



Compartment Review Presentation

Gaylord Forest Management Unit

Compartment 52101

Entry Year 2024

Acreage: 2,039

County Emmet

Management Area: Emmet Moraines

Stand Examiner: Donald Stacks

Legal Description:

T37N R06W Sections 19 - 21, 28 - 30, 32, 33.

Identified Planning Goals:

To provide for the protection, integrated management, and responsible use of a healthy, productive, and undiminished forest resource base for the social, recreational, environmental, and economic benefit of the State of Michigan.

Soil and topography:

Mostly Blue Lakes loamy sand on very hilly topography.

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

The compartment consists of mostly contiguous state ownership. Several private residences and small farms are located in, and adjacent to, the compartment.

Unique Natural Features:

Past red-shouldered hawk occurrences are listed.

Archeological, Historical, and Cultural Features:

Documented archeological sites and potential sites occurring within, and adjacent to, this compartment are listed in HAL.

Special Management Designations or Considerations:

The compartment contains habitat previously listed as Mesic Northern Forest, but this designation will be dropped due to the extensive ash/beechn salvage harvests and the canopy gap research that have occurred in the last nine years. A designated SCA (Habitat Area/Corridor) presently exists in Stand 1.

Watershed and Fisheries Considerations:

This compartment contains portions of both Central Lake Michigan Management Unit and Northern Lake Huron Management Unit. Northern Lake Huron Management Unit has no concerns. This compartment contains many small Lake Michigan tributary streams, many of which are warm or even seasonally dry. Appropriate BMP's should be used in wet areas and disturbing dry creek beds should be avoided.

Wildlife Habitat Considerations:

Mineral Resource and Development Concerns and/or Restrictions

The nearest active sand/gravel pit is just over one mile to the northeast. There is good potential for sand & gravel within the compartment. There is no known potential for economic oil & gas production beneath the compartment. Encana leased State mineral rights in this area from 2011 to 2016 as part of their interest in testing the Collingwood Formation. No testing was completed in this area, and while some production from the Collingwood did occur elsewhere, neither Encana nor, subsequently, Marathon demonstrated the Collingwood to be a commercial success, and there is currently no interest in further development at this time. There is no known potential for metallic minerals in this part of the state.

Vehicle Access:

Multiple county and seasonal county roads provide access through, and adjacent to, the compartment. Numerous forest trail roads can also be found throughout the compartment.

Survey Needs:

No survey work is anticipated.

Recreational Facilities and Opportunities:

Multiple segments of designated snowmobile trail run through the compartment. Various outdoor recreation opportunities exist within the compartment.

Fire Protection:

This compartment consists almost entirely of lower risk northern hardwood fuel types. The Indian River DNR Field office is located about 35 miles to the east of the compartment, with the Friendship/Readmond VFD located about two miles to the west.

Additional Compartment Information:

The entire compartment has been impacted by Beech Bark Disease and Emerald Ash Borer. Significant acreage within the compartment has received salvage harvests since 2013. These post harvest stands have been monitored for excessive beech and white ash regeneration. Multiple group selection harvests are prescribed this YOY with post-harvest MO's of natural regen mixed northern hardwoods, dependent on ash/beech density, with the possibility of planted oak and mixed conifers being considered also.

The following reports from the Inventory are attached:

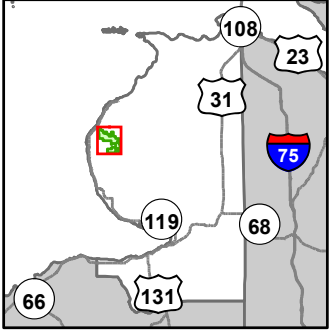
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

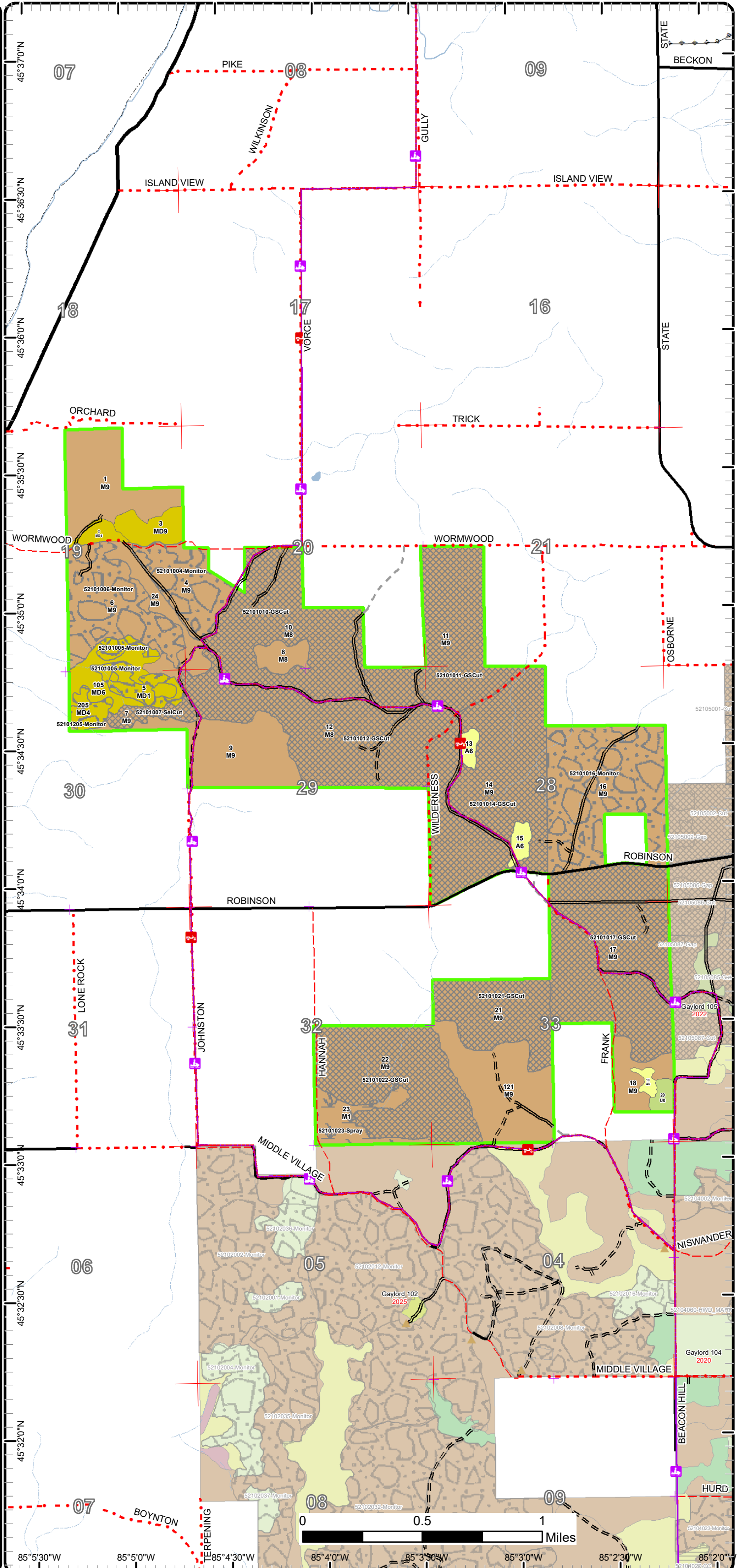
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

Cover Type & Treatments Map

Compartment: 101
 T37N, R06W, Sec. 19-21, 28-30, 32, 33
 County: Emmet
 Unit: Gaylord
 Mgmt Area: Emmet Moraines
 YOE: 2024
 Acres: 2039.1 GIS Calculated
 Examiner: Donald Stacks
 Map Revised: 11/15/2022
 Map Phase: Post-Review

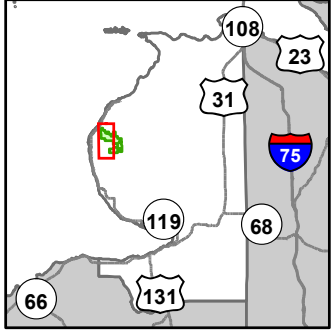


- Miris Corners
- + Remonumented Section Corners
- Counties
- DNR - Secondary Forest Road
- == DNR - Forest Access Route
- Federal / State / County - Paved Road
- - - County - Gravel Road
- - - County - Dirt Road (Seasonal)
- - - Private - Dirt / Gravel Road
- ORV Routes
- Snowmobile Trails
- Designated ORV Route
- Designated Snowmobile Trails
- Intermittent Stream
- Lake/Pond
- Lakes and Rivers
- Compartment Boundary
- Pesticide
- Selection (Group, Single Tree)
- Regeneration Survey
- 411 - Northern Hardwood
- 413 - Aspen
- 419 - Mixed Upland Deciduous
- 320 - Upland Shrub

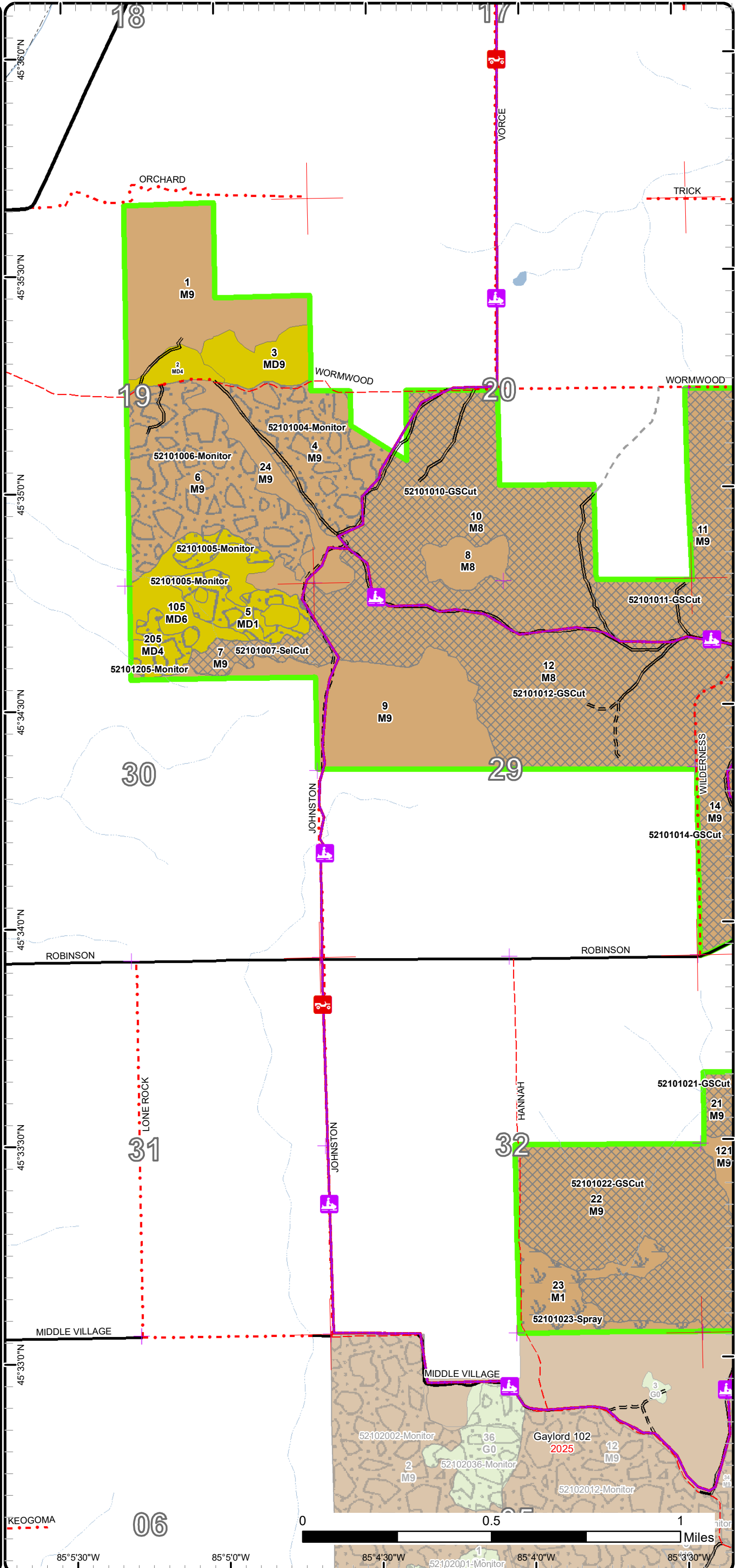


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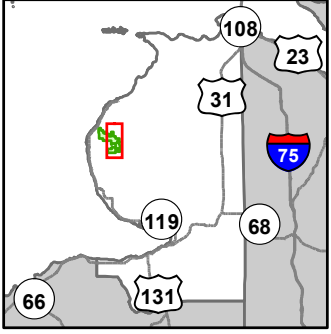


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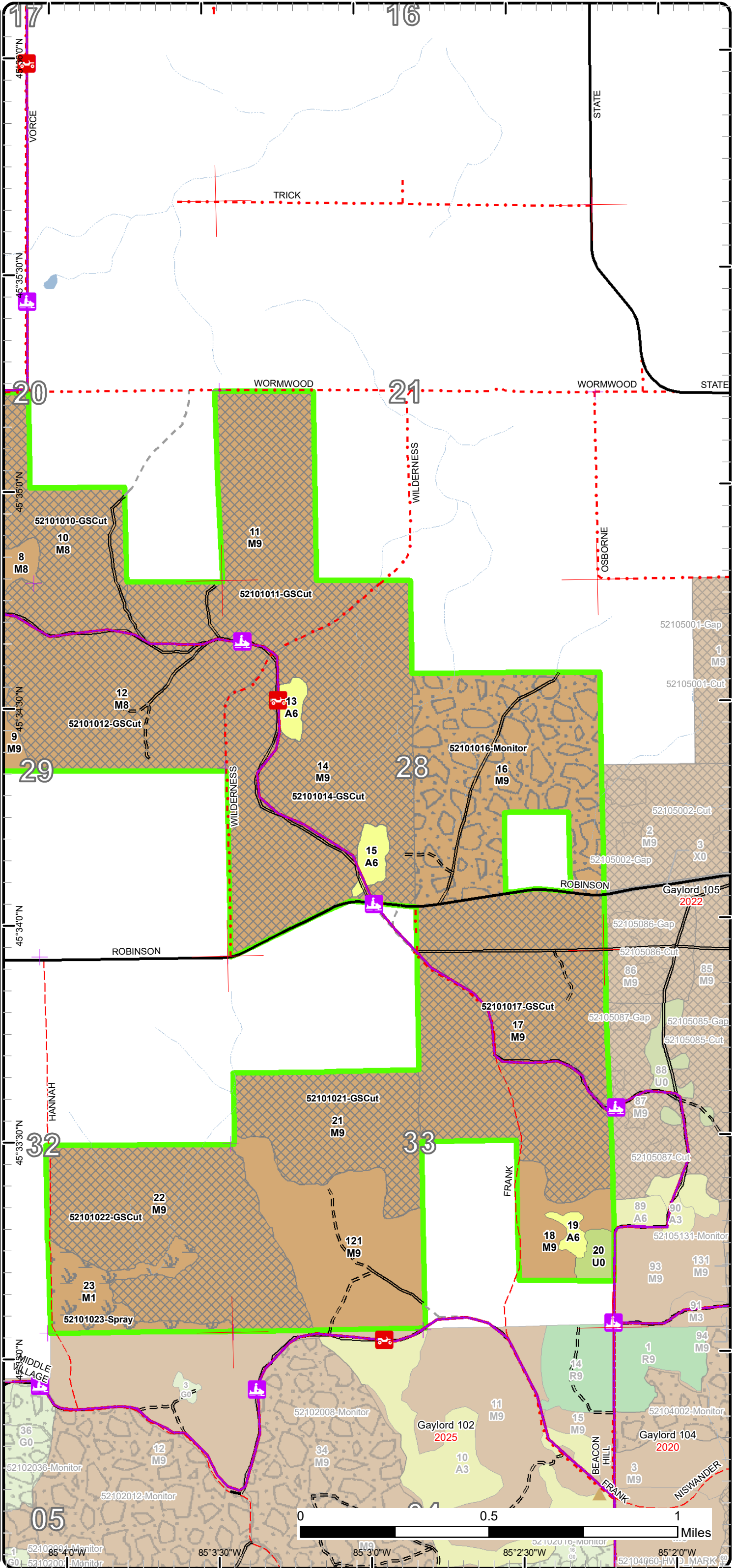


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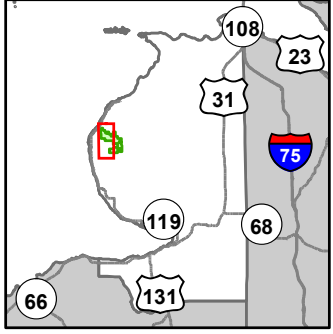


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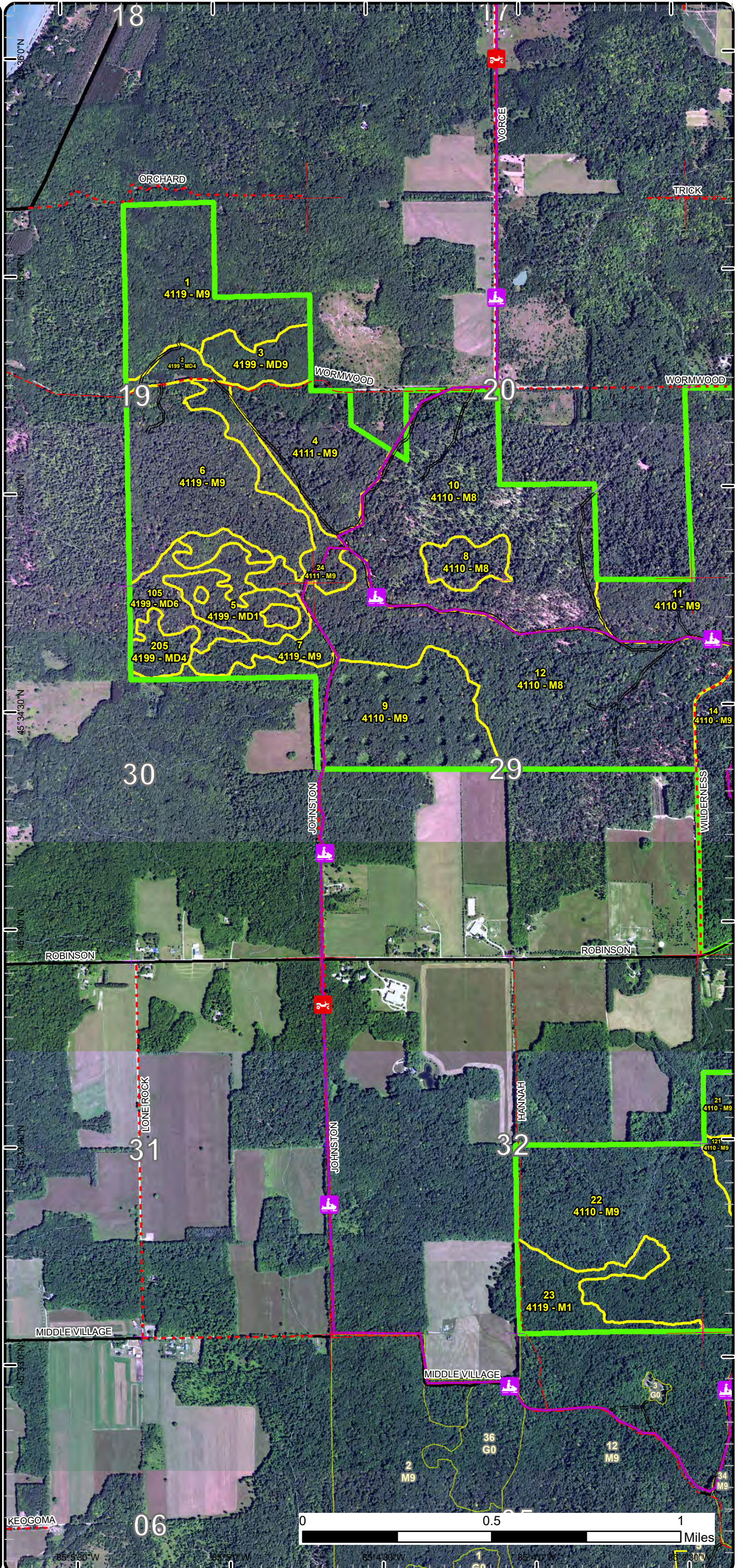


Stand Boundary Map

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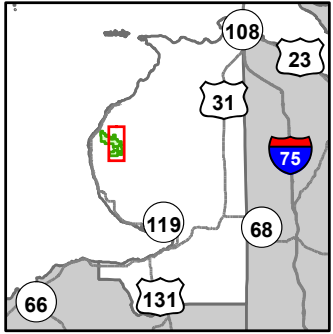


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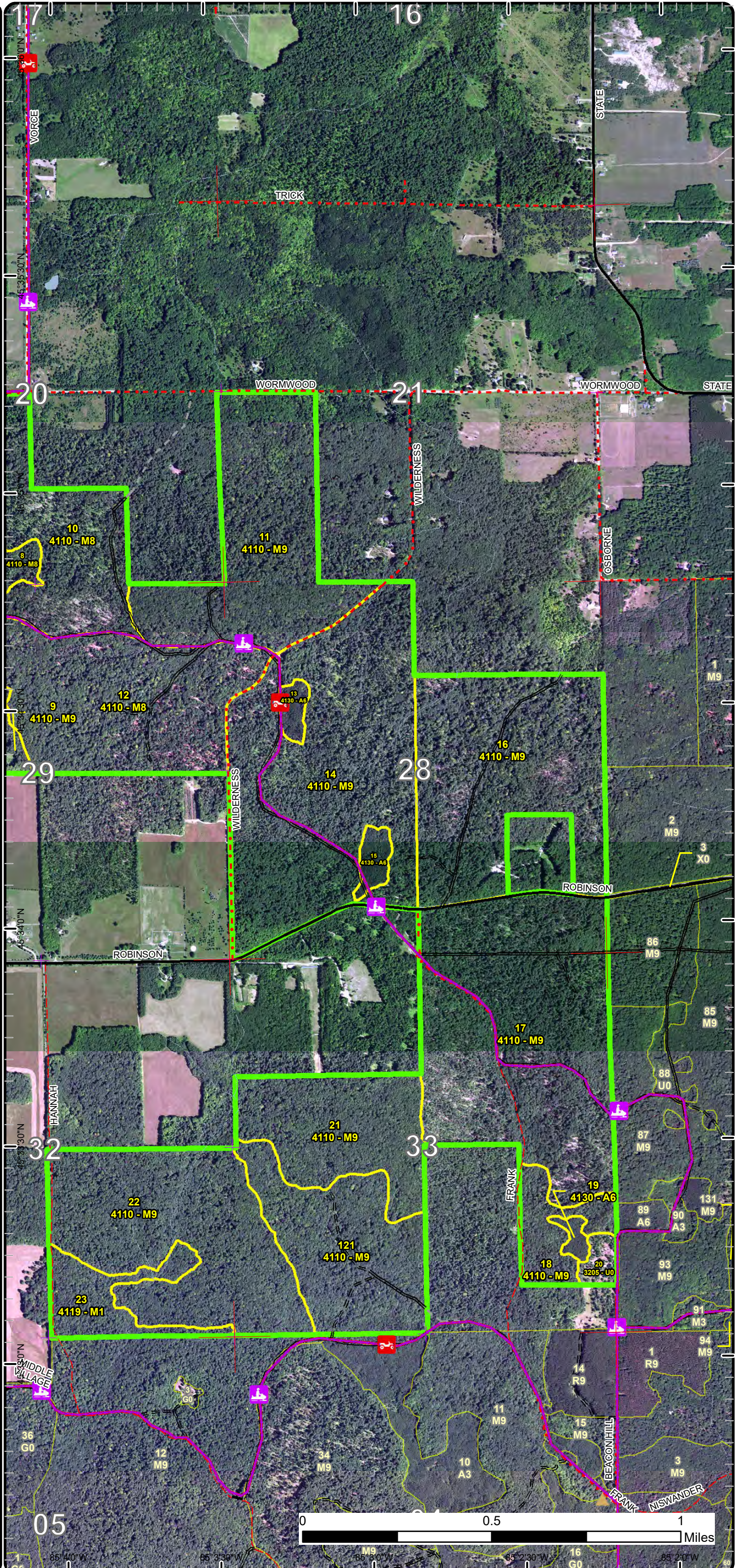


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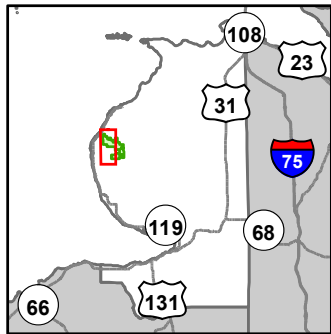


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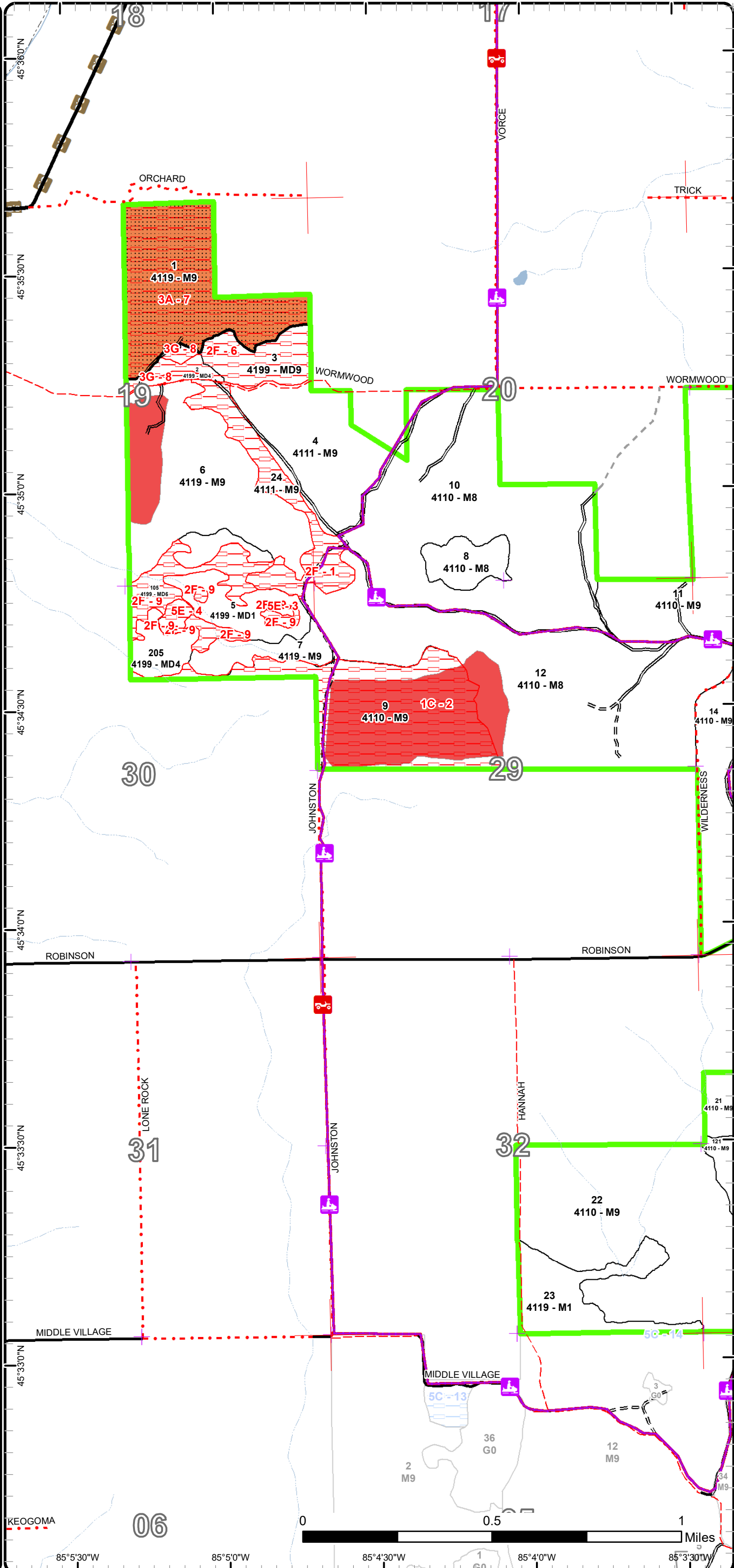


Special Conservation Areas

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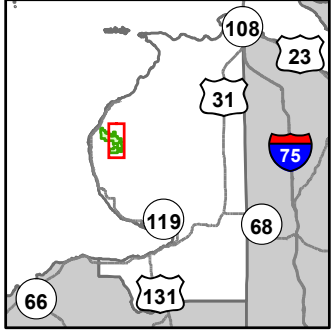


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- Intermittent Stream
- Lake/Pond
- Shoreline
- Lakes and Rivers
- Compartment Boundary
- Unavailable
- 1C: Other dept or div proc/practices
- 2F: Too steep
- 3A: Conservation Values incompatible with harvest at this time
- 3G: Other Influence zones - See comments
- 5E: Long-Term Retention
- Stand Boundaries
- SCA
- Ecological Reference Areas
- State Heritage Routes-Scenic (MDOT Designation)
- Other Habitat Area

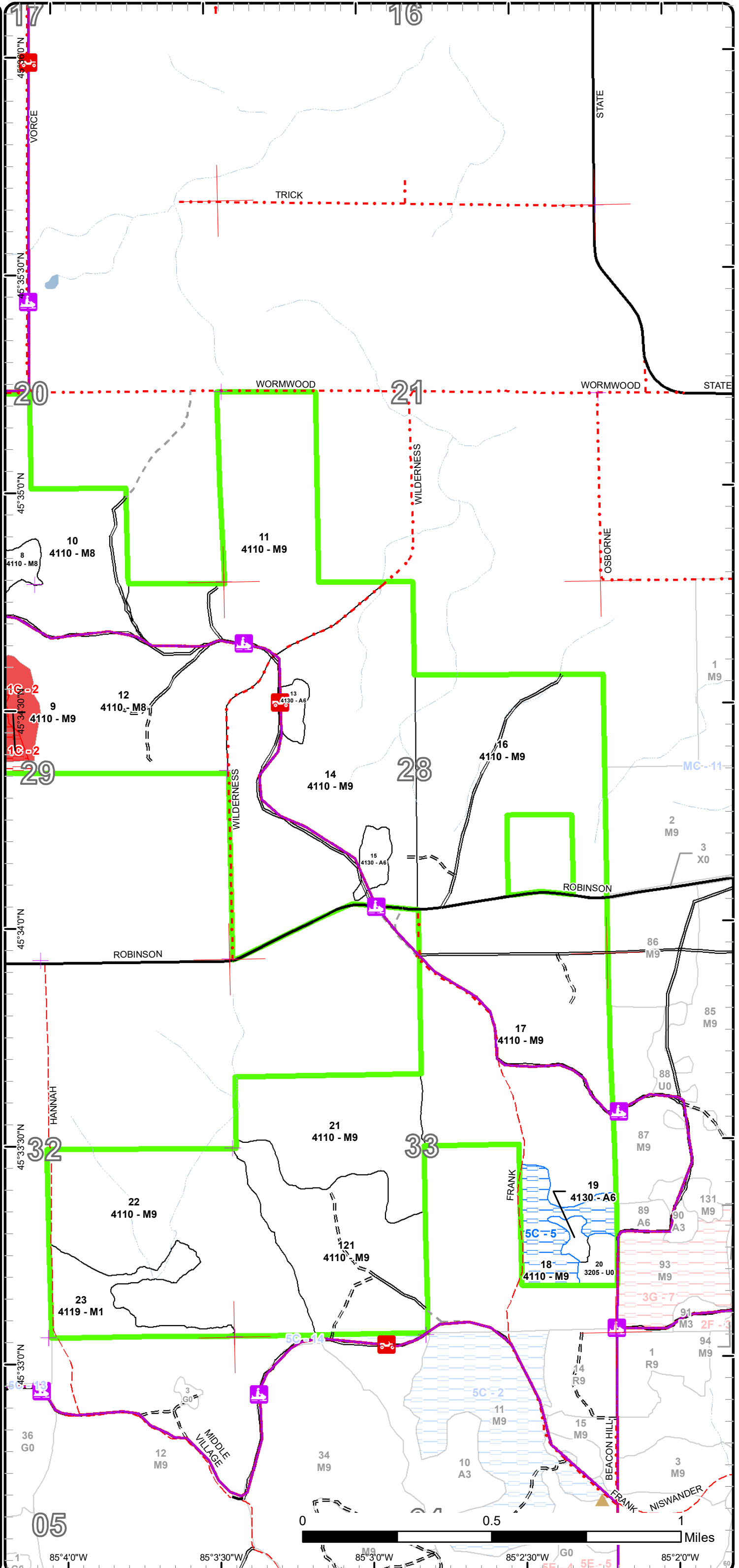


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- Berms
- Compartment Boundary
- Available w/ Constraints
- 5C: Delay treatment for age/size class diversity or exceptional site quality
- Unavailable
- 1C: Other dept or div proc/practices
- Stand Boundaries
- Ecological Reference Areas



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+ | Unnever-Aged | Total |
|------------------------|------------|-----------|----------|----------|----------|-----------|----------|----------|-----------|----------|------------|-------------|----------|----------|----------|----------|----------|--------------|-------------|
| Aspen | 0 | 0 | 0 | 0 | 0 | 19 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 19 |
| Mixed Upland Deciduous | 0 | 30 | 0 | 0 | 0 | 0 | 0 | 0 | 45 | 0 | 10 | 22 | 0 | 0 | 0 | 0 | 0 | 0 | 107 |
| Northern Hardwood | 0 | 35 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 615 | 1257 | 0 | 0 | 0 | 0 | 0 | 0 | 1907 |
| Upland Shrub | 8 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 8 |
| Total | 8 | 65 | 0 | 0 | 0 | 19 | 0 | 0 | 45 | 0 | 625 | 1279 | 0 | 0 | 0 | 0 | 0 | 0 | 2041 |



Report 2 – Treatment Summary

Gaylord Mgt. Unit

Year of Entry: 2024

Acres of Harvest

Compartment 101

Total Compartment Acres: 2,039

Commercial Harvest - 1208
 Harvests with Site Condition - 0
 Next Step Harvest - 320
 Habitat Cut - 320

Cover Type by Harvest Method

| | | Clearcut | Selection | Patch Clearcut | Seed Tree | Shelterwood | Thinning | Overstory Removal | Salvage | Other | Total Acres |
|-------------------|--------------|----------|-------------|----------------|-----------|-------------|----------|-------------------|----------|----------|-------------|
| Northern Hardwood | | 0 | 1208 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1208 |
| | Total | 0 | 1208 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1208 |

Proposed and Next Step Treatments by Method

| | | Harvest | Site Prep | Planting | Seeding | Burning | Pesticide | Monitoring | Other | Non-Forest Mgt. | Total Acres |
|-----------|--------------|-------------|-----------|-------------|----------|----------|-------------|-------------|-------------|-----------------|-------------|
| Current | | 1208 | 0 | 0 | 0 | 35 | 363 | 0 | 0 | 0 | 1606 |
| Next Step | | 320 | 0 | 1548 | 0 | 0 | 1513 | 3111 | 1548 | 0 | 8040 |
| | Total | 1529 | 0 | 1548 | 0 | 0 | 1548 | 3474 | 1548 | 0 | 9646 |



| Stand Name | Treatment Name | Acres | Stand CoverType | Size Density | Stand Age | BA Range | Treatment Type | Treatment Method | Cover Type Objective | Age Structure | Habitat Cut |
|------------|----------------|-------|-----------------|--------------|-----------|----------|----------------|------------------|----------------------|---------------|-------------|
|------------|----------------|-------|-----------------|--------------|-----------|----------|----------------|------------------|----------------------|---------------|-------------|

Approved Treatments:

| | | | | | | | | | | | |
|--|-------------------------|------|---------------------------------------|----------------|-----|----------|------------|------------------------------|----------------------------------|-----------|----|
| 4 | 52101004-Monitor | 59.1 | 4111 - S.Maple, Hard Mast Association | Sawtimber Well | 95 | 51-80 | Monitoring | Natural Regen (Intermediate) | 411 - Northern Hardwood | Two-Aged | No |
| <p><u>Prescription</u> Monitor mixed hardwood regen, especially the stocking density of ash and beech. <u>Specs:</u> <u>Next Step Treatments:</u> Harvest, Group Selection; Pesticide, Skidder - Site Prep; Other, ; Planting, Initial Plant; Monitoring, Artificial Regen(1yr); Monitoring, Artificial Regen(3yr) <u>Acceptable Regen:</u> A fully stocked mix of northern hardwood species, without excessive ash/beech regen. <u>Other Comment:</u> Depending on future level of ash/beech regen, possible group selection cut followed by planting of red oak and mixed conifers is possible. <u>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /2028</p> | | | | | | | | | | | |
| 5 | 52101005-Monitor | 29.4 | 4199 - Other Mixed Upland Deciduous | Sapling Poor | 2 | Immature | Monitoring | Natural Regen (Intermediate) | 4116 - Mixed N. Hardwood - Aspen | Even-Aged | No |
| <p><u>Prescription</u> Monitor composition/density of regen. Possible future site prep and planting may occur based on regen survey results. <u>Specs:</u> <u>Next Step Treatments:</u> <u>Acceptable Regen:</u> A mix of northern hardwood/aspen, that doesn't result in excessive ash/beech regen. <u>Other Comment:</u> <u>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /2026</p> | | | | | | | | | | | |
| 6 | 52101006-Monitor | 95.4 | 4119 - Mixed Northern Hardwoods | Sawtimber Well | 100 | 51-80 | Monitoring | Natural Regen (Intermediate) | 411 - Northern Hardwood | Two-Aged | No |
| <p><u>Prescription</u> Monitor mixed hardwood regen, especially the stocking density of ash and beech. <u>Specs:</u> <u>Next Step Treatments:</u> Harvest, Group Selection; Pesticide, Skidder - Site Prep; Other, ; Planting, Initial Plant; Monitoring, Artificial Regen(1yr); Monitoring, Artificial Regen(3yr) <u>Acceptable Regen:</u> A fully stocked mix of northern hardwood species, without excessive ash/beech regen. <u>Other Comment:</u> Depending on future level of ash/beech regen, possible group selection cut followed by planting of red oak and mixed conifers is possible. <u>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /2028</p> | | | | | | | | | | | |



Standard

| Treatment Name | Acres | Stand CoverType | Size Density | Stand Age | BA Range | Treatment Type | Treatment Method | Cover Type Objective | Age Structure | Habitat Cut |
|----------------|-------|-----------------|--------------|-----------|----------|----------------|------------------|----------------------|---------------|-------------|
|----------------|-------|-----------------|--------------|-----------|----------|----------------|------------------|----------------------|---------------|-------------|

| | | | | | | | | | | | |
|----------|-----------------------------|------|------------------------------------|-------------------|-----|-------------|---------|--------------------------|---------------------------------------|-----------------|----|
| 7 | 52101007- SelCut | 15.8 | 4119 - Mixed Northern Hardwoods | Sawtimber Well | 105 | 111- 140 | Harvest | Single Tree Selection | 4119 - Mixed Northern Hardwoods | Uneven- Aged | No |
|----------|-----------------------------|------|------------------------------------|-------------------|-----|-------------|---------|--------------------------|---------------------------------------|-----------------|----|

Prescription Mark stand following 2012 ash and beech salvage guidelines. There may be areas within the stand where stocking level needs to be reduced to 70 - 80 to release crop trees. Overall stand BA will potentially be lower than desirable because of ash and beech salvage operations. Non-winter harvest only because of designated snowmobile trails.

Next Step Monitoring, Natural Regen (Intermediate)

Treatments:

Acceptable

Regen: Monitor and evaluate post-salvage regen composition and density. Potential next steps could consist of measures to encourage regen of species other than ash and beech, including, but not limited to, yellow birch, black cherry, red oak, hemlock, white pine, basswood, and sugar maple.

Other

Comment: Large diameter northern hardwood. Areas of significant white ash and beech windthrow. Beech scale also present. Adjacent to MSU study area. Snowmobile trail lies along the east boundary of this stand. Old next step comments: Monitor and evaluate post-salvage regen composition and density. Potential next steps could consist of measures to encourage regen of species other than ash and beech, including, but not limited to, yellow birch, black cherry, red oak, hemlock, white pine, basswood, and sugar maple.

Site Condition

Proposed Start Date: 10/1 /2015

| | | | | | | | | | | | |
|-----------|----------------------------|-------|-----------------------------------|---------------------|-----|-------|---------|-----------------|----------------|----------|----|
| 10 | 52101010- GSCut | 166.5 | 4110 - Sugar Maple Association | Sawtimber Medium | 100 | 51-80 | Harvest | Group Selection | 4123 - Red Oak | Two-Aged | No |
|-----------|----------------------------|-------|-----------------------------------|---------------------|-----|-------|---------|-----------------|----------------|----------|----|

Prescription Regeneration gaps between .5 – 5 acres will be created throughout the stands. Gaps will be identified on the ground and all trees 6' or taller will be removed from the gap. Include trail protection specs.

Next Step Pesticide, Skidder - Site Prep; Other, ; Planting, Initial Plant; Monitoring, Artificial Regen(1yr); Monitoring, Artificial Regen(3yr)

Treatments:

Acceptable

Regen: Planted RO 2/3rds, 1/3 conifer at 8x8 spacing. Other desirable hardwood regen that is not ironwood, beech, or ash is acceptable. There are plans for a mechanical release at year 5.

Other

Comment: No more than 30% of one stand will be gap harvested. Total amount of gap acres to be targeted of the 1,698 total acres will be around 280 acres. Incidental removal of trees between gaps will be required in many situations.

Site Condition

Proposed Start Date: 10/1 /2023

| | | | | | | | | | | | |
|-----------|----------------------------|-------|-----------------------------------|-------------------|----|-------|---------|-----------------|----------------|----------|----|
| 11 | 52101011- GSCut | 142.4 | 4110 - Sugar Maple Association | Sawtimber Well | 95 | 51-80 | Harvest | Group Selection | 4123 - Red Oak | Two-Aged | No |
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Proposed Start Date: 10/1 /2023



| Stand Name | Treatment Name | Acres | Stand CoverType | Size Density | Stand Age | BA Range | Treatment Type | Treatment Method | Cover Type Objective | Age Structure | Habitat Cut |
|---|------------------|-------|--------------------------------|------------------|-----------|----------|----------------|------------------------------|-------------------------|---------------|-------------|
| 12 | 52101012-GSCut | 183.6 | 4110 - Sugar Maple Association | Sawtimber Medium | 100 | 51-80 | Harvest | Group Selection | 4123 - Red Oak | Two-Aged | No |
| <p><u>Prescription Specs:</u> Regeneration gaps between .5 – 5 acres will be created throughout the stands. Gaps will be identified on the ground and all trees 6' or taller will be removed from the gap. Include trail protection specs.</p> <p><u>Next Step Treatments:</u> Pesticide, Skidder - Site Prep; Other, ; Planting, Initial Plant; Monitoring, Artificial Regen(1yr); Monitoring, Artificial Regen(3yr)</p> <p><u>Acceptable Regen:</u> Planted RO 2/3rds, 1/3 conifer at 8x8 spacing. Other desirable hardwood regen that is not ironwood, beech, or ash is acceptable. There are plans for a mechanical release at year 5.</p> <p><u>Other Comment:</u> No more than 30% of one stand will be gap harvested. Incidental removal of trees between gaps will be required in many situations.</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2023</p> | | | | | | | | | | | |
| 14 | 52101014-GSCut | 228.7 | 4110 - Sugar Maple Association | Sawtimber Well | 105 | 51-80 | Harvest | Group Selection | 4123 - Red Oak | Two-Aged | No |
| <p><u>Prescription Specs:</u> Regeneration gaps between .5 – 5 acres will be created throughout the stands. Gaps will be identified on the ground and all trees 6' or taller will be removed from the gap. Include trail protection specs.</p> <p><u>Next Step Treatments:</u> Pesticide, Skidder - Site Prep; Other, ; Planting, Initial Plant; Monitoring, Artificial Regen(1yr); Monitoring, Artificial Regen(3yr)</p> <p><u>Acceptable Regen:</u> Planted RO 2/3rds, 1/3 conifer at 8x8 spacing. Other desirable hardwood regen that is not ironwood, beech, or ash is acceptable. There are plans for a mechanical release at year 5.</p> <p><u>Other Comment:</u> No more than 30% of one stand will be gap harvested. Incidental removal of trees between gaps will be required in many situations.</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2023</p> | | | | | | | | | | | |
| 16 | 52101016-Monitor | 165.9 | 4110 - Sugar Maple Association | Sawtimber Well | 105 | 51-80 | Monitoring | Natural Regen (Intermediate) | 411 - Northern Hardwood | Two-Aged | No |
| <p><u>Prescription Specs:</u> Monitor mixed hardwood regen, especially the stocking density of ash and beech.</p> <p><u>Next Step Treatments:</u> Harvest, Group Selection; Pesticide, Skidder - Site Prep; Other, ; Planting, Initial Plant; Monitoring, Artificial Regen(1yr); Monitoring, Artificial Regen(3yr)</p> <p><u>Acceptable Regen:</u> A fully stocked mix of northern hardwood species, without excessive ash/beech regen.</p> <p><u>Other Comment:</u> Depending on future density of ash/beech regen, possible group selection cut followed by planting of red oak and mixed conifers is possible.</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2028</p> | | | | | | | | | | | |
| 17 | 52101017-GSCut | 228.2 | 4110 - Sugar Maple Association | Sawtimber Well | 105 | 51-80 | Harvest | Group Selection | 4123 - Red Oak | Two-Aged | No |
| <p><u>Prescription Specs:</u> Regeneration gaps between .5 – 5 acres will be created throughout the stands. Gaps will be identified on the ground and all trees 6' or taller will be removed from the gap. Include trail protection specs.</p> <p><u>Next Step Treatments:</u> Pesticide, Skidder - Site Prep; Other, ; Planting, Initial Plant; Monitoring, Artificial Regen(1yr); Monitoring, Artificial Regen(3yr)</p> <p><u>Acceptable Regen:</u> Planted RO 2/3rds, 1/3 conifer at 8x8 spacing. Other desirable hardwood regen that is not ironwood, beech, or ash is acceptable. There are plans for a mechanical release at year 5.</p> <p><u>Other Comment:</u> No more than 30% of one stand will be gap harvested. Incidental removal of trees between gaps will be required in many situations.</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2023</p> | | | | | | | | | | | |



| Stand | Treatment Name | Acres | Stand CoverType | Size Density | Stand Age | BA Range | Treatment Type | Treatment Method | Cover Type Objective | Age Structure | Habitat Cut |
|---|------------------|-------|-------------------------------------|----------------|-----------|----------|----------------|------------------------------|-------------------------------------|---------------|-------------|
| 21 | 52101021-GSCut | 86.7 | 4110 - Sugar Maple Association | Sawtimber Well | 95 | 51-80 | Harvest | Group Selection | 4123 - Red Oak | Two-Aged | No |
| <p><u>Prescription</u> Regeneration gaps between .5 – 5 acres will be created throughout the stands. Gaps will be identified on the ground and all trees 6' or taller will be removed from the gap.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Pesticide, Skidder - Site Prep; Other, ; Planting, Initial Plant; Monitoring, Artificial Regen(1yr); Monitoring, Artificial Regen(3yr)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Planted RO 2/3rds, 1/3 conifer at 8x8 spacing. Other desirable hardwood regen that is not ironwood, beech, or ash is acceptable. There are plans for a mechanical release at year 5.</p> <p><u>Regen:</u></p> <p><u>Other</u> No more than 30% of one stand will be gap harvested. Incidental removal of trees between gaps will be required in many situations.</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2023</p> | | | | | | | | | | | |
| 22 | 52101022-GSCut | 156.2 | 4110 - Sugar Maple Association | Sawtimber Well | 100 | 51-80 | Harvest | Group Selection | 4123 - Red Oak | Two-Aged | No |
| <p><u>Prescription</u> Regeneration gaps between .5 – 5 acres will be created throughout the stands. Gaps will be identified on the ground and all trees 6' or taller will be removed from the gap. Include trail protection specs.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Pesticide, Skidder - Site Prep; Other, ; Planting, Initial Plant; Monitoring, Artificial Regen(1yr); Monitoring, Artificial Regen(3yr)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Planted RO 2/3rds, 1/3 conifer at 8x8 spacing. Other desirable hardwood regen that is not ironwood, beech, or ash is acceptable. There are plans for a mechanical release at year 5.</p> <p><u>Regen:</u></p> <p><u>Other</u> No more than 30% of one stand will be gap harvested. Incidental removal of trees between gaps will be required in many situations.</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2023</p> | | | | | | | | | | | |
| 23 | 52101023-Spray | 35.0 | 4119 - Mixed Northern Hardwoods | Sapling Poor | 2 | Immature | Pesticide | ERROR | 4199 - Other Mixed Upland Deciduous | Even-Aged | No |
| <p><u>Prescription</u> Herbicide application for pre-planting site prep.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Other, ; Planting, Initial Plant; Monitoring, Artificial Regen(1yr); Monitoring, Artificial Regen(3yr)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Planted red oak and mixed conifer in areas not occupied by desirable hardwood or aspen regen, at 8x8 spacing. There are plans for a mechanical release at year 5.</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 /2023</p> | | | | | | | | | | | |
| 205 | 52101205-Monitor | 13.2 | 4199 - Other Mixed Upland Deciduous | Poetimber Poor | 75 | 1-50 | Monitoring | Natural Regen (Intermediate) | 4116 - Mixed N. Hardwood - Aspen | Even-Aged | No |
| <p><u>Prescription</u> Monitor composition/density of regen. Possible future site prep and planting may occur based on regen survey results.</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> A mix of northern hardwood/aspen, that doesn't result in excessive ash/beech regen.</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 /2026</p> | | | | | | | | | | | |



S
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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 |
|----------------|-------|-----------------|--------------|-----------|----------|----------------|------------------|----------------------|---------------|-------------|
|----------------|-------|-----------------|--------------|-----------|----------|----------------|------------------|----------------------|---------------|-------------|

Total Treatment Acreage Proposed: 1606.1

Report 4 – Site Conditions

Gaylord Mgt. Unit
Donald Stacks : Examiner

Compartment: 101
Year of Entry: 2024

Availability for Management

| Total Acres | Acres Available | Acres Avail | | Acres Not Available | Dominant Site Conditions | | | | | |
|----------------|--------------------|----------------|--|------------------------|--------------------------|----|----|----|----|----|
| | | With Condition | | | 5C | 1C | 2F | 3A | 3G | 5E |
| 19 | 19 | 0 | | 0 | Aspen | | | | | |
| 106 | 43 | 0 | | 64 | Mixed Upland Deciduous | | | | | |
| 1906 | 1677 | 29 | | 200 | Northern Hardwood | | | | | |
| 8 | 8 | 0 | | 0 | Upland Shrub | | | | | |
| 2,039 | 1,747 | 29 | | 263 | Total Forested Acres | | | | | |
| | 86% | 1% | | 13% | Relative Percent | | | | | |

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

| Site No. | Dominant Site Cond Availability | Dominant Site Condition | Acres | Other Site Condition | Other Site Condition | Other Site Condition | Other Site Condition |
|---|---------------------------------|--------------------------------------|-------|----------------------|----------------------|----------------------|----------------------|
| 1 | Unavailable | 2F: Too steep | 33 | Unspecified | Unspecified | Unspecified | Unspecified |
| Comments: | | | | | | | |
| 2 | Unavailable | 1C: Other dept or div proc/practices | 89 | Unspecified | Unspecified | Unspecified | Unspecified |
| Comments: MSU (Dr. Walters') research area. | | | | | | | |
| 3 | Unavailable | 5E: Long-Term Retention | 1 | Unspecified | Unspecified | Unspecified | Unspecified |
| Comments: | | | | | | | |
| 4 | Unavailable | 5E: Long-Term Retention | 4 | Unspecified | Unspecified | Unspecified | Unspecified |
| Comments: | | | | | | | |

Report 4 – Site Conditions

Gaylord Mgt. Unit
Donald Stacks : Examiner

Compartment: 101
Year of Entry: 2024

| | | | | | | | |
|--|--------------------|---|----|-------------|-------------|-------------|-------------|
| 5 | Available | 5C: Delay treatment for age/size class diversity or exceptional site quality | 29 | Unspecified | Unspecified | Unspecified | Unspecified |
| Comments: | | | | | | | |
| 6 | Unavailable | 2F: Too steep | 26 | Unspecified | Unspecified | Unspecified | Unspecified |
| Comments: Multiple, very steep slopes. | | | | | | | |
| 7 | Unavailable | 3A: Conservation Values incompatible with harvest at this time | 79 | Unspecified | Unspecified | Unspecified | Unspecified |
| Comments: Designated SCA, (Habitat Area/Corridor). Fragile soil, old dune areas with steep slopes. Hemlock component present. Groundwater seeps present. | | | | | | | |
| 8 | Unavailable | 3G: Other Influence zones - See comments | 5 | Unspecified | Unspecified | Unspecified | Unspecified |
| Comments: Low acreage/volume presently. | | | | | | | |
| 9 | Unavailable | 2F: Too steep | 28 | Unspecified | Unspecified | Unspecified | Unspecified |
| Comments: | | | | | | | |



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 |
|--|--------------|--------------------|----------------|-------|
| 52101001 | Habitat Area | Other Habitat Area | SCA | 79 |
| Comments | | | | |
| Fragile soil, old dune areas with steep slopes. Hemlock componente present. Occassional seeps. | | | | |



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



| Stand | Level 4 Cover Type | Size Density | Acres | Stand Age | BA Range | Managed Site | General Comments | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---------------------------------------|-----------------|------------|------------|----------|--------------|---|-------------|----|---------------|----|----|--------------|----|----------|----|--|-------------|----|--------------|----|-----|----------------|----|--------------|----|--|--|---|--------------------|---------|-------------|-------------|----------------------|--------------|--------------|------------|--|-----|--------------------|------------|-------------|--------|--------------|------------|---------------|---------|--------------|------------|----------|---------|--------------|---------|--------------|---------|--------------|---------|--------------|---------|----------|---------|--------------|---------|---------------|-----|--------------|---------|
| 1 | 4119 - Mixed Northern Hardwoods | Sawtimber Well | 78.5 | 90 | 111-140 | N/A | Stand is a designated SCA, (Habitat Area/Corridor). Mix of northern hardwood and oak sawtimber lying on old Lake Michigan shoreline dunes. Areas of desirable advanced sugar maple present. Fragile soil with numerous steep valleys and ridges. Several groundwater seeps present. Stand BA is about 120 sq. ft.. Fair amount of scattered hemlock present, mostly in the north half of the stand. Most, if not all, of the white ash is dead, and beech is at various stages of dead/dying. Site condition is also applied. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <table border="1"> <thead> <tr> <th>Canopy Species</th> <th>% Cover</th> <th>Size Class</th> <th>DBH</th> <th>Age</th> </tr> </thead> <tbody> <tr> <td>Red Oak</td> <td>22</td> <td>Log/Pole/XLog</td> <td>17</td> <td></td> </tr> <tr> <td>Paper Birch</td> <td>5</td> <td>Log/Pole</td> <td>14</td> <td></td> </tr> <tr> <td>Basswood</td> <td>4</td> <td>Log/Pole</td> <td>11</td> <td></td> </tr> <tr> <td>Bigtooth Aspen</td> <td>8</td> <td>Log</td> <td>16</td> <td></td> </tr> <tr> <td>Beech</td> <td>8</td> <td>Log/Pole/XLog</td> <td>12</td> <td></td> </tr> <tr> <td>Sugar Maple</td> <td>53</td> <td>Log/Pole/Sap</td> <td>10</td> <td>90</td> </tr> </tbody> </table> | | Canopy Species | % Cover | Size Class | DBH | Age | | Red Oak | 22 | Log/Pole/XLog | 17 | | Paper Birch | 5 | Log/Pole | 14 | | Basswood | 4 | Log/Pole | 11 | | Bigtooth Aspen | 8 | Log | 16 | | Beech | 8 | Log/Pole/XLog | 12 | | Sugar Maple | 53 | Log/Pole/Sap | 10 | 90 | <table border="1"> <thead> <tr> <th>Sub-Canopy Species</th> <th>Density</th> <th>Avg. Height</th> <th>Size</th> </tr> </thead> <tbody> <tr> <td>Beech</td> <td>Medium</td> <td>10 - 20 feet</td> <td>Sapling</td> </tr> <tr> <td>Ironwood</td> <td>Low</td> <td>>20 feet</td> <td>Sapling</td> </tr> <tr> <td>Sugar Maple</td> <td>Medium</td> <td>10 - 20 feet</td> <td>Sapling</td> </tr> <tr> <td>White Ash</td> <td>Low</td> <td>10 - 20 feet</td> <td>Sapling</td> </tr> <tr> <td>Red Oak</td> <td>Low</td> <td>10 - 20 feet</td> <td>Sapling</td> </tr> <tr> <td>Striped Maple</td> <td>Low</td> <td>10 - 20 feet</td> <td>Sapling</td> </tr> </tbody> </table> | | Sub-Canopy Species | Density | Avg. Height | Size | Beech | Medium | 10 - 20 feet | Sapling | Ironwood | Low | >20 feet | Sapling | Sugar Maple | Medium | 10 - 20 feet | Sapling | White Ash | Low | 10 - 20 feet | Sapling | Red Oak | Low | 10 - 20 feet | Sapling | Striped Maple | Low | 10 - 20 feet | Sapling |
| Canopy Species | % Cover | Size Class | DBH | Age | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Red Oak | 22 | Log/Pole/XLog | 17 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Paper Birch | 5 | Log/Pole | 14 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Basswood | 4 | Log/Pole | 11 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bigtooth Aspen | 8 | Log | 16 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Beech | 8 | Log/Pole/XLog | 12 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Sugar Maple | 53 | Log/Pole/Sap | 10 | 90 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Sub-Canopy Species | Density | Avg. Height | Size | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Beech | Medium | 10 - 20 feet | Sapling | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ironwood | Low | >20 feet | Sapling | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Sugar Maple | Medium | 10 - 20 feet | Sapling | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| White Ash | Low | 10 - 20 feet | Sapling | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Red Oak | Low | 10 - 20 feet | Sapling | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Striped Maple | Low | 10 - 20 feet | Sapling | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | 4199 - Other Mixed Upland Deciduous | Poletimber Poor | 9.7 | 92 | 51-80 | N/A | Lesser stocked stand of mixed northern hardwood, big toothed aspen, and northern red oak. BA is about 70 sq. ft. Part of stand is inoperable on the side of a steep, south facing slope adjacent to seasonal county road. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <table border="1"> <thead> <tr> <th>Canopy Species</th> <th>% Cover</th> <th>Size Class</th> <th>DBH</th> <th>Age</th> </tr> </thead> <tbody> <tr> <td>Beech</td> <td>10</td> <td>Pole/Sap/Log</td> <td>8</td> <td></td> </tr> <tr> <td>Red Oak</td> <td>10</td> <td>Pole/Log</td> <td>8</td> <td></td> </tr> <tr> <td>Sugar Maple</td> <td>45</td> <td>Pole/Sap/Log</td> <td>8</td> <td>92</td> </tr> <tr> <td>Bigtooth Aspen</td> <td>35</td> <td>Pole/Sap/Log</td> <td>8</td> <td></td> </tr> </tbody> </table> | | Canopy Species | % Cover | Size Class | DBH | Age | | Beech | 10 | Pole/Sap/Log | 8 | | Red Oak | 10 | Pole/Log | 8 | | Sugar Maple | 45 | Pole/Sap/Log | 8 | 92 | Bigtooth Aspen | 35 | Pole/Sap/Log | 8 | | <table border="1"> <thead> <tr> <th>Sub-Canopy Species</th> <th>Density</th> <th>Avg. Height</th> <th>Size</th> </tr> </thead> <tbody> <tr> <td>Bigtooth Aspen</td> <td>Low</td> <td>10 - 20 feet</td> <td>Sapling</td> </tr> <tr> <td>Serviceberry (Juneberry)</td> <td>Low</td> <td>10 - 20 feet</td> <td>Tall Shrub</td> </tr> <tr> <td>Ironwood</td> <td>Low</td> <td>10 - 20 feet</td> <td>Tall Shrub</td> </tr> <tr> <td>Pin Cherry</td> <td>Low</td> <td>10 - 20 feet</td> <td>Tall Shrub</td> </tr> <tr> <td>Beech</td> <td>Low</td> <td>10 - 20 feet</td> <td>Sapling</td> </tr> <tr> <td>Sugar Maple</td> <td>Medium</td> <td>10 - 20 feet</td> <td>Sapling</td> </tr> </tbody> </table> | | Sub-Canopy Species | Density | Avg. Height | Size | Bigtooth Aspen | Low | 10 - 20 feet | Sapling | Serviceberry (Juneberry) | Low | 10 - 20 feet | Tall Shrub | Ironwood | Low | 10 - 20 feet | Tall Shrub | Pin Cherry | Low | 10 - 20 feet | Tall Shrub | Beech | Low | 10 - 20 feet | Sapling | Sugar Maple | Medium | 10 - 20 feet | Sapling | | | | | | | | | | |
| Canopy Species | % Cover | Size Class | DBH | Age | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Beech | 10 | Pole/Sap/Log | 8 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Red Oak | 10 | Pole/Log | 8 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Sugar Maple | 45 | Pole/Sap/Log | 8 | 92 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bigtooth Aspen | 35 | Pole/Sap/Log | 8 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Sub-Canopy Species | Density | Avg. Height | Size | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bigtooth Aspen | Low | 10 - 20 feet | Sapling | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Serviceberry (Juneberry) | Low | 10 - 20 feet | Tall Shrub | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ironwood | Low | 10 - 20 feet | Tall Shrub | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pin Cherry | Low | 10 - 20 feet | Tall Shrub | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Beech | Low | 10 - 20 feet | Sapling | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Sugar Maple | Medium | 10 - 20 feet | Sapling | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | 4199 - Other Mixed Upland Deciduous | Sawtimber Well | 21.7 | 100 | 81-110 | N/A | High quality mixed deciduous, mostly red oak sawtimber, with lesser amounts of big-toothed aspen, sugar maple and beech also present. South half of stand is located on the side of a steep, south-facing slope and is mostly inoperable. Ave. BA is about 100 sq. ft. Apply site condition. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <table border="1"> <thead> <tr> <th>Canopy Species</th> <th>% Cover</th> <th>Size Class</th> <th>DBH</th> <th>Age</th> </tr> </thead> <tbody> <tr> <td>Sugar Maple</td> <td>20</td> <td>Log/Pole</td> <td>10</td> <td></td> </tr> <tr> <td>Beech</td> <td>5</td> <td>Log/Pole</td> <td>10</td> <td></td> </tr> <tr> <td>Red Oak</td> <td>50</td> <td>Log/Pole</td> <td>12</td> <td>100</td> </tr> <tr> <td>Bigtooth Aspen</td> <td>25</td> <td>Log/Pole</td> <td>12</td> <td></td> </tr> </tbody> </table> | | Canopy Species | % Cover | Size Class | DBH | Age | | Sugar Maple | 20 | Log/Pole | 10 | | Beech | 5 | Log/Pole | 10 | | Red Oak | 50 | Log/Pole | 12 | 100 | Bigtooth Aspen | 25 | Log/Pole | 12 | | <table border="1"> <thead> <tr> <th>Sub-Canopy Species</th> <th>Density</th> <th>Avg. Height</th> <th>Size</th> </tr> </thead> <tbody> <tr> <td>Sugar Maple</td> <td>Medium</td> <td>10 - 20 feet</td> <td>Sapling</td> </tr> <tr> <td>Red Oak</td> <td>Low</td> <td>10 - 20 feet</td> <td>Sapling</td> </tr> <tr> <td>Ironwood</td> <td>Low</td> <td>10 - 20 feet</td> <td>Pole</td> </tr> <tr> <td>Striped Maple</td> <td>Low</td> <td>5 - 10 feet</td> <td>Sapling</td> </tr> <tr> <td>Beech</td> <td>Medium</td> <td>10 - 20 feet</td> <td>Sapling</td> </tr> </tbody> </table> | | Sub-Canopy Species | Density | Avg. Height | Size | Sugar Maple | Medium | 10 - 20 feet | Sapling | Red Oak | Low | 10 - 20 feet | Sapling | Ironwood | Low | 10 - 20 feet | Pole | Striped Maple | Low | 5 - 10 feet | Sapling | Beech | Medium | 10 - 20 feet | Sapling | | | | | | | | | | | | | | |
| Canopy Species | % Cover | Size Class | DBH | Age | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Sugar Maple | 20 | Log/Pole | 10 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Beech | 5 | Log/Pole | 10 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Red Oak | 50 | Log/Pole | 12 | 100 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bigtooth Aspen | 25 | Log/Pole | 12 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Sub-Canopy Species | Density | Avg. Height | Size | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Sugar Maple | Medium | 10 - 20 feet | Sapling | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Red Oak | Low | 10 - 20 feet | Sapling | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ironwood | Low | 10 - 20 feet | Pole | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Striped Maple | Low | 5 - 10 feet | Sapling | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Beech | Medium | 10 - 20 feet | Sapling | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | 4111 - S.Maple, Hard Mast Association | Sawtimber Well | 59.1 | 95 | 51-80 | N/A | Mixed northern hardwood sawtimber, with scattered red oak especially in northern 1/3 of stand. Stand received an ash/beechn salvage harvest (Emmet Salvage #5, 52-108-13) completed in 2015. Post-harvest residual BA is about 77 sq. ft. Many steep hills. Designated snowmobile trail adjacent to stand. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <table border="1"> <thead> <tr> <th>Canopy Species</th> <th>% Cover</th> <th>Size Class</th> <th>DBH</th> <th>Age</th> </tr> </thead> <tbody> <tr> <td>Sugar Maple</td> <td>60</td> <td>Log/Pole/XLog</td> <td>11</td> <td>95</td> </tr> <tr> <td>Yellow Birch</td> <td>10</td> <td>Log/Pole</td> <td>12</td> <td></td> </tr> <tr> <td>Red Oak</td> <td>20</td> <td>Log/XLog</td> <td>17</td> <td></td> </tr> <tr> <td>Paper Birch</td> <td>10</td> <td>Log/Pole</td> <td>13</td> <td></td> </tr> </tbody> </table> | | Canopy Species | % Cover | Size Class | DBH | Age | | Sugar Maple | 60 | Log/Pole/XLog | 11 | 95 | Yellow Birch | 10 | Log/Pole | 12 | | Red Oak | 20 | Log/XLog | 17 | | Paper Birch | 10 | Log/Pole | 13 | | <table border="1"> <thead> <tr> <th>Sub-Canopy Species</th> <th>Density</th> <th>Avg. Height</th> <th>Size</th> </tr> </thead> <tbody> <tr> <td>Blackberry/Raspberry</td> <td>Medium</td> <td>< 5 feet</td> <td>Tall Shrub</td> </tr> <tr> <td>Sugar Maple</td> <td>Low</td> <td>Variable</td> <td>Sapling</td> </tr> <tr> <td>Beech</td> <td>Medium</td> <td>Variable</td> <td>Sapling</td> </tr> <tr> <td>Striped Maple</td> <td>Low</td> <td>5 - 10 feet</td> <td>Sapling</td> </tr> <tr> <td>Ironwood</td> <td>Low</td> <td>10 - 20 feet</td> <td>Sapling</td> </tr> <tr> <td>Paper Birch</td> <td>Low</td> <td>Variable</td> <td>Sapling</td> </tr> <tr> <td>White Ash</td> <td>Low</td> <td>< 5 feet</td> <td>Sapling</td> </tr> </tbody> </table> | | Sub-Canopy Species | Density | Avg. Height | Size | Blackberry/Raspberry | Medium | < 5 feet | Tall Shrub | Sugar Maple | Low | Variable | Sapling | Beech | Medium | Variable | Sapling | Striped Maple | Low | 5 - 10 feet | Sapling | Ironwood | Low | 10 - 20 feet | Sapling | Paper Birch | Low | Variable | Sapling | White Ash | Low | < 5 feet | Sapling | | | | | | |
| Canopy Species | % Cover | Size Class | DBH | Age | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Sugar Maple | 60 | Log/Pole/XLog | 11 | 95 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Yellow Birch | 10 | Log/Pole | 12 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Red Oak | 20 | Log/XLog | 17 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Paper Birch | 10 | Log/Pole | 13 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Sub-Canopy Species | Density | Avg. Height | Size | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Blackberry/Raspberry | Medium | < 5 feet | Tall Shrub | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Sugar Maple | Low | Variable | Sapling | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Beech | Medium | Variable | Sapling | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Striped Maple | Low | 5 - 10 feet | Sapling | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ironwood | Low | 10 - 20 feet | Sapling | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Paper Birch | Low | Variable | Sapling | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| White Ash | Low | < 5 feet | Sapling | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |



| Stand | Level 4 Cover Type | Size Density | Acres | Stand Age | BA Range | Managed Site | General Comments | | | |
|-----------------------|-------------------------------------|------------------|-------------------|------------|------------|---------------------------|--|--|--------------------|-------------|
| 5 | 4199 - Other Mixed Upland Deciduous | Sapling Poor | 29.5 | 2 | Immature | N/A | Stand consists of a sparse mix of northern hardwood/aspens seedlings/saplings located on very hilly, steep topography, that was final harvested, completed in 2019. Sparse, scattered large red oak sawtimber can also be found in stand. Adjacent to private property on west side. | | | |
| Canopy Species | | % Cover | Size Class | DBH | Age | | | | | |
| White Ash | | 20 | Sapling | 1 | 2 | | | | | |
| Beech | | 25 | Sapling | 1 | 2 | | | | | |
| Bigtooth Aspen | | 25 | Sapling | 1 | 2 | | | | | |
| Paper Birch | | 20 | Sapling | 1 | 2 | | | | | |
| Sugar Maple | | 10 | Sapling | 1 | 2 | | | | | |
| 6 | 4119 - Mixed Northern Hardwoods | Sawtimber Well | 95.5 | 100 | 51-80 | N/A | Large diameter, mixed northern hardwood, mostly high quality sugar maple, especially in the north half of the stand. Stand sits on a plateau with significant slopes on the north and east sides. Ash/beechn salvage (Emmet Salvage #4, 52-103-13), completed in 2019. Post-harvest BA is 64 sq. ft. A single tree selection harvest was completed in 2011. Designated snowmobile trail located near SE corner of the stand. | | | |
| Canopy Species | | % Cover | Size Class | DBH | Age | Sub-Canopy Species | | Density | Avg. Height | Size |
| Yellow Birch | | 5 | Log/Pole | 12 | | Striped Maple | | Low | 10 - 20 feet | Sapling |
| Basswood | | 10 | Log/Pole | 12 | | Sugar Maple | | Medium | Variable | Sapling |
| Paper Birch | | 10 | Log/Pole | 10 | | Basswood | | Low | 5 - 10 feet | Sapling |
| Bigtooth Aspen | | 5 | Log | 16 | | White Ash | | Medium | < 5 feet | Sapling |
| Sugar Maple | | 64 | Log/XLog/Pole | 12 | 100 | Blackberry/Raspberry | | High | < 5 feet | Tall Shrub |
| Black Cherry | | 3 | Log/Pole | 12 | | Beech | | Medium | Variable | Sapling |
| Red Maple | | 3 | Log/XLog/Pole | 12 | | | | | | |
| 7 | 4119 - Mixed Northern Hardwoods | Sawtimber Well | 16.2 | 105 | 111-140 | N/A | | Large diameter mixed northern hardwood. Stand is currently under contract (Stymie's Selection, 52-129-16) until 03/31/2022. No harvest activity has taken place to date. Stand has been impacted by Emerald Ash Borer and Beech Bark Disease. Mortality has increased since sale area was prepared in 2016. Areas of significant white ash and beech windthrow were present 20 years ago. Adjacent to MSU study area. Snowmobile trail lies along the east boundary of this stand. | | |
| Canopy Species | | % Cover | Size Class | DBH | Age | Sub-Canopy Species | Density | | Avg. Height | Size |
| Beech | | 18 | Log/XLog/Pole | 16 | | Sugar Maple | Medium | | 10 - 20 feet | Sapling |
| Bigtooth Aspen | | 2 | Log | 20 | | White Ash | Low | | 10 - 20 feet | Sapling |
| Sugar Maple | | 39 | Log/Pole/XLog | 11 | 105 | Paper Birch | Low | | 10 - 20 feet | Sapling |
| Basswood | | 4 | Log/Pole/XLog | 14 | | Beech | Medium | | 10 - 20 feet | Sapling |
| Red Oak | | 2 | Log/XLog | 20 | | Ironwood | Low | | 10 - 20 feet | Sapling |
| White Ash | | 27 | Log/XLog/Pole | 14 | | Striped Maple | Low | | 5 - 10 feet | Sapling |
| Paper Birch | | 8 | Pole/Log | 14 | | | | | | |
| 8 | 4110 - Sugar Maple Association | Sawtimber Medium | 15.8 | 106 | 51-80 | N/A | Small, lesser-stocked stand of northern hardwood, mostly sugar maple sawtimber, on hilly terrain. This stand contained the first known occurrence of beech bark disease in Emmet County. A plan was implemented to try to contain the beech scale to this stand. All beech were harvested within the stand along with a few sugar maple and ash in 2005. After the harvest, 1,500 white pine seedlings and 2,000 red oak acorns were planted over a two acre area with minimal survival. Currently, the stand consists almost entirely of lower stocked sugar maple sawtimber, with a very dense growth of raspberry in the understory. BA is about 60 sq. ft. Beech regen, with lesser amounts of sugar maple and ash, is found throughout the stand. | | | |
| Canopy Species | | % Cover | Size Class | DBH | Age | Sub-Canopy Species | | Density | Avg. Height | Size |
| Sugar Maple | | 90 | Log/XLog/Pole | 14 | 106 | Sugar Maple | | Low | 5 - 10 feet | Sapling |
| Paper Birch | | 8 | Log/Pole | 12 | | Beech | | Medium | 5 - 10 feet | Sapling |
| Red Oak | | 2 | XLog | 20 | | Striped Maple | | Low | 5 - 10 feet | Sapling |
| | | | | | | Black Raspberry | Full | 5 - 10 feet | Tall Shrub | |



| Stand | Level 4 Cover Type | Size Density | Acres | Stand Age | BA Range | Managed Site | General Comments | | | | |
|----------------|--------------------------------|------------------|---------------|-----------|----------|----------------------|---|---------|--------------|------------|--|
| 9 | 4110 - Sugar Maple Association | Sawtimber Well | 88.9 | 95 | 51-80 | N/A | Stand consists of a mix of mature northern hardwood sawtimber, mostly sugar maple. BA is presently about 80 sq. ft. Stand is currently being monitored as an MSU research area, presently studying hardwood regen in various sized canopy gaps, created in 2009 - 2011. Stand was also marked and thinned between gaps. Dense advanced mixed hardwood regen found throughout stand. Beech bark disease, EAB, and ash decline has been documented in stand. Site condition applied to stand to allow MSU research to continue. | | | | |
| Canopy Species | | % Cover | Size Class | DBH | Age | Sub-Canopy Species | | Density | Avg. Height | Size | |
| Beech | | 5 | Log/XLog/Pole | 16 | | Sugar Maple | | Medium | Variable | Sapling | |
| Sugar Maple | | 83 | Log/Pole/XLog | 14 | 95 | White Ash | | High | Variable | Sapling | |
| Red Oak | | 2 | Log/XLog/Pole | 14 | | Beech | | High | Variable | Sapling | |
| Basswood | | 5 | Log/Pole | 12 | | Blackberry/Raspberry | | Medium | < 5 feet | Tall Shrub | |
| Paper Birch | | 5 | Log/Pole | 10 | | | | | | | |
| 10 | 4110 - Sugar Maple Association | Sawtimber Medium | 166.5 | 100 | 51-80 | N/A | Large diameter mixed northern hardwood. Ash/beech salvage cut (Emmet Salvage #2, 52-105-13) completed in 2015. Post-harvest BA is about 55 sq. ft. Selection harvest occurred during 2004 YOE.. Designated snowmobile trail runs along south and west boundaries of stand. Dense ash/beech regen in much of the stand. Many hills with steep slopes present. | | | | |
| Canopy Species | | % Cover | Size Class | DBH | Age | Sub-Canopy Species | | Density | Avg. Height | Size | |
| Black Cherry | | 3 | Log/Pole | 12 | | Striped Maple | | Low | 10 - 20 feet | Sapling | |
| Sugar Maple | | 77 | Log/XLog/Pole | 12 | 100 | Blackberry/Raspberry | | Full | < 5 feet | Tall Shrub | |
| Paper Birch | | 5 | Log/Pole | 10 | | Beech | | High | Variable | Sapling | |
| Bigtooth Aspen | | 5 | Log | 16 | | Sugar Maple | | Low | Variable | Sapling | |
| Basswood | | 10 | Log/Pole | 12 | | Basswood | | Low | 5 - 10 feet | Sapling | |
| | | | | | | White Ash | | High | < 5 feet | Sapling | |
| 11 | 4110 - Sugar Maple Association | Sawtimber Well | 142.4 | 95 | 51-80 | N/A | Mix of northern hardwood, mostly sugar maple sawtimber, on rolling hills. Ash/beech salvage cut completed in 2018 (Emmet Salvage #3, 52-107-13). Post-harvest BA is about 63 sq. ft. Snowmobile trail runs along south boundary of stand. Adjacent to county road and private property. | | | | |
| Canopy Species | | % Cover | Size Class | DBH | Age | Sub-Canopy Species | | Density | Avg. Height | Size | |
| Red Maple | | 2 | Log/Pole | 12 | | Striped Maple | | Trace | 5 - 10 feet | Sapling | |
| Yellow Birch | | 2 | Log/Pole | 10 | | Blackberry/Raspberry | | High | < 5 feet | Tall Shrub | |
| Paper Birch | | 2 | Log/Pole | 12 | | Sugar Maple | | Medium | Variable | Sapling | |
| Basswood | | 8 | Log | 12 | | Red Maple | | Trace | Variable | Sapling | |
| Bigtooth Aspen | | 5 | Log/XLog | 16 | | Beech | | High | Variable | Sapling | |
| Sugar Maple | | 79 | Log/XLog/Pole | 12 | 95 | White Ash | | Medium | < 5 feet | Sapling | |
| Black Cherry | | 2 | Log | 16 | | | | | | | |
| 12 | 4110 - Sugar Maple Association | Sawtimber Medium | 183.7 | 100 | 51-80 | N/A | Large diameter mixed northern hardwood, mostly sugar maple sawtimber. Ash/beech salvage cut (Emmet Salvage #1, 52-106-13) completed in 2016. Post-harvest BA was about 56 sq. ft. Areas of heavy ash/beech regen. Designated snowmobile trail runs along north boundary of this stand. Many hills with steep slopes present. | | | | |
| Canopy Species | | % Cover | Size Class | DBH | Age | Sub-Canopy Species | | Density | Avg. Height | Size | |
| Red Maple | | 3 | Log/XLog/Pole | 12 | | Beech | | Full | < 5 feet | Sapling | |
| Sugar Maple | | 76 | Log/XLog/Pole | 12 | 100 | Basswood | | Low | 5 - 10 feet | Sapling | |
| Paper Birch | | 3 | Pole/Log | 10 | | White Ash | | Full | < 5 feet | Sapling | |
| Bigtooth Aspen | | 8 | Log | 16 | | Blackberry/Raspberry | | High | < 5 feet | Tall Shrub | |
| Basswood | | 4 | Log/Pole | 12 | | Sugar Maple | | Medium | 5 - 10 feet | Sapling | |
| Yellow Birch | | 3 | Log/Pole | 12 | | Striped Maple | | Low | 10 - 20 feet | Sapling | |
| Black Cherry | | 3 | Log/Pole | 12 | | | | | | | |
| 13 | 4130 - Aspen | Poletimber Well | 6.5 | 47 | 51-80 | N/A | Small aspen poletimber stand from 1975 final harvest. Present BA is about 80 sq. ft. To improve merchantability, final harvest this small acreage stand when Stand 14 is treated again to perpetuate aspen covertime. Adjacent to snowmobile trail. | | | | |
| Canopy Species | | % Cover | Size Class | DBH | Age | Sub-Canopy Species | | Density | Avg. Height | Size | |
| Bigtooth Aspen | | 100 | Pole | 8 | 47 | Bigtooth Aspen | | Medium | 10 - 20 feet | Sapling | |
| | | | | | | Sugar Maple | | Medium | 10 - 20 feet | Sapling | |



| Stand | Level 4 Cover Type | Size Density | Acres | Stand Age | BA Range | Managed Site | General Comments | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|--------------------------------|-----------------|------------|------------|----------|--------------|---|-----|---------------|----|-----|---|----|--------------------|---------|-------------|-------------|----------------|----------|--------------|---------|--------------|--------|---------------|---------|--|---|----|--------------------|---------|-------------|---|-------------|--------------------|----------|-------------|-----------------|-------------|-------------|-------------|---------------|-----------|----------|------------|-----------------|----------------------|----------|------------|------------|--------|--------------|----------|---------------|-----|--------------|------------|
| 14 | 4110 - Sugar Maple Association | Sawtimber Well | 228.7 | 105 | 51-80 | N/A | High quality mixed northern hardwood sawtimber, adjacent to Robinson Rd. and Wilderness Rd., on rolling hills with some steep slopes present. Designated snowmobile trail runs through stand. Ash/beech salvage harvest completed in 2015 (Emmet Salvage #9, 52-112-13). Post-harvest BA is about 69 sq. ft. Stand also received selection harvests from 1996 to 1999. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <table border="1"> <thead> <tr> <th>Canopy Species</th> <th>% Cover</th> <th>Size Class</th> <th>DBH</th> <th>Age</th> </tr> </thead> <tbody> <tr> <td>Black Cherry</td> <td>3</td> <td>Log/Pole/XLog</td> <td>14</td> <td></td> </tr> <tr> <td>Basswood</td> <td>7</td> <td>Log/Pole</td> <td>12</td> <td></td> </tr> <tr> <td>Sugar Maple</td> <td>80</td> <td>Log/Pole</td> <td>12</td> <td>105</td> </tr> <tr> <td>Red Maple</td> <td>10</td> <td>Log/Pole</td> <td>11</td> <td></td> </tr> </tbody> </table> | | Canopy Species | % Cover | Size Class | DBH | Age | Black Cherry | 3 | Log/Pole/XLog | 14 | | Basswood | 7 | Log/Pole | 12 | | Sugar Maple | 80 | Log/Pole | 12 | 105 | Red Maple | 10 | Log/Pole | 11 | | <table border="1"> <thead> <tr> <th>Sub-Canopy Species</th> <th>Density</th> <th>Avg. Height</th> <th>Size</th> </tr> </thead> <tbody> <tr> <td>Sugar Maple</td> <td>Medium</td> <td>Variable</td> <td>Sapling</td> </tr> <tr> <td>Black Raspberry</td> <td>Medium</td> <td>5 - 10 feet</td> <td>Tall Shrub</td> </tr> <tr> <td>Beech</td> <td>Medium</td> <td>Variable</td> <td>Sapling</td> </tr> <tr> <td>White Ash</td> <td>High</td> <td>< 5 feet</td> <td>Sapling</td> </tr> <tr> <td>Ironwood</td> <td>Low</td> <td>10 - 20 feet</td> <td>Sapling</td> </tr> <tr> <td>Striped Maple</td> <td>Low</td> <td>Variable</td> <td>Tall Shrub</td> </tr> </tbody> </table> | | Sub-Canopy Species | Density | Avg. Height | Size | Sugar Maple | Medium | Variable | Sapling | Black Raspberry | Medium | 5 - 10 feet | Tall Shrub | Beech | Medium | Variable | Sapling | White Ash | High | < 5 feet | Sapling | Ironwood | Low | 10 - 20 feet | Sapling | Striped Maple | Low | Variable | Tall Shrub |
| Canopy Species | % Cover | Size Class | DBH | Age | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Black Cherry | 3 | Log/Pole/XLog | 14 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Basswood | 7 | Log/Pole | 12 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Sugar Maple | 80 | Log/Pole | 12 | 105 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Red Maple | 10 | Log/Pole | 11 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Sub-Canopy Species | Density | Avg. Height | Size | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Sugar Maple | Medium | Variable | Sapling | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Black Raspberry | Medium | 5 - 10 feet | Tall Shrub | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Beech | Medium | Variable | Sapling | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| White Ash | High | < 5 feet | Sapling | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ironwood | Low | 10 - 20 feet | Sapling | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Striped Maple | Low | Variable | Tall Shrub | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 15 | 4130 - Aspen | Poletimber Well | 8.1 | 46 | 51-80 | N/A | Small aspen poletimber stand from 1976 final harvest. Present BA is about 80 sq. ft. To improve merchantability, final harvest this small acreage stand when Stand 14 is treated again, to perpetuate aspen coverytype. Adjacent to snowmobile trail. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <table border="1"> <thead> <tr> <th>Canopy Species</th> <th>% Cover</th> <th>Size Class</th> <th>DBH</th> <th>Age</th> </tr> </thead> <tbody> <tr> <td>Bigtooth Aspen</td> <td>100</td> <td>Pole</td> <td>8</td> <td>46</td> </tr> </tbody> </table> | | Canopy Species | % Cover | Size Class | DBH | Age | Bigtooth Aspen | 100 | Pole | 8 | 46 | <table border="1"> <thead> <tr> <th>Sub-Canopy Species</th> <th>Density</th> <th>Avg. Height</th> <th>Size</th> </tr> </thead> <tbody> <tr> <td>Bigtooth Aspen</td> <td>Medium</td> <td>10 - 20 feet</td> <td>Sapling</td> </tr> <tr> <td>Sugar Maple</td> <td>Medium</td> <td>10 - 20 feet</td> <td>Sapling</td> </tr> </tbody> </table> | | Sub-Canopy Species | Density | Avg. Height | Size | Bigtooth Aspen | Medium | 10 - 20 feet | Sapling | Sugar Maple | Medium | 10 - 20 feet | Sapling | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Canopy Species | % Cover | Size Class | DBH | Age | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bigtooth Aspen | 100 | Pole | 8 | 46 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Sub-Canopy Species | Density | Avg. Height | Size | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bigtooth Aspen | Medium | 10 - 20 feet | Sapling | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Sugar Maple | Medium | 10 - 20 feet | Sapling | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 16 | 4110 - Sugar Maple Association | Sawtimber Well | 165.9 | 105 | 51-80 | N/A | High quality mixed northern hardwood sawtimber, adjacent to Robinson Rd. and Wilderness Rd., on rolling hills with some steep slopes present. Designated snowmobile trail runs through stand. Ash/beech salvage harvest completed in 2017 (Emmet Salvage #10, 52-113-13). Post-harvest BA is about 76 sq. ft. Stand also received selection harvests from 1996 to 1999. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <table border="1"> <thead> <tr> <th>Canopy Species</th> <th>% Cover</th> <th>Size Class</th> <th>DBH</th> <th>Age</th> </tr> </thead> <tbody> <tr> <td>Sugar Maple</td> <td>75</td> <td>Log/Pole</td> <td>12</td> <td>105</td> </tr> <tr> <td>Red Maple</td> <td>15</td> <td>Log/Pole</td> <td>11</td> <td></td> </tr> <tr> <td>Basswood</td> <td>7</td> <td>Log/Pole</td> <td>12</td> <td></td> </tr> <tr> <td>Black Cherry</td> <td>3</td> <td>Log/Pole/XLog</td> <td>14</td> <td></td> </tr> </tbody> </table> | | Canopy Species | % Cover | Size Class | DBH | Age | Sugar Maple | 75 | Log/Pole | 12 | 105 | Red Maple | 15 | Log/Pole | 11 | | Basswood | 7 | Log/Pole | 12 | | Black Cherry | 3 | Log/Pole/XLog | 14 | | <table border="1"> <thead> <tr> <th>Sub-Canopy Species</th> <th>Density</th> <th>Avg. Height</th> <th>Size</th> </tr> </thead> <tbody> <tr> <td>Beech</td> <td>High</td> <td>Variable</td> <td>Sapling</td> </tr> <tr> <td>Sugar Maple</td> <td>Medium</td> <td>Variable</td> <td>Sapling</td> </tr> <tr> <td>Striped Maple</td> <td>Low</td> <td>Variable</td> <td>Tall Shrub</td> </tr> <tr> <td>Black Raspberry</td> <td>High</td> <td>< 5 feet</td> <td>Tall Shrub</td> </tr> <tr> <td>White Ash</td> <td>Medium</td> <td>Variable</td> <td>Sapling</td> </tr> <tr> <td>Ironwood</td> <td>Low</td> <td>10 - 20 feet</td> <td>Sapling</td> </tr> </tbody> </table> | | Sub-Canopy Species | Density | Avg. Height | Size | Beech | High | Variable | Sapling | Sugar Maple | Medium | Variable | Sapling | Striped Maple | Low | Variable | Tall Shrub | Black Raspberry | High | < 5 feet | Tall Shrub | White Ash | Medium | Variable | Sapling | Ironwood | Low | 10 - 20 feet | Sapling |
| Canopy Species | % Cover | Size Class | DBH | Age | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Sugar Maple | 75 | Log/Pole | 12 | 105 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Red Maple | 15 | Log/Pole | 11 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Basswood | 7 | Log/Pole | 12 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Black Cherry | 3 | Log/Pole/XLog | 14 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Sub-Canopy Species | Density | Avg. Height | Size | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Beech | High | Variable | Sapling | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Sugar Maple | Medium | Variable | Sapling | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Striped Maple | Low | Variable | Tall Shrub | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Black Raspberry | High | < 5 feet | Tall Shrub | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| White Ash | Medium | Variable | Sapling | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ironwood | Low | 10 - 20 feet | Sapling | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 17 | 4110 - Sugar Maple Association | Sawtimber Well | 228.2 | 105 | 51-80 | N/A | Stand consists of high quality mixed northern hardwood, mostly sugar maple sawtimber, adjacent to Robinson Rd. and designated snowmobile trail. Ash/beech salvage completed 2015-16 (Emmet Salvage #8, 52-111-13). Post-harvest BA is about 75 sq. ft. Stand also received a selection harvest in 2005. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <table border="1"> <thead> <tr> <th>Canopy Species</th> <th>% Cover</th> <th>Size Class</th> <th>DBH</th> <th>Age</th> </tr> </thead> <tbody> <tr> <td>Black Cherry</td> <td>5</td> <td>Log/Pole</td> <td>12</td> <td></td> </tr> <tr> <td>Yellow Birch</td> <td>3</td> <td>Log/Pole</td> <td>12</td> <td></td> </tr> <tr> <td>Red Maple</td> <td>2</td> <td>Log/Pole</td> <td>12</td> <td></td> </tr> <tr> <td>Basswood</td> <td>20</td> <td>Log/Pole</td> <td>12</td> <td></td> </tr> <tr> <td>Sugar Maple</td> <td>70</td> <td>Log/XLog/Pole</td> <td>12</td> <td>105</td> </tr> </tbody> </table> | | Canopy Species | % Cover | Size Class | DBH | Age | Black Cherry | 5 | Log/Pole | 12 | | Yellow Birch | 3 | Log/Pole | 12 | | Red Maple | 2 | Log/Pole | 12 | | Basswood | 20 | Log/Pole | 12 | | Sugar Maple | 70 | Log/XLog/Pole | 12 | 105 | <table border="1"> <thead> <tr> <th>Sub-Canopy Species</th> <th>Density</th> <th>Avg. Height</th> <th>Size</th> </tr> </thead> <tbody> <tr> <td>Sugar Maple</td> <td>Medium</td> <td>Variable</td> <td>Sapling</td> </tr> <tr> <td>White Ash</td> <td>High</td> <td>< 5 feet</td> <td>Sapling</td> </tr> <tr> <td>Blackberry/Raspberry</td> <td>High</td> <td>< 5 feet</td> <td>Tall Shrub</td> </tr> <tr> <td>Beech</td> <td>High</td> <td>< 5 feet</td> <td>Sapling</td> </tr> </tbody> </table> | | Sub-Canopy Species | Density | Avg. Height | Size | Sugar Maple | Medium | Variable | Sapling | White Ash | High | < 5 feet | Sapling | Blackberry/Raspberry | High | < 5 feet | Tall Shrub | Beech | High | < 5 feet | Sapling | | | |
| Canopy Species | % Cover | Size Class | DBH | Age | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Black Cherry | 5 | Log/Pole | 12 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Yellow Birch | 3 | Log/Pole | 12 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Red Maple | 2 | Log/Pole | 12 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Basswood | 20 | Log/Pole | 12 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Sugar Maple | 70 | Log/XLog/Pole | 12 | 105 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Sub-Canopy Species | Density | Avg. Height | Size | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Sugar Maple | Medium | Variable | Sapling | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| White Ash | High | < 5 feet | Sapling | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Blackberry/Raspberry | High | < 5 feet | Tall Shrub | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Beech | High | < 5 feet | Sapling | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 18 | 4110 - Sugar Maple Association | Sawtimber Well | 28.9 | 95 | 111-140 | N/A | Stand consists of lesser quality mixed northern hardwood, mostly sugar maple sawtimber, on relatively flat ground. This stand was not included in recent ash/beech salvage cuts within this compartment because of the low ash/beech component found in this stand. Present BA is about 113 sq. ft. The sugar maple understory of smaller diameter poletimber consists of better quality trees than those found in the overstory. Prescribe a selection harvest in this stand in 10 - 20 years. Final harvest Stand 19 when this stand is treated. Possibly also final harvest Stand 89 at that time, which is adjacent to the east in Comp. 105. Snowmobile trail runs along the west boundary of the stand. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| Canopy Species | % Cover | Size Class | DBH | Age | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Red Maple | 3 | Log/Pole | 12 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Quaking Aspen | 15 | Log | 14 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Basswood | 12 | Log/Pole | 11 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Black Cherry | 9 | Log/Pole | 11 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Sugar Maple | 61 | Log/Pole | 11 | 95 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Sub-Canopy Species | Density | Avg. Height | Size | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Beech | Low | 5 - 10 feet | Sapling | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ironwood | Low | >20 feet | Sapling | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Sugar Maple | Low | >20 feet | Sapling | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |



| Stand | Level 4 Cover Type | Size Density | Acres | Stand Age | BA Range | Managed Site | General Comments | | | |
|-----------------------|---------------------------------------|-----------------|-------------------|------------|-------------|---------------------------|---|----------------|--------------------|-------------|
| 19 | 4130 - Aspen | Poletimber Well | 4.4 | 47 | 51-80 | N/A | Small aspen poletimber stand from 1975 final harvest. Average BA is about 80 sq. ft. To make this stand more merchantable to producers, final harvest this stand, to perpetuate the aspen covertype, when adjacent Stand 18 is treated. | | | |
| Canopy Species | | % Cover | Size Class | DBH | Age | Sub-Canopy Species | | Density | Avg. Height | Size |
| Bigtooth Aspen | | 100 | Pole | 8 | 47 | Sugar Maple | | Medium | 10 - 20 feet | Sapling |
| | | | | | | Bigtooth Aspen | | Medium | 10 - 20 feet | Sapling |
| 20 | 3205 - Mixed Upland Shrub | Nonstocked | 7.7 | | Unspecified | No | Upland brush and encroaching hardwood saps and poletimber adjacent to private property and seasonal county road/snowmobile trail. | | | |
| 21 | 4110 - Sugar Maple Association | Sawtimber Well | 86.6 | 95 | 51-80 | N/A | Stand consists of northern hardwood sawtimber and boltwood, on rolling hills, most of which are not as steep as most hardwood stands in Emmet county. Stand received an ash/beech salvage harvest, completed in 2018. Post-harvest residual BA is about 70 sq. ft. | | | |
| Canopy Species | | % Cover | Size Class | DBH | Age | Sub-Canopy Species | | Density | Avg. Height | Size |
| Black Cherry | | 8 | Log/Pole | 11 | | White Ash | | High | < 5 feet | Sapling |
| Basswood | | 6 | Log/Pole | 11 | | Ironwood | | Low | Variable | Sapling |
| Yellow Birch | | 1 | Log/Pole | 11 | | Sugar Maple | | Low | Variable | Sapling |
| Sugar Maple | | 85 | Log/Pole/XLog | 11 | 95 | Beech | | High | < 5 feet | Sapling |
| | | | | | | Blackberry/Raspberry | | High | < 5 feet | Tall Shrub |
| 22 | 4110 - Sugar Maple Association | Sawtimber Well | 156.2 | 100 | 51-80 | N/A | High quality mixed northern hardwood stand. Ash/beech salvage harvest completed in winter 2019-2020, (Emmet Salvage #6, 52-122-18). Post-harvest BA is 71 sq. ft. Stand also received selection harvests in various parts of stand in 1997, 2005-2006, and 2011. Rolling hills with some steep slopes present. Harbor Springs Gun Club adjacent to the north. | | | |
| Canopy Species | | % Cover | Size Class | DBH | Age | Sub-Canopy Species | | Density | Avg. Height | Size |
| Basswood | | 2 | Log/Pole | 10 | | Sugar Maple | | Low | < 5 feet | Sapling |
| Black Cherry | | 5 | Log/Pole | 10 | | Beech | | Medium | < 5 feet | Sapling |
| Sugar Maple | | 90 | Log/Pole | 10 | 100 | White Ash | | High | < 5 feet | Sapling |
| 23 | 4119 - Mixed Northern Hardwoods | Sapling Poor | 35.0 | 2 | Immature | N/A | Mixed northern hardwood regen. Final harvest completed in winter 2019/2020. Red oak and mixed conifers will be planted in areas dominated by excessive ash/beech regen following herbicide application. | | | |
| Canopy Species | | % Cover | Size Class | DBH | Age | Sub-Canopy Species | | Density | Avg. Height | Size |
| Bigtooth Aspen | | 13 | Sapling | 1 | | Blackberry/Raspberry | | Medium | < 5 feet | Tall Shrub |
| Black Cherry | | 10 | Sapling | 1 | | | | | | |
| White Ash | | 30 | Sapling | 1 | 2 | | | | | |
| Yellow Birch | | 2 | Sapling | 1 | | | | | | |
| Sugar Maple | | 10 | Sapling | 1 | | | | | | |
| Beech | | 25 | Sapling | 1 | | | | | | |
| 24 | 4111 - S.Maple, Hard Mast Association | Sawtimber Well | 32.5 | 95 | 81-110 | N/A | Mixed northern hardwood sawtimber, with scattered red oak, located on a very steep slope which is inoperable. No salvage harvest took place here so the original mix of northern hardwood still exists. Much of the ash/beech is dead or dying. Site condition applied. | | | |
| Canopy Species | | % Cover | Size Class | DBH | Age | Sub-Canopy Species | | Density | Avg. Height | Size |
| Red Oak | | 16 | Log/XLog | 17 | | Ironwood | | Low | 10 - 20 feet | Sapling |
| Sugar Maple | | 62 | Log/Pole/XLog | 11 | 95 | Paper Birch | | Low | 10 - 20 feet | Sapling |
| Paper Birch | | 10 | Log/Pole | 13 | | Sugar Maple | | Medium | 10 - 20 feet | Sapling |
| White Ash | | 3 | Log/XLog/Pole | 13 | | White Ash | | Low | 10 - 20 feet | Sapling |
| Yellow Birch | | 6 | Log/Pole | 12 | | Striped Maple | | Low | 5 - 10 feet | Sapling |
| Beech | | 3 | Log/Pole/XLog | 12 | | Beech | | Medium | 10 - 20 feet | Sapling |



| Stand | Level 4 Cover Type | Size Density | Acres | Stand Age | BA Range | Managed Site | General Comments |
|-------|--------------------|--------------|-------|-----------|----------|--------------|------------------|
|-------|--------------------|--------------|-------|-----------|----------|--------------|------------------|

| 105 | 4199 - Other Mixed Upland Deciduous | Poletimber Well | 32.1 | 75 | 111-140 | N/A | Lesser quality hardwood poletimber, with a considerable amount of paper birch located on some steep slopes. Lesser amounts of mixed hardwood and big-toothed aspen sawtimber also present. Scattered large red oak sawtimber can also be found in stand. Adjacent to private property on west side. This stand was originally part of the Good Hart Mix (52-101-16) but was not harvested by the producer due to steep topography. Site condition applied. | | | | |
|----------------|-------------------------------------|-----------------|--------------|-----|---------|--------------------------|--|---------|--------------|------------|--|
| Canopy Species | | % Cover | Size Class | DBH | Age | Sub-Canopy Species | | Density | Avg. Height | Size | |
| Sugar Maple | | 32 | Log/Pole/Sap | 10 | | Beech | | Medium | 10 - 20 feet | Sapling | |
| Paper Birch | | 32 | Log/Pole | 10 | 75 | White Ash | | Low | 10 - 20 feet | Sapling | |
| Beech | | 10 | Log/Pole | 10 | | Ironwood | | Low | 10 - 20 feet | Sapling | |
| Bigtooth Aspen | | 26 | Log | 16 | | Striped Maple | | Low | 5 - 10 feet | Pole | |
| | | | | | | Serviceberry (Juneberry) | | Low | 10 - 20 feet | Tall Shrub | |
| | | | | | | Sugar Maple | | Low | 10 - 20 feet | Sapling | |

| 121 | 4110 - Sugar Maple Association | Sawtimber Well | 97.7 | 95 | 81-110 | N/A | Mixed northern hardwood stand, mostly sugar maple sawtimber, with sparse scattered BTA, basswood, and incidental yellow birch and black cherry on rolling hills. Lesser amounts of beech and white ash are also present but mostly dead/dying. This stand was included in the Emmet Salvage #7 sale, but this portion of the sale was never cut because of the low volume of ash/beech present. Present BA is about 97 sq. ft. Stand could potentially have a selection harvest prescribed in about 20 years. | | | | |
|----------------|--------------------------------|----------------|------------|-----|--------|--------------------|---|---------|-------------|---------|--|
| Canopy Species | | % Cover | Size Class | DBH | Age | Sub-Canopy Species | | Density | Avg. Height | Size | |
| Basswood | | 3 | Log/Pole | 11 | | Beech | | Low | Variable | Sapling | |
| Bigtooth Aspen | | 2 | Log | 16 | | Ironwood | | Low | Variable | Sapling | |
| Sugar Maple | | 95 | Log/Pole | 11 | 95 | White Ash | | Low | < 5 feet | Sapling | |
| | | | | | | Sugar Maple | | Low | Variable | Sapling | |

| 205 | 4199 - Other Mixed Upland Deciduous | Poletimber Poor | 13.2 | 75 | 1-50 | N/A | Stand consists of mixed northern hardwood/aspen, that partially harvested as part of the Good Hart Mix (52-101-16) sale. The remaining overstory is located on the side and/or tops of ridges that were deemed to steep to cut by the producer. The result is a scattered, sparse overstory throughout the stand. The areas that were harvested will be monitored for regen composition/density. Scattered large red oak sawtimber can also be found in stand. Adjacent to private property on west side. | | | | |
|----------------|-------------------------------------|-----------------|--------------|-----|------|--------------------------|---|---------|--------------|------------|--|
| Canopy Species | | % Cover | Size Class | DBH | Age | Sub-Canopy Species | | Density | Avg. Height | Size | |
| Beech | | 15 | Log/Pole | 10 | | Ironwood | | Low | 10 - 20 feet | Sapling | |
| Paper Birch | | 40 | Pole | 10 | 75 | White Ash | | Medium | < 5 feet | Sapling | |
| Bigtooth Aspen | | 15 | Log | 16 | | Serviceberry (Juneberry) | | Low | 10 - 20 feet | Tall Shrub | |
| Sugar Maple | | 30 | Log/Pole/Sap | 10 | | Striped Maple | | Low | 5 - 10 feet | Pole | |
| | | | | | | Sugar Maple | | Low | Variable | Sapling | |
| | | | | | | Beech | | Medium | Variable | Sapling | |