



Compartment Review Presentation

Gaylord Forest Management Unit

Compartment 52102

Entry Year 2025

Acreage: 2,489

County Emmet

Management Area: Emmet Moraines

Stand Examiner: Tricia St. Pierre

Legal Description:

T36N-R06W, Sections

4 All

5 All except the N1/2NENW

8 All except the W1/2SW

9 S1/2, W1/2NW (No mineral rights in Sec 9 SW)

16 N1/2

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 and its inhabitants. Treat invasive species and address hardwood regeneration concerns as appropriate and able to do so.

Soil and topography:

The topography in this compartment is mostly rolling though quite steep in some areas. Most of this compartment is comprised of Blue Lake - Leelanau Association soils.

The majority of soils are Blue Lake Loamy Sand (over 90%), while Emmet Series Sands and Loams account for less than 7% of the soils. Otisco Loamy Sand is less than 1.5%, while Linwood Muck and East Lake Loamy Sand combined account for less than .4%. Blue Lakes and Emmet Series support maple, beech, quaking aspen, and hemlock, though Blue Lake is more supportive of white pine and yellow birch, and Emmet is more hospitable to basswood, red oak, red pine, and orchards. East Lake Series soils are typically drier and more supportive of quaking aspen, jack and red pine, red oak, paper birch, and red maple. Linwood Muck supports lowland shrubs and trees.

Highest quality AFOCa Kotar Habitat Type is currently occupied by mature hardwood and immature aspen and some birch. AFO/AFOCa habitat types are occupied by decent quality maple-dominated hardwood with varying subcanopy species and densities without much topographical influence, except that the north aspects support more red berried elder. PArVCo habitat types have nice quality sugar maple, cherry, and hemlock with the most desirable regeneration. This habitat type supports a Mesic Northern Forest (Michigan Natural Community). PArVVb/AFO habitat type is an anomaly with 18-25% slopes on the sides of a draw, dominated by hardwood.

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

There is some residential development in the area, mostly larger parcels. This compartment gets a lot of use from hunters and mushroom pickers as well as motorized recreation on the snowmobile and ORV trails. There is a private upland game bird hunting preserve to the southwest of this compartment. Little Traverse Conservancy owns a block to the northwest.

Unique Natural Features:

There is a five-acre Mesic Northern Forest situated within Sections 9 and 16; currently given a D Ranking (Degradated). There is potential for red-shouldered hawk, northern goshawk, and woodland vole within and adjacent to this compartment. Eagles were observed outside of this compartment during inventory (2022/2023).

The occurrence of Canada Yew (*Taxus canadensis*) is somewhat of a rarity in these forest types now. Photographic evidence from 2001 as compared to current observations demonstrates a near extirpation of yew from the landscape as affected by deer browse and logging activity. Personal accounts support the visual evidence. There is a deer enclosure within stand 22, now in disrepair, having been breached by deer. The only surviving yew are protected under fallen fencing.

Archeological, Historical, and Cultural Features:

There are historic features within this compartment that should be considered during any nearby management activity.

Special Management Designations or Considerations:

Emerald Ash Borer and Beech Bark Disease have ravaged most of the ash and beech, respectively, in this compartment. Salvage sales have occurred in the majority of the hardwood stands. That coupled with past management practices has resulted in near complete maple-ization of these hardwood stands, now dominated by sugar maple with lesser occurrences of red maple, basswood, birch (yellow and paper), and the occasional lingering ash and/or beech. Hemlock is a rare occurrence as well. Future management should be considerate of encouraging species diversity however feasible

and reasonable to do so.

Hardwood regeneration research studies conducted by Michigan State University can help to guide future management within these hardwood-dominated compartments. Predating the MSU hardwood regeneration studies is a black cherry regeneration study located in stands 24 and 25. The success was marginal, regenerating a mix of hardwood, mostly multi-stemmed; the cherry is affected by black knot and unlikely to achieve the quality of the parent and surrounding cherry. There has been decent subsequent response from sugar maple, resulting in advanced sugar maple saplings in portions of the treatment area.

Efforts for the treatment and removal of invasive species should be a priority as resources allow. Cooperation with local CISMAs may help to accomplish these goals.

Efforts to protect and restore Canada yew may be considered in the future.

There is PILT Program Funding in Sec 9 and 16.

Watershed and Fisheries Considerations:

Most of this compartment is in the CLMMU. The northeast portion, however, is in the NLHMU. This portion is in the Maple River watershed, within the Cheboygan River watershed. There are no water bodies in this compartment, so Fisheries has no concerns at this time.

Wildlife Habitat Considerations:

This compartment consists mostly of upland hardwoods with a few smaller aspen inclusions. The hardwoods treated in the past provide structural diversity within the stand. Areas of Ash and Beech salvage have had some ash marked to leave for future snags and smooth barked beech have been marked to leave for potential resistance and future mast production. Efforts from 2015 treatments to introduce early successional habitat were intended to benefit white-tailed deer, ruffed grouse, American woodcock, and wild turkey.

Comments from retired Wildlife and Forestry Division staff have remarked on the effects of deer browse, especially relating to subcanopy simplification. Further management for deer should be weighed against regeneration desires.

Mineral Resource and Development Concerns and/or Restrictions

Compartment 102 Sections 4-5, 8-9, & 16, T36N-R6W, Emmet County

The nearest active sand/gravel mining operation is more than one mile east, and a former pit is less than one mile to the southwest. Potential exists for sand & gravel within the compartment. There is no history of oil & gas drilling within the compartment, no current well permit activity, and no State mineral leasing activity. Potential for oil & gas within the compartment is considered low at this time. There is no known potential for metallic minerals in this part of the state. The State does not own all the mineral rights within the compartment. Because the mineral estate is the dominant estate, reasonable access to the surface must be provided to private owners if they choose to explore or develop their mineral rights.

Surface sediments consist of coarse-textured glacial till and minor glacial outwash sand and gravel and postglacial alluvium. The glacial drift thickness varies between 800 and 1,000 feet. The Devonian Detroit River Group subcrops below the glacial drift. The nearest gravel pit is located in Section 17 and potential appears to be good. The nearest oil and gas production, the Antrim Shale gas play, is located 27 miles to the southeast. The Compartment is leased for oil and gas development for the Collingwood Formation.

Vehicle Access:

There is decent access to most of the compartment. There are seasonal county roads within the compartment and a few plowed county roads that end at the compartment lines. Some soils have the capacity to hold water which has resulted in a couple mud holes, but for the most part soils are well drained and in decent condition except where degraded by ORV use. There are some steeper two tracks, but most road grades are appropriate for general use. Sandy soils have high potential for erosion on some grades.

Survey Needs:

There are no survey needs at this time.

Recreational Facilities and Opportunities:

Indian Gardens ORV Route (Great Lakes ORV Association) and Snowmobile Trail #710 (Harbor Springs Snowmobile Club) run through this compartment.

Fire Protection:

There are very few volatile fuel types within this compartment with low potential for extreme fire behavior. In the event of a wildfire, access and control may be challenging due to terrain. In some instances, access may be feasible using old skid trails and logging access routes. There are no reliable water sources nearby for drafting, except Lake Michigan to the west and nearby Volunteer Fire Department stations.

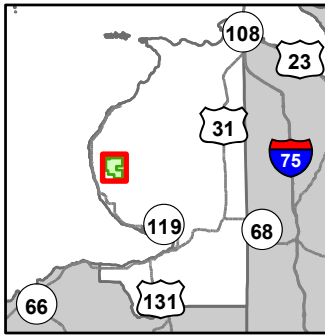
Readmond/Friendship/Cross Village Fire and Rescue (Station 48) provides local coverage with stations located at Osborne and Wormwood, Cross Village, and Robinson Road.

Additional Compartment Information:

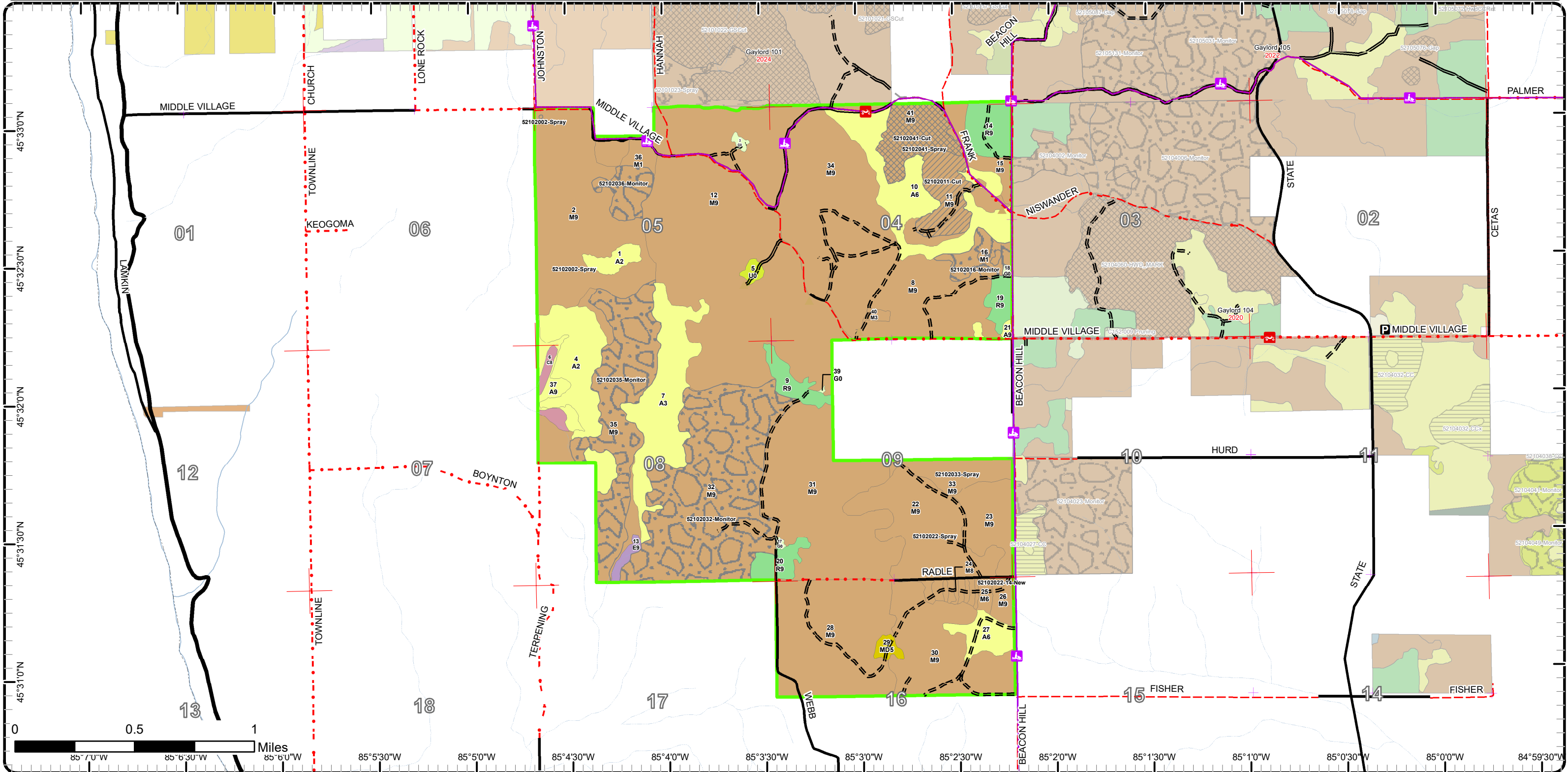
Correspondence from 1995 and 2005 with the Mackinaw Forest Council in which portions of sections 9 and 16 were identified by the MFC, requesting the nomination of an SCA in an effort to preserve and protect old growth northern

Cover Type & Treatments Map

Compartment: 102
 T36N, R06W, Sec. 04-05, 08-09, 16
 County: Emmet
 Unit: Gaylord
 Mgmt Area: Emmet Moraines
 YOE: 2025
 Acres: 2488.8 GIS Calculated
 Examiner: Tricia St. Pierre
 Map Revised: 10/3/2023
 Map Phase: Post Map

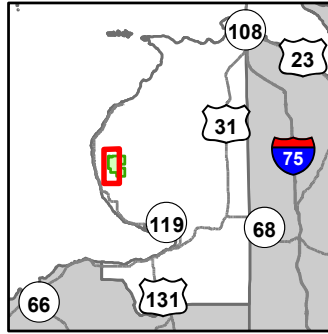


- Miris Corners
- Remonumented Section Corners
- Counties
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Federal / State / County - Paved Road
- County - Gravel Road
- County - Dirt Road (Seasonal)
- Private - Dirt / Gravel Road
- ORV Routes
- Snowmobile Trails
- Designated ORV Route
- Designated Snowmobile Trails
- Berms
- Intermittent Stream
- Compartment Boundary
- Pesticide
- Selection (Group, Single Tree)
- Thinning (Crown, Low, Systematic)
- Regeneration Survey
- 411 - Northern Hardwood
- 413 - Aspen
- 419 - Mixed Upland Deciduous
- 421 - Planted Pines
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 310 - Herbaceous Openland
- 330 - Low Density Trees

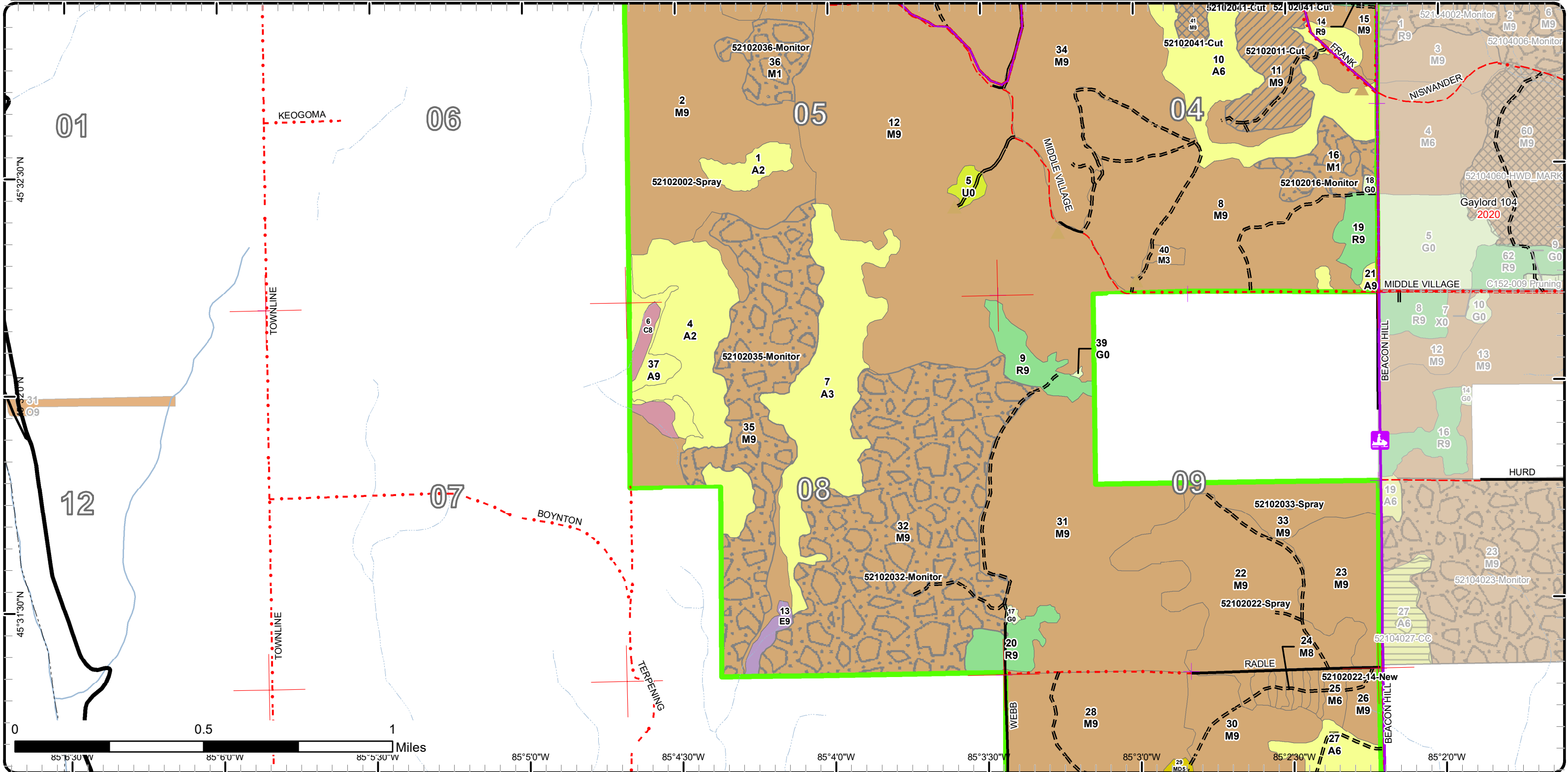


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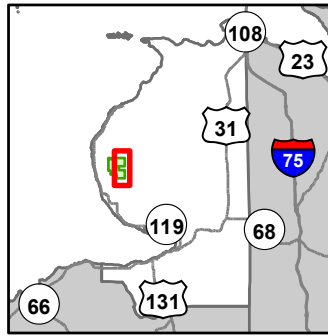


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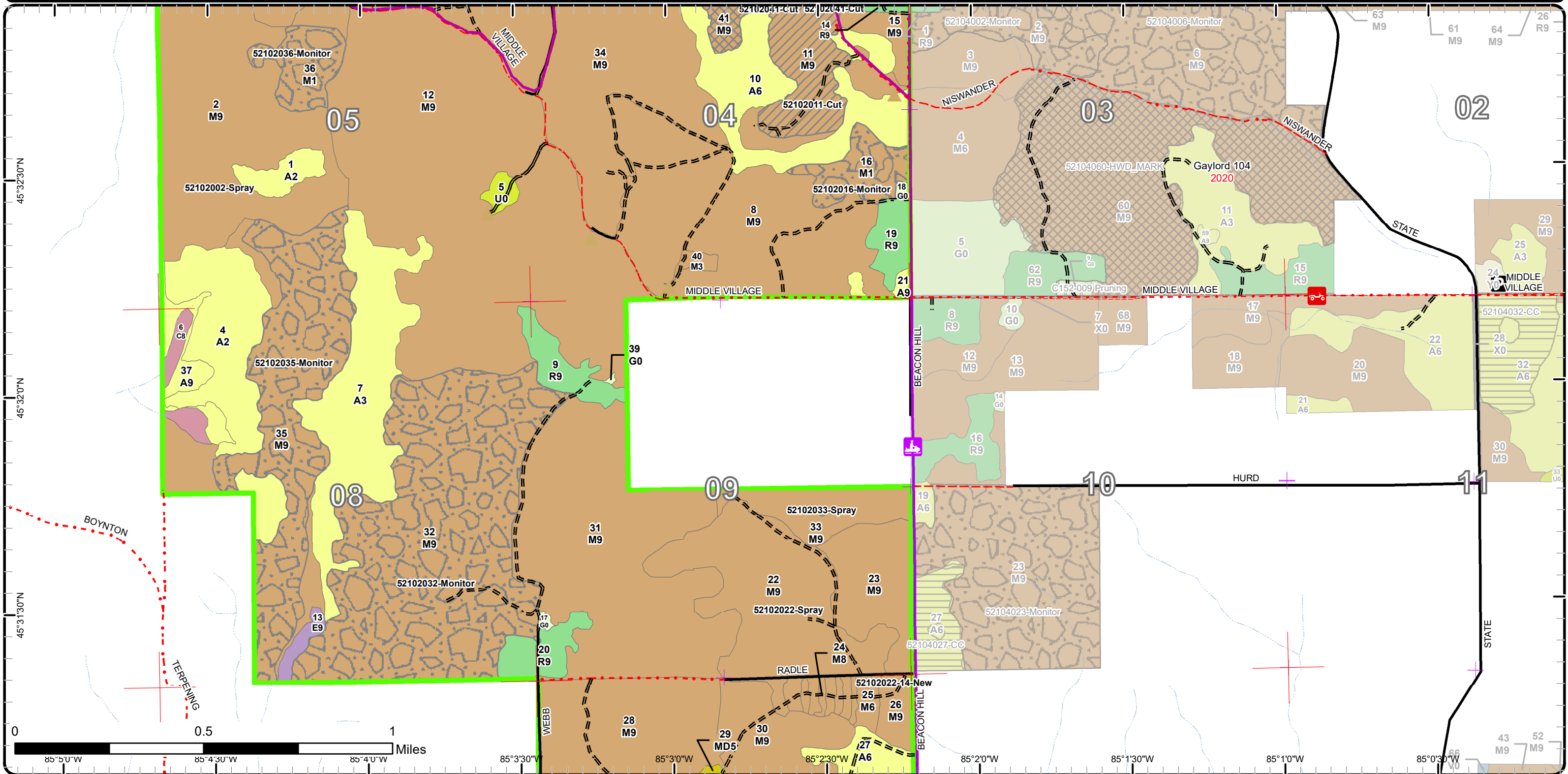


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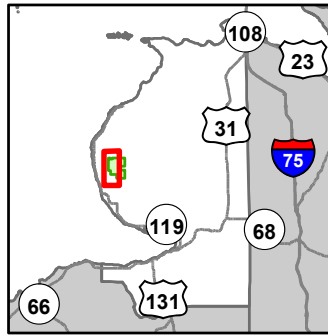


Stand Boundary Map

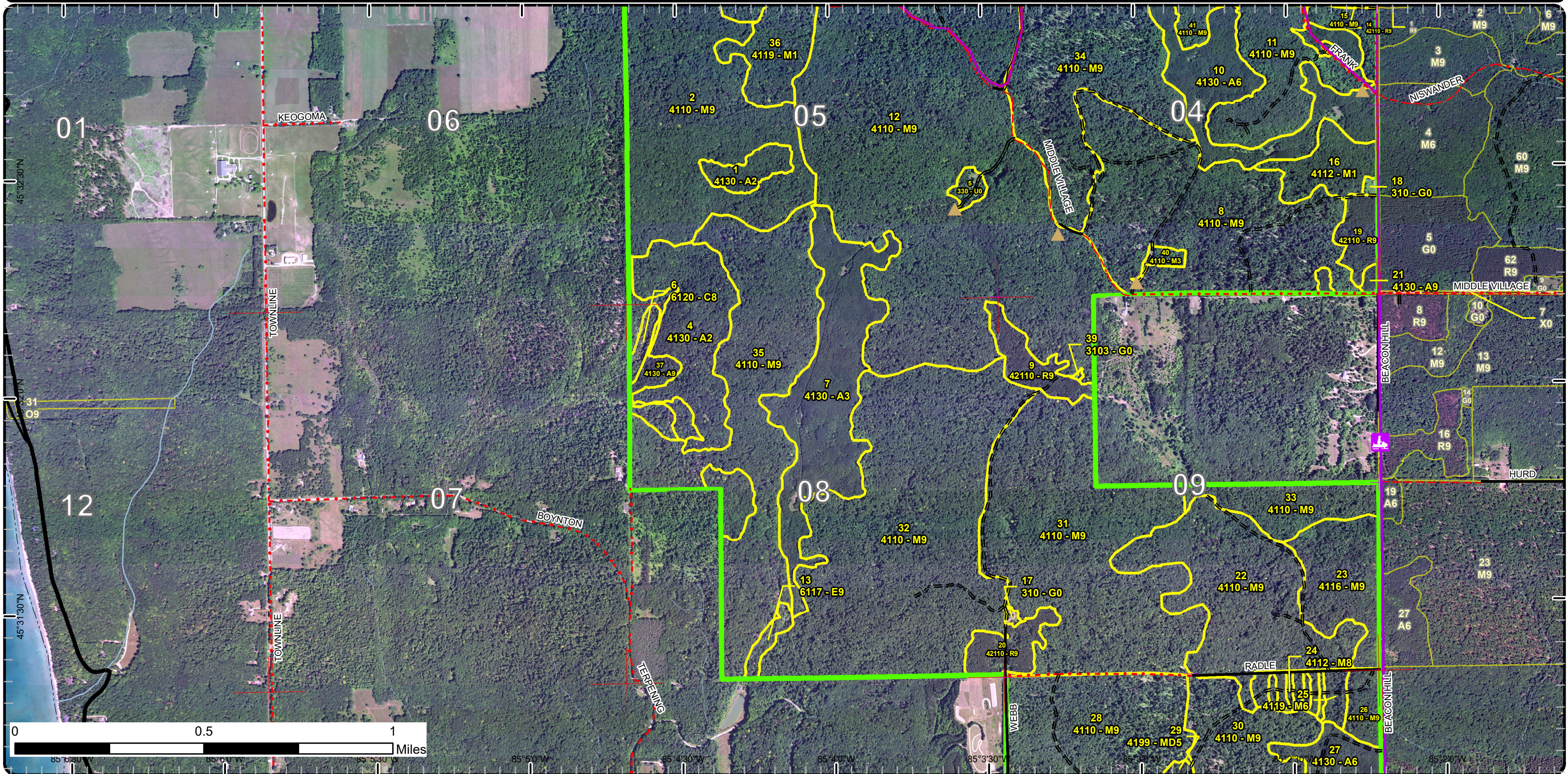
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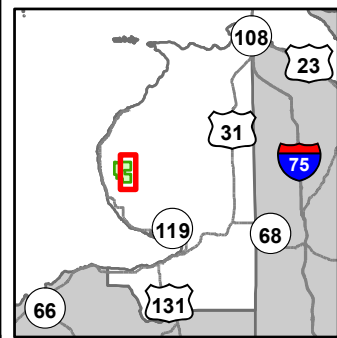


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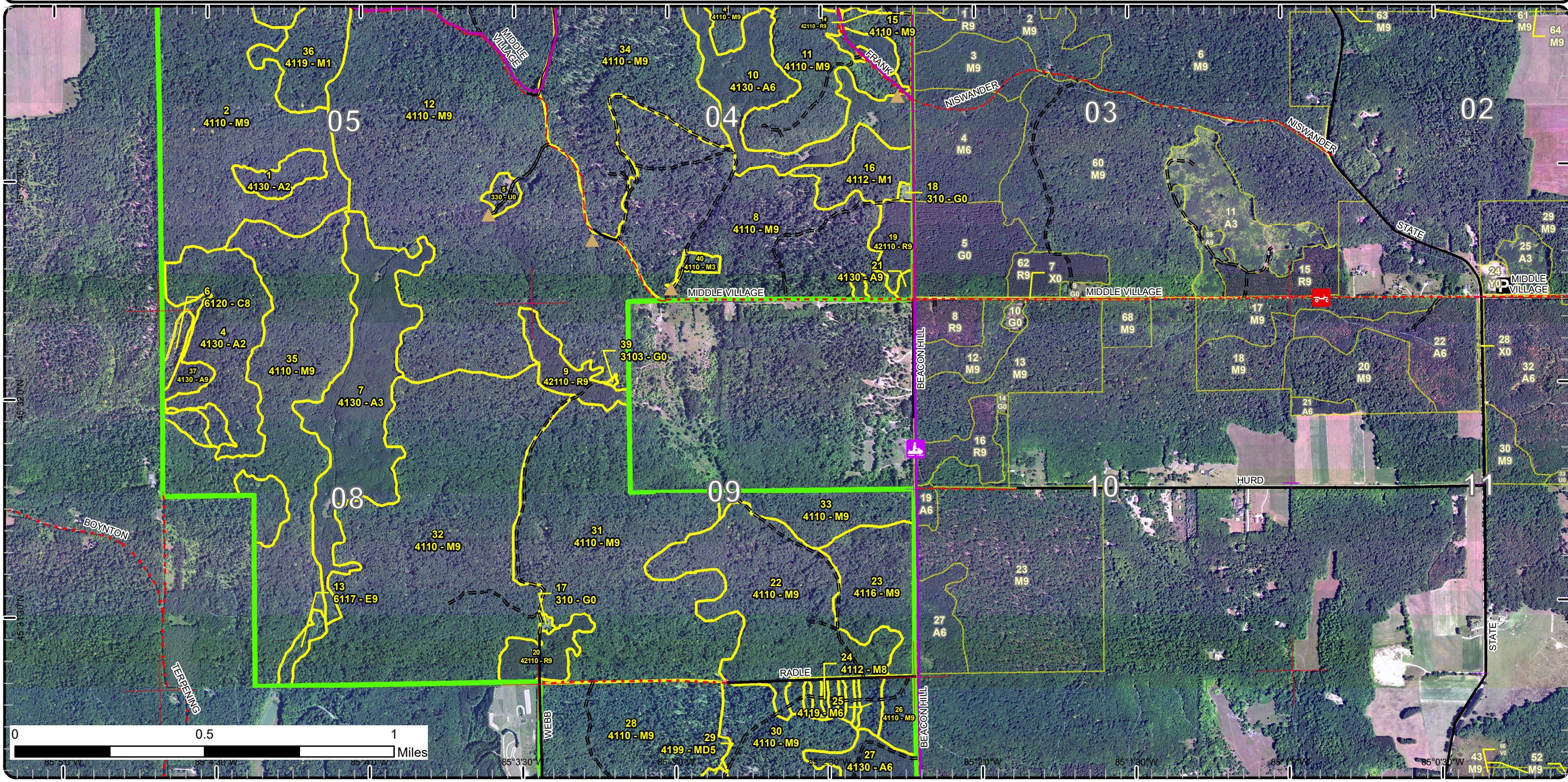


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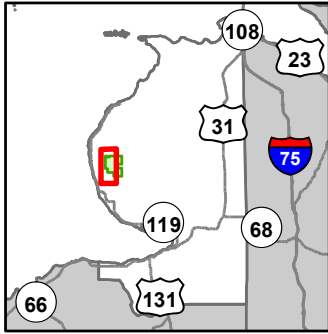


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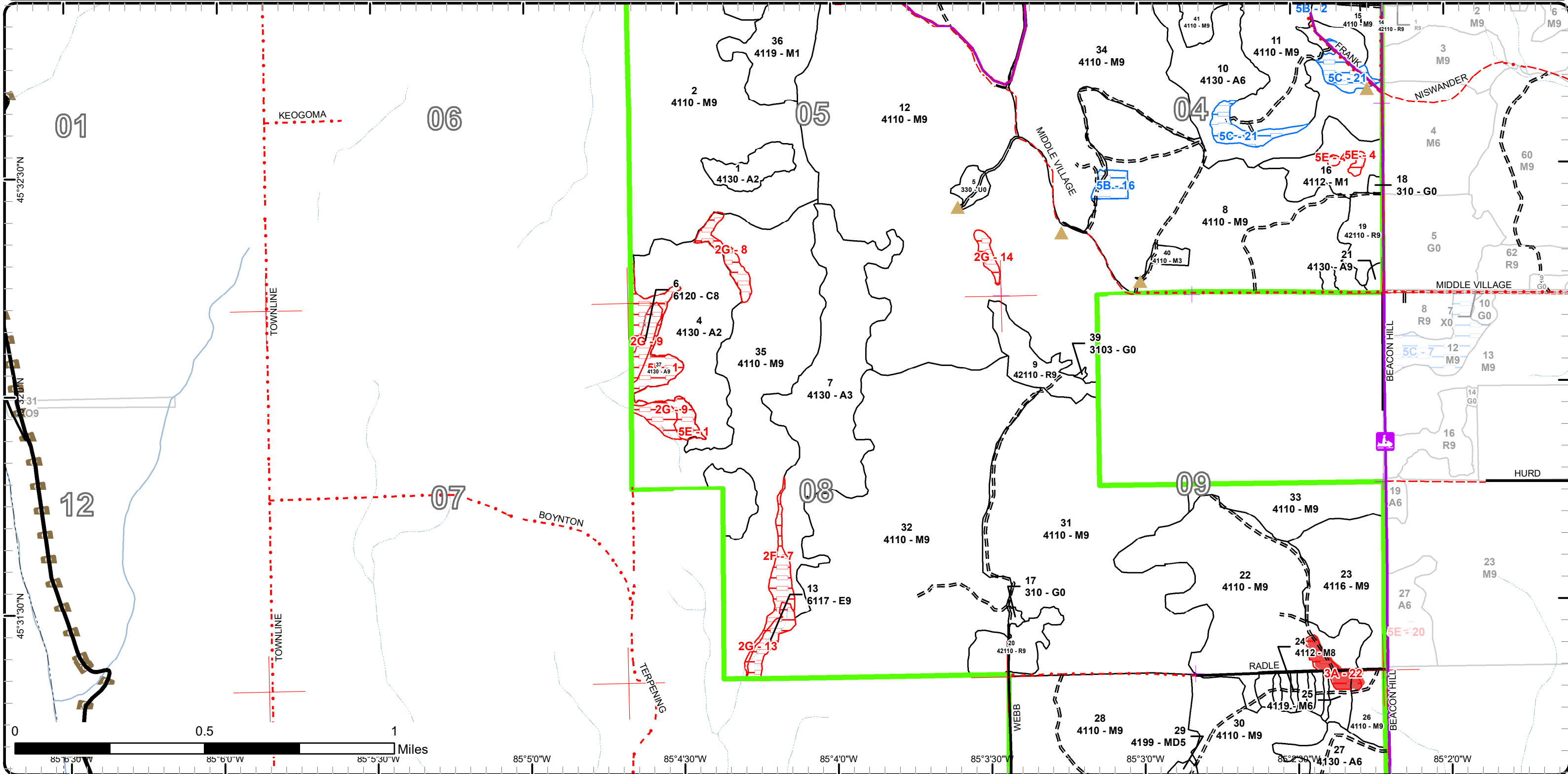


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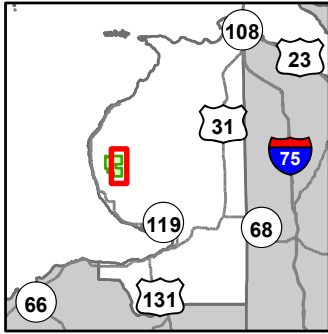


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- Available w/ Constraints
- 5B: Maintain for regeneration purposes
- Unavailable
- 2F: Too steep
- 2G: Too wet (sensitive soils, does not include access issues)
- 5E: Long-Term Retention
- Stand Boundaries

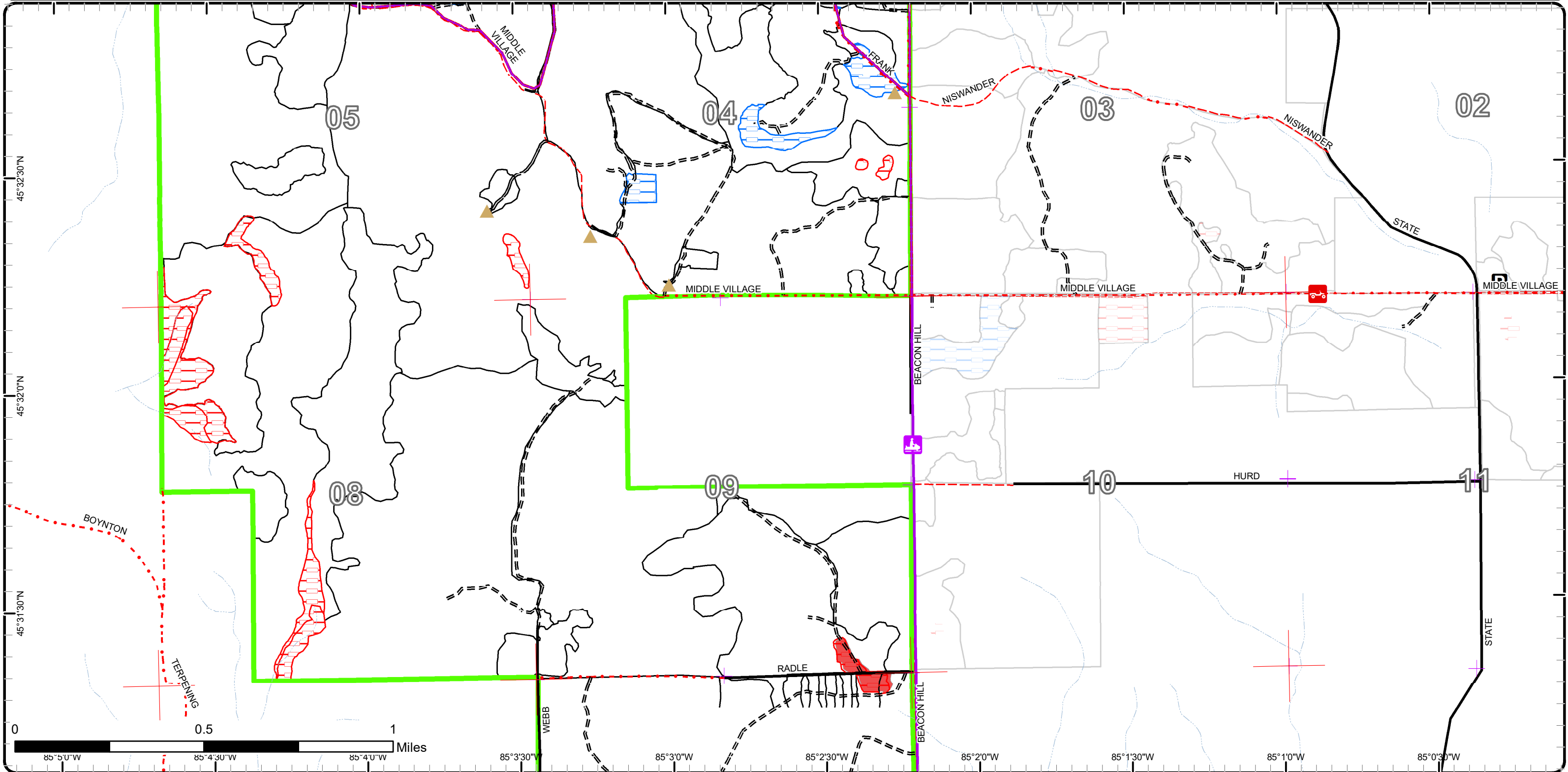


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- Ecological Reference Areas



hardwood and a local abundance of Canada Yew (*Taxus canadensis*). Subsequent field visits and discussions resulted in efforts to avoid areas of dense yew during harvesting operations and maintain old growth characteristics wherever reasonable to do so.

Notes on maple-ization:

Of the 2,489 acres making up this compartment, 79% (1973 acres) are occupied by mature hardwood. The remaining 21% are stands dominated by aspen or red pine (and very few acres of immature hardwood (cherry dominated)).

Of the 79% mature hardwood, 93% of the volume is sugar maple, 2.4% black cherry, and 1.7% basswood. Roughly one-half of a percent (.5%) is red maple, birch, white ash, and beech (totaling 2%). Mixed aspen accounts for 3% within the covertime, and roughly .005% is hemlock, though this number is admittedly high. (Calculations are based on stand data.)

If sugar maple is removed from the landscape (insect, disease, act of God, or otherwise), ground occupancy on these formerly sugar maple dominated stands would be about 6% (5% if the lingering ash and beech fall victim to EAB and BBD); 9% (or 8%) if you include aspen.

Considerations should be given to promoting species diversity in existing stands and encouraging the same when attempting regeneration.

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



Age Class

	Non-Forest	0-9	10-19	20-29	30-39	40-49	50-59	60-69	70-79	80-89	90-99	100-109	110-119	120-129	130-139	140-149	150+	Uneven-Aged	Total
Aspen	0	81	0	174	21	0	4	0	0	15	0	0	0	0	0	0	0	0	295
Cedar	0	0	0	0	0	0	0	0	0	0	0	0	9	0	0	0	0	0	9
Herbaceous Openland	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
Low-Density Trees	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
Lowland Deciduous	0	0	0	0	0	0	0	0	0	0	0	5	0	0	0	0	0	0	5
Mixed Upland Deciduous	0	0	0	0	6	0	0	0	0	0	0	0	0	0	0	0	0	0	6
Northern Hardwood	0	55	0	0	14	3	42	0	0	0	1016	963	0	0	0	0	0	0	2093
Red Pine	0	0	0	0	0	0	0	73	0	0	0	0	0	0	0	0	0	0	73
Total	9	136	0	174	41	3	46	73	0	15	1016	968	9	0	0	0	0	0	2489



Report 2 – Treatment Summary

Gaylord Mgt. Unit

Year of Entry: 2025

Acres of Harvest

Compartment 102

Total Compartment Acres: 2,489

Commercial Harvest - 82
 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	Overshory Removal	Salvage	Other	Total Acres
Northern Hardwood		0	43	0	0	0	39	0	0	0	82
	Total	0	43	0	0	0	39	0	0	0	82

Proposed and Next Step Treatments by Method

		Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current		82	0	0	0	0	1	406	0	0	489
Next Step		0	0	0	0	0	1	88	0	0	89
	Total	82	0	0	0	0	2	495	0	0	578



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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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Approved Treatments:

2	52102002-Spray	0.5	4110 - Sugar Maple Association	Sawtimber Well	97	51-80	Pesticide	Hand Application	411 - Northern Hardwood	Even-Aged	No
<p><u>Prescription</u> Remove Japanese Barberry. This may be accomplished in cooperation with local CISMAs or other non-agency resources.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Invasive Species</p> <p><u>Treatments:</u> ; Pesticide, Hand Application; Monitoring, Invasive Species</p> <p><u>Acceptable</u></p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2024</p>											
11	52102011-Cut	38.7	4110 - Sugar Maple Association	Sawtimber Well	94	111-140	Harvest	Crown Thinning	411 - Northern Hardwood	Even-Aged	No
<p><u>Prescription</u> Thin to 80BA. Mark merchantable sugar maple only to retain stand diversity and seed sources from underrepresented species. Exclude east leg (small inclusion of hardwood with aspen and pine) and southwest hillside (dominated by red maple and beech). Sign and protect snowmobile trail.</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> Northeast edge may be excluded if too steep. Consider marking for equipment along the slope if operable.</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2024</p>											
16	52102016-Monitor	21.4	4112 - Maple, Beech, Cherry Association	Sapling Poor	2	Immature	Monitoring	Natural Regen (Re-Inventory)	4112 - Maple, Beech, Cherry Association	Even-Aged	No
<p><u>Prescription</u> Monitor for acceptable natural regeneration.</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Minimum stocking of northern hardwoods not dominated by beech.</p> <p><u>Regen:</u></p> <p><u>Other</u> Poor stocking/diversity/quality in 2023 field observation. Not a good candidate for planting. Continue monitoring through next inventory cycle.</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2032</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
26 52102022-14-New	0.1	4110 - Sugar Maple Association	Sawtimber Well	98	81-110	Pesticide	Hand Application	411 - Northern Hardwood	Even-Aged	No
<p><u>Prescription</u> Remove Japanese Barberry. This may be accomplished in cooperation with a local CISMA or through other non-agency resources. <u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Invasive Species <u>Treatments:</u> ; Pesticide, Hand Application; Monitoring, Invasive Species</p> <p><u>Acceptable Regen:</u></p> <p><u>Other Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2024</p>										
22 52102022-Spray	0.2	4110 - Sugar Maple Association	Sawtimber Well	98	81-110	Pesticide	Hand Application	411 - Northern Hardwood	Even-Aged	No
<p><u>Prescription</u> Remove Japanese Barberry. This may be accomplished in cooperation with a local CISMA or through other non-agency resources. <u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Invasive Species <u>Treatments:</u> ; Pesticide, Hand Application; Monitoring, Invasive Species</p> <p><u>Acceptable Regen:</u></p> <p><u>Other Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2024</p>										
32 52102032-Monitor	237.8	4110 - Sugar Maple Association	Sawtimber Well	102	81-110	Monitoring	Natural Regen (Re-Inventory)	411 - Northern Hardwood	Uneven-Aged	No
<p><u>Prescription</u> Continue monitoring regeneration. <u>Specs:</u></p> <p><u>Next Step</u> <u>Treatments:</u></p> <p><u>Acceptable Regen:</u> Minimum stocking of northern hardwoods not dominated by beech and ash.</p> <p><u>Other Comment:</u> Medium stocking of seedling sugar maple present during 2023 inventory cycle, but regen is dominated by ash and beech saplings.</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2032</p>										
33 52102033-Spray	0.1	4110 - Sugar Maple Association	Sawtimber Well	102	81-110	Pesticide	Hand Application	411 - Northern Hardwood	Even-Aged	No
<p><u>Prescription</u> Remove Japanese barberry. This may be accomplished in cooperation with local CISMA or other non-agency resources. <u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Invasive Species <u>Treatments:</u> ; Pesticide, Hand Application; Monitoring, Invasive Species</p> <p><u>Acceptable Regen:</u></p> <p><u>Other Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2024</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
35 52102035-Monitor	124.1	4110 - Sugar Maple Association	Sawtimber Well	97	51-80	Monitoring	Natural Regen (Re-Inventory)	4110 - Sugar Maple Association	Uneven-Aged	No
<p><u>Prescription</u> Continue monitoring for adequate desirable hardwood regeneration. <u>Specs:</u> <u>Next Step</u> <u>Treatments:</u> <u>Acceptable</u> Minimum stocking of northern hardwoods not dominated by ash or beech. <u>Regen:</u> <u>Other</u> Stand did not pass regen check. Rx called for regen not dominated by ash and/or beech, which this stand is. Low amount of desirable <u>Comment:</u> hardwood present. <u>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /2032</p>										
36 52102036-Monitor	23.1	4119 - Mixed Northern Hardwoods	Sapling Poor	6	Immature	Monitoring	Natural Regen (Re-Inventory)	4112 - Maple, Beech, Cherry Association	Even-Aged	No
<p><u>Prescription</u> Continue regeneration monitoring. <u>Specs:</u> <u>Next Step</u> <u>Treatments:</u> <u>Acceptable</u> Moderate to well stocked black cherry and other northern hardwood not dominated by beech or ash. <u>Regen:</u> <u>Other</u> Northern portion of stand (not included in treatment) had an MO for minimum stocking of hardwood not dominated by ash or beech which <u>Comment:</u> passed the regen check. This treatment for a moderate stocking of desirable hardwood did not pass and requires more time. <u>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /2032</p>										
41 52102041-Cut	43.3	4110 - Sugar Maple Association	Sawtimber Well	94	111-140	Harvest	Single Tree Selection	411 - Northern Hardwood	Two-Aged	No
<p><u>Prescription</u> Thin to 80BA and implement patch cuts (1/4 to 2 acres in size) at a density of two to three per 10 acres, avoiding areas with desirable <u>Specs:</u> advanced sugar maple saplings. Do not cut species other than sugar maple, cherry, ash, or beech (in marked areas or within gaps). Do not cut trees >20". Sign and protect snowmobile trail. <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory); Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u> <u>Acceptable</u> Acceptable regeneration will meet minimum stocking for northern hardwoods not dominated by beech. <u>Regen:</u> <u>Other</u> Exclude portion northeast of road (pole dominated) and small sap/pole inclusion in east. <u>Comment:</u> <u>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /2024</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
41 52102041-Spray	0.1	4110 - Sugar Maple Association	Sawtimber Well	94	111-140	Pesticide	Hand Application	411 - Northern Hardwood	Even-Aged	No
<p><u>Prescription</u> Remove japanese barberry. This may be accomplished in cooperation with local CISMA or other non-agency resources.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Invasive Species</p> <p><u>Treatments:</u> ; Pesticide, Hand Application; Monitoring, Invasive Species</p> <p><u>Acceptable Regen:</u></p> <p><u>Other Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2023</p>										

Total Treatment Acreage Proposed: 489.4

Report 4 – Site Conditions

Gaylord Mgt. Unit
Tricia St. Pierre : Examiner

Compartment: 102
Year of Entry: 2025

Availability for Management

Total Acres	Acres Available	Acres Avail		Acres Not Available	Dominant Site Conditions									
		With Condition			5B	5C	2F	2G	3A	3G	5E			
295	280	0		15	Aspen				0					15
9	0	0		9	Cedar				9					
5	5	0		0	Herbaceous Openland									
4	4	0		0	Low-Density Trees									
5	0	0		5	Lowland Deciduous				5					
6	6	0		0	Mixed Upland Deciduous									
2092	2037	33		22	Northern Hardwood	20	14	7	8	5				2
73	73	0		0	Red Pine								0	
2,489	2,404	33		51	Total Forested Acres	20	14	7	22	5		0		16
	97%	1%		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	15	2F: Too steep	Unspecified	Unspecified	Unspecified
<p>Comments: Long-Term Retention for Stand 4. Portions of stand are too steep to harvest following BMPs.</p>							
2	Available	5B: Maintain for regeneration purposes	9	Unspecified	Unspecified	Unspecified	Unspecified
<p>Comments: Nice developing sugar maple poles, not ready for thinning. (Portion to west of road is sapling dominated; portion to east is pole/log/sap dominated.)</p>							
4	Unavailable	5E: Long-Term Retention	2	Unspecified	Unspecified	Unspecified	Unspecified
<p>Comments: Long term retention for parent stand 16; BC dominated with SM; trace RM, BW, IW, PB.</p>							

Report 4 – Site Conditions

Gaylord Mgt. Unit
Tricia St. Pierre : Examiner

Compartment: 102
Year of Entry: 2025

7	Unavailable	2F: Too steep	7	2G: Too wet (sensitive soils, does not include access issues)	Unspecified	Unspecified	Unspecified
Comments: Steep hillside with drainage at the bottom; sensitive, saturated soils. Hemlock present.							
8	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	6	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Wet draw with intermittent flowing water from south to north. Becomes moderately/seasonally saturated with no flow in the north. Sugar maple dominated with dead white ash (a lot of ash debris) and beech. Trace yellow birch, basswood, BAM and bigtooth. Subcanopy is dominated by ash and sugar maple with a fair amount of striped maple, beech, gooseberry, honeysuckle, and raspberry.							
9	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	9	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Very saturated soils; flowing water/intermittent stream. Extremely sensitive soils.							
13	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	5	3A: Conservation Values incompatible with harvest at this time	Unspecified	Unspecified	Unspecified
Comments: Sensitive, saturated soils. Intermittent stream with defined banks in places. Unique density of hemlock.							
14	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	3	3A: Conservation Values incompatible with harvest at this time	Unspecified	Unspecified	Unspecified
Comments: Protect RMZ along drainage (intermittent stream). Wet, saturated soils; flowing water. RM/QA/BC dominated with PB, SM. Nice SM dominated subcanopy with RM, AB.							

Report 4 – Site Conditions

Gaylord Mgt. Unit
Tricia St. Pierre : Examiner

Compartment: 102
Year of Entry: 2025

16	Available	5B: Maintain for regeneration purposes	11	Unspecified	Unspecified	Unspecified	Unspecified
Comments: This acreage was non-forested circa 1938 and is currently stocked with smaller poles and/or saplings.							
20	Unavailable	3G: Other Influence zones - See comments	0	Unspecified	Unspecified	Unspecified	Unspecified
Comments: HAL concern							
21	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	14	Unspecified	Unspecified	Unspecified	Unspecified
Comments: East: A hardwood dominated area with increased presence of aspen and pine. Terrain and timber are not conducive to harvesting at this time. West: Hillside with lesser quality hardwood, not appropriate for a thinning at this time.							
22	Unavailable	3A: Conservation Values incompatible with harvest at this time	5	1C: Other dept or div proc/practices	Unspecified	Unspecified	Unspecified
Comments: EO_ID 16067, Mesic Northern Forest: Webb Road Mesic Northern Forest. Yew exclosure contained in north end of ERA.							

Mgt. Unit

Compartment: #Type!

Year of Entry:



Report 5 – PROPOSED SPECIAL CONSERVATION AREA* (SCA) DETAILS

* This is a partial list of SCAs for this compartment. Not included are those areas identified under other Department initiatives (Natural Rivers, Deer Wintering Areas, etc.). Those will be identified in separate, future map and report products.

SCA Name	SCA Category	Detail Type	Recommendation	Acres
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Comments



Report 6 – EXISTING SPECIAL CONSERVATION AREA DETAILS

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

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

Conservation Area	Type	Description
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	4130 - Aspen	Sapling Medium	11.3	6	Immature	N/A	Trace basswood, white ash, beech in canopy. Rare beech, prickly gooseberry in subcanopy. Thistle in skid trails. Clearcut in 2017, part of Crypto Hardwood, 52-108-16.																																																																									
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2	4110 - Sugar Maple Association	Sawtimber Well	171.4	97	51-80	N/A	Trace paper birch, yellow birch, beech, bigtooth aspen in canopy. Rare hemlock (on far north edge), staghorn sumac (northeast edge), and quaking aspen in subcanopy. Observed two paper birch saplings in north "opening" (low density trees, dominated by rubus). Teal-ringed beech are dead or dying. Old railroad grade in south. BAs are wildly variable. Crypto Hardwood (52-108-16), 2017: Marked thinning plus all ash and beech.																																																																									
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3	310 - Herbaceous Openland	Nonstocked	2.1		Unspecified	No	Small dump in northwest - bed springs, rims, tire.																																																																									
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4	4130 - Aspen	Sapling Medium	69.8	4	Immature	N/A	Heavy browsing pressure. Snow depth made it difficult to assess presence any hardwood seedlings/saplings less than two feet tall. Stand is hovering around 75% forested; somewhat clumpy.																																																																						
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5	330 - Low-Density Trees	Nonstocked	4.4		Unspecified	No	Black cherry present in Pole/log/sap; serviceberry sap/pole; white ash sap/pole. Porcupine present. Very dense sugar maple saplings on west edge.																																																																						
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6	6120 - Lowland Cedar	Sawtimber Medium	8.8	115	81-110	N/A	Heavy blowdown. Very mushy ground. Canopy black ash (formerly 10% (2013)) is now gone, trace lingering white ash. Black and white ash saplings exist, browsed but present. Trace red maple, balsam poplar, paper birch in canopy. Sugar maple on east perimeter of north island. Rare honeysuckle, serviceberry in subcanopy. Defined stream through south island; lot of down woody debris. High deer density. South island is 85% forested, cedar, yellow birch, hemlock dominated; north island is 60% forested, smaller diameter cedar, much less hemlock; flooded but no defined stream banks or beds; flowing surface water present.																																																																						
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7	4130 - Aspen	Sapling Well	89.4	24	Unspecified	N/A	Just coming into pole. Trace ironwood and serviceberry in canopy. Rare striped maple, red berried elder, alternate leafed dogwood, serviceberry, elm in subcanopy. Sugar maple saplings are heavily browsed. North landing has a high stocking of spotted knapweed; south landing has spotted knapweed, raspberry, bam. Nice response from paper birch in the north. Long Time Aspen (51-031-95).																																																																										
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8	4110 - Sugar Maple Association	Sawtimber Well	152.6	93	51-80	N/A	Subcanopy development from 2013 to 2023 shows a steady stocking of beech, ironwood, and striped maple with a significant increase in sugar maple (not reported in 2013 to medium in 2023) and white ash (not reported in 2013, medium in 2023). A lot of browsing on sugar maple and white ash but some stems have escaped browse height and are 10-20'; some leader damage on 5-20' sugar maple saplings. Salvage harvest in 2015. Post salvage harvest BA was 60, 2023 BA is 76. Steeper hills in the north center of stand have higher BA, slightly smaller diameters, and a slight increase in diversity (increase in basswood, more residual ash and beech). Trace paper birch, bigtooth aspen, yellow birch, red maple in canopy. Rare red berried elder in subcanopy. Scattered ash, beech, birch snags. FTP 353 in 1978, FTP 365 in 1978, FTP 352 (portion) in 1977: non-commercial TSI thinnings in portions of the stand. 2015 Emmet Salvage #29 - all ash and beech except teal-marked trees. Middle Village Hardwood (52-120-05) - 4 acres in southeast. Harvested in 2005?																																																																										
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9	42110 - Planted Red Pine	Sawtimber Well	16.7	64	111-140	N/A	Heavy hardwood understory. Planted in 1958. Original ground cover of grass, milkweed, hawkweed, bracken fern, and blackberry. Third row thinned in 1996. Marked thinning in 2017.																																																																										
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments			
10	4130 - Aspen	Poletimber Well	85.0	25	81-110	N/A	Trace basswood, balsam poplar, ironwood, red maple, white ash in canopy. Rare alternate leafed dogwood in subcanopy on extreme east edge along road. Scattered non-forested openings with honeysuckle, juniper, black cherry, raspberry. Much higher stocking of honeysuckle and hazelnut in east quarter of stand. Squirrel damage and blow down in the west central portion; good potential for seasonal standing water in the far north. Main body of stand was harvested in 1997, Three Mud Hole Sale (51-019-95). East smaller island was harvested in 1998, 52-071-97.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Sugar Maple		3	Sapling/Pole	4		Hawthorn (spp.)		Trace	5 - 10 feet	Tall Shrub
Paper Birch		1	Pole/Sapling	6		Juniper		Trace	< 5 feet	Tall Shrub
Serviceberry (Juneberry)		1	Sapling	3		Serviceberry (Juneberry)		Low	Variable	Sapling
Pin Cherry		2	Pole/Sapling	5		Hazelnut (Beaked)		Low	5 - 10 feet	Tall Shrub
Bigtooth Aspen		10	Pole/Sapling	7	25	American Fly Honeysuckle		Medium	5 - 10 feet	Tall Shrub
Quaking Aspen		53	Pole/Sapling	6	25	Beech		Trace	< 5 feet	Sapling
Black Cherry		30	Pole/Sapling	6	25	Sugar Maple		Medium	Variable	Sapling
						White Ash		Trace	Variable	Sapling
						Black Cherry		Low	Variable	Sapling
						Ironwood		Trace	Variable	Sapling
						Prickly Or Wild Gooseberry		Trace	< 5 feet	Tall Shrub
11	4110 - Sugar Maple Association	Sawtimber Well	52.3	94	111-140	N/A		Trace quaking and bigtooth aspen, white pine in the canopy (QA and WP in far east leg). Far southwest edge is an inclusion of lower quality red maple and beech with medium-high beech subcanopy on a south/southwest facing slope. The main body of the stand is nice quality sugar maple with a somewhat sparse subcanopy, which is better than one dominated by beech and/or ironwood. Far east leg is also an inclusion; more variable than rest of stand. Prison crew thinned in 1996, FTP 51-450.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Red Maple		2	Log	14		White Ash	Low		< 5 feet	Sapling
Basswood		3	Log	13		Sugar Maple	Medium		< 5 feet	Seeding
White Ash		2	Log/XLog	16		Sugar Maple	Low		Variable	Sapling
Beech		1	Pole/Log	8		Beech	Trace		5 - 10 feet	Sapling
Black Cherry		3	Log	14		Ironwood	Low		Variable	Sapling
Sugar Maple		89	Log/Pole/XLog	11	94					
12	4110 - Sugar Maple Association	Sawtimber Well	436.8	102	81-110	N/A	Trace beech and white ash remain in canopy. Trace paper birch in canopy. Most residual beech volume is in southeast. Rare honeysuckle, serviceberry, and gooseberry in subcanopy. Deer densities are heaviest in areas of lower basal area; beds in thicker rubus. Southwest and portions of southeast acreage are most capable of being thinned, BAs ranging 80-110. West (above stand 7) has surprising low subcanopy stocking, mostly white ash low to medium. Some decent advanced sugar maple present here and around stand 5 (U0).			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species			Density	Avg. Height
Basswood		1	Log/XLog	14		Blackberry/Raspberry		Medium	< 5 feet	Tall Shrub
Red Maple		1	Log/XLog	14		Striped Maple		Low	10 - 20 feet	Sapling
Yellow Birch		1	Log/Pole	12		White Ash		High	Variable	Sapling
Sugar Maple		95	Log/Pole/XLog	12	102	Beech		Medium	Variable	Sapling
Quaking Aspen		1	Log	14		Black Cherry		Trace	< 5 feet	Sapling
Black Cherry		1	Log/XLog	14		Ironwood		Trace	Variable	Sapling
						Sugar Maple		Low	Variable	Sapling



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																																
13	6117 - Lowland Deciduous, Mixed Coniferous	Sawtimber Well	5.4	100	81-110	N/A	Fairly healthy hemlock; no signs of HWA. Small stream running through the stand; drainage flows south, extends further north. Trace cedar in canopy. Spongy, wet ground, especially in the north.																																																																
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14	42110 - Planted Red Pine	Sawtimber Well	27.6	65	111-140	N/A	Nice quality red pine. Heavy browsing resulting in mostly poorly formed hardwood subcanopy. Last thinned in 2018. Two pockets of decline noted. Clumps of dense red pine sapling volunteers in former landing. Planted in 1957. Third row thinned in 1998. Marked thinning in 2018. Two pockets of decline, possibly armillaria.																																																																
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15	4110 - Sugar Maple Association	Sawtimber Well	10.8	98	81-110	N/A	Trace ironwood, red maple, yellow birch, black cherry in canopy. Rare serviceberry in subcanopy. A lot of nice pole sugar maple and advanced saplings, too. Fairly high ironwood subcanopy in competition, too. Trace white pine in south tip.																																																																
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16	4112 - Maple, Beech, Cherry Association	Sapling Poor	23.0	2	Immature	N/A	Long term retention pockets and scattered advanced residual sapling/pole sugar maple and serviceberry. A few scattered log residual (sugar maple, beech, bigtooth, ironwood) as well, Did not represent LTR in canopy composition - it would skew the stand data. (LTR = BC dominated with SM; trace RM, BW, IW, PB). Mullein and spotted knapweed present. Poor stocking/diversity/quality. Not a good candidate for planting. Not sure if more time will result in better success. Cherry Drop II (52-106-19) harvested in 2020.																																																																
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21	4130 - Aspen	Sawtimber Well	3.5	50	111-140	N/A	Rare red maple, basswood, elm in canopy (poles). West island is more homogeneously aspen than east.																																																																										
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22	4110 - Sugar Maple Association	Sawtimber Well	101.8	98	81-110	N/A	Trace ironwood, yellow birch, elm, red maple, and hemlock in canopy. Rare honeysuckle, hazelnut in subcanopy. Dead beech, ash, and birch. Black knot concern in cherry. Bad beech bark disease/beech brush in north center of stand. Southeast has an increase in black cherry and hemlock (some decline in hemlock; no signs of HWA or hemlock borer); trace quaking and bigtooth aspen. Far northwest has a very nice pocket, approximately 5 acres, of 110-140 BA sugar maple. Southwest is slightly lesser stocked, bit more yellow birch. Deer enclosure from 1995 in disrepair. Fencing is not holding up and deer have breached the enclosure, browsing on the yew. Only surviving yew is under the fence that has fallen over.																																																																										
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23	4116 - Mixed N. Hardwood - Aspen	Sawtimber Well	42.2	59	81-110	N/A	One walnut on southeast edge. Scattered log/xlog sugar and red maple, beech. Aspen hardwood mix. Some aspen is showing signs of decline and older maple is of poor quality. Very nice multi aged maple regen in a lot of the stand. Trace yellow birch, paper birch, white ash, elm, ironwood in canopy. Rare honeysuckle in subcanopy. 1985 fuelwood sale. Trace yew observed on east road edge embankment where bare ground was exposed (April 2023).																																																																										
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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24 4112 - Maple, Beech, Cherry Association Sawtimber Medium 4.9 103 1-50 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Basswood	4	Log/XLog	16		Black Cherry	High	>20 feet	Sapling
Hemlock	1	Log/XLog	16		White Ash	Trace	>20 feet	Sapling
Black Cherry	35	XLog/Log/Pole	18	103	American Fly Honeysuckle	Low	5 - 10 feet	Tall Shrub
Sugar Maple	32	Log/XLog/Pole	16	103	Beech	Trace	< 5 feet	Sapling
Red Maple	25	Pole/Sap/Log	6	26	Sugar Maple	High	< 5 feet	Seeding
Yellow Birch	3	Log/XLog	16		Yellow Birch	Trace	>20 feet	Sapling
					Ironwood	Low	>20 feet	Sapling
					Blackberry/Raspberry	Low	< 5 feet	Tall Shrub
					Sugar Maple	Medium	Variable	Sapling
					Hazelnut (Beaked)	Trace	5 - 10 feet	Tall Shrub

Constraints of MiFI limit the ability to accurately represent the canopy of this stand. It's log dominated (25% canopy coverage) with two-age sapling and poles (additional 25% canopy closure) mixing in with the canopy. Next inventory cycle may result in a transition to M6. Trace paper birch in canopy. Rare elm in subcanopy.

25 4119 - Mixed Northern Hardwoods Poletimber Well 13.6 34 51-80 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Pin Cherry	32	Pole/Sap/Log	7	34	American Fly Honeysuckle	Low	5 - 10 feet	Tall Shrub
Black Cherry	30	Pole/Log/Sap	8		Black Cherry	Trace	Variable	Sapling
Sugar Maple	15	Log/XLog/Pole	15	103	Ironwood	Low	Variable	Sapling
Yellow Birch	2	Pole/Sap/Log	6		Sugar Maple	High	Variable	Sapling
Hemlock	1	XLog/Log	20					
Red Maple	20	Pole/Log/Sap	6					

A challenge to represent the canopy within the confines of MiFI. Two aged, now dominated by poles with scattered residual hardwood. Trace Log/Xlog sugar maple, yellow birch, red maple in canopy; trace pole quaking and bigtooth aspen. Rare hemlock, white ash, hazelnut, elm in subcanopy. Black cherry in canopy accounts for 5% of residual black cherry. Observed an owl in a hemlock; many owl pellets beneath this and other hemlocks. Cherry Flats II 51-004-95.

26 4110 - Sugar Maple Association Sawtimber Well 11.1 98 81-110 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen	1	XLog/Log	18		Beech	Low	Variable	Sapling
Hemlock	1	Log/XLog	16		Black Cherry	Trace	5 - 10 feet	Sapling
Black Cherry	25	Log/XLog	16		American Fly Honeysuckle	Medium	5 - 10 feet	Tall Shrub
Sugar Maple	65	Log/Pole/XLog	12	98	Prickly Or Wild Gooseberry	Trace	< 5 feet	Tall Shrub
Red Maple	5	Log/XLog/Pole	16		Sugar Maple	Full	< 5 feet	Seeding
Yellow Birch	3	Log/Pole/XLog	14		Blackberry/Raspberry	Low	< 5 feet	Tall Shrub
					Hemlock	Low	>20 feet	Pole
					Japanese Barberry	Trace	< 5 feet	Tall Shrub
					Ironwood	Low	Variable	Sapling
					Hemlock	Trace	Variable	Sapling
					Sugar Maple	Medium	Variable	Sapling

Phenomenal sugar maple regeneration. Trace ironwood, elm, basswood in canopy. Rare hazelnut, yellow birch, ironwood, white ash in subcanopy.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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27 4130 - Aspen Poletimber Well 20.7 33 81-110 N/A

Trace paper birch in canopy. Rare red berried elder, hemlock (just one), alternate leafed dogwood (just saw one), and gooseberry in subcanopy. Couple of logs starting to pop up.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple	3	Pole/Sapling	6		Hazelnut (Beaked)	Trace	5 - 10 feet	Tall Shrub
Ironwood	1	Sapling/Pole	4		Ironwood	Low	Variable	Sapling
Pin Cherry	6	Pole/Sapling	6		Honeysuckle (spp.)	Trace	< 5 feet	Tall Shrub
Red Maple	4	Sapling/Pole	4		Sugar Maple	Medium	Variable	Sapling
Quaking Aspen	10	Pole/Sapling	7		White Ash	Trace	Variable	Sapling
Bigtooth Aspen	71	Pole/Sap/Log	8	33	Serviceberry (Juneberry)	Trace	>20 feet	Sapling
White Ash	1	Sapling	4		Beech	Trace	Variable	Sapling
Black Cherry	4	Pole/Sap/Log	7	33				

28 4110 - Sugar Maple Association Sawtimber Well 147.3 102 81-110 N/A

Trace pin cherry, white ash, basswood in canopy. Rare red berried elder and elm in subcanopy. Some subcanopy is dense beech, though there are occasional pockets of dense white ash. White ash is a little more consistent, but still clumpy; same for striped maple. Raspberry is just below fully stocked. West half of stand has more desirable regeneration; east half is dominated by beech. One mountain maple on north edge of stand.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	1	Log/Pole	14		Beech	Medium	Variable	Sapling
Beech	1	Log/XLog/Pole	16		Blackberry/Raspberry	High	< 5 feet	Tall Shrub
Black Cherry	1	Log/XLog	16		Ironwood	Trace	Variable	Sapling
Sugar Maple	97	Log/Pole/XLog	14	102	Black Cherry	Trace	Variable	Sapling
					White Ash	Medium	Variable	Sapling
					Sugar Maple	Medium	Variable	Sapling
					Striped Maple	Medium	Variable	Sapling
					Yellow Birch	Trace	>20 feet	Pole

Entire stand treated in 2017 as part of Emmet Salvage #30 (52-106-15), cutting all ash and beech (no green marked trees). W1/2 treated in 2007(?) as part of Radle Hardwood (52-115-05). E1/2 treated in 2007(?) as part of Doughnut Hardwood (52-116-05). Northwest treated in 1976, non-commercial TSI FTP. SWSW treated in 1977 non-commercial TSI FTP 305. SESW treated in 1977 non-commercial TSI FTP 304.

29 4199 - Other Mixed Upland Deciduous Poletimber Medium 5.7 35 51-80 N/A

Trace white ash and sugar maple in canopy. Rare serviceberry in subcanopy. Excellent advanced sugar maple saplings, especially in the northwest. Pocket of snow-damaged cherry in the north with a nicely developing hardwood sapling layer. Middle non-forested opening contains spotted knapweed and raspberry.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Black Cherry	25	Pole/Sap/Log	8	35	Sugar Maple	High	Variable	Sapling
Pin Cherry	60	Pole/Sapling	6	35	Striped Maple	Trace	Variable	Sapling
Red Maple	10	Pole/Sapling	6		Red Maple	Trace	Variable	Sapling
Yellow Birch	2	Pole/Sapling	7		Beech	Trace	Variable	Sapling
Paper Birch	3	Pole/Sapling	7					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments			
30	4110 - Sugar Maple Association	Sawtimber Well	104.8	102	81-110	N/A	Significant browsing on sugar and red maple saplings; black cherry, white ash, too. Scattered beech snags. Some very decent sugar maple saplings; clumpy and usually mixed with white ash, but very nice. Couple pockets of higher density basal area, sugar maple dominated. Trace bigtooth aspen in canopy. Rare red maple, yellow birch, yew(!), pin cherry, and gooseberry in subcanopy. Harvested in 2017 as part of Emmet Salvage #31 (52-107-15).			
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size	
Basswood	2	Log/XLog	16		Black Cherry	Trace		Variable	Sapling	
Sugar Maple	90	Log/Pole/XLog	14	102	White Ash	Medium		Variable	Sapling	
Yellow Birch	1	Log/Pole	12		Striped Maple	Trace		10 - 20 feet	Sapling	
Red Maple	4	Log/XLog	14		Beech	High		Variable	Sapling	
Black Cherry	3	Log/XLog	16		American Fly Honeysuckle	Trace		5 - 10 feet	Tall Shrub	
					Ironwood	Low		Variable	Sapling	
					Sugar Maple	Medium		Variable	Sapling	
					Blackberry/Raspberry	Low		< 5 feet	Tall Shrub	
					Sugar Maple	Medium		< 5 feet	Seeding	
31	4110 - Sugar Maple Association	Sawtimber Well	180.7	91	81-110	N/A		Trace yellow birch, black cherry, paper birch, bigtooth aspen in canopy. Rare black cherry, honeysuckle, gooseberry in subcanopy. Clumpy subcanopy beech saplings. Pockets of 30-70BA, pockets of 80-110. Steeper draws in east half; more red berried elder, beech and less yellow birch; west half is flatter. Patchy raspberry but still dense. Subcanopy is somewhat lacking. 1976, '85, '87, '88 received selection harvests in different 40s. Southwest harvested in 2007(?) as part of Radle Harwood (52-115-05). West/southwest harvested in 2009 as part of Raspberry Hardwood (52-114-05). East half harvested in 2010 as part of Got My 40 Again (20-113-08). Northwest harvested in 2010 as part of El Diablo Hardwood (52-112-05). Entire stand harvested in 2018, Emmet Salvage #35, (52-118-16): cut ash and beech only. State does not retain mineral rights on Sec 9 SW.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density			Avg. Height	Size
Beech	1	Log/Pole	10		Beech	Low	Variable		Sapling	
White Ash	1	Log	14		White Ash	Medium	< 5 feet		Seeding	
Basswood	1	Log/XLog	16		Sugar Maple	Low	Variable		Sapling	
Sugar Maple	97	Log/Pole/XLog	14	91	White Ash	Medium	Variable		Sapling	
					Striped Maple	Low	Variable		Sapling	
					Blackberry/Raspberry	High	< 5 feet		Tall Shrub	
					Red Berried Elder	Low	Variable		Tall Shrub	
					Ironwood	Trace	Variable		Sapling	
32	4110 - Sugar Maple Association	Sawtimber Well	238.0	102	81-110	N/A	Trace elm, ash, beech, bigtooth, paper birch, red oak in canopy. Rare alternate leafed dogwood, basswood in subcanopy. Scattered snags, mostly beech, ash, yellow birch, but a few sugar maple, too. Old railroad grade present. Stand is filthy with deer. Raspberry in pockets still somewhat dense; declined densities under denser saplings. Increase in basswood in north; larger diameters, more XLog; decent advanced sugar maple regen and little else. Water present in draw in northwest. Harvested south half in 2009, Raspberry Hardwood (52-114-05); marked thinning. Harvested north half in 2010, El Diablo Hardwood (52-112-05); marked thinning. Harvested entire stand in 2018, Emmet Salvage #35 (52-118-16): cut ash and beech only.			
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density			Avg. Height	Size
Sugar Maple	93	Log/Pole/XLog	14	102	Beech	Low			Variable	Sapling
Basswood	3	Log/Pole/XLog	16		Red Berried Elder	Trace		5 - 10 feet	Tall Shrub	
Yellow Birch	2	Log/Pole/XLog	14		Sugar Maple	Medium		< 5 feet	Seeding	
Black Cherry	2	Log	16		Sugar Maple	Trace		Variable	Sapling	
					Prickly Or Wild Gooseberry	Trace		< 5 feet	Tall Shrub	
					White Ash	High		Variable	Sapling	
					White Ash	Medium		< 5 feet	Seeding	
					Ironwood	Trace		5 - 10 feet	Sapling	
					Striped Maple	Medium		10 - 20 feet	Sapling	
					American Fly Honeysuckle	Trace		5 - 10 feet	Tall Shrub	
					Blackberry/Raspberry	High		< 5 feet	Tall Shrub	



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments				
33	4110 - Sugar Maple Association	Sawtimber Well	31.0	102	81-110	N/A	Trace bigtooth aspen, quaking aspen, yellow birch, basswood in canopy. Rare striped maple, gooseberry in subcanopy. Clumpy subcanopy: ironwood, black cherry, honeysuckle, sugar maple are fairly clumpy; ash and beech seem to be more consistent. Thinned in 2010, part of Got My 40 Again (52-113-08). 1981 Salvage.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Black Cherry		8	Log/Pole/XLog	16		Beech		Low	5 - 10 feet	Sapling	
Sugar Maple		90	Log/Pole/XLog	12	102	Black Cherry		Medium	5 - 10 feet	Sapling	
Red Maple		1	Log/XLog	14		American Fly Honeysuckle		Trace	5 - 10 feet	Tall Shrub	
Beech		1	Log/Pole/XLog	12		Blackberry/Raspberry		Medium	< 5 feet	Tall Shrub	
						Ironwood		Low	Variable	Sapling	
						White Ash		Low	5 - 10 feet	Sapling	
						Sugar Maple		Low	< 5 feet	Sapling	
						Sugar Maple		Medium	< 5 feet	Seeding	
						Japanese Barberry		Trace	< 5 feet	Tall Shrub	
34	4110 - Sugar Maple Association	Sawtimber Well	130.4	93	81-110	N/A		Trace paper birch, quaking aspen, elm in canopy. Rare basswood in subcanopy. Bigtooth and yellow birch are mostly confined to the southwest edge, rarely scattered throughout. Trace residual ash and beech, mostly snagged out now. Basal areas are 80-130 in areas dominated by sugar maple, 20-60 where ash and beech salvage were heaviest. Family of porcupines in southeast.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species			Density	Avg. Height	Size
Sugar Maple		94	Log/Pole/XLog	14	93	Striped Maple			Low	Variable	Sapling
Bigtooth Aspen		1	Log/XLog	14		Prickly Or Wild Gooseberry			Low	< 5 feet	Tall Shrub
Yellow Birch		1	Log/Pole	14		Sugar Maple			Low	Variable	Sapling
Basswood		3	Log/XLog	14		American Fly Honeysuckle			Trace	5 - 10 feet	Tall Shrub
Black Cherry		1	Log	16		Ironwood			Low	Variable	Sapling
						Black Cherry			Trace	Variable	Sapling
						Blackberry/Raspberry			High	< 5 feet	Tall Shrub
						Beech			Low	Variable	Sapling
						Red Berried Elder			Trace	5 - 10 feet	Tall Shrub
						White Ash			High	Variable	Sapling
35	4110 - Sugar Maple Association	Sawtimber Well	152.2	97	51-80	N/A	Trace white ash, red maple in canopy. Rare ironwood, gooseberry, hemlock, basswood in subcanopy. West bubble has some nice advanced sugar maple saplings, but also medium ash stocking and a couple of beech pockets. Wet draw in northwest. Trace hemlock (sap/pole) in subcanopy. Trace yellow birch. Sapling sugar maple are primarily advanced individuals, not recent saplings.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Sugar Maple		95	Log/Pole	12	97	American Fly Honeysuckle		Trace	5 - 10 feet	Tall Shrub	
Black Cherry		1	Log	16		Beech		Medium	Variable	Sapling	
Beech		1	Log/XLog	14		Black Cherry		Trace	Variable	Sapling	
Basswood		3	Log/XLog	15		Sugar Maple		Low	Variable	Sapling	
						Red Berried Elder		Trace	5 - 10 feet	Tall Shrub	
						White Ash		Medium	< 5 feet	Sapling	
						Striped Maple		Trace	5 - 10 feet	Sapling	
						Blackberry/Raspberry		Full	< 5 feet	Tall Shrub	



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments				
36	4119 - Mixed Northern Hardwoods	Sapling Poor	32.1	6	Immature	N/A	Trace balsam poplar in canopy. Rare staghorn sumac in subcanopy. Spotted knapweed in landing. Thistle in skid trails. Scattered residual sapling sugar maple; beech snags present. A lot of deer browse. Southwest quarter of stand is <25% stocked. What little there is is dominated by cherry and ironwood and trace sugar maple, paper birch, and white ash. East half has 75% canopy occupancy, cherry dominated (95% with 5% other hardwood). Clearcut in 2017, part of Crypto Hardwood, 52-108-16.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Black Cherry		70	Sapling	1	6	Ironwood		Trace	< 5 feet	Sapling	
Pin Cherry		18	Sapling	1		Beech		Low	< 5 feet	Sapling	
Ironwood		2	Sapling	1		Prickly Or Wild Gooseberry		Trace	< 5 feet	Tall Shrub	
White Ash		1	Sapling	1		White Ash		Trace	< 5 feet	Sapling	
Bigtooth Aspen		2	Sapling	1		Blackberry/Raspberry		Full	5 - 10 feet	Tall Shrub	
Sugar Maple		2	Sapling	1		Red Berried Elder		Low	5 - 10 feet	Tall Shrub	
Beech		2	Sapling	1							
Paper Birch		3	Sapling	1							
37	4130 - Aspen	Sawtimber Well	15.0	89	81-110	N/A	Identified as long term retention for parent stand 4. Most of the stand occupies a hillside, with the exception of the southernmost portion. The central portion occupies a gentle west facing slope (plateaued on east edge), and the north, a fairly steep southeast facing slope. In the north: rare paper birch, yellow birch, quaking aspen, and red oak in the canopy. Subcanopy is dominated by beech with ironwood and sugar maple. Steep hillside. In the center: trace yellow birch, beech in the canopy. Rare honeysuckle in the subcanopy. Hillside with damp bottom. More aspen, less sugar maple than north; not a great subcanopy. In the south: trace red maple and black cherry in the canopy. Rare honeysuckle, black cherry, hemlock in the subcanopy. Beech canopy is dead; high beech in the subcanopy.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Sugar Maple		38	Log/Pole/XLog	10		Sugar Maple		Low	< 5 feet	Seeding	
Bigtooth Aspen		60	Log/XLog/Pole	16	89	Beech		Medium	Variable	Sapling	
Paper Birch		2	Log/Pole	10		Striped Maple		Trace	Variable	Sapling	
						Hemlock		Trace	10 - 20 feet	Sapling	
						White Ash		Trace	< 5 feet	Sapling	
						Sugar Maple		Low	Variable	Sapling	
39	3103 - Rubus-Fern	Nonstocked	0.3	0	Unspecified	No	Utilized as a landing. One cord of red pine pulp remains. Golden rod, thistle present.				
Sub-Canopy Species		Density	Avg. Height	Size							
Blackberry/Raspberry		High	< 5 feet	Tall Shrub							
Spotted Knapweed		Trace	Unspecified	Non-Wood							
Bracken Fern		Low	Unspecified	Non-Wood							
40	4110 - Sugar Maple Association	Sapling Well	3.2	45	1-50	N/A	Scattered pole/log paper birch and log/pole sugar maple from parent stand, otherwise stand is sap/pole dominated. Trace striped maple, basswood, and white ash in canopy. West edge is generally non-forested (old landing), occupied by raspberry, honeysuckle, and juniper with a forest road running north to south.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Serviceberry (Juneberry)		1	Sapling	3		Beech		Low	Variable	Sapling	
Red Maple		10	Pole/Sap/Log	6		Ironwood		Trace	Variable	Sapling	
Black Cherry		5	Pole/Log/Sap	8		Striped Maple		Trace	Variable	Sapling	
Sugar Maple		80	Sapling/Pole	4	45	Sugar Maple		Medium	Variable	Sapling	
Beech		2	Pole/Sapling	5		White Ash		Trace	< 5 feet	Sapling	
Paper Birch		2	Pole/Log	8							



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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41 4110 - Sugar Maple Association Sawtimber Well 52.2 94 111-140 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen	2	Log/XLog/Pole	14		Black Cherry	Trace	< 5 feet	Sapling
Sugar Maple	62	Log/Pole/XLog	12	94	Ironwood	Medium	Variable	Sapling
Basswood	1	Pole/Log	8		White Ash	Low	Variable	Sapling
Beech	2	Log/Pole	12		Beech	Low	Variable	Sapling
Black Cherry	28	Log/XLog/Pole	14		Japanese Barberry	Trace	< 5 feet	Tall Shrub
White Ash	5	Log/XLog/Pole	14		Sugar Maple	Low	Variable	Sapling

Trace bigtooth aspen and elm in canopy. Rare striped maple, serviceberry, honeysuckle, and gooseberry in subcanopy. Better quality and density desirable regeneration under lesser quality, wolfy sugar maple and black cherry. Nice advanced sugar maple saplings often accompanied by higher volume of ironwood saplings. Dense beech brush in northwest with an increased presence of declining beech in the canopy. Portion northeast of the road is pole/log/sap dominated, about 5 acres. Small clump of saplings (.5 acres) included to west of road dominated by black cherry and sugar maple with white ash.