



Compartment Review Presentation

Gaylord Forest Management Unit

Compartment 52046

Entry Year 2021

Acreage: 1,602

County Antrim

Management Area: Jordan Valley

Revision Date: 2019-07-14

Stand Examiner: Zach Crew

Legal Description:

31N 05W Sections 4, 5, 7, 9

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:

Soils belong to the Kalkaska-Montcalm type. They are sandy in nature and are well drained to somewhat excessively drained on hills and ridges.

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

This compartment is one contiguous block of state land with one small landlocked 40 in the SW. There is a small amount of oil and gas development in sections 4 and 5. Hunting, hiking, and snowmobiling are the main public uses.

Unique Natural Features:

None

Archeological, Historical, and Cultural Features:

None

Special Management Designations or Considerations:

Warner Creek passes through Section 7 and is a tributary of the Jordan River.

Watershed and Fisheries Considerations:

This compartment contains portions of Collins Creek and Warner Creek, both within the Jordan River Watershed. Since all streams are part of the Jordan River Natural River zone, Natural River buffers should be applied.

Wildlife Habitat Considerations:

This compartment has some openings that should be maintained for wildlife values and forested areas are primarily northern hardwoods which provide habitat for several featured wildlife species like turkey and deer.

Mineral Resource and Development Concerns and/or Restrictions

Active sand/gravel pits are located within two miles of the compartment to the southeast and northeast, and there is good sand & gravel potential within the compartment. The compartment has been developed for Antrim Shale gas production and nearly all state-owned mineral rights in this area are currently under lease and in production. There is no known metallic mineral potential in this part of the state.

Vehicle Access:

Vehicle access is limited to one small two track from the south off of M 32, and oil and gas lease roads from the north and east off of Metros and Grygier Roads.

Survey Needs:

None

Recreational Facilities and Opportunities:

The north country trail passes through section 9.

Fire Protection:

Fire protection for this area is provided out of the Bellaire Office. The cover types in this area are not commonly affected by large scale fire events. In the event of a wildfire, access would be limited and difficult.

Additional Compartment Information:

The following reports from the Inventory are attached:

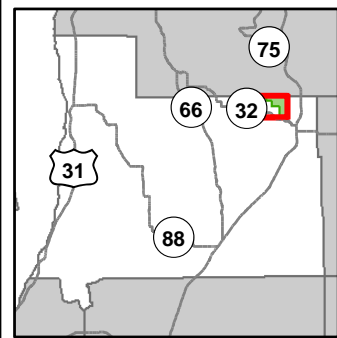
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

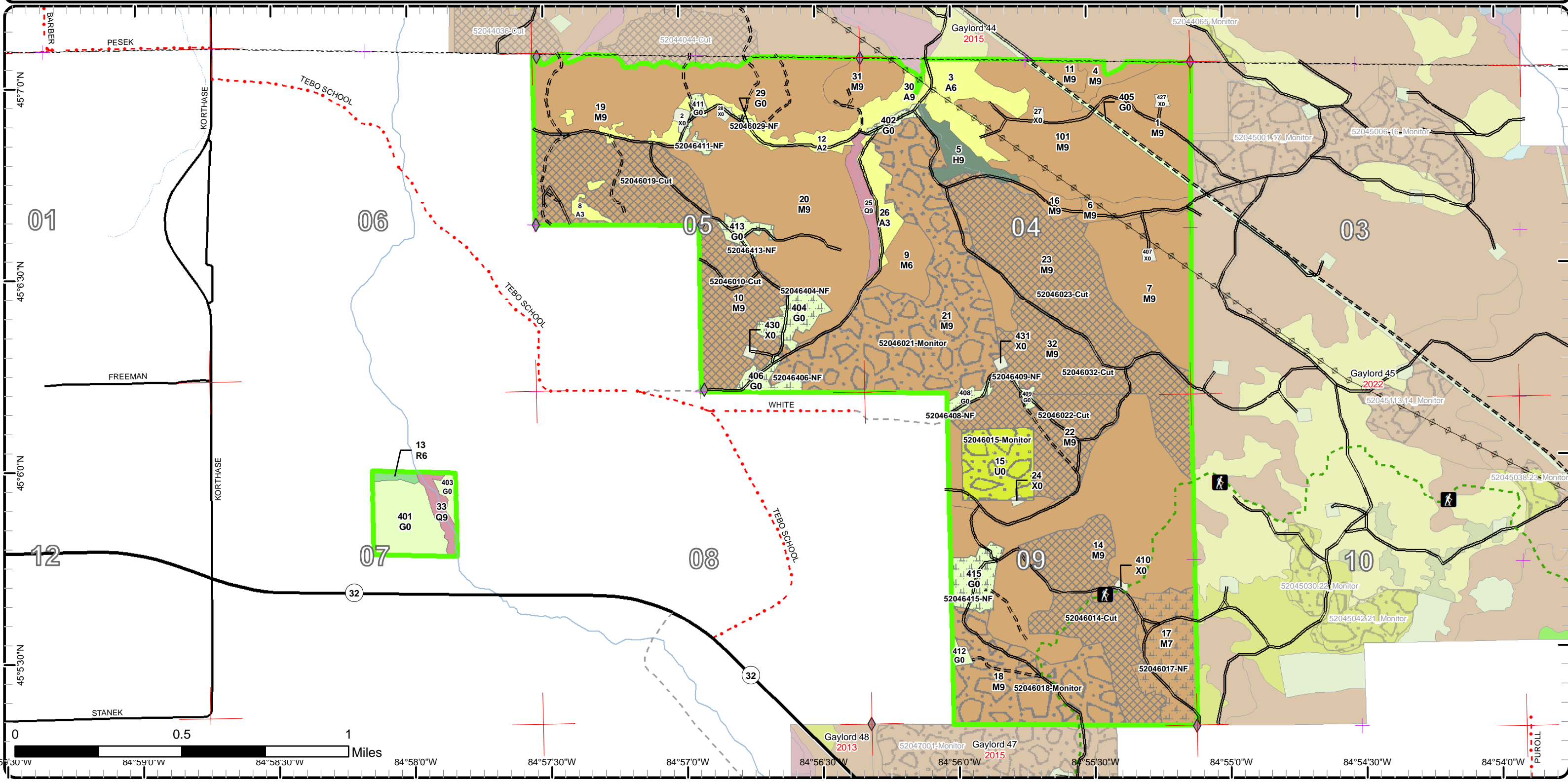
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

Cover Type & Treatments Map

Compartment: 46
 T31N, R05W, Sec. 4, 5, 7, 9
 County: Antrim
 Unit: Gaylord
 Mgmt Area: Jordan Valley
 YOE: 2021
 Acres: 1,602 GIS Calculated
 Examiner: Zach Crew
 Map Revised: 10/8/2019
 Map Phase: Post-Review

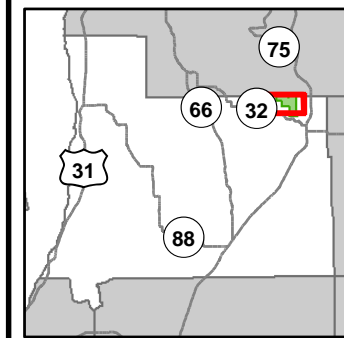


- Miris Corners
- + Remonumented Section Corners
- ◆ Field Grade Corners
- Counties
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Federal / State Highway
- County - Gravel Road
- Private - Dirt / Gravel Road
- 🚶 Hiking Trails
- - - Designated Hiking Trails
- Intermittent Stream
- Perennial River
- Pipeline
- Compartment Boundary
- Other Treatment - See Comments
- Selection (Group, Single Tree)
- Regeneration Survey
- 411 - Northern Hardwood
- 413 - Aspen
- 421 - Planted Pines
- 423 - Other Upland Conifers
- 612 - Lowland Coniferous Forest
- 310 - Herbaceous Openland
- 330 - Low Density Trees
- 790 - Other Bare/Sparsely Vegetated

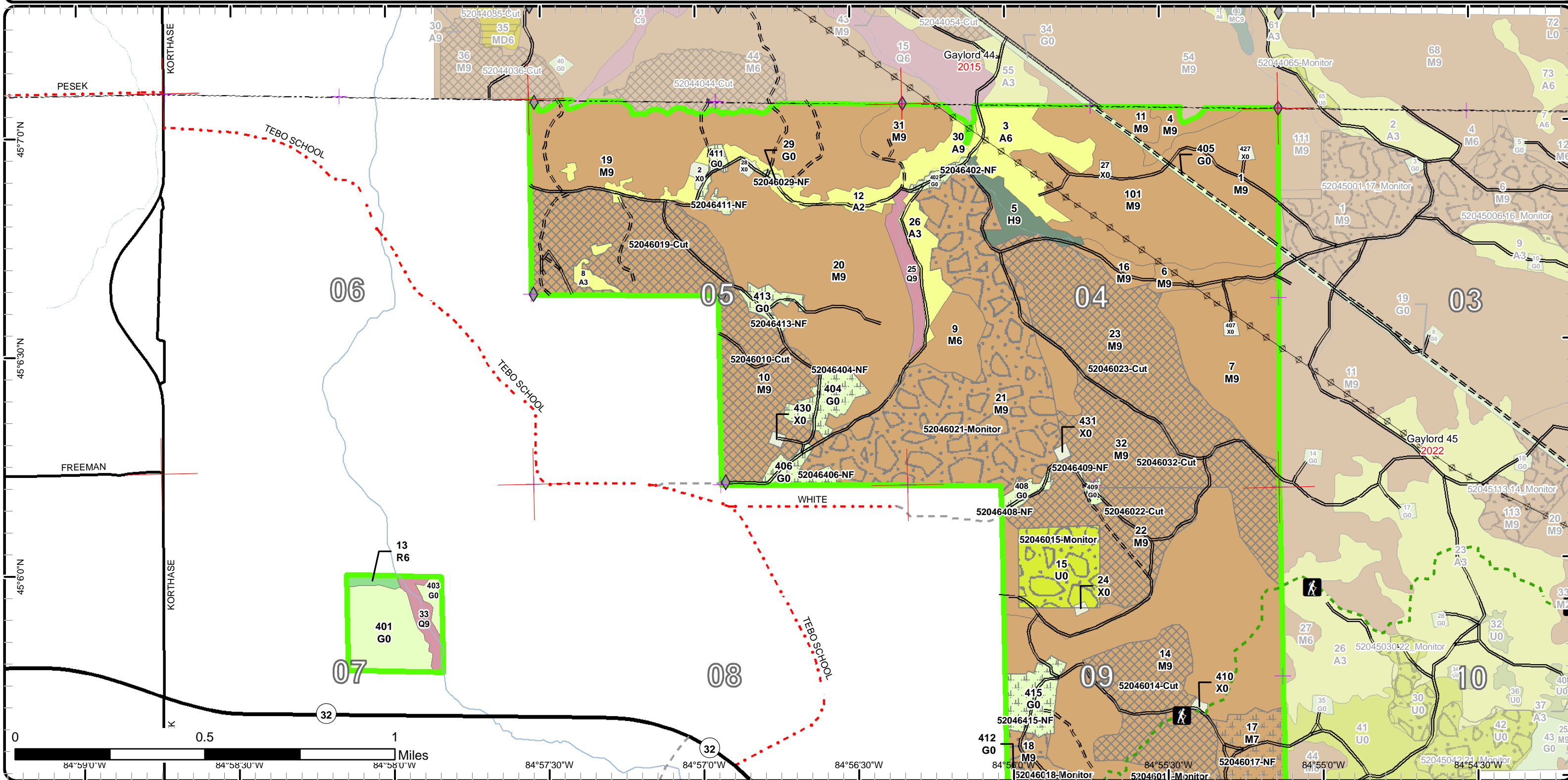


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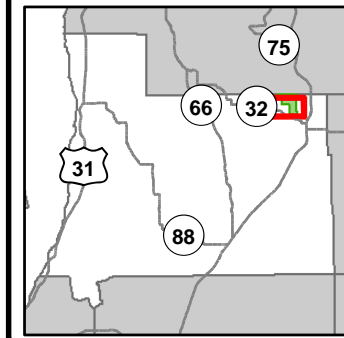


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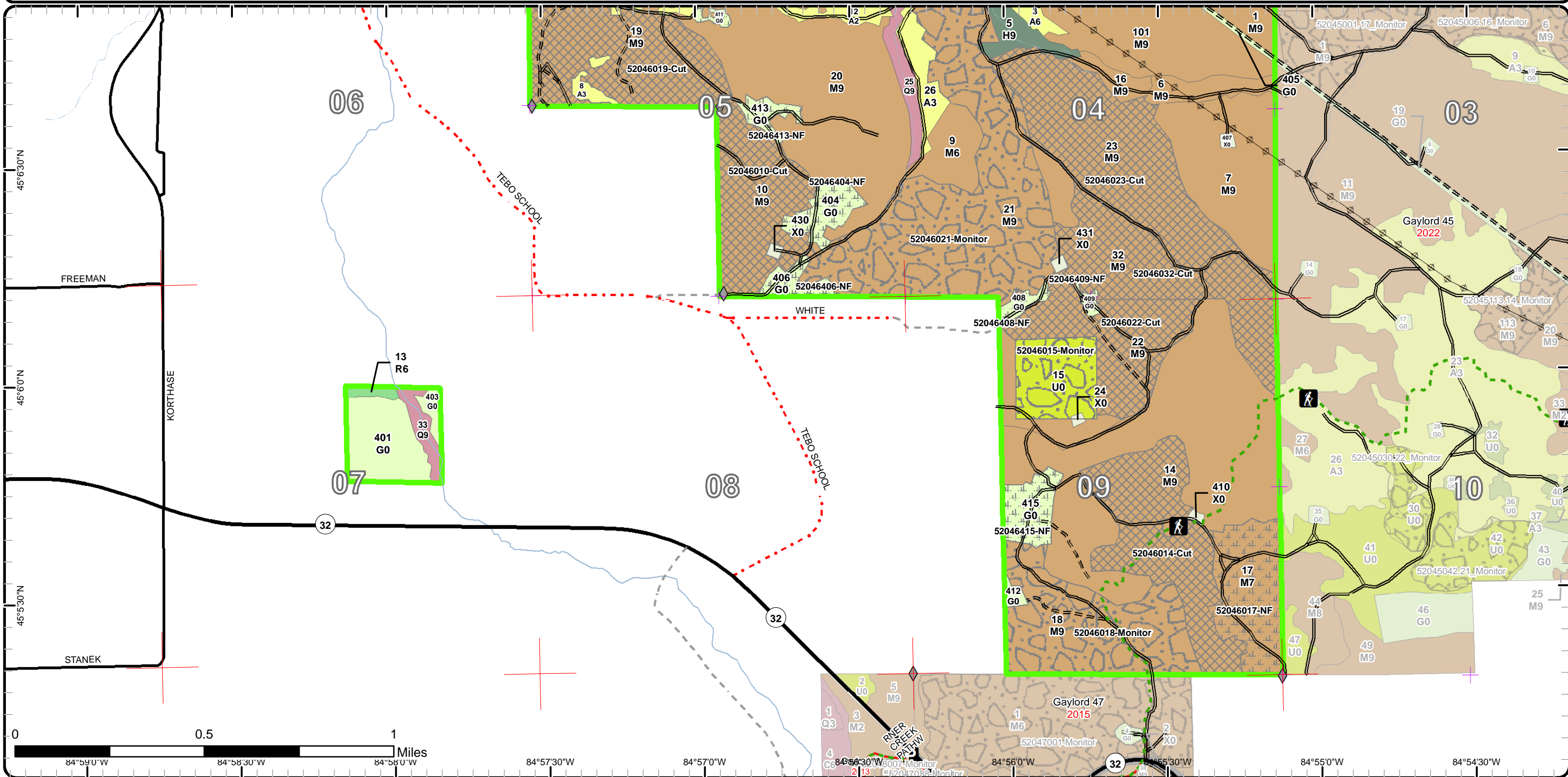


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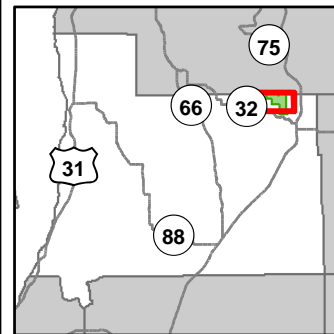


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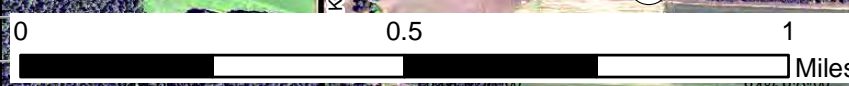
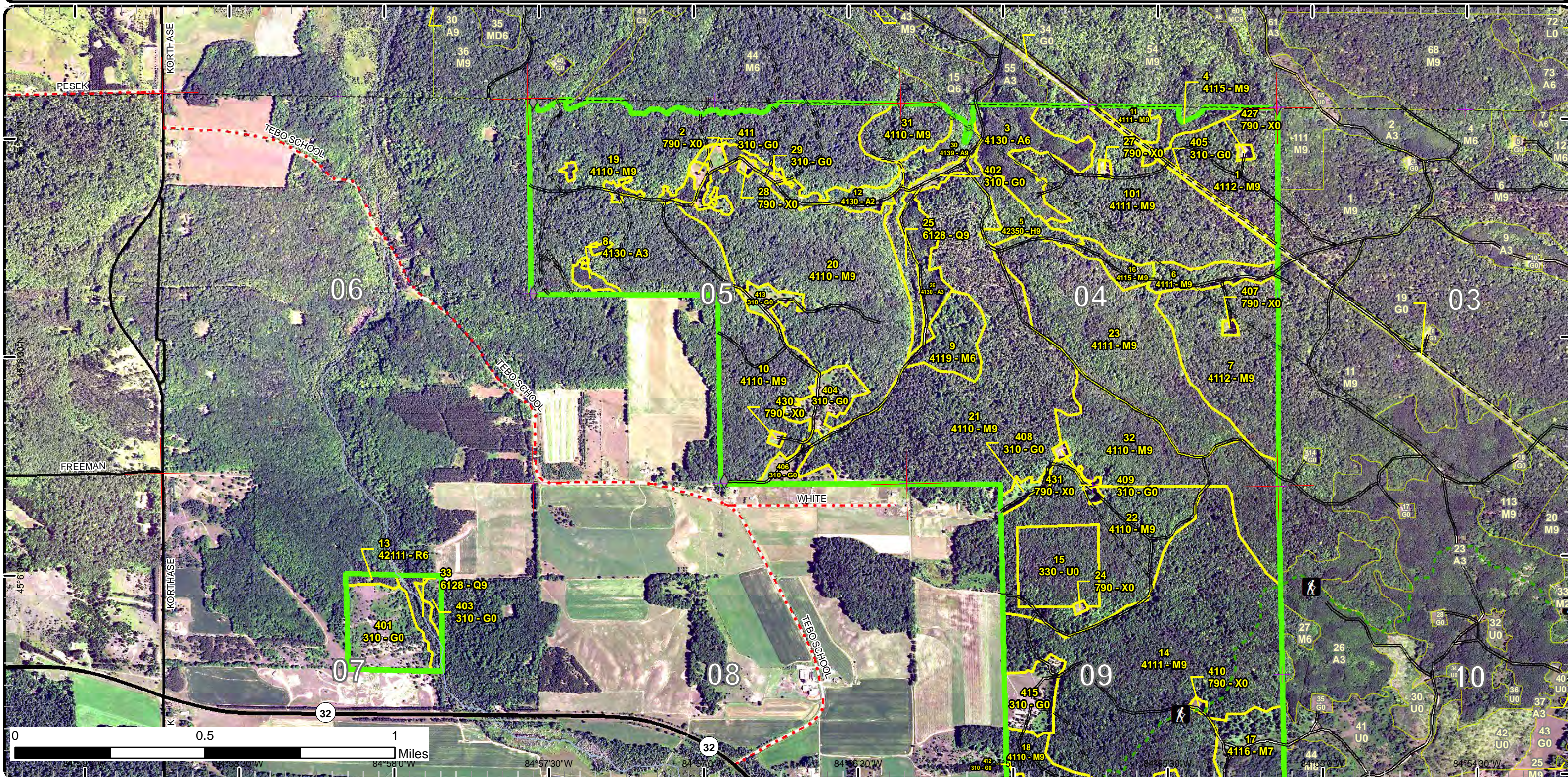


Stand Boundary Map

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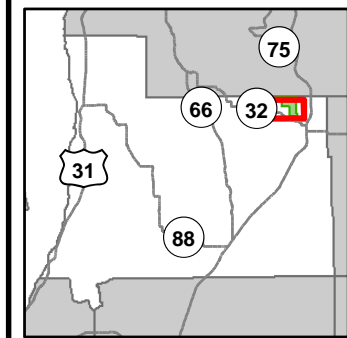
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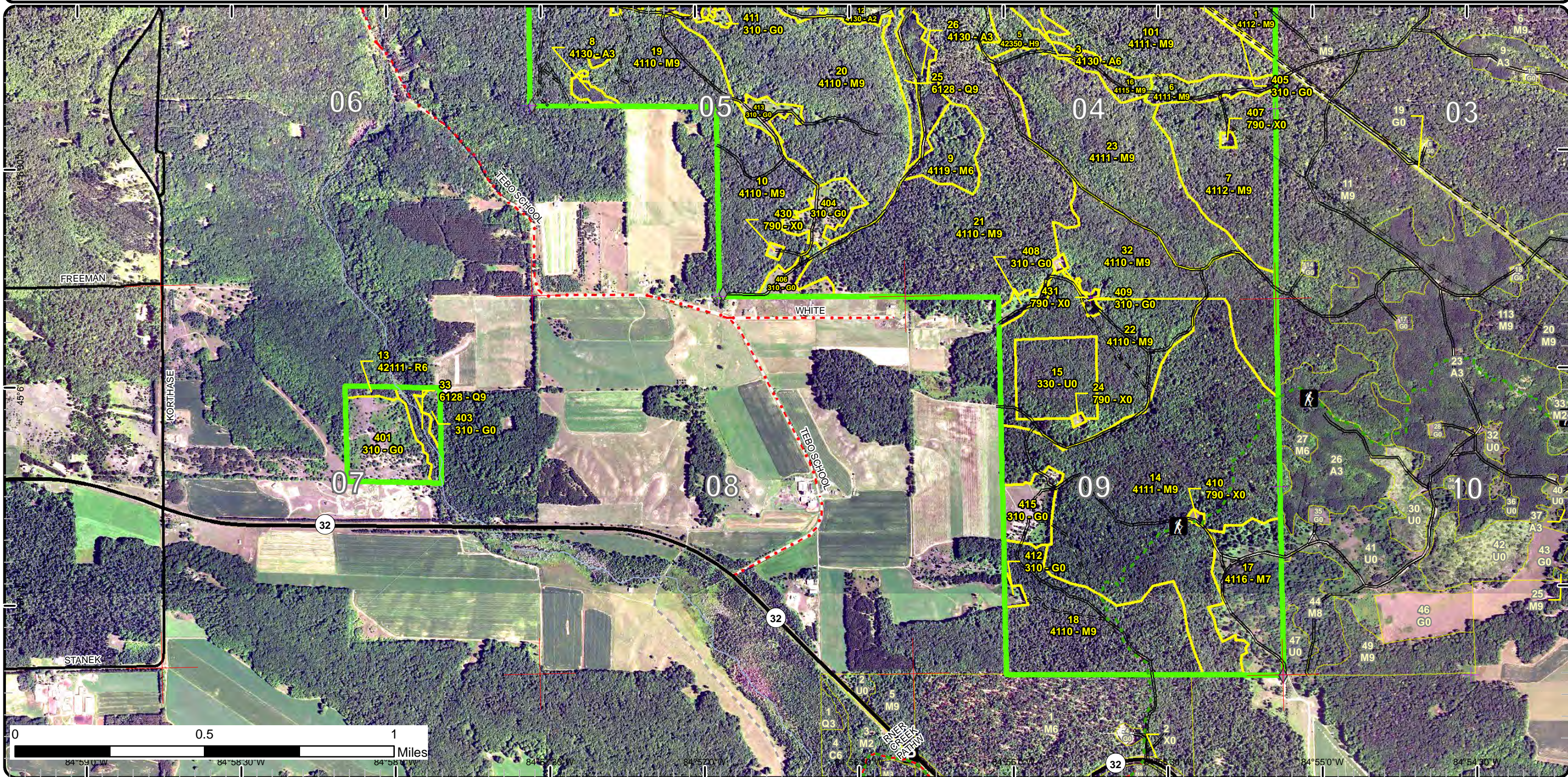
84°58'0"W
84°57'30"W
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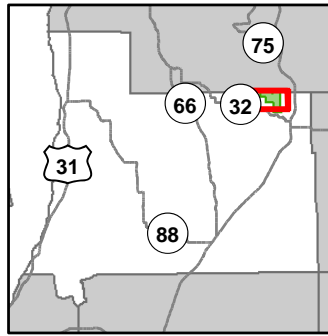


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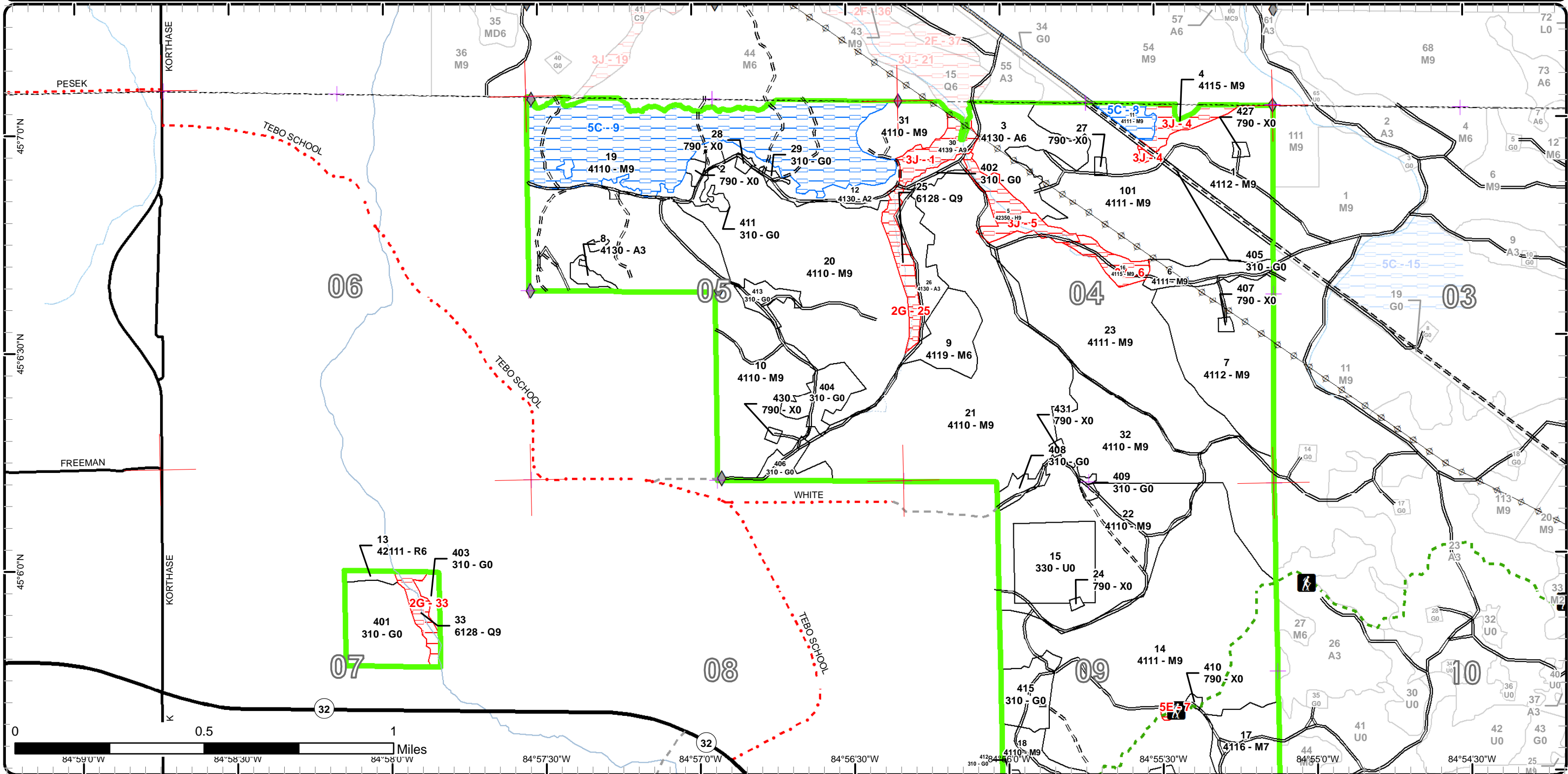


Special Conservation Areas & Site Conditions Map

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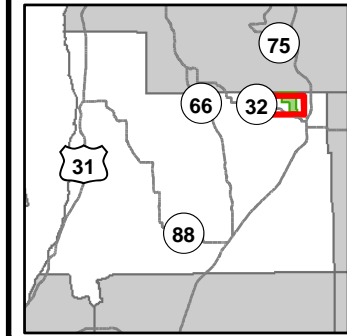


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- Compartment Boundary
- Available w/ Constraints
- Unavailable
- 5C: Delay treatment for age/size class diversity or exceptional site quality
- 2G: Too wet (sensitive soils, does not include access issues)
- 3J: Water quality / BMPs (stream, river,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

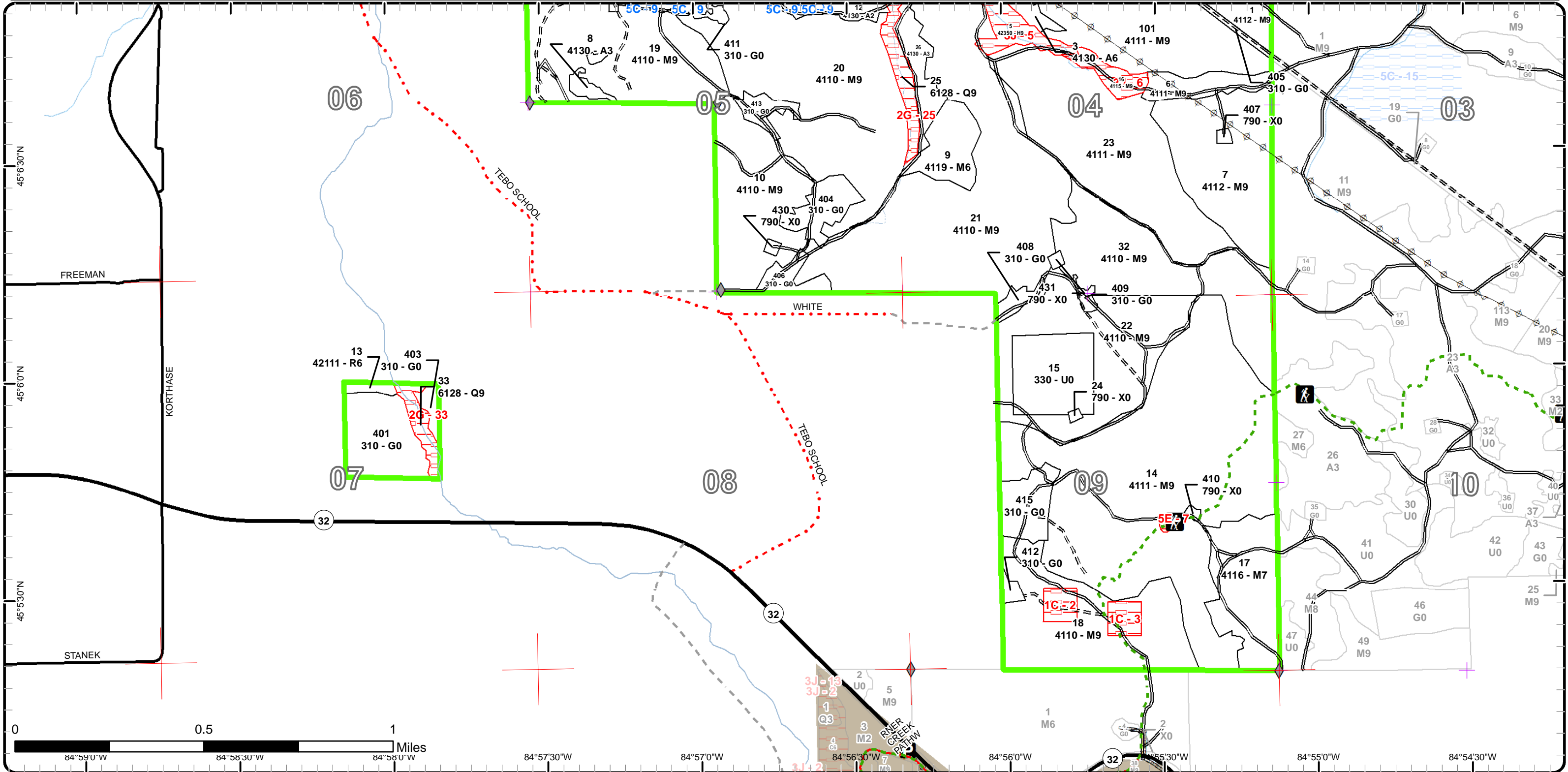


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- Unavailable
- 1C: Other dept or div proc/practices
- 2G: Too wet (sensitive soils, does not include access issues)
- 3J: Water quality / BMPs (stream, river, or lake)
- 5E: Long-Term Retention
- Stand Boundaries
- Dedicated Management Areas
- Cold Water Streams



Report 1 – Total Acres by Cover Type and Age Class



Age Class

	Non-Forest	0-9	10-19	20-29	30-39	40-49	50-59	60-69	70-79	80-89	90-99	100-109	110-119	120-129	130-139	140-149	150+	Uneven-Aged	Total
Aspen	0	0	36	0	30	0	0	0	10	0	0	0	0	0	0	0	0	0	76
Bare/Sparsely Vegetated	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9
Hemlock	0	0	0	0	0	0	0	0	0	13	0	0	0	0	0	0	0	0	13
Herbaceous Openland	93	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	93
Low-Density Trees	29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	29
Lowland Conifers	0	0	0	0	0	0	0	0	7	0	10	0	0	0	0	0	0	0	17
Northern Hardwood	0	0	0	0	0	0	0	53	933	170	0	0	0	0	0	0	0	207	1363
Red Pine	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	2
Total	131	0	36	0	33	0	0	53	950	183	10	0	0	0	0	0	0	207	1602



Report 2 – Treatment Summary

Gaylord Mgt. Unit

Year of Entry: 2021

Acres of Harvest

Compartment 46

Total Compartment Acres: 1,602

Commercial Harvest - 425
 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		0	425	0	0	0	0	0	0	0	425
	Total	0	425	0	0	0	0	0	0	0	425

Proposed and Next Step Treatments by Method

		Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current		425	0	0	0	0	261	0	96		783
Next Step		0	0	0	0	0	425	0	0		425
	Total	425	0	0	0	0	686	0	96		1208



Stand	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
10	52046010-Cut	57.8	4110 - Sugar Maple Association	Sawtimber Well	76	111-140	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven-Aged	Draft Field Boundary

Habitat Cut: No**Site Condition:**

Prescription Mark to cut with a residual BA of 70-90. Establish regen gaps at least 100' feet in diameter at a rate of no less than 1 per 5 acres. Areas of low stocking/quality around stand 430 may be left unmarked. Leave beech in stand due to small amount. Avoid marking through pockets of hemlock. If possible drop a few basswood trees to act as nurse logs where hemlock is prevalent.

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable A mix of desirable northern hardwood species (maple, basswood) that meet minimum stocking requirements.

Regen:

Other

Comment:

Proposed Start Date: 10/1 /2020

14	52046014-Cut	71.4	4111 - S.Maple, Hard Mast Association	Sawtimber Well	74	81-110	Harvest	Single Tree Selection	411 - Northern Hardwood	Even-Aged	Draft Field Boundary
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Habitat Cut: No**Site Condition:**

Prescription Mark to cut with a residual BA 70-90. Establish regen gaps at least 100' in diameter at a rate of at least 1 per 5 acres. Cut everything taller than 6' inside those gaps. Be sure to include specs to protect hiking trail. Avoid marking through pockets of hemlock. If possible drop a few basswood trees to act as nurse logs where hemlock is prevalent.

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable A mix of desirable northern hardwood species (maple, basswood) that meet minimum stocking standards.

Regen:

Other

Comment: Utilize NCT as unit boundary, do not cross trail except on the road, establish 2 separate landings on either side of the NCT to ensure equipment doesn't cross the trail.

Proposed Start Date: 10/1 /2020

15	52046015-Monitor	29.4	330 - Low-Density Trees	Nonstocked	2018		Monitoring	Natural Regen (Intermediate)	411 - Northern Hardwood	Even-Aged	Draft Field Boundary
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Habitat Cut: No**Site Condition:**

Prescription Natural regen checks for the MWR project.

Specs:

Next Step

Treatments:

Acceptable A diverse mix of northern hardwood species.

Regen:

Other

Comment: Percent to Treat = 100%

Proposed Start Date: 10/1 /2018

17	52046017-NF	40.7	4116 - Mixed N. Hardwood - Aspen	Sawtimber Poor	67	1-50	NonForestMgt	Other - Specify	310 - Herbaceous Openland		Draft Field Boundary
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Habitat Cut: No**Site Condition:**

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

Specs:

Next Step

Treatments:

Acceptable

Regen:

Other

Comment:

Proposed Start Date: 10/1 /2020



Stand Name	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
18	52046018-Monitor	75.7	4110 - Sugar Maple Association	Sawtimber Well	74	81-110	Monitoring	Natural Regen (Re-Inventory)	411 - Northern Hardwood	Uneven-Aged	Draft Field Boundary

Habitat Cut: No**Site Condition:**

Prescription Regen survey 2019 YOE.

Specs:

Next Step

Treatments:

Acceptable A mix of desirable hardwood species that meets minimum stocking requirements

Regen:

Other

Comment:

Proposed Start Date: 10/1 /2020

19	52046019-Cut	76.9	4110 - Sugar Maple Association	Sawtimber Well	79	111-140	Harvest	Single Tree Selection	411 - Northern Hardwood	Even-Aged	Draft Field Boundary
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Habitat Cut: No**Site Condition:**

Prescription Mark stand to cut. Target a residual BA 70 - 90 square feet. Remove all beech. Leave 1 beech tree per acre. Establish regen gaps at least 100 feet in diameter at a rate of 1 per 5 acres. Avoid marking through pockets of hemlock. If possible drop a few basswood trees to act as nurse logs where hemlock is prevalent.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

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

Regen:

Other

Comment:

Proposed Start Date: 10/1 /2020

21	52046021-Monitor	155.8	4110 - Sugar Maple Association	Sawtimber Well	83	81-110	Monitoring	Natural Regen (Re-Inventory)	4110 - Sugar Maple Association	Even-Aged	Draft Field Boundary
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Habitat Cut: No**Site Condition:**

Prescription

Specs:

Next Step

Treatments:

Acceptable northern hardwoods not dominated by beech or ash

Regen:

Other Percent to Treat = 100%

Comment:

Proposed Start Date: 12/12/2015

22	52046022-Cut	54.1	4110 - Sugar Maple Association	Sawtimber Well	71	81-110	Harvest	Single Tree Selection	411 - Northern Hardwood	Even-Aged	Draft Field Boundary
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Habitat Cut: No**Site Condition:**

Prescription Mark to cut with a target residual of 70-90 BA. Cut all beech, except mark one beech to leave per acre. Establish regen gaps at least 100 feet in diameter at a rate of no less than 1 per 5 acres. Avoid marking through pockets of hemlock. If possible drop a few basswood trees to act as nurse logs where hemlock is prevalent.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

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

Regen:

Other

Comment:

Proposed Start Date: 10/1 /2020



S t a n d	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
23	52046023-Cut	95.0	4111 - S.Maple, Hard Mast Association	Sawtimber Well	74	111- 140	Harvest	Single Tree Selection	411 - Northern Hardwood	Even-Aged	Draft Field Boundary

Habitat Cut: No**Site Condition:**

Prescription Mark stand to cut. Target a residual BA of 70-90 sq ft. Establish regen gaps 100 feet in diameter at a rate of at least 1 per 5 acres. Remove all ash and beech. Mark 1 beech to leave per 1 acre.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable A mix of northern hardwood species not dominated by beech or ironwood that meets minimum stocking criteria

Regen:

Other

Comment:

Proposed Start Date: 10/1 /2020

29	52046029-NF	1.0	310 - Herbaceous Openland	Nonstocked	2018		NonForestMgt	Other - Specify	310 - Herbaceous Openland		Draft Field Boundary
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Habitat Cut: No**Site Condition:**

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

Specs:

Next Step

Treatments:

Acceptable

Regen:

Other

Comment:

Proposed Start Date: 10/1 /2020

32	52046032-Cut	70.1	4110 - Sugar Maple Association	Sawtimber Well	74	111- 140	Harvest	Single Tree Selection	411 - Northern Hardwood	Even-Aged	Draft Field Boundary
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Habitat Cut: No**Site Condition:**

Prescription Mark stand to cut. Target a residual BA of 70-90 sq ft. Establish regen gaps at least 100 ft in diameter at a rate of 1 per 5 acres. Cut all beech

Specs: and ash. Mark 1 beech tree to leave per acre.

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

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

Regen:

Other

Comment:

Proposed Start Date: 10/1 /2020

402	52046402-NF	3.5	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 soft mast.

Specs:

Next Step

Treatments:

Acceptable

Regen:

Other

Comment:

Proposed Start Date: 10/1 /2020



S t a n d	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
404	52046404-NF	12.5	310 - Herbaceous Openland	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 soft mast.

Specs:

Next Step

Treatments:

Acceptable

Regen:

Other

Comment:

Proposed Start Date: 10/1 /2020

406	52046406-NF	7.2	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 soft mast.

Specs:

Next Step

Treatments:

Acceptable

Regen:

Other

Comment:

Proposed Start Date: 10/1 /2020

408	52046408-NF	4.1	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 soft mast.

Specs:

Next Step

Treatments:

Acceptable

Regen:

Other

Comment:

Proposed Start Date: 10/1 /2020

409	52046409-NF	1.8	310 - Herbaceous Openland	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 soft mast.

Specs:

Next Step

Treatments:

Acceptable

Regen:

Other

Comment:

Proposed Start Date: 10/1 /2020



S t a n d	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
411	52046411-NF	4.7	310 - Herbaceous Openland	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 soft mast.

Specs:

Next Step

Treatments:

Acceptable

Regen:

Other

Comment:

Proposed Start Date: 10/1 /2020

413	52046413-NF	5.9	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 soft mast.

Specs:

Next Step

Treatments:

Acceptable

Regen:

Other

Comment:

Proposed Start Date: 10/1 /2020

415	52046415-NF	14.9	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 soft mast.

Specs:

Next Step

Treatments:

Acceptable

Regen:

Other

Comment:

Proposed Start Date: 10/1 /2020

**Total Treatment
Acreage Proposed: 782.5**

Report 4 – Site Conditions

Gaylord Mgt. Unit
Zach Crew : Examiner

Compartment: 46
Year of Entry: 2021

Availability for Management

Total Acres	Acres Available	Acres Available With Condition	Acres Not Available
75	65	0	10

Dominant Site Conditions

	Total Acres	Acres Available	Acres Available With Condition	Acres Not Available	Dominant Site Conditions				
					5C	1C	2G	3J	5E
75	65	0	10	Aspen			0	10	
8	8	0	0	Bare/Sparsely Vegetated					
13	0	0	13	Hemlock				13	
94	94	0	0	Herbaceous Openland			0	0	
29	29	0	0	Low-Density Trees					
17	0	0	17	Lowland Conifers			17	0	
1363	1218	118	27	Northern Hardwood	118	10	0	16	1
2	2	0	0	Red Pine			0		
1,602	1,416	118	67	Total Forested Acres	118	10	17	39	1
	88%	7%	4%	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)	10	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Stand basically constitutes the slopes on either side of the creek before it flows into a wetland, leave uncut as a buffer to prevent any erosion into creek.							
2	Unavailable	1C: Other dept or div proc/practices	5	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Walters Research Project: Long-term beech regeneration monitoring, up to 20 years (through 2039)							
3	Unavailable	1C: Other dept or div proc/practices	5	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Walters Research Project: Long-term beech regeneration monitoring, up to 20 years (through 2039)							

Report 4 – Site Conditions

Gaylord Mgt. Unit
Zach Crew : Examiner

Compartment: 46
Year of Entry: 2021

4	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	9	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
5	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	13	2G: Too wet (sensitive soils, does not include access issues)	Unspecified	Unspecified	Unspecified
Comments:							
6	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	7	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
7	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Grove of nice hemlock							
8	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	6	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Stand should be held until adjacent stands are harvested (either 54 or 101).							
9	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	113	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Portion of stand with better stocking and form designated for treatment this YOE.							

Report 4 – Site Conditions

Gaylord Mgt. Unit
Zach Crew : Examiner

Compartment: 46
Year of Entry: 2021

25	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	10	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
Comments:							
33	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	7	3J: Water quality / BMPs (stream, river, or lake)	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
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.
HCVA	Dedicated Management Areas	Such areas are dedicated by the DNR Director for specific management uses through the promulgation of rules, as governed by Part 5, Department of Natural Resources, of the NREPA (MCL 324.502(2) and 324.504). Section 38 of the Administrative Procedures Act (MCL 24.238) provides for public requests for the promulgation of rules. This is an active program, with one proposed site currently under review by the DNR.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																
1	4112 - Maple, Beech, Cherry Association	Sawtimber Well	39.0	78	81-110	N/A	Average BA ~ 91 from 6 plots. Lots of clumps, very few single stems. Beech understory. Harvested 2005.																																																
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2	790 - Other Bare/Sparsely Vegetated	Nonstocked	1.5		Unspecified	Managed Opening	Oil/gas facility.																																																
3	4130 - Aspen	Poletimber Well	29.6	34	1-50	N/A																																																	
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4	4115 - Y.Birch, Hemlock NH	Sawtimber Well	8.6	77	81-110	N/A																																																	
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5	42350 - Upland Hemlock	Sawtimber Well	13.2	88	111-140	N/A	Multiple braided streams. Hemlock red maple and yellow birch dominate. pockets of cattails in lower spots but no other lowland species																																																
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6	4111 - S.Maple, Hard Mast Association	Sawtimber Well	12.0	68	1-50	N/A	Looks to be numerous open grown trees, canopy finally starting to come together. Most of the opening have filled in with beech and ironwood brush, a few isolated black cherry saplings around the areas still open. Previous comments mentioned leaving stand as/promoting a wildlife opening, probably a good use of this area.																																																
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7	4112 - Maple, Beech, Cherry Association	Sawtimber Well	62.4	74	81-110	N/A	fully stocked under story of beech and ironwood, no other species noted. Harvested 2005.																																														
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8	4130 - Aspen	Sapling Well	8.8	14	Immature	N/A	Small aspen cut delineated when surrounding hardwood was previously treated. Multiple pockets of aspen regen spread throughout the harvest, areas where beech and ironwood dominated canopy, typically on the edges of the cuts.																																														
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9	4119 - Mixed Northern Hardwoods	Poletimber Well	18.0	69	51-80	N/A	Lots of ironwood poles. Multi stemmed red maple and basswood dominate overstory, some low quality sugar maple and black cherry stems.																																														
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10	4110 - Sugar Maple Association	Sawtimber Well	57.8	76	111-140	N/A	Last time harvested was 1995. Good quality saw logs throughout sale, low quality timber centered around gas well in the SW. BA ~ 129 from 7 plots.																																														
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11	4111 - S.Maple, Hard Mast Association	Sawtimber Well	5.9	81	111-140	N/A	Decent north facing knob of log sized saw timber, red maple and birch mostly found along the east side of the stand towards the seeps and draws in stand 4.																																														
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12	4130 - Aspen	Sapling Medium	13.6	13	Immature	N/A	Stand harvested in 2005. Some open areas still. Quaking aspen responded well to harvest and the clones spread.																																																						
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13	42111 - Planted Red Pine, Mixed Deciduous	Poletimber Well	2.5	35	51-80	N/A	According to previous comments, may have been a trespass from the adjacent landowner that resulted in this stand. No other notes on the trespass were found. Pine is planted along very steep slopes and draws making it unmanageable. Age was estimated as no planting records were found.																																																						
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14	4111 - S.Maple, Hard Mast Association	Sawtimber Well	216.7	74	81-110	N/A	Central and SE portions of stand contain the best timber with good stocking. Not sure why the other portions of the stand are such low quality. Outside of the central and SE portions, stand is open grown, stems have poor form, and beech and ironwood dominate the understory. Basswood found within the higher quality portion of the stands, red maple and aspen generally found in lower quality areas.																																																						
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15	330 - Low-Density Trees	Nonstocked	29.0	2018		411 - Northern Hardwood	Broken out of stand 22 as part of the MWR project. 6-8 trees per acre were left as a seed source (5-7% canopy closure). Tops 9 inches and less were left scattered on site.																																																						
16	4115 - Y.Birch, Hemlock NH	Sawtimber Well	7.3	74	81-110	N/A	Numerous seeps and draws coming out of the slopes and then braiding together and flowing NW into stand 5.																																																						
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17	4116 - Mixed N. Hardwood - Aspen	Sawtimber Poor	40.7	67	1-50	N/A	Areas of understory dominated by pockets of witch hazel. Poorly formed trees open grown stems throughout. Some of the aspen clones consist of small pole sized aspen that is already in decline.																																																						
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19	4110 - Sugar Maple Association	Sawtimber Well	189.4	79	111-140	N/A	Large diameter timber throughout stand. Stocking is patchy. Heavy beech and ironwood understory. Pockets of hemlock. Average BA from 14 plots ~121. BA Swings = 150, 120, 70, 130, 170, 90, 150, 130, 80, 120, 140, 160, 70, 120																																										
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20	4110 - Sugar Maple Association	Sawtimber Well	124.6	77	81-110	N/A	Last cut in 1995. Poor quality stand lots of clumps and defect. Occasional Hem, BC, YB, RM, located along east boundary of stand. Heavy beech understory. E and SE portions of stand look to have been not harvested as part of the 95 harvest. Better quality timber in the E and SE also.																																										
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21	4110 - Sugar Maple Association	Sawtimber Well	164.1	83	81-110	N/A	Treatment completed 2015. Not much development in the understory yet. Good quality stems left, should be a nice saw timber stand in 15 to 20 years.																																										
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22	4110 - Sugar Maple Association	Sawtimber Well	68.7	71	81-110	N/A	Decent quality hardwood stems. Last harvested around 1995.																																										
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23	4111 - S.Maple, Hard Mast Association	Sawtimber Well	95.0	74	111-140	N/A	Right on the edge of pole/sawtimber. scattered ash mortality.																																										
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24	790 - Other Bare/Sparsely Vegetated	Nonstocked	0.6	2018		No	Gas well																																										



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25	6128 - Lowland Coniferous, Mixed Deciduous	Sawtimber Well	9.7	98	81-110	N/A	Open spots contain cattails. Stand surrounds stream flowing north into Kondrat swamp. Too wet to cut also stand serves as an effective RMZ																																																						
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26	4130 - Aspen	Sapling Well	12.9	13	Immature	N/A	Aspen has regenerated well, a few scattered cedar left during the cut, elm was left as well but it has fallen over.																																																						
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27	790 - Other Bare/Sparsely Vegetated	Nonstocked	0.9	2018		No	Previously not mapped, not sure when opening was established. Gas/oil facility pad.																																																						
28	790 - Other Bare/Sparsely Vegetated	Nonstocked	1.1	2018		No	Oil/gas facility.																																																						
29	310 - Herbaceous Openland	Nonstocked	1.0	2018		No	Grassy opening.																																																						
30	4139 - Aspen, Mixed Deciduous	Sawtimber Well	10.2	74	81-110	N/A	Sparse timber along the west end transitions to a fully stocked stand that slopes down towards a creek in the south.																																																						
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31	4110 - Sugar Maple Association	Sawtimber Well	17.7	77	81-110	N/A	Broken out of stand 19. Treated at the same time but hasn't responded to thinning, poorer site quality perhaps, understory dominated by a lot more ironwood and beech, and trees seem to be smaller and growth rates far slower from age cores.																																																						
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32	4110 - Sugar Maple Association	Sawtimber Well	70.1	74	111-140	N/A	Under story stocking is very sporadic for beech and ironwood. Decent quality single stems throughout stand. Mainly a north facing slope. Lower quality and heavier beech stocking is found in the NW corner of the stand.																																																						
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33	6128 - Lowland Coniferous, Mixed Deciduous	Sawtimber Well	7.0	71	81-110	N/A	Warner creek runs through this stand, edges are steep slopes that are predominately aspen, as you get down into the flood plain there is a mix of tamarack, cedar, and white pine mostly.																																				
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101	4111 - S.Maple, Hard Mast Association	Sawtimber Well	89.4	71	81-110	N/A	Harvested 2005. North side of stand except for small portion in the NW corner similar to stand 1, lots of clumps, very little single stems. Quality in stems improves south of the gas well road. SW boundary of stand slopes down to a number of seeps and draws that flow south down the hill and then down a draw to the NW through stand 5. Average BA ~ 94 from 11 plots. A few knobs and north facing slopes fully stocked with BA's in excess of 120, but exist in isolated pockets.																																				
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401	310 - Herbaceous Openland	Nonstocked	27.0		Unspecified	No	Survey monument in SW corner. NE corner has a steep slope down to the creek. Some cherry, occasional maple, a couple of elm, occasional white pine and a patch of sumac all scattered across the stand.																																				
402	310 - Herbaceous Openland	Nonstocked	3.5		Unspecified	No																																					
403	310 - Herbaceous Openland	Nonstocked	3.5		Unspecified	No	Scattered open grown cherry and white pine; almost a U type. Much of the open area is bracken. Warner Creek separates it from the rest of the parcel.																																				
404	310 - Herbaceous Openland	Nonstocked	12.5		Unspecified	Managed Opening																																					
405	310 - Herbaceous Openland	Nonstocked	5.4			No	Powerline ROW.																																				
406	310 - Herbaceous Openland	Nonstocked	7.2		Unspecified	No																																					
407	790 - Other Bare/Sparsely Vegetated	Nonstocked	0.9		Unspecified	No	Well Site																																				
408	310 - Herbaceous Openland	Nonstocked	4.1		Unspecified	Managed Opening																																					
409	310 - Herbaceous Openland	Nonstocked	1.8		Unspecified	No																																					
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411	310 - Herbaceous Openland	Nonstocked	4.7		Unspecified	Managed Opening	
412	310 - Herbaceous Openland	Nonstocked	2.1		Unspecified	No	Open field
413	310 - Herbaceous Openland	Nonstocked	5.9		Unspecified	Managed Opening	
415	310 - Herbaceous Openland	Nonstocked	14.9		Unspecified	No	
427	790 - Other Bare/Sparsely Vegetated	Nonstocked	1.0		Unspecified	No	Well Site
430	790 - Other Bare/Sparsely Vegetated	Nonstocked	0.8		Unspecified	No	Well Site
431	790 - Other Bare/Sparsely Vegetated	Nonstocked	0.9		Unspecified	No	OPIC - FMD: 1999: a well site.