



# Compartment Review Presentation

Gaylord Forest Management Unit

Compartment 52033

Entry Year 2022

Acreage: 1,908

County Otsego

Management Area: Jordan Valley

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**Revision Date:** 2020-03-08

**Stand Examiner:** Zach Crew

**Legal Description:**

T31N R04W Sec. 5, 6 and 7

**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:**

This compartment's topography ranges from flat on the east half to rolling hills and steep slopes to the west. Dominant upland soil types include East Lake sand, Rubicon sand, Leelanau loamy sand and Mancelona Loamy sand. The better quality soils are well drained and moderately permeable, occurring on moraines. The remaining upland soils are somewhat excessively drained, dominating outwash plains and moraines. We areas are rare in this compartment. The few that occur are very poorly drained Lupton Muck.

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

This compartment is solid State ownership, with another large block of State land to the west. Surrounding private ownership varies in parcel size with heavy agricultural emphasis. Gas development is common in this area.

**Unique Natural Features:**

The South Branch of the Boyne River is located in the SW corner of the compartment.

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

None known.

**Special Management Designations or Considerations:**

The South Branch of the Boyne River is a cold water trout stream.

**Watershed and Fisheries Considerations:**

This compartment is in the Boyne River watershed, near the South Branch of the Boyne River's headwaters. No treatments appear to be directly adjacent to surface waters.

**Wildlife Habitat Considerations:**

Northern hardwoods make up the majority of this compartment which provides habitats for a variety of wildlife species that provide recreation opportunities in the form of hunting and birding.

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

Active sand/gravel pits are not located just over one mile to the west, and there is good sand & gravel potential within the compartment. The compartment has been developed for Antrim Shale gas production and all state-owned mineral rights in the compartment are currently under lease and in production. There is currently low potential for any additional oil & gas development in this area in the near future. There is no known metallic mineral potential in this part of the state.

**Vehicle Access:**

Access is good throughout the compartment, there are plenty of main year round county roads, as well as gas well roads.

**Survey Needs:**

None

**Recreational Facilities and Opportunities:**

This compartment contains portions of the Michigan Cross Country Cycle Trail (MCCCT) and Chandler Hills Snowmobile Trail.

**Fire Protection:**

Fire protection for this area is provided out of the Gaylord Field Office. Forest types in this area do not lend themselves to

large scale fire events.

**Additional Compartment Information:**

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

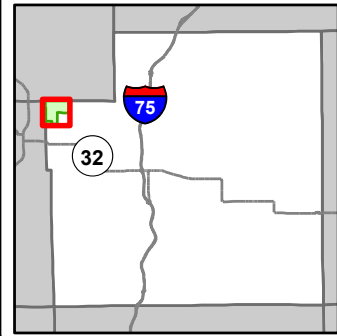
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

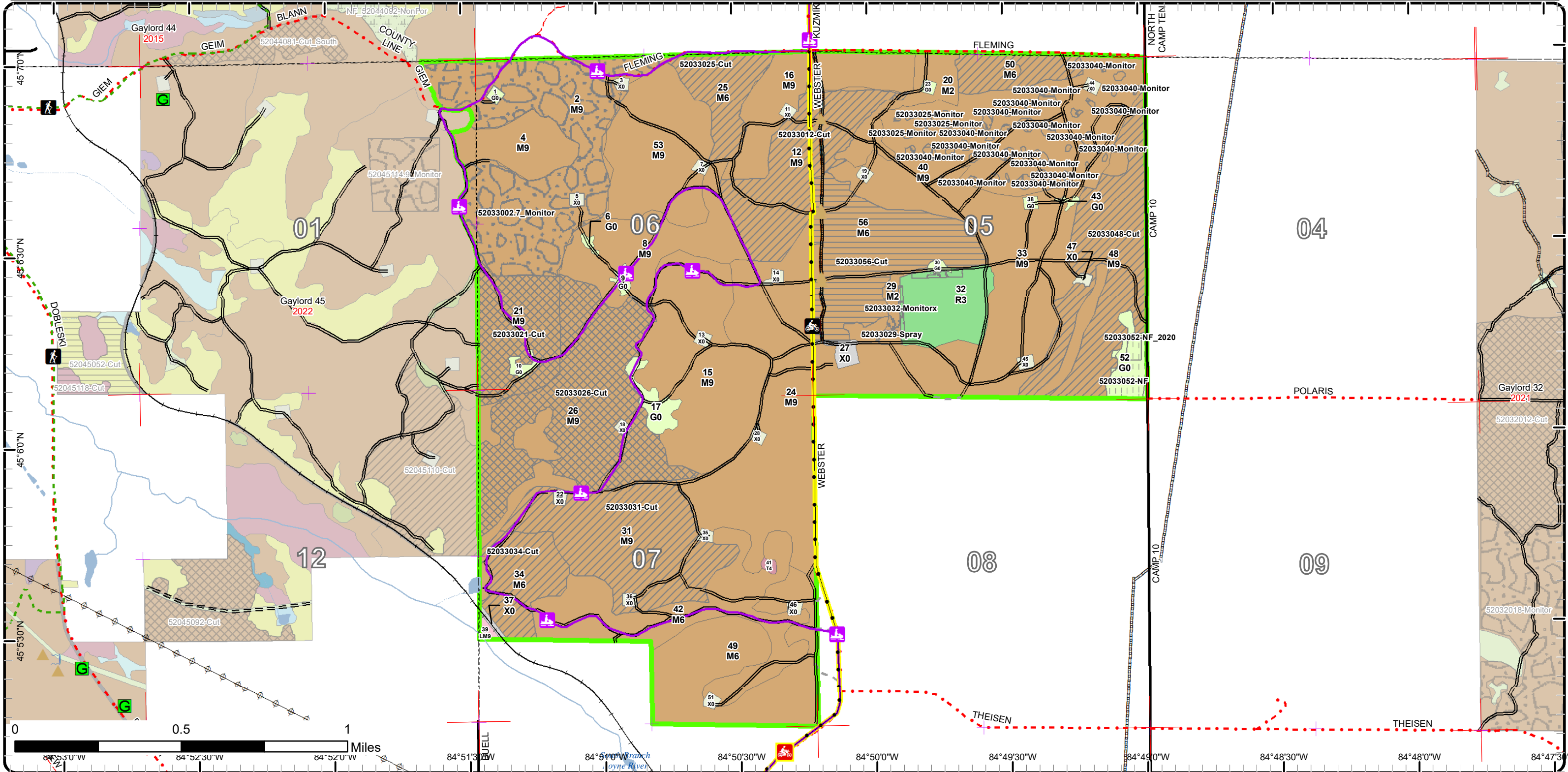
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

# Cover Type & Treatments Map

Compartment: 33  
 T31N, R04W, Sec. 5-7  
 T31N, R05W, Sec. 1  
 County: Otsego  
 Unit: Gaylord  
 Mgmt Area: Jordan Valley  
 YOE: 2022  
 Acres: 1,908 GIS Calculated  
 Examiner: Zach Crew  
 Map Revised: 11/20/2020  
 Map Phase: Post-Review

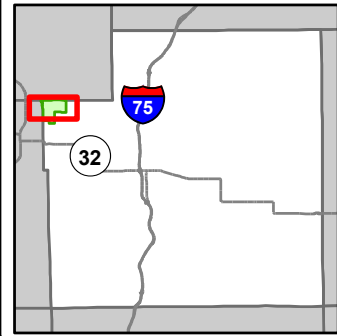


- Miris Corners
- + Remonumented Section Corners
- Counties
- DNR - Secondary Forest Road
- Federal / State / County - Paved Road
- Federal / State - Dirt / Gravel Road
- County - Gravel Road
- County - Dirt Road (Seasonal)
- Private - Dirt / Gravel Road
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- ORV License & Trail Permit
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- Pipeline
- Powerline
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- Pesticide
- Selection (Group, Single Tree)
- Clearcut (w/Reserves)
- Thinning (Crown, Low, Systematic)
- Regeneration Survey
- Opening Maintenance
- 411 - Northern Hardwood
- 421 - Planted Pines
- 612 - Lowland Coniferous Forest
- 613 - Lowland Mixed Forest
- 110 - Low Intensity Urban
- 310 - Herbaceous Openland
- 790 - Other Bare/Sparingly Vegetated

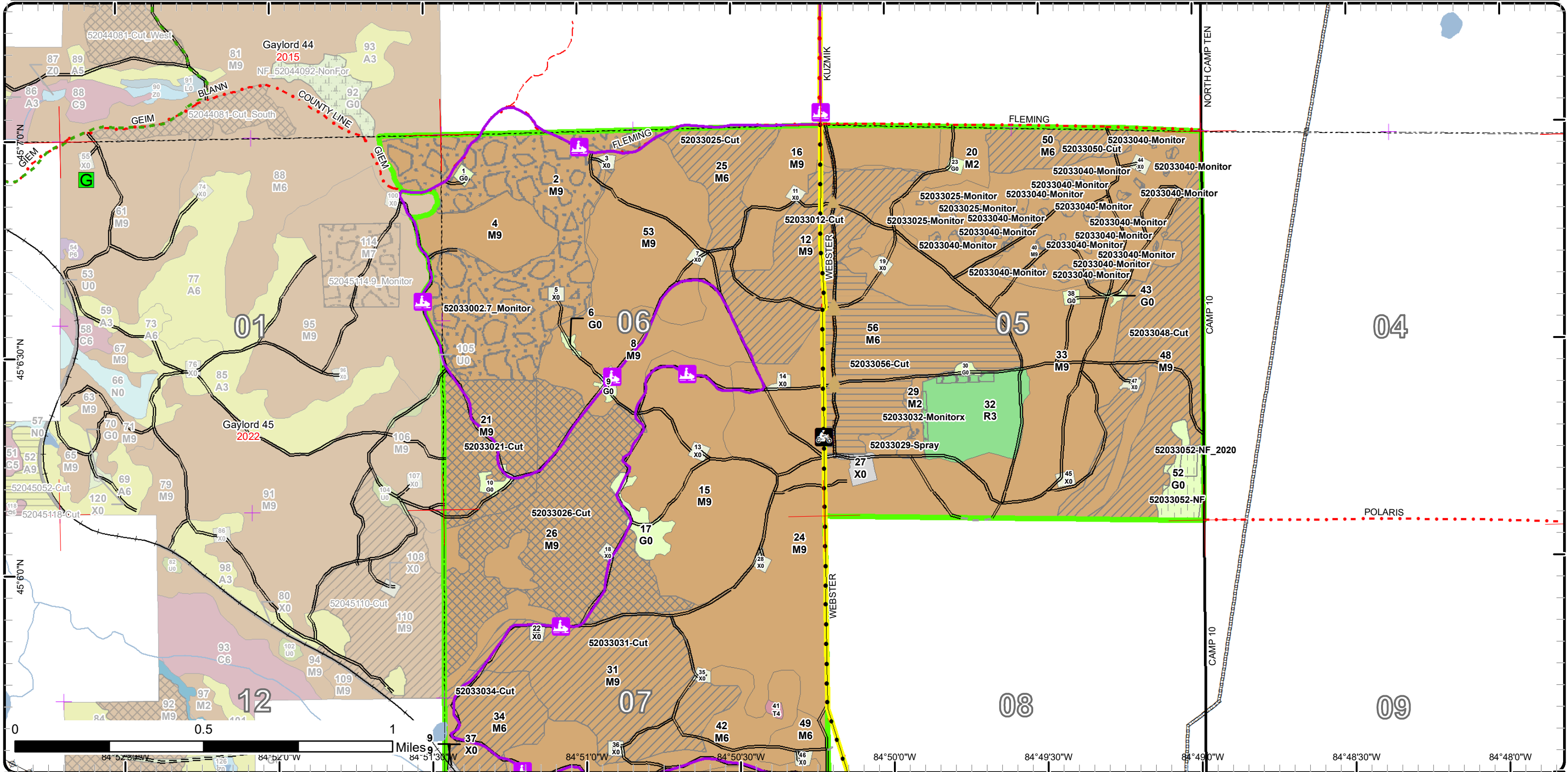


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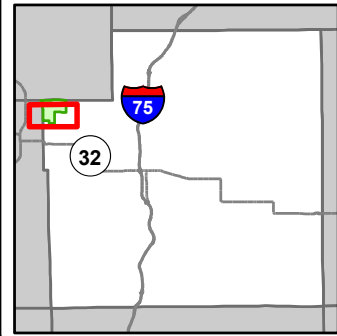


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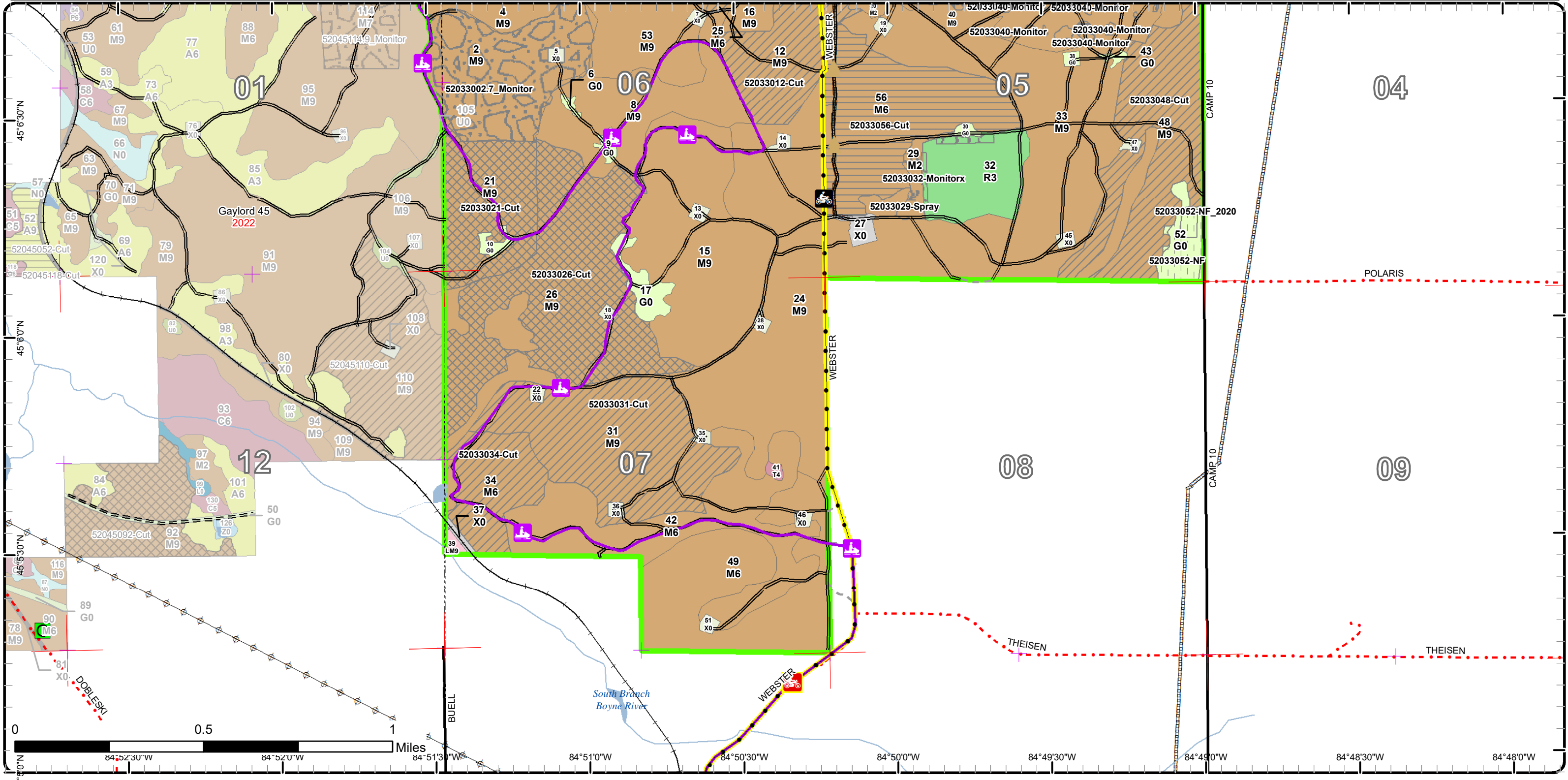


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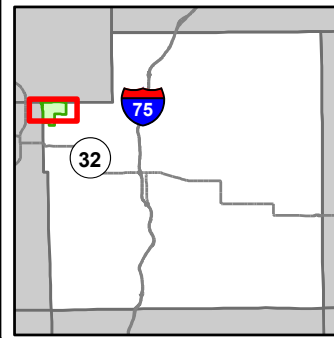
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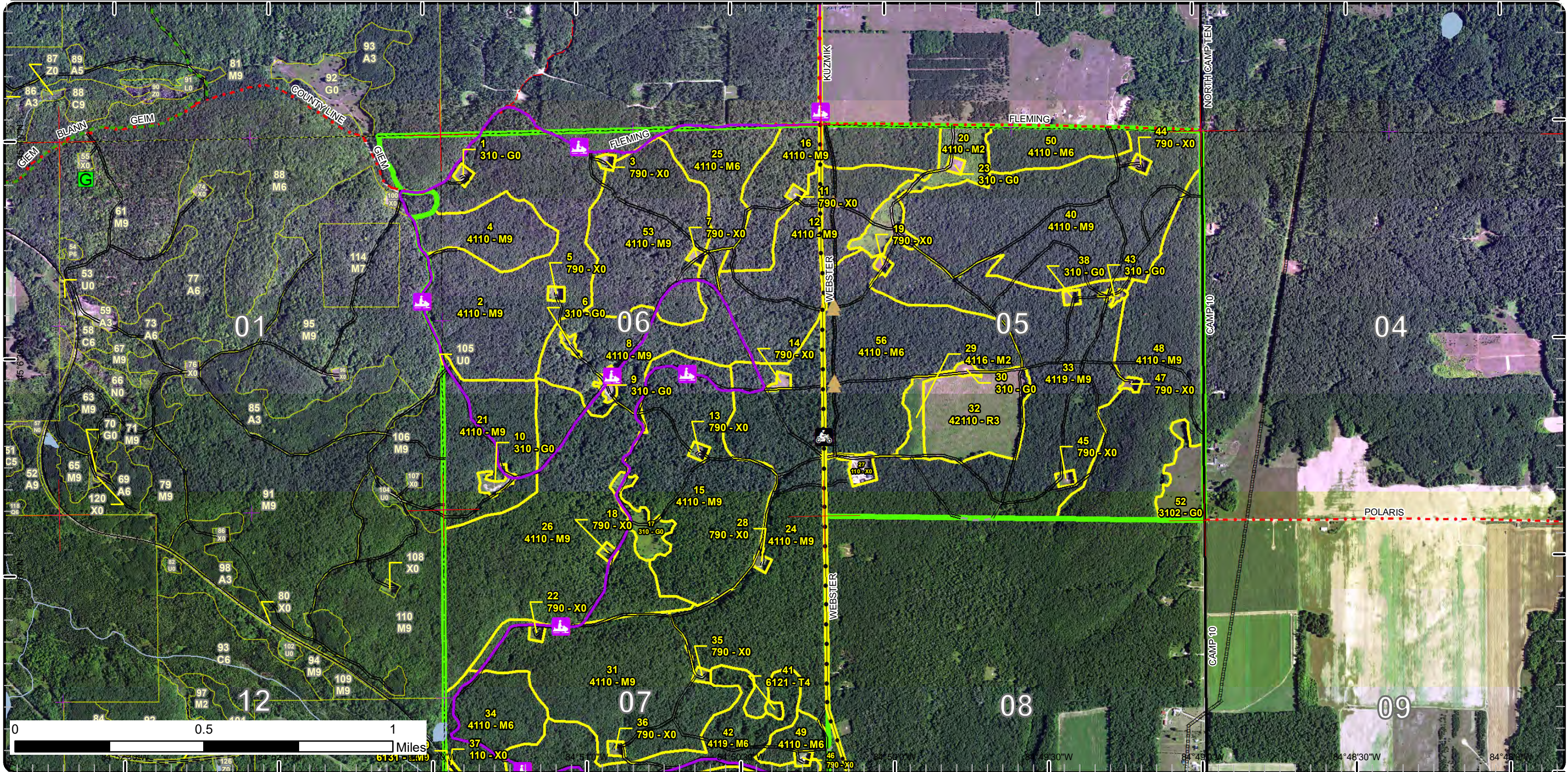
# Stand Boundary Map



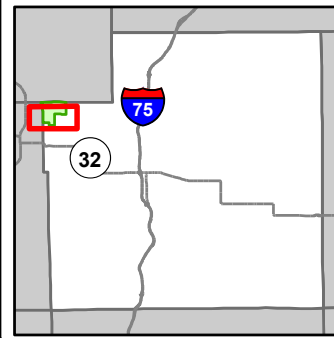
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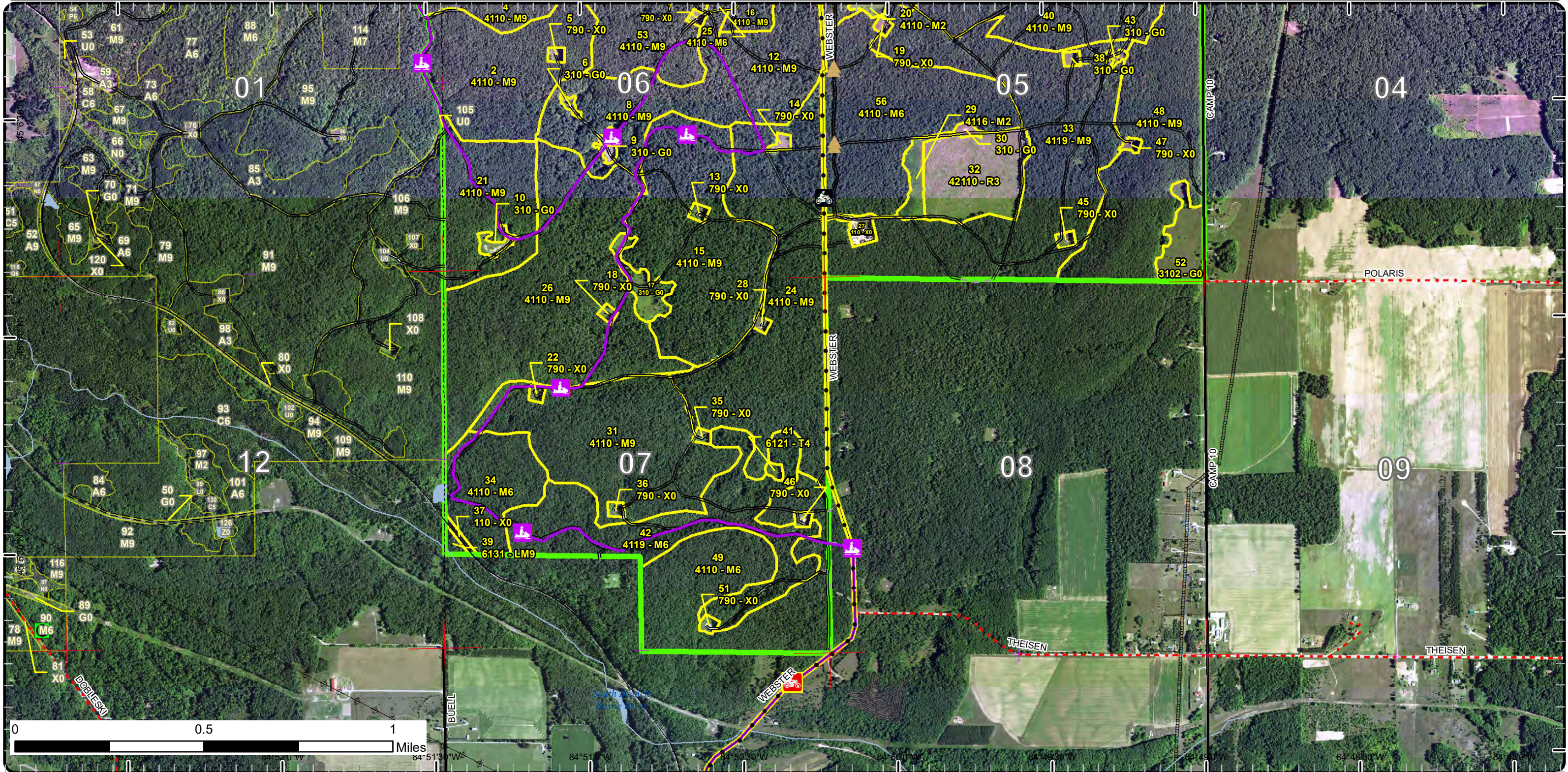


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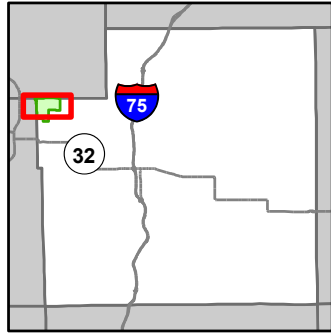
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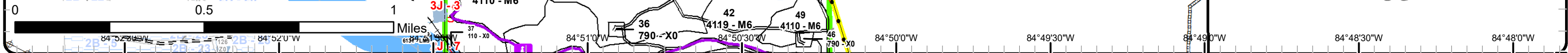
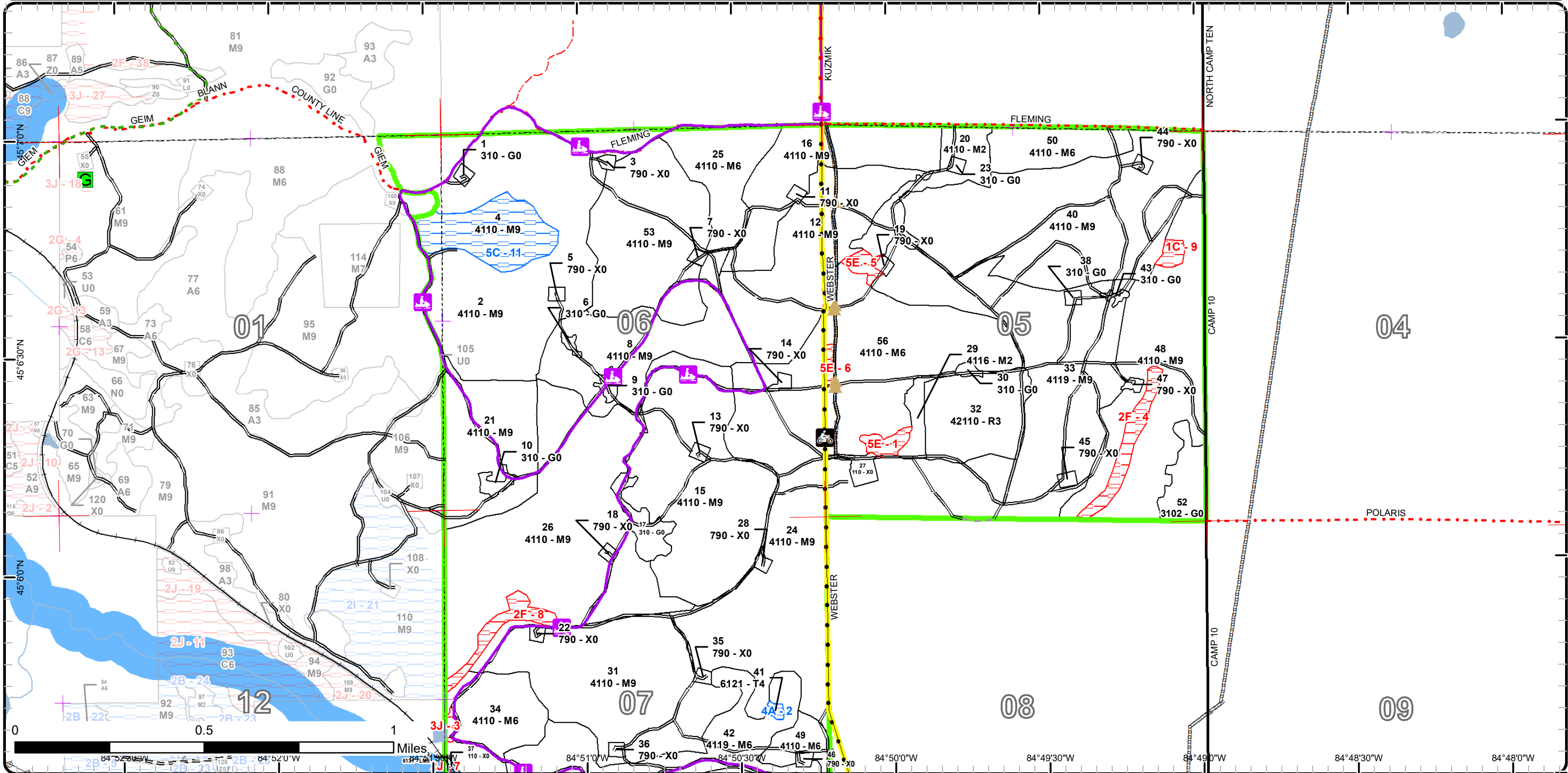


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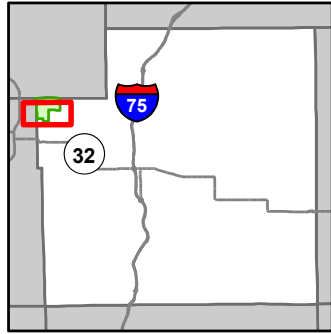
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- Compartment Boundary
- Available w/ Constraints
- Unavailable
- 4A: No Markets Available for these Forest Products
- 5C: Delay treatment for age/size class diversity or exceptional site quality
- 1C: Other dept or div proc/practices
- 2F: Too steep
- 3J: Water quality / BMPs (stream, river, or lake)
- 5E: Long-Term Retention
- Stand Boundaries
- Cold Water Streams
- Cold Water Lakes
- High Priority Trout Stream Buffer



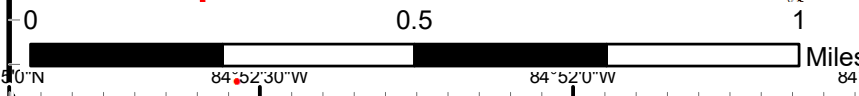
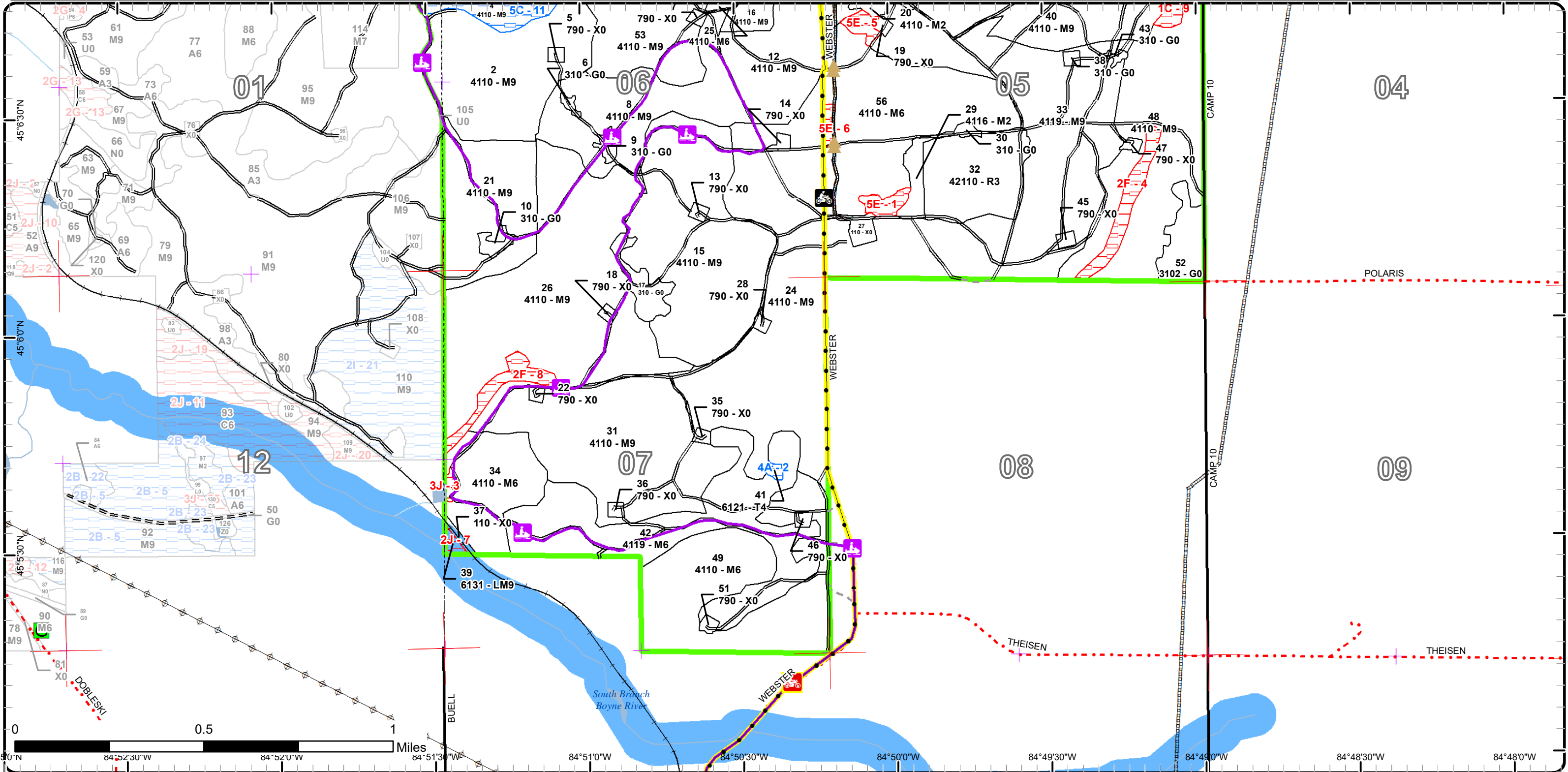


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Report 1 – Total Acres by Cover Type and Age Class



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
Bare/Sparsely Vegetated	18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	18
Herbaceous Openland	34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	34
Lowland Mixed Forest	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	2
Northern Hardwood	0	29	0	0	0	0	0	337	284	486	674	0	0	0	0	0	0	0	1810
Red Pine	0	38	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	38
Tamarack	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1
Urban	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5
<b>Total</b>	<b>57</b>	<b>67</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>337</b>	<b>284</b>	<b>487</b>	<b>674</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>2</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1908</b>



## Report 2 – Treatment Summary

Gaylord Mgt. Unit

Year of Entry: 2022

Acres of Harvest

Compartment 33

Total Compartment Acres: 1,908

Commercial Harvest - 640  
 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		88	189	0	0	0	363	0	0	0	640
	<b>Total</b>	<b>88</b>	<b>189</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>363</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>640</b>

### Proposed and Next Step Treatments by Method

		Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current		640	0	0	0	0	7	171	0	12	829
Next Step		0	176	99	0	0	91	375	0	0	740
	<b>Total</b>	<b>640</b>	<b>176</b>	<b>99</b>	<b>0</b>	<b>0</b>	<b>98</b>	<b>546</b>	<b>0</b>	<b>12</b>	<b>1570</b>



Standard

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:**

<p><b>2 52033002.7_Monitor</b> 148.0 4110 - Sugar Maple Association Sawtimber Well 90 51-80 Monitoring Natural Regen (Intermediate) 4110 - Sugar Maple Association Uneven-Aged No</p> <p><u>Prescription</u> Natural Regen Survey  <u>Specs:</u>  <u>Next Step</u>  <u>Treatments:</u>  <u>Acceptable</u> A mix of desirable northern hardwood species that meets minimum stocking requirements.  <u>Regen:</u>  <u>Other</u> Percent to Treat = 100%  <u>Comment:</u>  <u>Site Condition</u>  <u>Proposed Start Date:</u> 10/1 /2024</p>
<p><b>12 52033012-Cut</b> 72.6 4110 - Sugar Maple Association Sawtimber Well 72 111-140 Harvest Crown Thinning 411 - Northern Hardwood Even-Aged No</p> <p><u>Prescription</u> Mark to cut stand with a target Residual BA of ~80 overall. Focus marking on over mature basswood and pole sized ironwood first.  <u>Specs:</u> Individual areas may range from 60 to 100 BA.  <u>Next Step</u>  <u>Treatments:</u>  <u>Acceptable</u>  <u>Regen:</u>  <u>Other</u> Stand predominantly maple poles, some over mature basswood and hard maple present. Consider on a per acre basis removing half of the  <u>Comment:</u> large (16 inch dbh plus) trees of poor quality and leaving the better quality trees as a seed source. Utilize trail protection specs.  <u>Site Condition</u>  <u>Proposed Start Date:</u> 10/1 /2021</p>
<p><b>21 52033021-Cut</b> 54.9 4110 - Sugar Maple Association Sawtimber Well 90 111-140 Harvest Single Tree Selection 411 - Northern Hardwood Even-Aged No</p> <p><u>Prescription</u> Thin stand with a target residual BA ~80. Individual areas may range from 0 to 100 BA. Establish Regen Gaps at least 100 feet in diameter  <u>Specs:</u> at a rate of roughly 1 per 10 acres.  <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)  <u>Treatments:</u>  <u>Acceptable</u> A mix of sugar maple and basswood that meets minimum stocking requirements.  <u>Regen:</u>  <u>Other</u> Utilize trail protections specs. Lower amount of regen gaps required due to the lower amount of mature timber present in the stand.  <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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<b>25</b>	<b>52033025-Cut</b>	32.4	4110 - Sugar Maple Association	Poletimber Well	84	111-140	Harvest	Crown Thinning	411 - Northern Hardwood	Even-Aged	No
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Prescription Mark stand to cut with a residual BA ~80 overall. Individual Areas may range from 60 to 100 BA.

Specs:

Next Step

Treatments:

Acceptable

Regen:

Other Purpose of harvest is to establish crop trees, not regen. If sale doesn't sell as a commercial harvest, could be set up as a small firewood sale.

Comment:

Site Condition

Proposed Start Date: 10/1 /2021

<b>40</b>	<b>52033025-Monitor</b>	2.5	4110 - Sugar Maple Association	Sawtimber Well	85	81-110	Monitoring	Natural Regen (Intermediate)	4110 - Sugar Maple Association	Uneven-Aged	No
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Prescription

Specs:

Next Step

Treatments:

Acceptable A mix of northern hardwood species within the established gaps that meets minimum stocking requirements. Note that regen should be mostly sugar maple, red maple, and/or basswood to be considered successful.

Regen:

Other Percent to Treat = 100%

Comment:

Site Condition

Proposed Start Date: 10/1 /2019

<b>26</b>	<b>52033026-Cut</b>	134.3	4110 - Sugar Maple Association	Sawtimber Well	88	111-140	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven-Aged	No
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Prescription Mark stand to cut with a target BA of ~80 overall.

Specs: Individual areas may range from 0 to 100 BA. Establish regen gaps at a minimum of 1 per 10 acres at least 100' feet in diameter.

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable A mix of sugar maple and basswood that meets minimum stocking criteria. Aspen, red maple, black cherry, beech, and ironwood are allowable in smaller amounts as long as they do not compose a majority of the regen.

Regen:

Other Utilize trail protection specs. Lower rate of regen gaps than normal due to the low amount of mature timber present in the stand. Portions of the stand were excluded from the treatment due to low BA due to Ash and Beech mortality.

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
29	52033029-Spray	6.6	4116 - Mixed N. Hardwood - Aspen	Sapling Medium	7	Immature	Pesticide	Hand Application	4116 - Mixed N. Hardwood - Aspen	Even-Aged	No
<p><u>Prescription</u> Apply store bought pre mixed herbicide to control invasive honey suckle that has started to spread in this stand.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Herbicide Use</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> The same mix of current species as specified in the stand data sheet is acceptable.</p> <p><u>Regen:</u></p> <p><u>Other</u> Due to small localized area of invasive species presence, control of the invasive species can be done without a PAP under the supervision of</p> <p><u>Comment:</u> an employee with a Pesticide Applicators License.</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 9 /15/2020</p>											
31	52033031-Cut	102.7	4110 - Sugar Maple Association	Sawtimber Well	77	111-140	Harvest	Crown Thinning	411 - Northern Hardwood	Even-Aged	No
<p><u>Prescription</u> Mark stand to cut with a target residual BA of ~80 overall. Individual areas may range from 60 to 100 BA.</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> Consider cutting roughly 1/2 of large over mature and open grown trees on a per acre basis, leaving the better developed ones as a seed</p> <p><u>Comment:</u> source. Utilize trail protection specs.</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2021</p>											
32	52033032-Monitorx	3.1	42110 - Planted Red Pine	Sapling Well	7	Immature	Monitoring	Artificial Regen(1yr)	4123 - Red Oak	Even-Aged	No
<p><u>Prescription</u> survey while in pine planting under oak specific rules.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Pesticide, (Inactive)Aerial; ; ; Monitoring, Artificial Regen(3yr)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Red oak planting</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> 4 /20/2016</p>											
34	52033034-Cut	38.7	4110 - Sugar Maple Association	Poletimber Well	68	111-140	Harvest	Crown Thinning	411 - Northern Hardwood	Even-Aged	No
<p><u>Prescription</u> Mark stand to cut with a target residual BA of ~80 overall. Individual areas may range from 60 to 100 BA.</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> Protect hemlock during logging operations. Consider marking trees to drop and leave as nurse logs around yellow birch and hemlock when</p> <p><u>Comment:</u> marking. Utilize trail protection specs.</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2021</p>											

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Treatment ID	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
40	52033040-Monitor	17.5	4110 - Sugar Maple Association	Sawtimber Well	85	81-110	Monitoring	Natural Regen (Intermediate)	4110 - Sugar Maple Association	Uneven-Aged	No
<u>Prescription</u> <u>Specs:</u> <u>Next Step</u> <u>Treatments:</u> <u>Acceptable Regen:</u> A mix of northern hardwood species that meet minimum stocking requirements inside the established gaps (note: dominant species for regen to be considered a success should be red maple, sugar maple, and/or basswood) <u>Other Comment:</u> Percent to Treat = 100% <u>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /2019											
48	52033048-Cut	94.4	4110 - Sugar Maple Association	Sawtimber Well	75	111-140	Harvest	Crown Thinning	411 - Northern Hardwood	Even-Aged	No
<u>Prescription</u> Mark to cut stand with a target BA of ~80 overall. Individual areas can range from 60 to 100 BA. <u>Specs:</u> <u>Next Step</u> <u>Treatments:</u> <u>Acceptable Regen:</u> <u>Other Comment:</u> No need to establish regen gaps due to the low level of large seed producing trees in the stand. Mostly pole timber, stand needs time to develop before regen is a consideration. <u>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /2021											
50	52033050-Cut	22.4	4110 - Sugar Maple Association	Poletimber Well	68	111-140	Harvest	Crown Thinning	411 - Northern Hardwood	Even-Aged	No
<u>Prescription</u> Mark to cut with a target BA of ~80 overall. Individual areas can range from 60 to 100 BA. <u>Specs:</u> <u>Next Step</u> <u>Treatments:</u> <u>Acceptable Regen:</u> <u>Other Comment:</u> Mostly pole timber, some large over maple of low quality. On a per acre basis consider removing half of the low quality trees over 16 inches DBH, and leave the better quality trees as a future seed source. One acre patch of regen saps/poles, line out of sale. Rough line drawn in MIFI. Purpose of harvest is to establish crop trees not regen. Sale could be set up as a fire wood cut if it doesn't sell commercially. <u>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /2021											
52	52033052-NF	9.5	3102 - Grass	Nonstocked		Unspecified	NonForestMgt	Brush Cutting	4211 - Planted Red Pine	Even-Aged	No
<u>Prescription</u> Utilize brush hog to clear areas for nursery establishment. <u>Specs:</u> <u>Next Step</u> Planting, Initial Plant <u>Treatments:</u> <u>Acceptable Regen:</u> Red Pine planted in strips to create blocks for a new hardwood nursery. <u>Other Comment:</u> Percent to Treat = 100% <u>Site Condition</u> <u>Proposed Start Date:</u> 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	Habitat Cut
<b>52 52033052-NF_2020</b>	2.0	3102 - Grass	Nonstocked		Unspecified	NonForestMgt	Brush Cutting	4211 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> Use a brush hog to clear area denoted by lathe and pink flagging in order to prep site for nursery establishment.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Planting, Initial Plant</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Pine will eventually be planted in rows to establish blocks for nursery</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> 7 /1 /2020</p>										
<b>56 52033056-Cut</b>	87.8	4110 - Sugar Maple Association	Poletimber Well	63	51-80	Harvest	Clearcut with Retention	4211 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> Final harvest stand, be sure to include chipping spec.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> SitePrep, Roller Chopping; Pesticide, Skidder - Site Prep; SitePrep, Trenching; Planting, Initial Plant; Monitoring, Artificial Regen(1yr);</p> <p><u>Treatments:</u> Monitoring, Artificial Regen(3yr)</p> <p><u>Acceptable</u> A well stocked stand of planted red pine. In non planted areas any mix of maple, basswood, black cherry, aspen, and birch is acceptable.</p> <p><u>Regen:</u></p> <p><u>Other</u> Retention has already been delineated in MIFI. Do not plant west of the pipeline adjacent to Webster Road.</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2021</p>										

**Total Treatment Acreage Proposed: 829.4**



## Report 4 – Site Conditions

Gaylord Mgt. Unit  
Zach Crew : Examiner

Compartment: 33  
Year of Entry: 2022



### Availability for Management

Total Acres	Acres Available	Acres Available With Condition	Acres Not Available
18	18	0	0
34	34	0	0
2	0	0	2
1810	1748	30	32
38	38	0	0
1	0	1	0
5	5	0	0
1,908	1,843	31	33
	97%	2%	2%

### Dominant Site Conditions

	Total Acres	Acres Available	Acres Available With Condition	Acres Not Available	Dominant Site Condition	Dominant Site Conditions						
						4A	5C	1C	2F	2J	3J	5E
18	18	0	0	0	Bare/Sparsely Vegetated							
34	34	0	0	0	Herbaceous Openland							
2	0	0	2	2	Lowland Mixed Forest					2		
1810	1748	30	32	32	Northern Hardwood	0	30	3	18		1	9
38	38	0	0	0	Red Pine							
1	0	1	0	0	Tamarack	1						
5	5	0	0	0	Urban							
1,908	1,843	31	33	33	Total Forested Acres	1	30	3	18	2	1	9
	97%	2%	2%	2%	Relative Percent							

*\*Due to limitations in the current Site Conditions Analysis tool, all nonforested acres are considered available. Future development will enable analysis of nonforested types.*

Site No.	Dominant Site Cond Availability	Dominant Site Condition	Acres	Other Site Condition	Other Site Condition	Other Site Condition	Other Site Condition
1	Unavailable	5E: Long-Term Retention	4	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
2	Available	4A: No Markets Available for these Forest Products	1	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
3	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	1	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Small inclusion of lowland cedar/spruce that is too small to map							
4	Unavailable	2F: Too steep	10	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							

## Report 4 – Site Conditions

Gaylord Mgt. Unit  
Zach Crew : Examiner

Compartment: 33  
Year of Entry: 2022



5	Unavailable	5E: Long-Term Retention	3	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
6	Unavailable	5E: Long-Term Retention	2	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
7	Unavailable	2J: Blocked by Railroad	2	1C: Other dept or div proc/practices	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Stand part of the South Branch of the Boyne River Cold Water Trout Stream Buffer.							
8	Unavailable	2F: Too steep	8	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
9	Unavailable	1C: Other dept or div proc/practices	3	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> NELP Hardwood Marking Test Plot							
11	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	30	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Stand turned back into state during timber harvest last YOE. Ash has fallen out lower BA enough that it would make more sense to harvest the stand with adjacent stand 95 in comp 45.							

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
<b>Comments</b>				

**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

<b>Conservation Area</b>	<b>Type</b>	<b>Description</b>
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.
SCA	Riparian Area	A transitional area between aquatic and terrestrial ecosystems in which the terrestrial ecosystem influences the aquatic ecosystem and vice-versa. Because of the unique conditions adjacent to lakes, streams and open water wetlands, riparian areas harbor a high diversity of plants and wildlife. Riparian communities are ecologically and socially significant in their effects on water quality and quantity, as well as aesthetics, habitat, bank stability, timber production, and their contribution to overall biodiversity.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																						
1	310 - Herbaceous Openland	Nonstocked	1.1		Unspecified		GAS WELL - VALVE SYSTEM AND SHED. State Elmira A1-3																																						
2	4110 - Sugar Maple Association	Sawtimber Well	150.9	90	51-80	N/A	Stand harvested in 12/18 as part of Daddy O Hardwoods sale (52-018-12-01). Majority of ash and beech harvested. Residual BA ~ 75.																																						
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3	790 - Other Bare/Sparsely Vegetated	Nonstocked	1.0		Unspecified		GAS WELL - VALVE SYSTEM WITH SHEDS. State Elmira 3-3																																						
4	4110 - Sugar Maple Association	Sawtimber Well	30.4	90	111-140	N/A	Rolling Hills. Decent Quality. This portion of the sale not harvested and turned back into the state. Sale Daddy O Hardwoods sale (52-018-12-01). Ash has mostly fallen out.																																						
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6	310 - Herbaceous Openland	Nonstocked	1.0			No	Grassy opening, some knapweed, scattered basswood and cherry.																																						
7	790 - Other Bare/Sparsely Vegetated	Nonstocked	1.0		Unspecified		GAS WELL - St Elmira 7-6																																						
8	4110 - Sugar Maple Association	Sawtimber Well	60.3	90	81-110	N/A	Decent quality in the west and south portions of the stand. Inoperable slopes occur in the south end in places. Stand begins to lose quality in the vicinity of stand 9. Rolling Topography. Thinned 2003.																																						
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9	310 - Herbaceous Openland	Nonstocked	2.0		Unspecified		GAS WELL St Elmira 11-6																																						
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																											
12	4110 - Sugar Maple Association	Sawtimber Well	74.1	72	111-140	N/A	Set up last YOE with some patch cuts, sale sold but returned to the state. Decent stocking, predominantly pole timber and small logs, scattered wolf trees throughout.																																											
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14	790 - Other Bare/Sparsely Vegetated	Nonstocked	1.2		Unspecified	No	Old gas site.																																											
15	4110 - Sugar Maple Association	Sawtimber Well	108.5	90	81-110	N/A	Stand THINNED 2003. Some areas of decent quality in the west half. Large diameter wolf trees scattered throughout. Pole stand transitioning to a log stand. AVG BA 107.																																											
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16	4110 - Sugar Maple Association	Sawtimber Well	53.0	95	51-80	N/A	Single tree harvest completed fall 2016 (52-017-12-01) Husky Hardwoods.																																											
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17	310 - Herbaceous Openland	Nonstocked	8.9			No	GRASS OPENING - SCATTERED CHERRY AND ELM. NICE - MOSTLY CLEAN OPENING.																																											
18	790 - Other Bare/Sparsely Vegetated	Nonstocked	1.0		Unspecified		GAS WELL St Elmira A 2-7																																											
19	790 - Other Bare/Sparsely Vegetated	Nonstocked	1.0		Unspecified		GAS WELL - St Elmira B1-5																																											
20	4110 - Sugar Maple Association	Sapling Medium	22.5	7	Immature	N/A	Former Planted RP stand harvested in January 2013 as part of the Humdinger RP sale (52-005-12-01), allowed to convert back to hardwood stand. predominantly hard maple, some sparse areas with no regen.																																											
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21	4110 - Sugar Maple Association	Sawtimber Well	55.0	90	111-140	N/A	Thinned 1994. Rolling topography, elm and ash have died out of the stand. AVG BA ~ 128.																																																
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23	310 - Herbaceous Openland	Nonstocked	1.0		Unspecified		GAS WELL - VALVE SYSTEM. CLEAN.																																																
24	4110 - Sugar Maple Association	Sawtimber Well	137.9	90	81-110	N/A	SCATTERED OVERSTORY WOLF HM AND BASSWOOD WITH DEFECT - FORKS, SWEEP AND HOLES COMMON. SOME DEAD ELM. FLAT. LOTS OF 1 - 4" DIAM SUPPRESSED HM. SOME BT ASPEN AND CHERRY. MARKED LOG SALE 1977. LOTS OF OLD ROADS. LACK OF CLEAN REGEN HOLES. Basal Area patchy in most areas.																																																
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25	4110 - Sugar Maple Association	Poletimber Well	32.6	84	111-140	N/A	Decent pole stand, flat.																																																
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26	4110 - Sugar Maple Association	Sawtimber Well	155.3	88	111-140	N/A																																																	
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27	110 - Low Intensity Urban	Nonstocked	3.8		Unspecified		CENTRAL PROCESSING FACILITY. 3 COMPRESSOR BUILDINGS.																																																
28	790 - Other Bare/Sparsely Vegetated	Nonstocked	1.1		Unspecified		GAS WELL - Shed. St Elmira 1-7																																																



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<b>29</b>	4116 - Mixed N. Hardwood - Aspen	Sapling Medium	6.9	7	Immature	N/A	Stand cut in 2013, Aspen clone dominates the southern 1/4. The rest of the stand is patchy black cherry and sugar maple. Upland shrub species present.																																																						
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<b>31</b>	4110 - Sugar Maple Association	Sawtimber Well	102.7	77	111-140	N/A	Part of stand thinned in 1990 according to records. Rolling topography.																																																						
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<b>32</b>	42110 - Planted Red Pine	Sapling Well	37.9	7	Immature	N/A	Site prep herbicide spray conducted in 2013, Planted on 5/10/2015 @ 950 RP 2-0 Wyman Bare root stock and Red Pine. FTP C52-356 Year 1 survey conducted, according to FTP database notes, on 11/16/16 no need for replanting at this time. Passed year 3 regen survey, FTP closed.  Stand harvested in January 2013 as part of Humdinger RP Sale (52-005-12-01). Will be prepped and planted back to RP.																																																						
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<b>33</b>	4119 - Mixed Northern Hardwoods	Sawtimber Well	163.6	85	81-110	N/A	THINNED 2004. FLAT. POOR QUALITY HARDWOOD. AREAS WITH SOME DECENT HM POLES. DEAD AND/OR DYING ELM COMMON. WOLF HM, BASSWOOD AND IRONWOOD WITH DEFECT. SOME SCATTERED REGEN HOLES WITH RUBUS. UNCUT ORANGE MARKED TREES. LOTS OF SUPPRESSED 2 - 4" DIAM HM SAPS. Avg BA from 21 plots - 107.																																																						
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<b>34</b>	4110 - Sugar Maple Association	Poletimber Well	40.7	68	111-140	N/A	Rolling topography. Scattered oversize maple/basswood/beechn. Lowland inclusion and small pond located on the west side of the stand.																																																																		
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<b>35</b>	790 - Other Bare/Sparsely Vegetated	Nonstocked	1.0		Unspecified		GAS WELL St Elmira 7-7																																																																		
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<b>37</b>	110 - Low Intensity Urban	Nonstocked	1.3			No	ACTIVE RAILROAD GRADE. STEEP SLOPES.																																																																		
<b>38</b>	310 - Herbaceous Openland	Nonstocked	1.0		Unspecified		GRASS OPENING - Gas Well. State Elmira B3-5.																																																																		
<b>39</b>	6131 - Hemlock, White Pine, Maple, Birch	Sawtimber Well	1.7	130	1-50	N/A	STEEP SLOPES ALONG 5 FT. WIDE BOYNE RIVER.																																																																		
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<b>40</b>	4110 - Sugar Maple Association	Sawtimber Well	134.9	85	81-110	N/A	MOSTLY POOR QUALITY. SCATTERED WOLF HM WITH SWEEP AND/OR FORKS COMMON. A FEW AREAS HAVE DECENT HM POLES. FLAT. ROCK ELM COMMON. SOME SCATTERED CHERRY AND HEMLOCK. SOME DEAD AND/OR DYING ELM. HEAVY TO 1 - 4" DIAM SUPPRESSED HM. HM SI = 55. Regen gaps ranging in size from .1 acres to 1 acre established and harvested 02/17.																																																																		
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<b>41</b>	6121 - Tamarack	Poletimber Poor	1.0	85	1-50	N/A	LOW WET DEPRESSION - BOWL. TAMARACK SPARSE. MOST TREES ON NORTH END. UNIFORM SCATTERED TAMARACK SAPS. TAMARACK SI = 40.																																																																		
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments				
42	4119 - Mixed Northern Hardwoods	Poletimber Well	86.7	64	81-110	N/A	POOR QUALITY. SCATTERED WOLF OVERSTORY WITH FORK AND SWEEP COMMON. ROLLING HILLS TO STEEP SLOPES. AREAS HEAVY TO 1 - 4" DIAM HM SAPS. HM SI = 55. Several pockets in the northern portion of the stand filling in with a mix of maple, ironwood, and cherry. The south "arm/foot" of the stand is dominated by these larger wolfy trees with a large amount of hard maple saplings creeping into the canopy.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Sugar Maple		50	Pole/Log	9	64	Sugar Maple		Medium	Variable	Sapling	
American Elm		14	Pole/Log	8		Ironwood		Low	Variable	Sapling	
Basswood		20	Log/Pole	12		Hemlock		Trace	10 - 20 feet	Sapling	
Ironwood		10	Pole/Sapling	6		Black Cherry		Low	Variable	Sapling	
Hemlock		1	Log	14							
Quaking Aspen		2	Log/Pole	10							
Black Cherry		3	Pole/Log	9							
43	310 - Herbaceous Openland	Nonstocked	1.0			No	GRASS OPENING - RUBUS, CHERRY, MAPLE AND HAWTHORNE PRESENT.				
44	790 - Other Bare/Sparsely Vegetated	Nonstocked	1.1		Unspecified		GAS WELL - VALVE SYSTEM. State Elmira A4-5				
45	790 - Other Bare/Sparsely Vegetated	Nonstocked	1.1		Unspecified		GAS WELL - VALVE SYSTEM. KNAPWEED. State Elmira D3-5				
46	790 - Other Bare/Sparsely Vegetated	Nonstocked	1.1		Unspecified		GAS WELL - VALVE SYSTEM AND SHED. State Elmira 9-7.				
47	790 - Other Bare/Sparsely Vegetated	Nonstocked	1.0		Unspecified		GAS WELL - VALVE SYSTEM. KNAPWEED. State Elmira C4-5				
48	4110 - Sugar Maple Association	Sawtimber Well	107.0	75	111-140	N/A	Thinned 1995. Scattered live elm and beech. Decent quality hardwood, long ridge running North/South splits stand even in two in the south, some slopes to steep for operations. Hardwood marking test plot located in stand. Delineated out using a site condition.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Sugar Maple		75	Log/Pole	10	75	Sugar Maple		Trace	5 - 10 feet	Sapling	
Basswood		18	Log/Pole	10		Beech		Low	< 5 feet	Sapling	
Black Cherry		1	Log/Pole	10		Ironwood		Low	5 - 10 feet	Sapling	
Beech		2	Log/Pole	10		Striped Maple		Trace	5 - 10 feet	Sapling	
Yellow Birch		1	Log/Pole	10							
Hemlock		3	Log	12							
49	4110 - Sugar Maple Association	Poletimber Well	89.4	67	81-110	N/A		SCATTERED LARGE TREES WITH DEFECT COMMON. DECENT QUALITY PULP AND SMALL LOG CROP TREES. MOSTLY FLAT WITH SOME ROLLING HILLS. LOTS OF SUPPRESSED 1 - 5" DIAM HM SAPS. PART OF STAND THINNED 1990. HM SI = 65. BA ranges from 20 in regenerating openings to 180 st the highest. Some maple 16+ inches but vast majority in the 6-10 inch class. Ages are for 14 inch+ (90) and 10 in or lower (67). SE corner of stand where a lot of these lower stocking areas with a high number of ironwood and maple saps are located.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species			Density	Avg. Height	Size
Sugar Maple		69	Pole/Log	9	67	Sugar Maple			Medium	Variable	Sapling
American Elm		5	Pole/Log	9		Ironwood			Low	Variable	Sapling
Basswood		20	Log	14	90	Serviceberry (Juneberry)			Trace	>20 feet	Sapling
Black Cherry		2	Pole/Log	9							
Yellow Birch		2	Pole/Log	9							
Hemlock		1	Log	14							
Red Maple		1	Log/Pole	10							



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<b>50</b>	4110 - Sugar Maple Association	Poletimber Well	23.5	68	111-140	N/A	Portion of original stand 25 that wasn't treated previously. Decent pole timber throughout, some larger wolf trees scattered.																																																												
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<b>52</b>	3102 - Grass	Nonstocked	14.3		Unspecified	No	CLEAN OPENING. Farmland to the East and SW on private. Stand is being considered for the new hardwood nursery.																																																												
<b>53</b>	4110 - Sugar Maple Association	Sawtimber Well	77.5	90	81-110	N/A	Thinned in 2003. Single tree harvest completed in fall 2016 (52-017-12-01) Husky Hardwoods. Stand 53 broken out of stand 8 post harvest. Adequate amount of sugar maple and basswood regen found during natural regen check.																																																												
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<b>56</b>	4110 - Sugar Maple Association	Poletimber Well	97.2	63	51-80	N/A	Scattered large diameter wolf trees. Most of the stand is filling in with maple, black cherry, and ironwood, very low quality. Some pockets of white pine just north of stand 27. Not sure why this stand is of noticeably lower quality than the stands surrounding it.																																																												
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