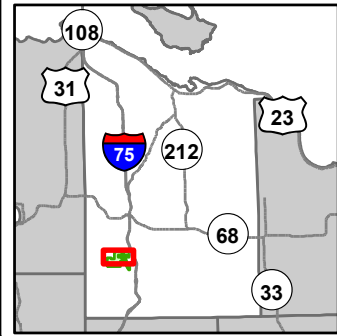


- Miris Corners
- Remonumented Section Corners
- Survey Grade Corners
- Counties
- DNR - Primary Forest Road
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Federal / State / County - Paved Road
- Federal / State - Dirt / Gravel Road
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- Private - Dirt / Gravel Road
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- Bridges
- Culvert
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- Parking Lot
- Intermittent Stream
- Lake/Pond
- Perennial River
- Lakes and Rivers
- Pipeline
- Powerline
- Compartment Boundary
- Selection (Group, Single Tree)
- Clearcut (w/Reserves)
- Thinning (Crown, Low, Systematic)
- 411 - Northern Hardwood
- 413 - Aspen
- 419 - Mixed Upland Deciduous
- 421 - Planted Pines
- 422 - Natural Pines
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 122 - Roads/Parking Lot
- 310 - Herbaceous Openland
- 320 - Upland Shrub
- 330 - Low Density Trees
- 500 - Water
- 622 - Lowland Shrub

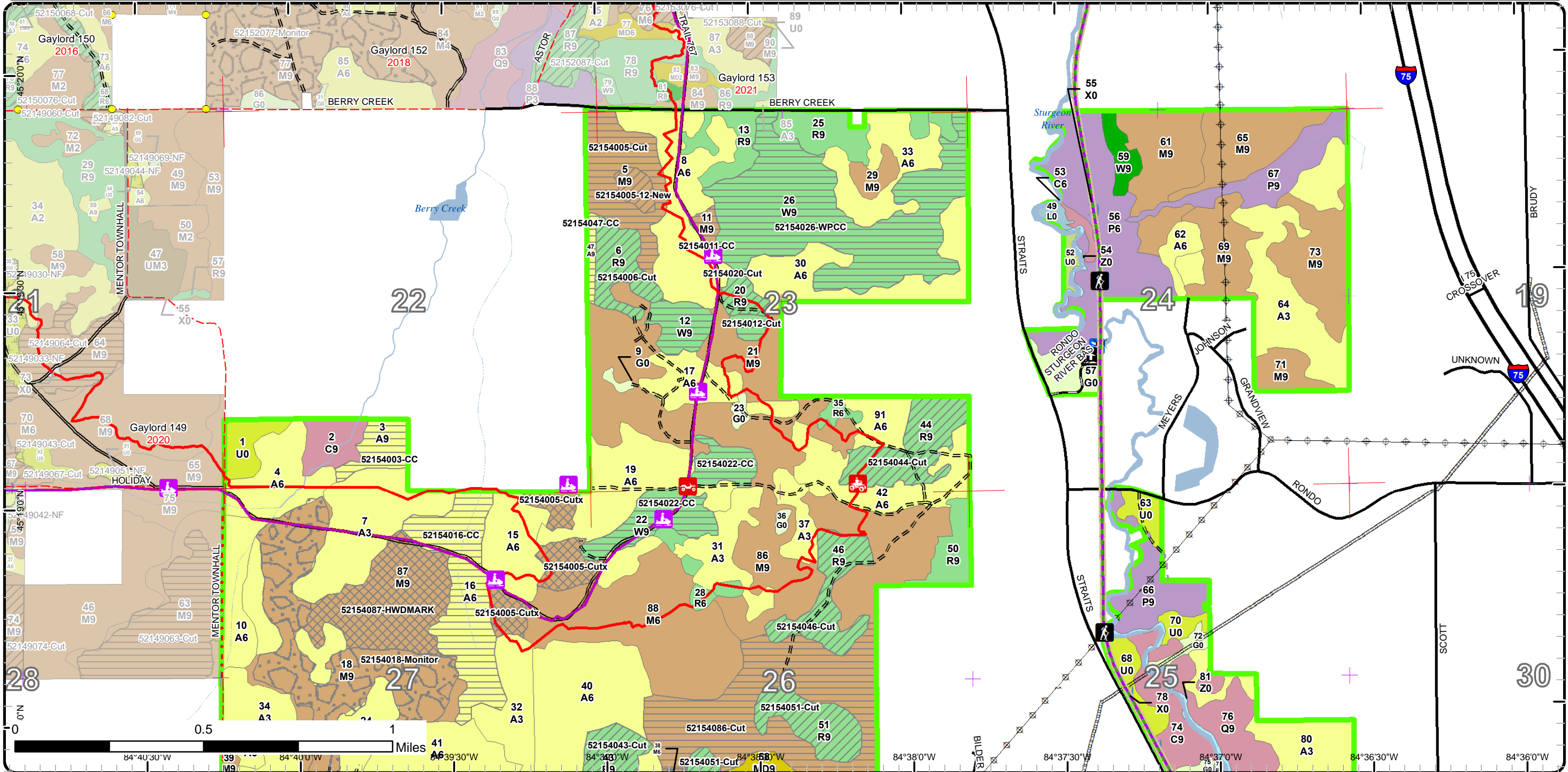


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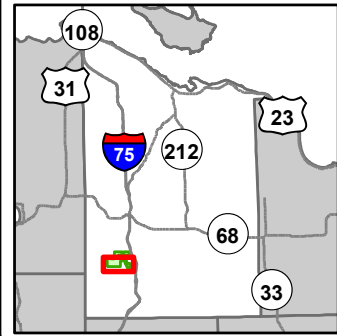


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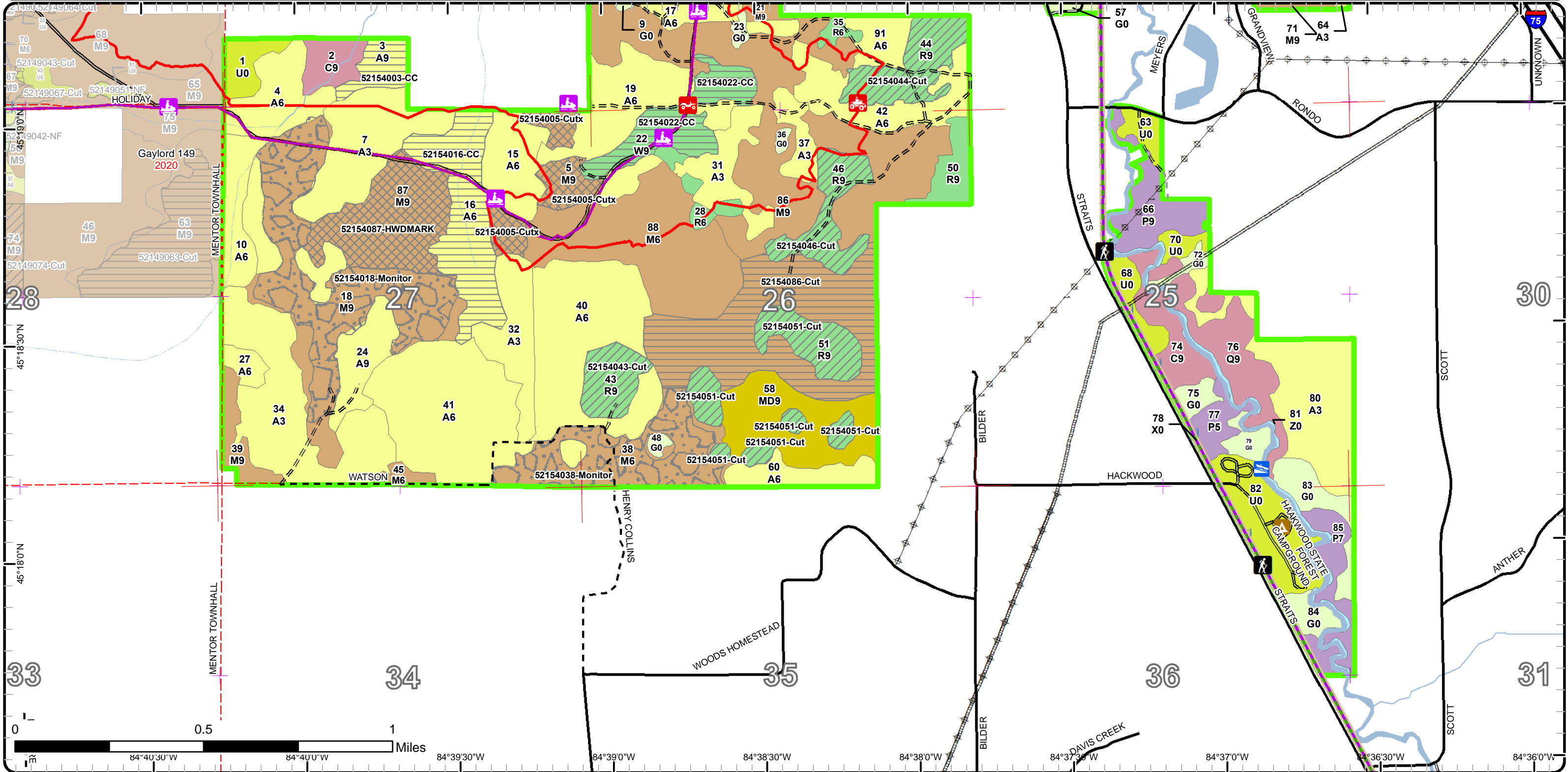


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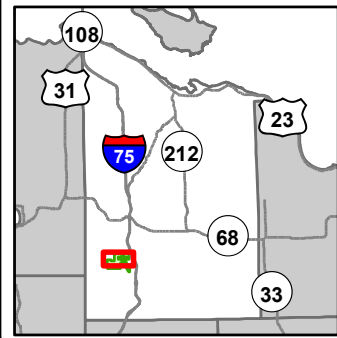


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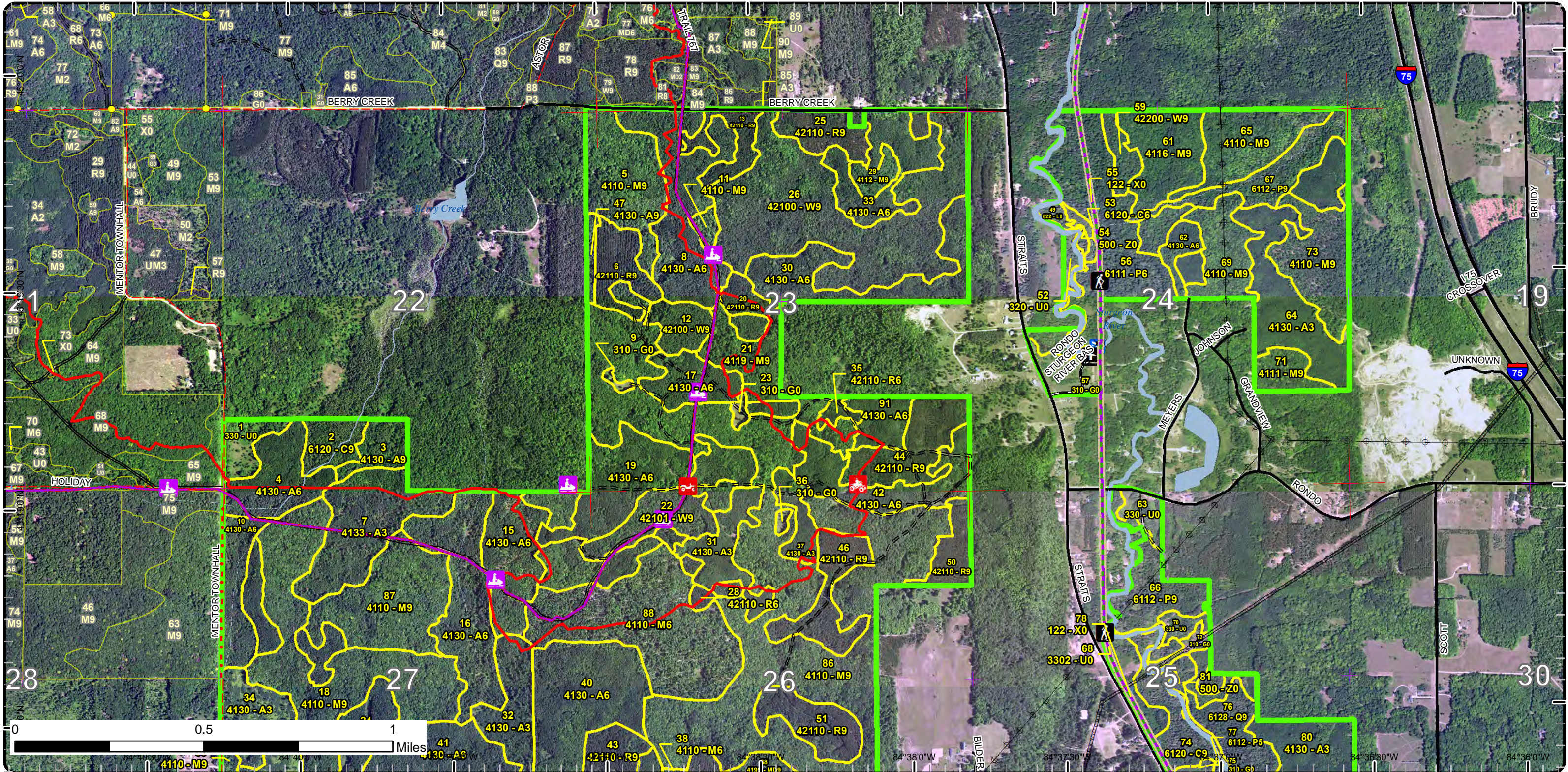


Stand Boundary Map

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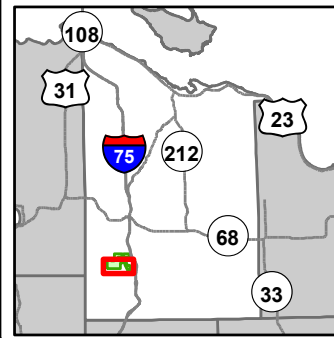


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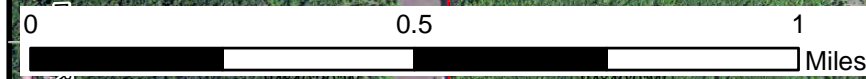
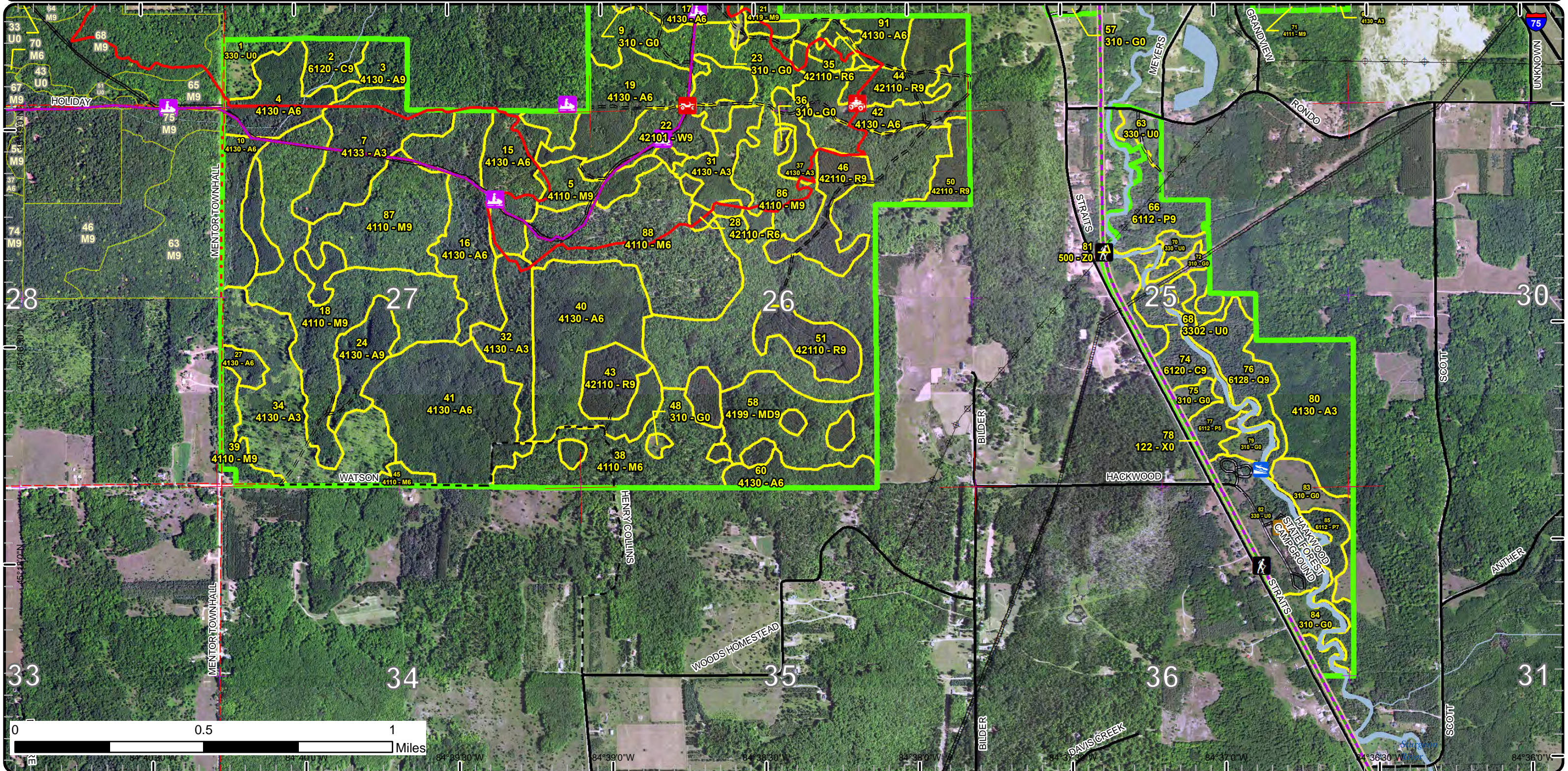


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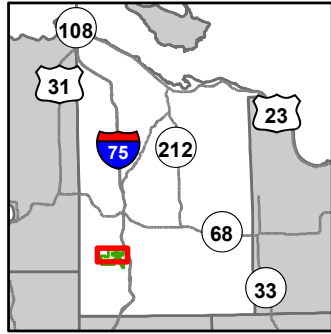
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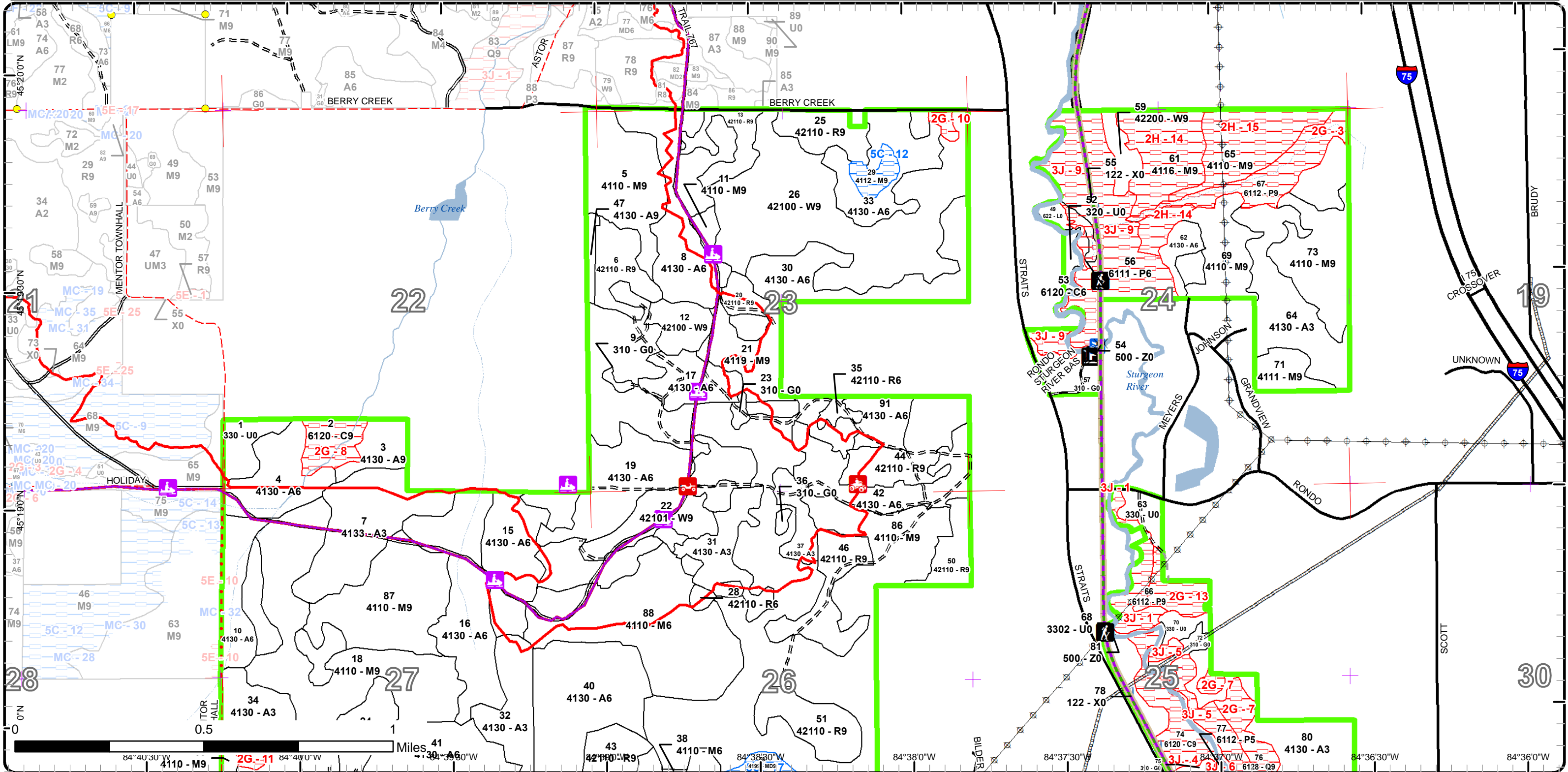
84°41'00" W 84°39'00" W 84°38'00" W 84°37'00" W 84°36'00" W

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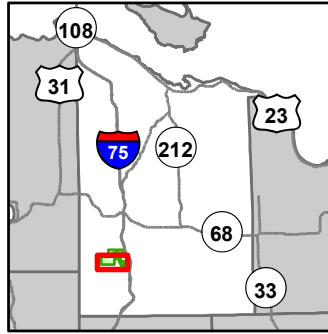


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- Available w/ Constraints
- Unavailable
- Stand Boundaries
- SCA
- Cold Water Streams
- Cold Water Lakes
- Rail-Trail Corridor

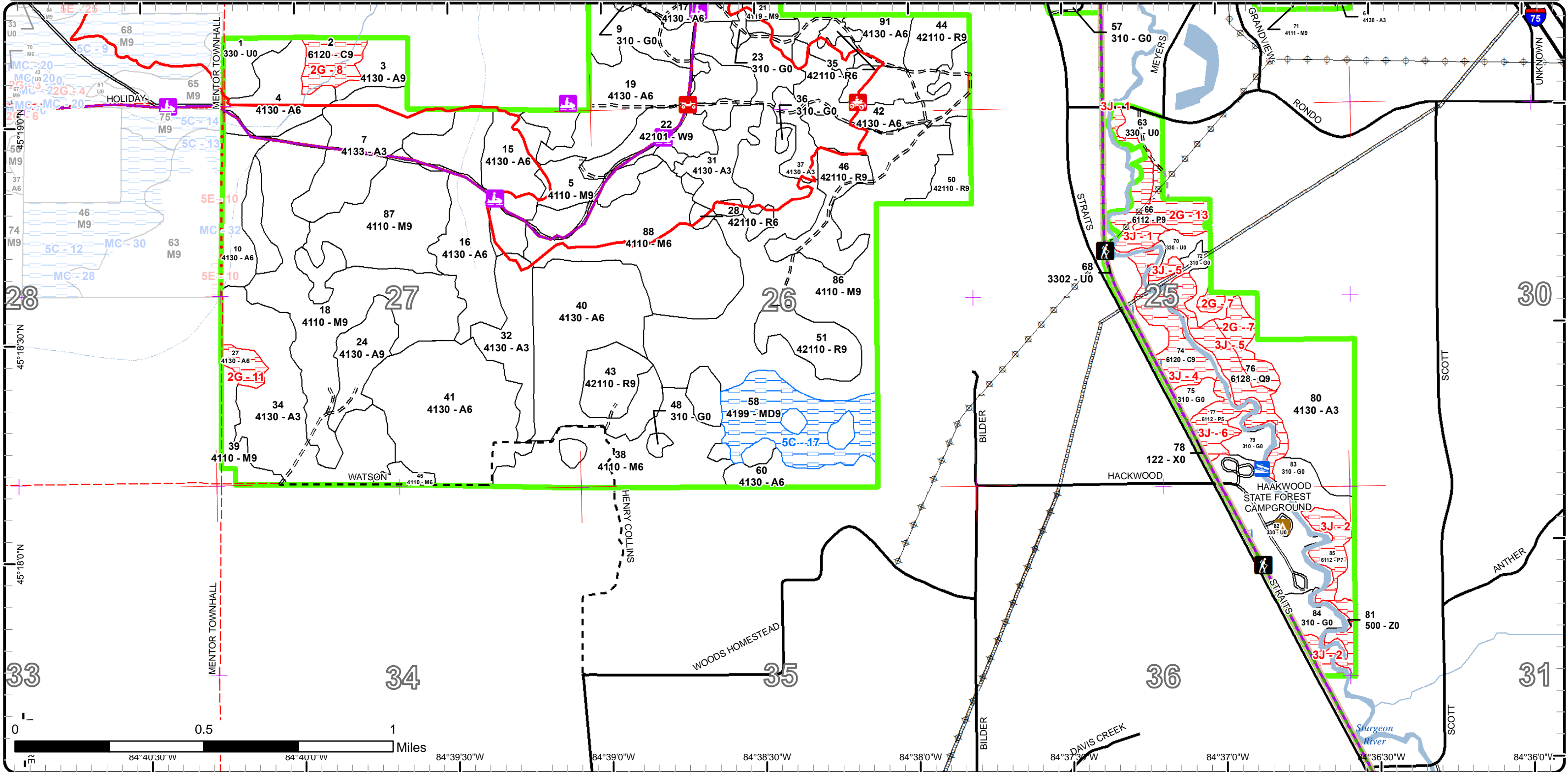


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- Compartment Boundary
- Available w/ Constraints
- Unavailable
- 3J: Water quality / BMPs (stream, river, or lake)
- Stand Boundaries
- Cold Water Streams
- Cold Water Lakes
- 5C: Delay treatment for age/size class diversity or exceptional site quality
- 2G: Too wet (sensitive soils, does not include access issues)





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	67	168	167	321	119	0	0	0	15	0	0	0	0	0	0	0	0	857
Cedar	0	0	0	0	0	0	0	0	0	0	0	0	3	13	18	0	0	0	33
Herbaceous Openland	56	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	55
Low-Density Trees	64	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	64
Lowland Aspen/Balsam Poplar	0	0	0	0	0	0	72	18	0	24	23	0	0	0	0	0	0	0	137
Lowland Conifers	0	0	0	0	0	0	0	0	0	0	0	0	32	0	0	0	0	0	32
Lowland Shrub	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
Mixed Upland Deciduous	0	0	0	0	0	0	0	0	0	43	0	0	0	0	0	0	0	0	43
Northern Hardwood	0	0	0	0	0	0	0	0	445	260	47	0	0	0	0	0	0	0	752
Red Pine	0	0	0	0	0	0	163	0	0	17	0	0	0	0	0	0	0	0	180
Upland Shrub	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
Urban	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8
Water	18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	18
White Pine	0	0	0	0	0	0	158	0	0	0	0	0	0	0	0	0	0	8	166
Total	152	67	168	167	321	119	393	18	445	359	70	0	35	13	18	0	0	8	2350



Report 2 – Treatment Summary

Gaylord Mgt. Unit

Year of Entry: 2022

Acres of Harvest

Compartment 154

Total Compartment Acres: 2,354

Commercial Harvest - 540
 Harvests with Site Condition - 0
 Next Step Harvest - 0
 Habitat Cut - 6

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
Northern Hardwood	122	72	0	0	0	6	0	0	0	200
Red Pine	0	0	0	0	0	129	0	0	0	129
White Pine	154	0	0	0	0	0	0	0	0	154
Total	339	72	0	0	0	135	0	0	0	546

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	546	0	0	0	0	0	133	0	0	678
Next Step	0	222	111	0	0	222	522	0	0	1078
Total	546	222	111	0	0	222	655	0	0	1756



S t a n d	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
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Approved Treatments:

3	52154003-CC	11.5	4130 - Aspen	Sawtimber Well	85	81-110	Harvest	Clearcut	413 - Aspen	Even-Aged	No
<p><u>Prescription</u> Clearcut, no retention due to small stand size. <u>Specs:</u> <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u> <u>Acceptable</u> Minimum stocking of aspen. <u>Regen:</u> <u>Other</u> <u>Comment:</u> <u>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /2021</p>											
5	52154005-12- New	5.6	4110 - Sugar Maple Association	Sawtimber Well	74	111- 140	Harvest	Crown Thinning	411 - Northern Hardwood	Uneven- Aged	Yes
<p><u>Prescription</u> Thin to a residual of 80 BA. Leave under-represented species for diversity. <u>Specs:</u> <u>Next Step</u> <u>Treatments:</u> <u>Acceptable</u> <u>Regen:</u> <u>Other</u> <u>Comment:</u> <u>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /2021</p>											
5	52154005-Cut	32.4	4110 - Sugar Maple Association	Sawtimber Well	74	111- 140	Harvest	Clearcut with Retention	411 - Northern Hardwood	Even-Aged	No
<p><u>Prescription</u> Harvest all species except oak. Standard retention. Protect and sign recreational trail during harvest. <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>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /2021</p>											



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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
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5	52154005-Cutx	23.5	4110 - Sugar Maple Association	Sawtimber Well	74	111-140	Harvest	Single Tree Selection	411 - Northern Hardwood	Even-Aged	No
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Prescription Mark stand to a residual BA of 80. Create one 100' - 150' canopy gap per 5 acres. Leave under-represented species for stand diversity.
Specs:

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

Acceptable Minimum stocking of northern hardwoods not dominated by beech.
Regen:

Other
Comment:

Site Condition
Proposed Start Date: 10/1 /2021

6	52154006-Cut	17.3	42110 - Planted Red Pine	Sawtimber Well	52	171-200	Harvest	Crown Thinning	4211 - Planted Red Pine	Even-Aged	No
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Prescription Mark the stand to reduce the BA to 120.
Specs:

Next Step
Treatments:

Acceptable
Regen:

Other
Comment:

Site Condition
Proposed Start Date: 10/1 /2021

11	52154011-CC	3.5	4110 - Sugar Maple Association	Sawtimber Well	87	81-110	Harvest	Clearcut	4211 - Planted Red Pine	Even-Aged	No
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Prescription Clearcut leaving no retention due to small stand size. Plant Red Pine, interplant oak. Protect and sign recreational trail during harvest.
Specs:

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

Acceptable Fully stocked Red Pine.
Regen:

Other
Comment:

Site Condition
Proposed Start Date: 10/1 /2021

12	52154012-Cut	15.6	42100 - Planted White Pine	Sawtimber Well	52	141-170	Harvest	Clearcut with Retention	411 - Northern Hardwood	Even-Aged	No
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Prescription Clearcut with standard retention. Protect and sign recreational trails during harvest.
Specs:

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

Acceptable Minimum stocking of northern hardwoods.
Regen:

Other
Comment:

Site Condition
Proposed Start Date: 10/1 /2021



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16	52154016-CC	47.9	4130 - Aspen	Poletimber Well	36	81-110	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
<p><u>Prescription Specs:</u> Clearcut leaving standard retention. Mark 1 or 2 large red pine per acre to leave. Protect and sign recreational trails during harvest. Protect drainage in north part of the stand.</p> <p><u>Next Step Treatments:</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Acceptable Regen:</u> Minimum stocking of aspen.</p> <p><u>Other Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2021</p>											

18	52154018-Monitor	82.4	4110 - Sugar Maple Association	Sawtimber Well	89	51-80	Monitoring	Natural Regen (Re-Inventory)	4110 - Sugar Maple Association	Uneven-Aged	No
<p><u>Prescription Specs:</u></p> <p><u>Next Step Treatments:</u></p> <p><u>Acceptable Regen:</u> Minimum stocking of northern hardwoods not dominated by beech and ash.</p> <p><u>Other Comment:</u> Percent to Treat = 100%</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 6 /20/2019</p>											

20	52154020-Cut	6.5	42110 - Planted Red Pine	Sawtimber Well	52	171-200	Harvest	Crown Thinning	4211 - Planted Red Pine	Even-Aged	No
<p><u>Prescription Specs:</u> Mark stand to a residual BA of 120. Do not mark trees within 5 feet of the motorcycle trail. Protect and sign trail during harvest.</p> <p><u>Next Step Treatments:</u></p> <p><u>Acceptable Regen:</u></p> <p><u>Other Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2021</p>											

22	52154022-CC	30.5	42101 - Planted White Pine, Mixed Deciduous	Sawtimber Well	52	141-170	Harvest	Clearcut with Retention	411 - Northern Hardwood	Even-Aged	No
<p><u>Prescription Specs:</u> Clearcut all species, standard retention.</p> <p><u>Next Step Treatments:</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Acceptable Regen:</u> Minimum stocking of northern hardwoods and aspen.</p> <p><u>Other Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2021</p>											



Standard

Standard	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
	26 52154026-WPCC	107.6	42100 - Planted White Pine	Sawtimber Well	52	171-200	Harvest	Clearcut with Retention	4211 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> Clearcut and leave retention in pockets in locations that won't interfere with planting operations. Incorporate hard and soft mast when planting. Protect and sign recreational trail during harvest.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> SitePrep, Roller Chopping; Pesticide, Aerial - Site Prep; SitePrep, Trenching; Planting, Initial Plant; Monitoring, Artificial Regen(1yr);</p> <p><u>Treatments:</u> Pesticide, Aerial - Release; Monitoring, Artificial Regen(3yr)</p> <p><u>Acceptable</u> Fully stocked stand of Red Pine.</p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2021</p>											
	38 52154038-Monitor	50.4	4110 - Sugar Maple Association	Poletimber Well	77	51-80	Monitoring	Natural Regen (Re-Inventory)	4110 - Sugar Maple Association	Uneven-Aged	No
<p><u>Prescription</u> Monitor regeneration.</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Minimum stocking of northern hardwood.</p> <p><u>Regen:</u></p> <p><u>Other</u> Percent to Treat = 100%</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 7 /9 /2015</p>											
	43 52154043-Cut	17.1	42110 - Planted Red Pine	Sawtimber Well	80	141-170	Harvest	Crown Thinning	4211 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> Mark stand to a residual BA of 120. Concentrate marking on stems that are of poor form, suppressed.</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable</u></p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2021</p>											
	44 52154044-Cut	27.7	42110 - Planted Red Pine	Sawtimber Well	52	171-200	Harvest	Crown Thinning	4211 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> Mark stand to a residual BA of 120. Concentrate marking on suppressed trees and those with poor form. Do not mark trees within 5 feet of the motorcycle trail. Protect and sign trail during harvest.</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable</u></p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2021</p>											



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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
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46	52154046-Cut	22.7	42110 - Planted Red Pine	Sawtimber Well	52	171- 200	Harvest	Crown Thinning	4211 - Planted Red Pine	Even-Aged	No
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Prescription Mark stand to a residual BA of 120. Concentrate marking on suppressed trees and those with poor form. Do not mark trees within 5 feet of the motorcycle trail. Protect and sign trail during harvest.

Specs:

Next Step

Treatments:

Acceptable

Regen:

Other

Comment:

Site Condition

Proposed Start Date: 10/1 /2021

47	52154047-CC	3.6	4130 - Aspen	Sawtimber Well	80	81-110	Harvest	Clearcut	413 - Aspen	Even-Aged	No
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Prescription Clearcut, no retention.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Minimum stocking of aspen and northern hardwoods.

Regen:

Other

Comment:

Site Condition

Proposed Start Date: 10/1 /2021

51	52154051-Cut	37.6	42110 - Planted Red Pine	Sawtimber Well	52	171- 200	Harvest	Crown Thinning	4211 - Planted Red Pine	Even-Aged	No
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Prescription Mark stand to a residual BA of 120. Concentrate marking on suppressed trees and those with poor form.

Specs:

Next Step

Treatments:

Acceptable

Regen:

Other

Comment:

Site Condition

Proposed Start Date: 10/1 /2021

86	52154086-Cut	86.3	4110 - Sugar Maple Association	Sawtimber Well	77	111- 140	Harvest	Clearcut with Retention	411 - Northern Hardwood	Even-Aged	No
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Prescription Clearcut, leave standard retention.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Minimum stocking of northern hardwoods.

Regen:

Other

Comment:

Site Condition

Proposed Start Date: 10/1 /2021



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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
87 52154087-HWDMARK	48.6	4110 - Sugar Maple Association	Sawtimber Well	89	141-170	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven-Aged	No
<p><u>Prescription</u> Mark stand to a residual of 80 BA. Leave under-represented species for diversity. Do not cut beech. Create one 100' - 150' canopy gap per 5 acres. Protect and sign recreational trail during harvest.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u> Minimum stocking of northern hardwoods not dominated by Beech.</p> <p><u>Other Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2021</p>										

Total Treatment Acreage Proposed: **678.3**

Report 4 – Site Conditions

Gaylord Mgt. Unit
Shannon Harig : Examiner

Compartment: 154
Year of Entry: 2022



Availability for Management

Total Acres	Acres Available	Acres Avail		Dominant Site Conditions	5C	2G	2H	3J
		With Condition	Not Available					
858	852	0	6	Aspen		6		
34	0	0	34	Cedar		13		21
56	56	0	0	Herbaceous Openland				
64	64	0	0	Low-Density Trees				
137	0	0	136	Lowland Aspen/Balsam Poplar		33		103
32	0	0	32	Lowland Conifers		12		20
3	3	0	0	Lowland Shrub				
43	0	43	0	Mixed Upland Deciduous	43			
752	681	6	65	Northern Hardwood	6	0	65	
181	181	0	0	Red Pine				
3	3	0	0	Upland Shrub				
8	8	0	0	Urban				
18	18	0	0	Water				
166	163	0	3	White Pine		3		
2,354	2,028	49	276	Total Forested Acres	49	66	65	144
	86%	2%	12%	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	3J: Water quality / BMPs (stream, river, or lake)	14	5F: Evaluated for Forest Health Considerations	Unspecified	Unspecified	Unspecified
Comments: A lot of this stand lies within the Sturgeon River flood plain.							
2	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	18	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Gaylord Mgt. Unit
Shannon Harig : Examiner

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3	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	23	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
4	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	18	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
5	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	20	5F: Evaluated for Forest Health Considerations	Unspecified	Unspecified	Unspecified
Comments:							
6	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	10	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
7	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	12	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
8	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	13	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Gaylord Mgt. Unit
Shannon Harig : Examiner

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9	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	64	2G: Too wet (sensitive soils, does not include access issues)	Unspecified	Unspecified	Unspecified
Comments:							
10	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
11	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	6	5E: Long-Term Retention			
Comments:							
12	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	6	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
13	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	11	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Gaylord Mgt. Unit
Shannon Harig : Examiner

Compartment: 154
Year of Entry: 2022



14	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	36	2D: Portable Bridge Needed (Dept. bridge will be adequate)			
Comments: Not sure if a portable bridge would be long enough.							
15	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	30	2D: Portable Bridge Needed (Dept. bridge will be adequate)			
Comments:							
17	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	43	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
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Comments



Report 6 – EXISTING SPECIAL CONSERVATION AREA DETAILS

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

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

Conservation Area	Type	Description
SCA	Cold Water Lake	A coldwater lake has temperature and dissolved oxygen conditions that allow naturally-reproduced or stocked trout populations and those of other coldwater fish species to persist from year to year. Suitable conditions for coldwater fishes may occur in Michigan lakes if they are relatively deep, have substantial groundwater inflows, or are located in colder (northern) areas of the state. Such lakes are established by Director's action and designated as trout resources by Fisheries Order 200.
SCA	Cold Water Stream	A coldwater stream has temperature and dissolved oxygen conditions that allow naturally-reproduced or stocked trout populations and those of other coldwater fish species (e.g., slimy sculpin) to persist from year to year. Coldwater streams in Michigan typically provide these conditions due to substantial contributions of groundwater to their stream flows. Such streams are established by Director's action and designated as trout resources by Fisheries Order 210.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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1	330 - Low-Density Trees	Nonstocked	10.7		Immature	No	Scattered cherry, aspen, white pine and large maple.
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2	6120 - Lowland Cedar	Sawtimber Well	12.5	127	201+	N/A	Looks healthy. A lot of CWD.
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Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	2	Log/Pole	10	
Yellow Birch	4	XLog	22	
Northern White Cedar	91	Log/Pole	13	127
Black Ash	3	Pole	7	

3	4130 - Aspen	Sawtimber Well	11.5	85	81-110	N/A	
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Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	10	Log/Pole	10	
Basswood	4	Log/Pole	11	
Quaking Aspen	68	Log	12	85
Balsam Fir	16	Pole	8	
Black Cherry	2	Pole	9	

Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	Medium	Variable	Sapling
Ironwood	Low	Variable	Sapling
Black Cherry	Low	Variable	Sapling
Red Maple	Medium	Variable	Sapling

4	4130 - Aspen	Poletimber Well	36.6	44	81-110	N/A	
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Canopy Species	% Cover	Size Class	DBH	Age
Sugar Maple	2	Pole/Sapling	5	44
Bigtooth Aspen	90	Pole	7	44
Red Pine	8	Log	14	

Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple	Low	Variable	Sapling
Ironwood	Low	Variable	Sapling

5	4110 - Sugar Maple Association	Sawtimber Well	61.6	74	111-140	N/A	Some good stems.
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Canopy Species	% Cover	Size Class	DBH	Age
Sugar Maple	74	Log/Pole	10	74
Basswood	15	Log/Pole	11	
Bigtooth Aspen	10	Log	11	
Beech	1	Log/Pole	10	

Sub-Canopy Species	Density	Avg. Height	Size
Ironwood	Low	Variable	Sapling
Beech	Low	Variable	Sapling
Sugar Maple	Medium	>20 feet	Sapling

6	42110 - Planted Red Pine	Sawtimber Well	17.3	52	171-200	N/A	Good quality stems, variable stocking. BA is 182.
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Canopy Species	% Cover	Size Class	DBH	Age
White Pine	6	Log/Pole	11	
Red Pine	94	Log/Pole	11	52

Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple	High	Variable	Sapling
Black Cherry	Low	Variable	Sapling
Ironwood	Medium	Variable	Sapling
Beech	Low	Variable	Sapling



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																						
7	4133 - Aspen, Mixed Pine	Sapling Well	44.2	27	Immature	N/A	Some large 12"+ white pine in stand.																																																						
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8	4130 - Aspen	Poletimber Well	49.7	43	81-110	N/A	Nice, well stocked stand.																																																						
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Balsam Fir	4	Pole	9		Ironwood	Low	Variable	Sapling																																																					
Black Cherry	2	Pole/Sapling	6																																																										
9	310 - Herbaceous Openland	Nonstocked	1.4			No																																																							
10	4130 - Aspen	Poletimber Well	19.7	27	1-50	N/A	Looks good.																																																						
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size																																																					
Quaking Aspen	77	Pole/Sapling	5	27	Sugar Maple	Low	Variable	Sapling																																																					
Jack Pine	2	Sapling/Pole	3		Quaking Aspen	Low	Variable	Sapling																																																					
Black Cherry	5	Sapling/Pole	4	27	Ironwood	Low	Variable	Sapling																																																					
White Pine	4	Pole/Sapling	5																																																										
Sugar Maple	12	Sapling/Pole	3																																																										
11	4110 - Sugar Maple Association	Sawtimber Well	3.5	87	81-110	N/A	Very few crop trees.																																																						
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12	42100 - Planted White Pine	Sawtimber Well	15.6	52	141-170	N/A	Mostly poor quality stems.																																																						
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13	42110 - Planted Red Pine	Sawtimber Well	12.9	52	141-170	N/A	Great quality stems.																																																						
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
15	4130 - Aspen	Poletimber Well	24.2	27	51-80	N/A	Regen looks good.		
Canopy Species		% Cover	Size Class	DBH	Age				
Quaking Aspen		73	Pole/Sapling	6	27				
Jack Pine		4	Sapling	4	27				
Black Cherry		8	Sapling	3	27				
Ironwood		5	Sapling	2					
Sugar Maple		10	Sapling	3					
16	4130 - Aspen	Poletimber Well	47.9	36	81-110	N/A			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple		10	Pole/Sapling	5	36	Beech	Low	Variable	Sapling
Quaking Aspen		75	Pole/Log	9	36	Sugar Maple	Low	Variable	Sapling
Red Pine		10	Log	13		Ironwood	Low	Variable	Sapling
Jack Pine		3	Pole	8					
Basswood		2	Pole	9					
17	4130 - Aspen	Poletimber Well	18.1	37	141-170	N/A	Good regen, well stocked.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple		10	Pole/Sapling	6	37	Sugar Maple	Medium	Variable	Sapling
Bigtooth Aspen		90	Pole	8	37	Ironwood	Low	Variable	Sapling
18	4110 - Sugar Maple Association	Sawtimber Well	97.0	89	51-80	N/A	Selection harvest completed in 2018.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple		58	Log/Pole	10	89	Sugar Maple	Low	Variable	Sapling
Basswood		30	Log/Pole	10		Ironwood	Low	Variable	Sapling
Bigtooth Aspen		2	Log	12		Beech	Low	Variable	Sapling
Red Pine		10	Log	12					
19	4130 - Aspen	Poletimber Well	47.3	37	81-110	N/A			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple		3	Pole/Sapling	5	37	Beech	Low	5 - 10 feet	Sapling
Bigtooth Aspen		95	Pole	7	37	Ironwood	Low	Variable	Sapling
Black Cherry		2	Sapling/Pole	4	37				
20	42110 - Planted Red Pine	Sawtimber Well	6.5	52	171-200	N/A	Good quality stems, heavy hardwood understory. BA is 188.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Bigtooth Aspen		10	Log	12		Sugar Maple	High	Variable	Sapling
White Pine		25	Log/Pole	10		Beech	Medium	Variable	Sapling
Red Pine		65	Log/Pole	11	52				



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																										
21	4119 - Mixed Northern Hardwoods	Sawtimber Well	21.5	88	81-110	N/A	Hilly, poor quality stems, very few good crop trees.																																										
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22	42101 - Planted White Pine, Mixed Deciduous	Sawtimber Well	32.4	52	141-170	N/A																																											
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23	310 - Herbaceous Openland	Nonstocked	2.0		Unspecified	No																																											
24	4130 - Aspen	Sawtimber Well	27.0	44	81-110	N/A	Quality timber. Several vernal ponds.																																										
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25	42110 - Planted Red Pine	Sawtimber Well	17.5	52	141-170	N/A	Looks good.																																										
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26	42100 - Planted White Pine	Sawtimber Well	110.1	52	171-200	N/A	Poor quality white pine stems throughout the stand. An acre or two of nice red pine in the south central part of the stand.																																										
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
27	4130 - Aspen	Poletimber Well	5.8	44	81-110	N/A	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Quaking Aspen		20	Pole	8	44	Beech	
Bigtooth Aspen		80	Pole	8	44	Low	Variable Sapling
28	42110 - Planted Red Pine	Poletimber Well	5.5	52	141-170	N/A	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Red Pine		98	Pole/Log	9	52	Sugar Maple	
Bigtooth Aspen		2	Log/Pole	10		Medium	Variable Sapling
						Low	Variable Sapling
29	4112 - Maple, Beech, Cherry Association	Sawtimber Well	6.4	98	111-140	N/A	A lot of poor quality, multi-stem maple.
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Sugar Maple		43	Log	10	98	Ironwood	
Red Maple		43	Log/Pole	11		Low	Variable Sapling
Basswood		2	Log/Pole	10		Low	Variable Sapling
Bigtooth Aspen		5	Log/Pole	10			
White Pine		7	Log/XLog	18			
30	4130 - Aspen	Poletimber Well	37.8	37	81-110	N/A	Nice regen.
Canopy Species		% Cover	Size Class	DBH	Age		
Sugar Maple		5	Sapling	4			
Red Maple		2	Sapling	4			
Basswood		2	Pole	9			
Bigtooth Aspen		81	Pole/Sapling	6	37		
White Pine		10	Pole	8			
31	4130 - Aspen	Sapling Well	20.7	17	Immature	N/A	
Canopy Species		% Cover	Size Class	DBH	Age		
Sugar Maple		5	Sapling	2	17		
Bigtooth Aspen		92	Sapling	3	17		
Ironwood		3	Sapling	2	17		
32	4130 - Aspen	Sapling Well	26.8	17	Immature	N/A	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Quaking Aspen		86	Sapling	3	17	Sugar Maple	
White Pine		6	Log	14		Low	Variable Sapling
Red Pine		6	Log	14		Low	Variable Sapling
Black Cherry		2	Sapling	2			



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																						
33	4130 - Aspen	Poletimber Well	27.6	37	81-110	N/A	Nice looking regen, healthy.																																																						
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34	4130 - Aspen	Sapling Well	67.2	7	Immature	N/A	Cutting was complete in 2013. Converting to mixed aspen-hardwood. A lot of blackberry and raspberry throughout the stand.																																																						
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38	4110 - Sugar Maple Association	Poletimber Well	54.1	77	51-80	N/A	Hilly, steep in some areas, variable stocking and quality.																																																						
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43	42110 - Planted Red Pine	Sawtimber Well	17.1	80	141-170	N/A	Good quality stems. Some porky damage.																																										
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49	622 - Lowland Shrub	Nonstocked	2.5			No																																
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50	42110 - Planted Red Pine	Sawtimber Well	12.5	52	141-170	N/A	Looks good. May be ready for harvest next entry.																															
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51	42110 - Planted Red Pine	Sawtimber Well	37.6	52	171-200	N/A	Row thinned last entry. Looks good.																															
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52	320 - Upland Shrub	Nonstocked	3.3			No																																
53	6120 - Lowland Cedar	Poletimber Well	2.7	116	171-200	N/A																																
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																											
54	500 - Water	Nonstocked	4.2			No	Sturgeon River																																											
55	122 - Road/Parking Lot	Nonstocked	2.2			No	North Central State Trail																																											
56	6111 - Lowland Balsam Poplar	Poletimber Well	61.5	59	51-80	N/A	Wet, some blowdown. Decent black ash regen.																																											
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57	310 - Herbaceous Openland	Nonstocked	11.8			No	Rondo Access Site																																											
58	4199 - Other Mixed Upland Deciduous	Sawtimber Well	42.7	80	51-80	N/A	Steep. Good looking oak.																																											
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59	42200 - Natural White Pine	Sawtimber Well	7.5	51	111-140	N/A	Natural, un-even aged pine up to 30" DBH. Looks healthy.																																											
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60	4130 - Aspen	Poletimber Well	16.1	37	1-50	N/A																																												
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61	4116 - Mixed N. Hardwood - Aspen	Sawtimber Well	35.5	89	81-110	N/A	Red maple looks good, very steep N/S slope through center of the stand. Some of the aspen is starting to decline.																																											
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62	4130 - Aspen	Poletimber Well	7.0	34	51-80	N/A	Looks good.																																											
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63	330 - Low-Density Trees	Nonstocked	7.0			No	Pockets of BA M and Balsam fir. A lot of 5' to 20' Scotch Pine.																																											
64	4130 - Aspen	Sapling Well	54.4	16	1-50	N/A	Very good regen. Steep.																																											
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65	4110 - Sugar Maple Association	Sawtimber Well	29.8	93	111-140	N/A	Very steep, no access. Decent quality hardwood.																																											
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67	6112 - Lowland Aspen	Sawtimber Well	22.6	90	51-80	N/A	Wet, drainage.																																																								
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68	3302 - Low Density Conifer Trees	Nonstocked	8.7			No	Some stunted White Pine and scattered cherry brush.																																																								
69	4110 - Sugar Maple Association	Sawtimber Well	22.2	85	81-110	N/A	Fair quality stems. Steep, several E/W running draws.																																																								
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70	330 - Low-Density Trees	Nonstocked	4.5			No	Pockets of Red Pine and aspen.																																																								
71	4111 - S.Maple, Hard Mast Association	Sawtimber Well	10.7	90	81-110	N/A	Poor quality, steep. Significant beech mortality.																																																								
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72	310 - Herbaceous Openland	Nonstocked	3.5			No	Pipeline ROW.																																																								
73	4110 - Sugar Maple Association	Sawtimber Well	32.1	80	51-80	N/A	Stand was harvested in spring 2016. Additional ash and beech were salvaged, residual BA is 75.																																																								
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74	6120 - Lowland Cedar	Sawtimber Well	18.3	133	141-170	N/A	A few large white pine present. Some windthrow.																																																								
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75	310 - Herbaceous Openland	Nonstocked	5.2			No	Scattered small White Pine and a small clone of Quaking Aspen.																																																			
76	6128 - Lowland Coniferous, Mixed Deciduous	Sawtimber Well	32.4	114	81-110	N/A	Looks healthy, little blowdown.																																																			
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77	6112 - Lowland Aspen	Poletimber Medium	9.9	54	51-80	N/A																																																				
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78	122 - Road/Parking Lot	Nonstocked	6.0		Unspecified	No	North Central State Trail																																																			
79	310 - Herbaceous Openland	Nonstocked	6.3			No																																																				
80	4130 - Aspen	Sapling Well	55.8	15	Immature	N/A	Looks good. Well stocked.																																																			
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81	500 - Water	Nonstocked	14.0			No	Sturgeon River																																																			
82	330 - Low-Density Trees	Nonstocked	33.1			No	Haakwood SFC																																																			
83	310 - Herbaceous Openland	Nonstocked	15.1			No																																																				
84	310 - Herbaceous Openland	Nonstocked	7.2			No	Some apple trees present and a few other scattered deciduous trees.																																																			



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
85	6112 - Lowland Aspen	Sawtimber Poor	18.1	65	1-50	N/A	Wet.
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Quaking Aspen		90	Pole/Log	11	65	Balsam Poplar	
Balsam Poplar		5	Pole	8		Black Ash	
Balsam Fir		5	Pole	9		Ninebark	
						Density	
						Avg. Height	
						Size	
86	4110 - Sugar Maple Association	Sawtimber Well	234.9	77	111-140	N/A	Hilly, steep in some areas, variable stocking and quality, though quality tends to be poor in most areas.
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Quaking Aspen		2	Log/Pole	12		Sugar Maple	
Sugar Maple		81	Log/Pole	10	77	Beech	
Basswood		10	Pole/Log	9		Ironwood	
Bigtooth Aspen		5	Log/Pole	12			
Beech		2	Log/Pole	10			
						Density	
						Avg. Height	
						Size	
87	4110 - Sugar Maple Association	Sawtimber Well	48.6	89	141-170	N/A	Most of the beech have scale. Variable diameters, good quality. Leave beech if harvested. BA is 150.
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Sugar Maple		57	Log/Pole	10	89	Sugar Maple	
Basswood		30	Log/Pole	11		Ironwood	
Bigtooth Aspen		2	Log	12		Beech	
Red Pine		10	Log	14			
Beech		1	Log/Pole	10			
						Density	
						Avg. Height	
						Size	
88	4110 - Sugar Maple Association	Poletimber Well	78.4	77	81-110	N/A	Harvest completed in 2014. Some Beech and Ironwood regen. A lot of White Ash regeneration throughout the stand.
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Sugar Maple		81	Pole/Log	9	77	Sugar Maple	
Basswood		10	Pole/Log	9		Beech	
Bigtooth Aspen		5	Log/Pole	12		Ironwood	
Beech		2	Log/Pole	10			
Quaking Aspen		2	Log/Pole	12			
						Density	
						Avg. Height	
						Size	
91	4130 - Aspen	Poletimber Well	12.3	37	81-110	N/A	Good looking regen. Steep in places.
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Quaking Aspen		15	Pole	7	37	Sugar Maple	
Bigtooth Aspen		81	Pole	7	37	Ironwood	
Sugar Maple		4	Pole/Sapling	5		Beech	
						Density	
						Avg. Height	
						Size	