



Compartment Review Presentation

Traverse City Forest Management Unit

Compartment 61175

Entry Year 2028

Acreage: 2,595

County: Kalkaska

Management Area: Kalkaska Sandy Moraines

Stand Examiner: Steve Crigier

Legal Description:

T28N, R6W, Sec's 5, 6, 7 & 8

T28N, R7W, Sec's 1, 2, 3, 4, 5 & 12

Identified Planning Goals:

Each cover type in the Kalkaska Sandy Moraines management area has a unique age class and basal area class goals that describe the long term desired future conditions. The harvests prescribed in this current Year of Entry for compartment 61175 are necessary to begin achieving those long-term goals that are summarized in the State Forest Management Plan. These harvests will help establish a desirable amount of regeneration for the even-aged cover types over the 10-year period or help to achieve desired basal area distribution among un-even aged cover types like northern hardwoods and planted white pine. The principle goal of forest management in this area is to conserve or enhance the biological diversity.

Soil and topography:

Mainly Kalkaska Loamy Sand with some Mancelona Gravely Sandy Loam and Emmet Sandy Loam. Flat to extremely hilly. Scattered small pothole lakes in eastern part.

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

This compartment is along the Antrim-Kalkaska County line and is less than four miles from Mancelona. Little solid state ownership. Two large plats next to state ownership are largely undeveloped. Mostly abandon farm land & forested land surround state land.

Unique Natural Features:

None Known.

Archeological, Historical, and Cultural Features:

None known.

Special Management Designations or Considerations:

Apply Best Management Practices around Vernal Ponds.

Watershed and Fisheries Considerations:

This compartment is within the Rapid River watershed. The headwaters to the Rapid are located in stand 87; existing buffers appear to be appropriate for the proposed treatments. Reasonable buffers (as outlined in Water Quality Management Practices on Forest Land) should be adhered to around all streams in this compartment. The Rapid River and its tributaries are Type 1 designated trout streams.

Wildlife Habitat Considerations:

Nearly all of Compartment 175 is pitted outwash plain with excessively drained sandy soils. The topography is varied, from level to undulating hills and ridges. Northern hardwoods, red pine and white pine plantations, and aspen dominate the landscape, with scattered upland brush and grass openings. A small projection of steep, broken moraine ridges with few kettle lakes and well drained loamy sand soils forms a steep hilly landscape in the northeastern corner of the Compartment. Northern hardwoods and red pine plantations are the dominate cover types.

Wildlife priorities when managing northern hardwood stands focus on age, structural, and species diversity. Promotion of yellow birch, hemlock, and other less common components of the northern hardwood association increases species diversity. Selective harvest favoring retention of den trees, mast-producing species, and coarse woody debris (CWD) creates a matrix of food and shelter favoring the white-footed mouse, northern flying squirrel, American marten, broad-winged hawk, hairy woodpecker, and Eastern hog-nosed snake. Management of aspen in aspen stands, as inclusions in northern hardwood and mixed pine stands, and as a transition species near non-forested stands promotes age and structural diversity, maintaining significant CWD, and retention of scattered islands of mature aspen, snags, and, fruiting trees and shrubs. Aspen, interspersed with northern hardwood, mixed pine, and forest openings can provide for the life requisites of white-tailed deer, coyote, wild turkey, ruffed grouse, northern flicker, and blue racer.

Openings provide habitat components not found in neighboring forested stands and support a variety of wildlife species. Openings will be maintained manually, mechanically, or through prescribed burning when beneficial. Some openings may be planted with trees based on ownership patterns, habitat condition, and related factors. Acreages converted from non-forested to forested management objectives will be recorded and opportunities to consolidate these acres into new openings in similar landscapes will be pursued in order to maintain the status quo of non-forested habitat. Management of degraded sites will include planting to an appropriate forested type, shrubs, grasses, or herbaceous cover.

Mineral Resource and Development Concerns and/or Restrictions

There is no known potential for the occurrence of economic deposits of metallic minerals in this part of the state. The closest known active sand/gravel pit is less than two miles northwest, and there is evidence of past aggregate mining in the vicinity. There is potential for development of additional aggregate resources within the compartment on the uplands, but oil & gas infrastructure and leasing activities would need to be avoided. The compartment is within the Antrim Shale natural gas play, and significant exploration and development have occurred in the compartment, with some producing wells still in the north end. There still may be some potential for additional gas beneath the compartment, but drilling of new Antrim wells is not economical at current gas prices, and the play is largely in decline. State-owned oil & gas rights within the compartment are currently under lease associated with existing production. The compartment is on the edge of the Silurian reef trend, and while there has been some sparse production of hydrocarbons from reef reservoirs in the area, there may be limited potential for future reef discoveries beneath the compartment. 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.

Vehicle Access:

Good road access throughout the compartment.

Survey Needs:

None needed for 2028 YOY.

Recreational Facilities and Opportunities:

There are no designated recreational trails within this compartment. (T.N. 1/28/16)

Fire Protection:

Fire Protection for this compartment is provided by MDNR, Rapid River Township Fire Department and Coldsprings Township Fire Department.

Additional Compartment Information:

The following reports from the Inventory are attached:

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

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

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

Cover Type & Treatments Map

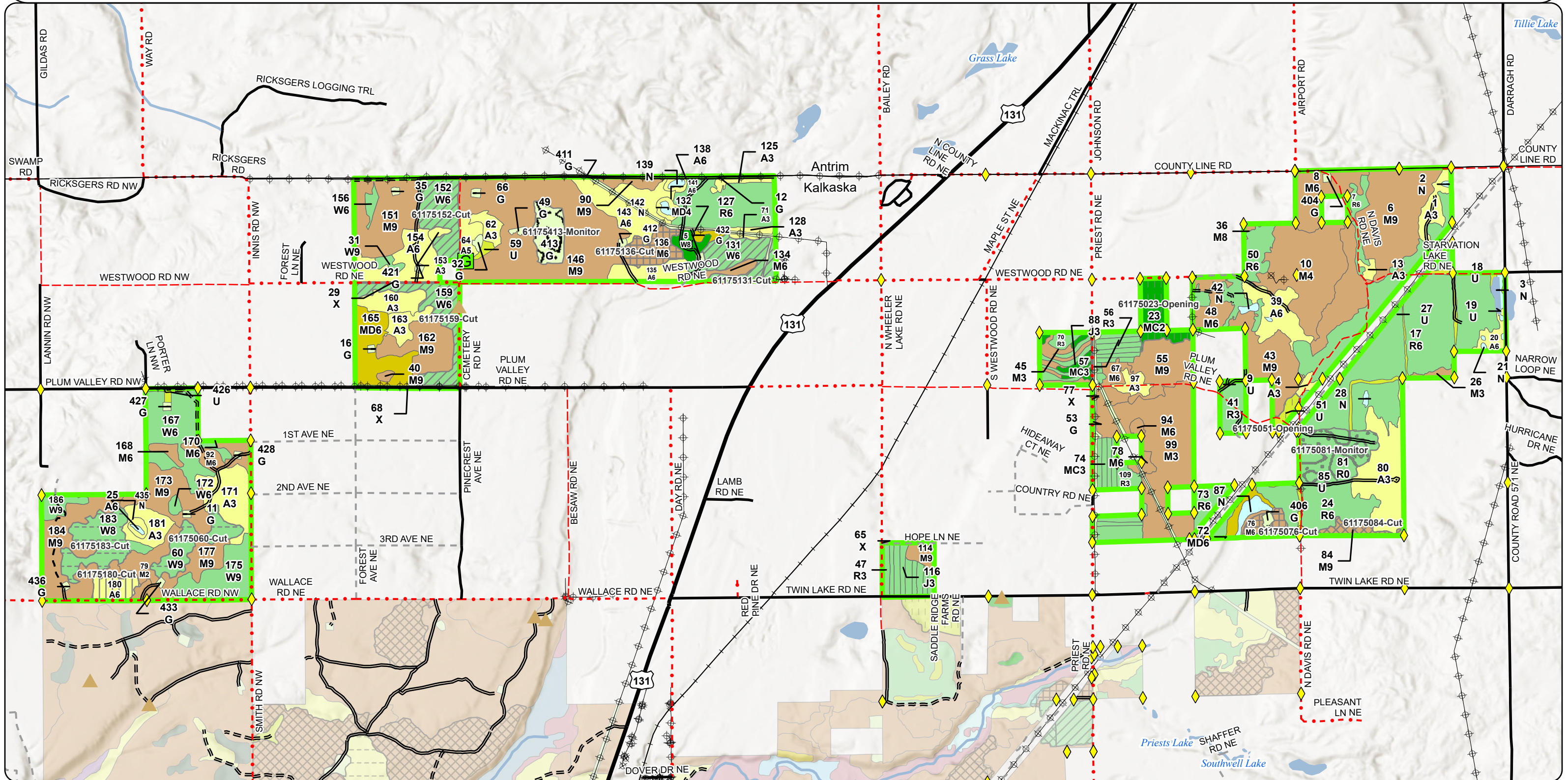
Compartment: 61175
T28N R06W Sec. 05,06,07,08
County: Kalkaska
Unit: Traverse City
Mgmt. Area: Kalkaska Sandy Moraines
YOE: 2028
Acres: 2,595 GIS Calculated
Examiner: Steve Crigier
Date Exported: 06/29/2026
Map Phase: Web Post



0 0.5 1
Miles

- Survey Grade Corners
- Berm
- Gate
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Federal / State Highway
- Federal / State / County - Paved Road
- Federal / State - Dirt / Gravel Road
- County - Gravel Road
- County - Dirt Road (Seasonal)
- Private - Dirt / Gravel Road
- Railroads
- Streams
- Lakes and Rivers
- Electric
- Compartment Boundary
- Selection

- Seed Tree
- Shelterwood
- Thinning
- Overstory Removal
- Openings Mgmt.
- Monitoring - Regeneration
- Monitoring
- 411 - Northern Hardwood
- 413 - Aspen
- 419 - Mixed Upland Deciduous
- 421 - Planted Pines
- 422 - Natural Pines
- 122 - Road/Parking Lot
- 310 - Herbaceous Openland
- 330 - Low Density Trees
- 623 - Emergent Wetland



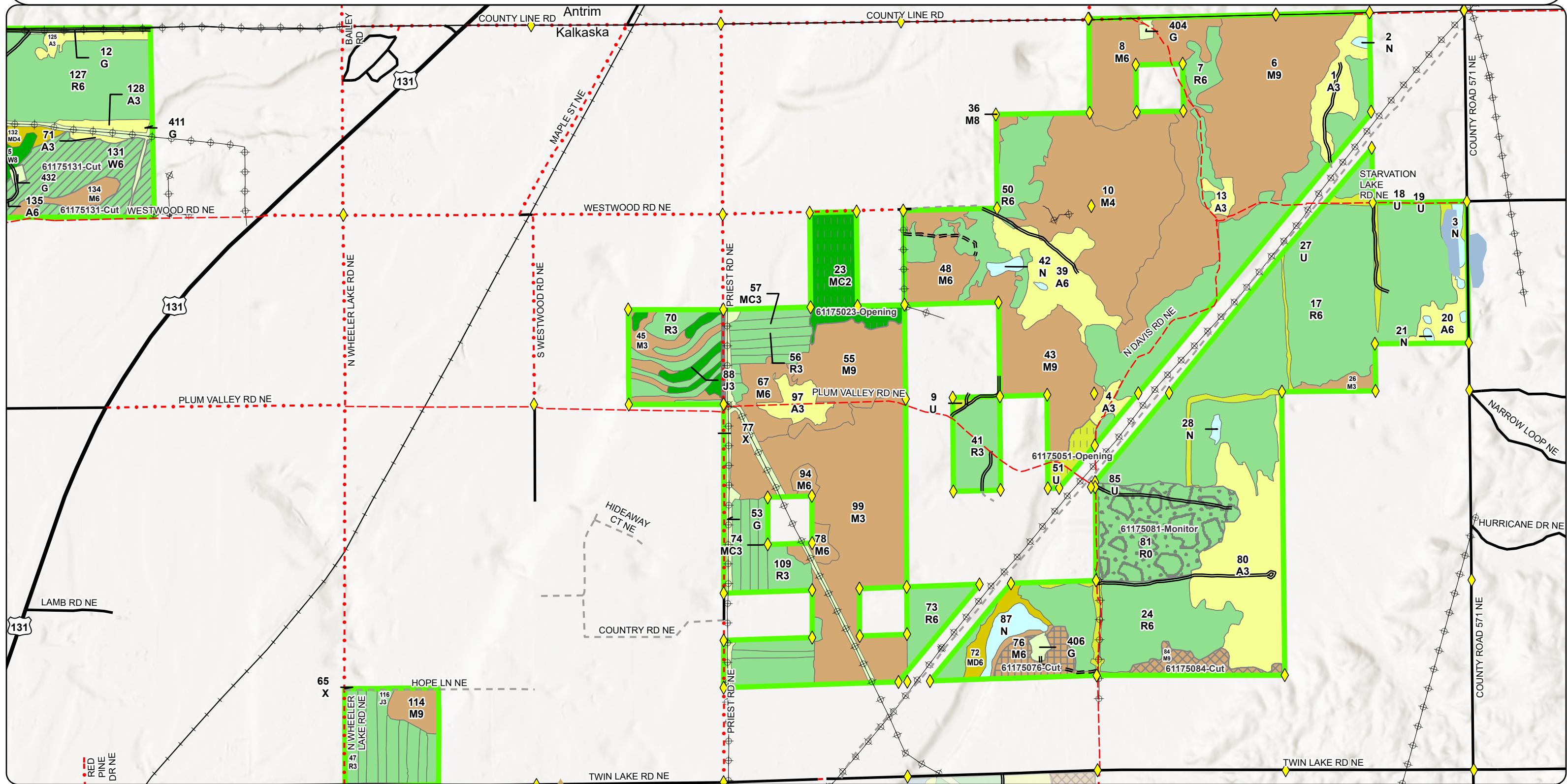


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- | | | | |
|---|---------------------------------------|--|-------------------------------|
|  | Survey Grade Corners |  | County - Gravel Road |
|  | Berm |  | County - Dirt Road (Seasonal) |
|  | DNR - Secondary Forest Road |  | Private - Dirt / Gravel Road |
|  | DNR - Forest Access Route |  | Railroads |
|  | Federal / State Highway |  | Lakes and Rivers |
|  | Federal / State / County - Paved Road |  | Electric |
| | |  | Compartment Boundary |

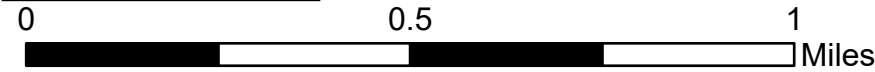
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Stand Boundary Map

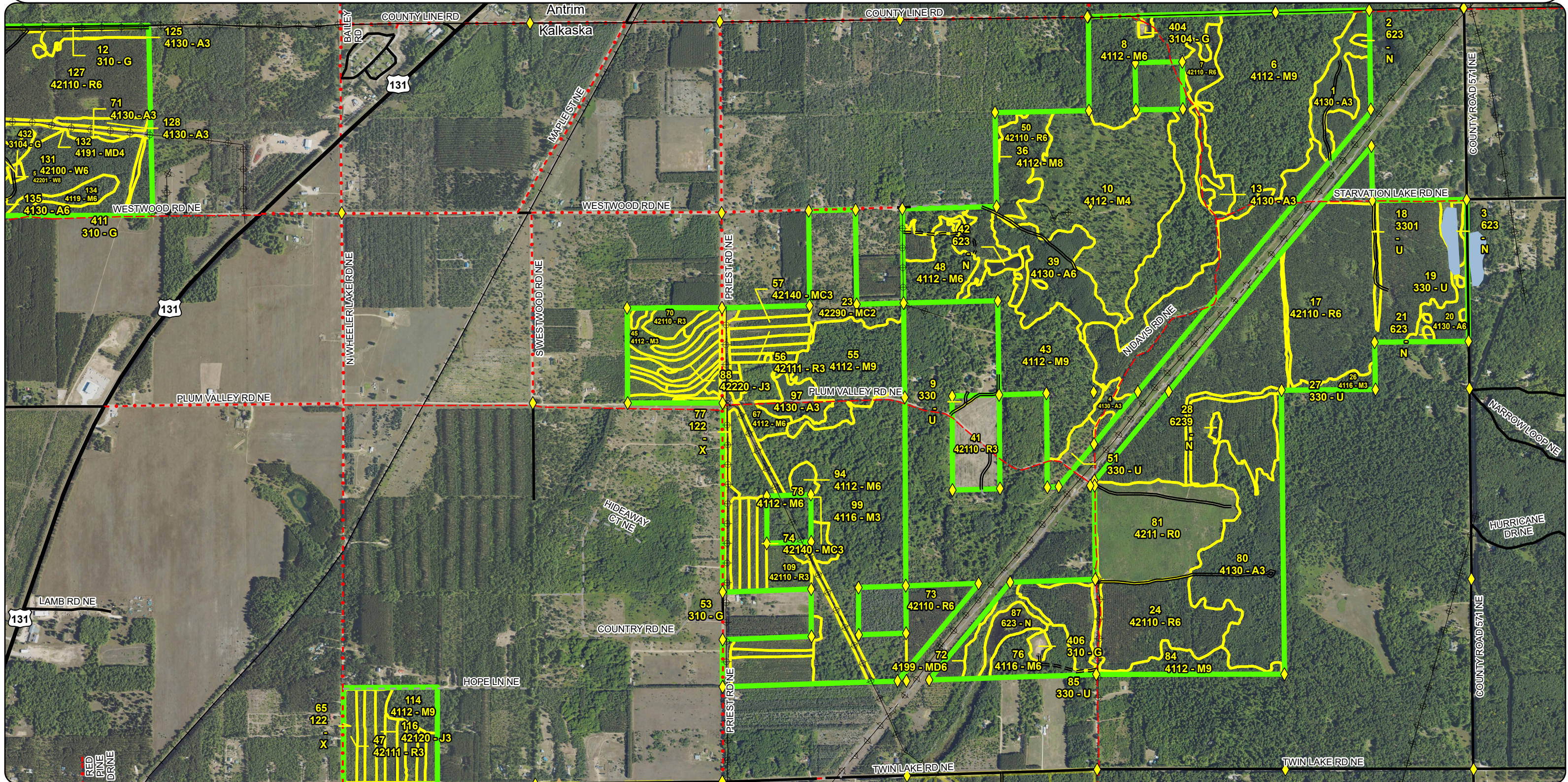
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- County - Dirt Road (Seasonal)
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- Railroads
- Lakes and Rivers
- Electric
- Compartment Boundary
- Compartment Stand Yellow Outline (PD)
- 411 - Northern Hardwood
- 411 - Northern Hardwood

- | | |
|------------------------------|------------------------------|
| 413 - Aspen | 413 - Aspen |
| 419 - Mixed Upland Deciduous | 419 - Mixed Upland Deciduous |
| 421 - Planted Pines | 421 - Planted Pines |
| 422 - Natural Pines | 422 - Natural Pines |
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| 310 - Herbaceous Openland | 310 - Herbaceous Openland |
| 330 - Low Density Trees | 330 - Low Density Trees |
| 623 - Emergent Wetland | 623 - Emergent Wetland |



Special Conservation Areas & Site Conditions Map

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0 0.5 1 Miles

Survey Grade Corners

Berm

DNR - Secondary Forest Road

DNR - Forest Access Route

Federal / State Highway

Federal / State / County - Paved Road

County - Gravel Road

County - Dirt Road (Seasonal)

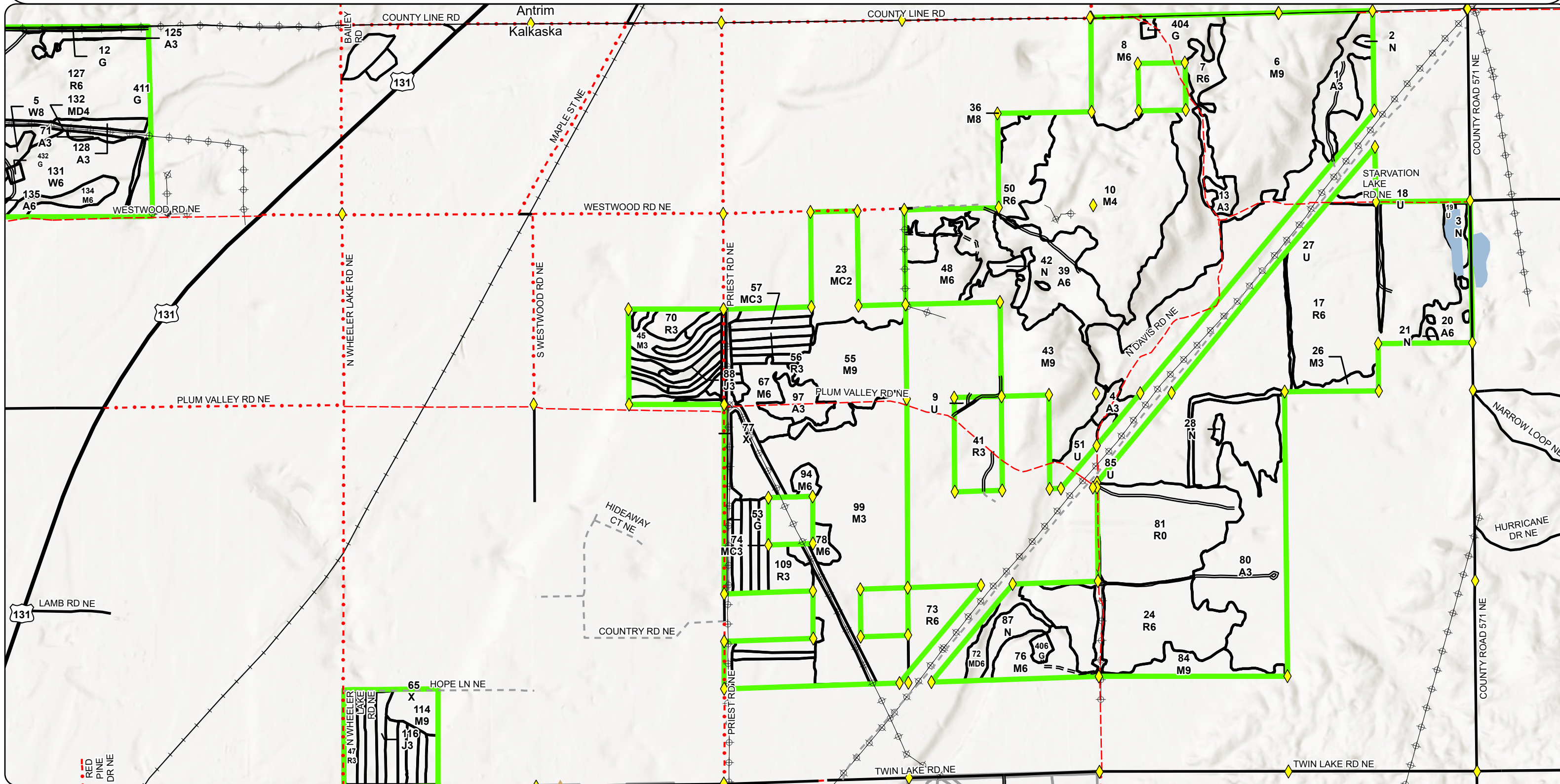
Private - Dirt / Gravel Road

Railroads

Lakes and Rivers

Electric

Compartment Boundary



Cover Type & Treatments Map

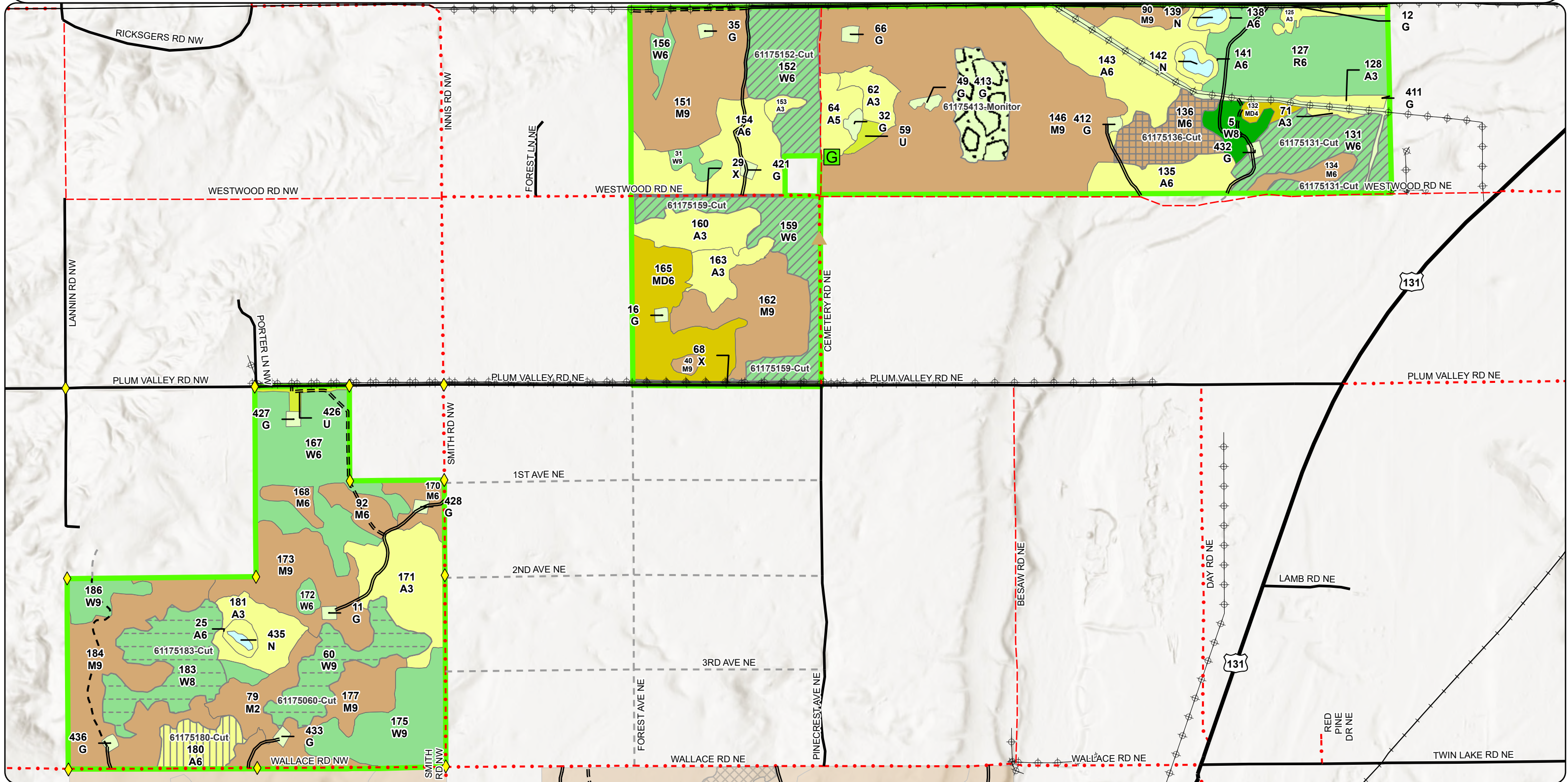
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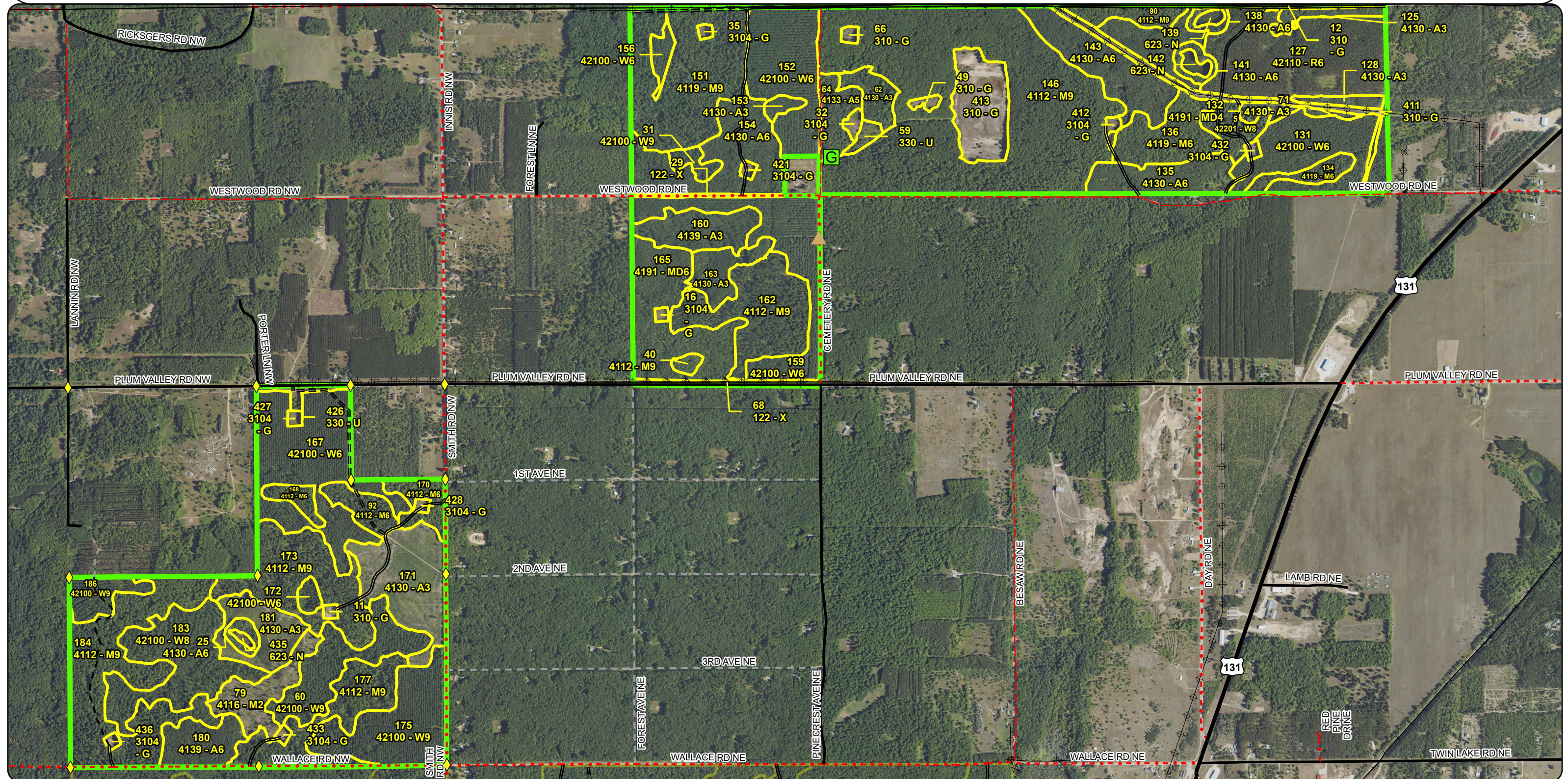
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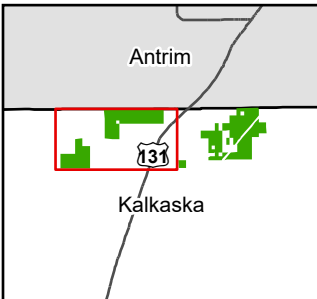
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- | | |
|-------------------------|-------------------------|
| 411 - Northern Hardwood | 411 - Northern Hardwood |
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- | | |
|-------------------------|-------------------------|
| 411 - Northern Hardwood | 411 - Northern Hardwood |
| 413 - Aspen | 413 - Aspen |



**Special Conservation Areas
& Site Conditions Map**

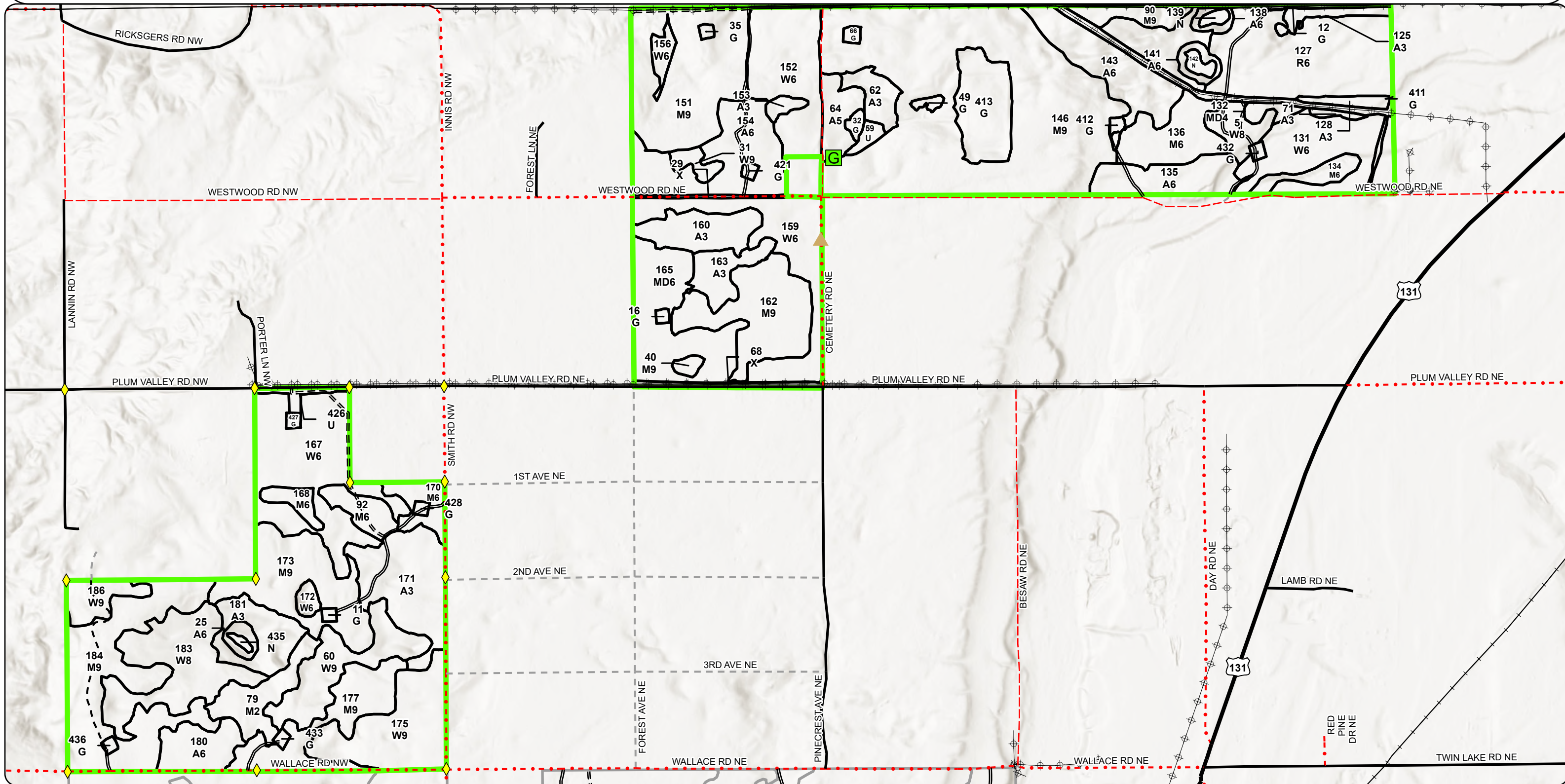
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Report 1 – Total Acres by Cover Type and Age Class



Age Class

	Non-Forest	0-9	10-19	20-29	30-39	40-49	50-59	60-69	70-79	80-89	90-99	100-109	110-119	120-129	130-139	140-149	150+	Uneven-Aged	Total
Aspen	0	55	21	118	106	39	19	0	6	0	0	0	0	0	0	0	0	21	384
Herbaceous Openland	72	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	72
Jack Pine	0	0	0	20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	20
Low-Density Trees	32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	32
Marsh	21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	21
Mixed Upland Deciduous	0	0	0	0	41	0	0	0	0	0	0	0	0	0	0	0	0	12	53
Natural Mixed Pines	0	0	28	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	28
Northern Hardwood	0	18	0	13	4	0	0	0	0	640	0	0	0	0	0	0	0	365	1039
Planted Mixed Pines	0	0	0	20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	20
Red Pine	53	19	80	0	0	0	0	443	0	0	0	0	0	0	0	0	0	0	594
Urban	12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12
White Pine	0	0	0	0	0	0	0	311	0	10	0	0	0	0	0	0	0	0	320
Total	190	92	129	171	151	39	19	754	6	650	0	0	0	0	0	0	0	398	2595



Report 2 – Treatment Summary

Traverse City Mgt. Unit
Year of Entry: 2028

Acres of Harvest

Compartment 175
Total Compartment Acres: 2,595

Commercial Harvest - 311
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	Overshoot Removal	Salvage	Other	Total Acres
Aspen	0	0	0	0	16	0	0	0	0	16
Northern Hardwood	0	11	0	35	0	0	0	0	0	45
White Pine	0	0	0	0	0	119	68	0	0	187
Total	0	11	0	35	16	119	68	0	0	248

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	248	0	0	0	0	0	76	0	0	358
Next Step	0	0	0	0	0	0	61	0	0	61
Total	248	0	0	0	0	0	137	0	0	420



Standard

Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
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Proposed Treatments:

23	61175023-Opening	27.6	42290 - Natural Mixed Pine	2	15	Immatu re	Openings Mgmt.	Openings Mgmt.	3205 - Mixed Upland Shrub	Previous Inventory	No
<u>Prescription</u> Selectively hand fell woody encroachment to maintain upland brush/grassland community. Leave scattered mast producing trees and shrubs <u>Specs:</u> and/or conifers for wildlife food and cover. Could plant site appropriate native shrubs and/or mast producing trees fo <u>Next Step</u> <u>Treatments:</u> <u>Acceptable</u> <u>Regen:</u> <u>Other</u> <u>Comment:</u> <u>Site Condition:</u> <u>Proposed Start Date:</u> 10/01/2027											
51	61175051-Opening	6.7	330 - Low-Density Trees	99			Openings Mgmt.	Openings Mgmt.	3205 - Mixed Upland Shrub	Previous Inventory	No
<u>Prescription</u> Selectively hand fell woody encroachment to maintain upland brush/grassland community. Leave scattered mast producing trees and shrubs <u>Specs:</u> and/or conifers for wildlife food and cover. Could plant site appropriate native shrubs and/or mast producing trees fo <u>Next Step</u> <u>Treatments:</u> <u>Acceptable</u> <u>Regen:</u> <u>Other</u> <u>Comment:</u> <u>Site Condition:</u> <u>Proposed Start Date:</u> 10/01/2027											
60	61175060-Cut	28.7	42100 - Planted White Pine	9	66	81-110	Harvest	Overstory Removal	411 - Northern Hardwood	Planting Record	No
<u>Prescription</u> Remove the white pine overstory. Leave most of the maple as a seed source. Also, mark 4-6 white pine per acre. Apply area retention. <u>Specs:</u> Minimize damage to the maple understory during the harvesting operation. <u>Next Step</u> <u>Treatments:</u> <u>Acceptable</u> <u>Regen:</u> <u>Other</u> <u>Comment:</u> <u>Site Condition:</u> <u>Proposed Start Date:</u> 10/01/2027											



Standard

Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
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76 61175076-Cut	11.9	4116 - Mixed N. Hardwood - Aspen	6	82	81-110	Harvest	Seed Tree	411 - Northern Hardwood	Cutting Record	No
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Prescription Seed tree harvest stand leaving about 10sqft/ac of residual, favoring sugar maple. Buffer stand 87 appropriately.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable maple, aspen, cherry, basswood, balsam fir, birch.

Regen:

Other

Comment:

Site Condition:

Proposed Start Date: 10/01/2027

84 61175084-Cut	10.8	4112 - Maple, Beech, Cherry Association	9	89	81-110	Harvest	Selection	411 - Northern Hardwood	Cutting Record	No
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Prescription Thin stand and reduce the residual basal area to 70-80sqft/ac. Create some canopy gaps in the areas that have sugar maple regeneration in the understory.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable maple, aspen, cherry, basswood, birch.

Regen:

Other

Comment:

Site Condition:

Proposed Start Date: 10/01/2027

131 61175131-Cut	40.0	42100 - Planted White Pine	6	60	111-140	Harvest	Thinning	411 - Northern Hardwood	Cutting Record	No
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Prescription Thin the over story with a cut 2, leave 2 row pattern. Minimize damage to the understory.

Specs:

Next Step

Treatments:

Acceptable

Regen:

Other Long term MO of hardwoods. Pipeline infrastructure bisects the stand.

Comment:

Site Condition:

Proposed Start Date: 10/01/2027

136 61175136-Cut	22.6	4119 - Mixed Northern Hardwoods	6	81	81-110	Harvest	Seed Tree	411 - Northern Hardwood	Cutting Record	No
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Prescription Seed tree harvest, leaving about 10 sqft/ac of residual basal area. Target leaving larger diameter sugar maple, if possible. Also focus on leaving some of the large diameter white pine as well.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable maple, aspen, cherry, basswood, white pine.

Regen:

Other

Comment:

Site Condition:

Proposed Start Date: 10/01/2027

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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
152 61175152-Cut	39.2	42100 - Planted White Pine	6	66	141-170	Harvest	Thinning	411 - Northern Hardwood	Cutting Record	No
<u>Prescription</u> Thin stand with a cut 2 rows, leave 2 rows pattern. Long term MO of hardwoods. Minimize damage to the advanced regen in the understory <u>Specs:</u> during harvesting operations. <u>Next Step</u> <u>Treatments:</u> <u>Acceptable</u> <u>Regen:</u> <u>Other</u> <u>Comment:</u> <u>Site Condition:</u> <u>Proposed Start Date:</u> 10/01/2027										
159 61175159-Cut	39.9	42100 - Planted White Pine	6	66	141-170	Harvest	Thinning	411 - Northern Hardwood	Cutting Record	No
<u>Prescription</u> Thin stand with a cut 2 rows, leave 2 rows pattern. Long term MO of hardwoods. Minimize damage to the advanced regen in the understory <u>Specs:</u> during harvesting operations. <u>Next Step</u> <u>Treatments:</u> <u>Acceptable</u> <u>Regen:</u> <u>Other</u> <u>Comment:</u> <u>Site Condition:</u> <u>Proposed Start Date:</u> 10/01/2027										
180 61175180-Cut	15.8	4139 - Aspen, Mixed Deciduous	6	52	111-140	Harvest	Shelterwood	411 - Northern Hardwood	Cutting Record	No
<u>Prescription</u> Shelter wood harvest stand. Leave 20- 30 Sq ft/ac of sugar maple. Long term MO of hardwoods. Leave area retention along the St 79 <u>Specs:</u> boarder. <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u> <u>Acceptable</u> maple, aspen, basswood, cherry, white pine, birch. <u>Regen:</u> <u>Other</u> <u>Comment:</u> <u>Site Condition:</u> <u>Proposed Start Date:</u> 10/01/2027										
183 61175183-Cut	39.4	42100 - Planted White Pine	8	63	81-110	Harvest	Overstory Removal	411 - Northern Hardwood	Planting Record	No
<u>Prescription</u> In general remove the white pine over story but mark to leave 4-6 trees/ac of white pine. Also apply area retention (already mapped out). <u>Specs:</u> Leave any mature maple for a seed source. Minimize damage to the hardwood understory during the harvest operation <u>Next Step</u> <u>Treatments:</u> <u>Acceptable</u> maple, aspen, cherry, basswood, birch white pine. <u>Regen:</u> <u>Other</u> <u>Comment:</u> <u>Site Condition:</u> <u>Proposed Start Date:</u> 10/01/2027										



Standard

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

413	61175413-Monitor	24.5	310 - Herbaceous Openland	99			Monitoring	Monitoring	3102 - Grass	Previous Inventory	No
<u>Prescription</u> Remove trees from the landfill cap and address the pond that is forming in the NE corner. More road and trail closures to prevent ORV damage. DEQ has been working with us on these issues. <u>Specs:</u> <u>Next Step</u> <u>Treatments:</u> <u>Acceptable</u> <u>Regen:</u> <u>Other</u> Old Kalkaska-Antrim Landfill closed in about 1984-85. <u>Comment:</u> Illegal ORV use has damaged the cap and some of the vents on the landfill site. A pond on top of the cap has formed in the NE corner. Also trees are growing on the landfill cap that need to be removed. <u>Site Condition:</u> <u>Proposed Start Date:</u> 10/01/2027											

Approved Treatments:

81	61175081-Monitor	51.3	4211 - Planted Red Pine	0	3	Immature	Monitoring	Monitoring - Regeneration	4211 - Planted Red Pine		No
<u>Prescription</u> <u>Specs:</u> <u>Next Step</u> <u>Treatments:</u> <u>Acceptable</u> red pine <u>Regen:</u> <u>Other</u> Percent to Treat = 100% <u>Comment:</u> <u>Site Condition:</u> <u>Proposed Start Date:</u> 10/01/2027											

Total Treatment 358.4
Acreage Proposed:

Report 4 – Site Conditions



Availability for Management

Total Acres Acres Available Acres With Condition Acres Not Available

Dominant Site Conditions

2G 3J 5E

383	374	0	9	Aspen	3	6	
72	72	0	0	Herbaceous Openland			
20	20	0	0	Jack Pine			
32	32	0	0	Low-Density Trees			
21	21	0	0	Marsh			
52	45	0	8	Mixed Upland Deciduous		8	
28	28	0	0	Natural Mixed Pines			
1027	1025	0	2	Northern Hardwood		2	
20	20	0	0	Planted Mixed Pines			
594	594	0	0	Red Pine			
12	12	0	0	Urban			
281	278	0	3	White Pine			3
2,542	2,521		21	Total Forested Acres	3	15	3
	99%		1%	Relative Percent			

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

Site No.	Dominant Site Cond Availability	Dominant Site Condition	Acres	Other Site Condition	Other Site Condition	Other Site Condition	Other Site Condition
1	Unavailable	3J: Water quality/BMPs (stream, river, or lake)	10	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
2	Unavailable	5E: Long-Term Retention	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments: LTR for st183							

Report 4 – Site Conditions



4	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
138	Unavailable	3J: Water quality/BMPs (stream, river, or lake)	2	Unspecified	2F: Too steep	Unspecified	Unspecified
Comments:							
141	Unavailable	3J: Water quality/BMPs (stream, river, or lake)	4	Unspecified	2F: Too steep	Unspecified	Unspecified
Comments:							

Mgt. Unit

Compartment: #Type!

Year of Entry:



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

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

SCA Name	SCA Category	Detail Type	Recommendation	Acres
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Comments





Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																		
8	4112 - Maple, Beech, Cherry Association	Poletimber Well	35.9	82	81-110	N/A	2026- A healthy mix of desirable regen in the understory. Canopy is still relatively open.2016- Good red maple regen and even some spots of sugar maple regen. BAs 50, 80, 70. Overstory is OK quality trees, stand is on some rolling/steep terrain.2011- OPIC - FMD: 8/15/11 Stand was thinned to 80sqft/ac 'County Line Hwds'.																																																		
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9	330 - Low-Density Trees	None	1.1			No																																																			
10	4112 - Maple, Beech, Cherry Association	Poletimber Poor	89.5	82	1-50	N/A	2026- Stand has regenerated well mostly to black cherry. Over story has held up well to the wind and exposure with minimal loss. 2019 - Stand was cut in the fall of 2019, 'Westwood Blues' 61-151-18. It was a marked to leave unit with a residual BA of around 20-30sqft/ac. Site was scarified well with the tracked equipment. 2016 - Stand is of poor to medium quality timber. Eastern part is a bit nicer wood. Several small U0/frost pockets in stand and rolling terrain. Western fringe of the stand has a good amount of aspen and it is starting to decline. BBD is present in the beech. Lots of ironwood already present in the understory. BAs 80, 100, 130, 150, 90, 140.																																																		
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11	310 - Herbaceous Openland	None	0.9			Active well pad managed by Riverside																																																			
12	310 - Herbaceous Openland	None	3.2			No	OPIC - FMD: 2/10/2006 Grass in pipeline or power line R/W. (Grieve)																																																		
13	4130 - Aspen	Sapling Well	3.6	26	Immature	N/A	2016- Trees are about 20-25' tall, well stocked. 2006- OPIC - FMD: 1/25/2006 TS# 161-98-1																																																		
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16	3104 - Degraded	None	0.8			Active Riverside well pad.																																																			



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments			
17	42110 - Planted Red Pine	Poletimber Well	255.7	64	111-140	N/A	2026- Hardwoods developing in the understory. Armillaria pockets continue to grow, mixed hardwoods are filling in the canopy gaps.BAS-100, 130, 100, 130, 120. 2020- Stand was thinned for a second time in 2020. 'Porcupine'2016- Stand has some scattered wind throw damage. Canopies are already closed up, especially in the northern portions of the stand. Some scattered pockets of mortality and trees with thin tops? Some of the southern blocks had a cut 2 leave 4 pattern. Some A5 pockets in the southern portion of the stand. Confirmed Armillaria on pockets on 1/22/16. 2010-OPIC - FMD: 1/11/2011 Stand row thinned 'Steel Line Pine', and 'North Steel line Pine' 2010(Crigier).			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Red Pine		90	Pole/Log	9	64	Beech		Low	10 - 20 feet	10 - 20 feet
Red Maple		2	Pole	7		Hazelnut (Spp.)		Low	5 - 10 feet	5 - 10 feet
Black Cherry		2	Pole	7		Red Maple		Medium	10 - 20 feet	10 - 20 feet
White Pine		6	Log/Pole	12	64					
18	3301 - Low Density Deciduous Trees	None	4.5			No	OPIC - FMD: 1/23/2006 Just changing from G to U. Scattered cherry brush. (Grieve) there is an M3 pockets along starvation lake road.			
19	330 - Low-Density Trees	None	3.3			No				
20	4130 - Aspen	Poletimber Well	9.8	37	81-110	N/A	2026- Stand transiting to pole size trees. Hardwoods developing in the understory. 2016- Trees are about 30' tall, and well stocked. Parts of stand is starting to convert to pole timber2006- OPIC - FMD: 1/25/2006 TS # 042-88-1			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size	
Quaking Aspen		80	Pole/Sapling	5	37	Witch Hazel	Low	5 - 10 feet	5 - 10 feet	
Red Maple		20	Sapling/Pole	3	37	Red Maple	Medium	Variable	Variable	
21	623 - Emergent Wetland	None	1.4			No	OPIC - FMD: 1/23/2006 Ponds some years, others not. This year and the last few years has been a marsh with some water in them at sometimes. (Grieve) 1999 WATER & PONDS (Lemmien-Hagan)			
23	42290 - Natural Mixed Pine	Sapling Medium	27.6	15	Immature	N/A	2026- stand is an old field filling in. Mix of pine. a few different age classes. A few pockets of Scotch pine. 2016- Note that as of 9/27/16 the exchange for the north 20 acres of this stand isn't official but is shown on the compartment map as what it would look like once the transaction is complete.			
Canopy Species		% Cover	Size Class	DBH	Age					
White Pine		5	Sapling	2						
Quaking Aspen		5	Sapling/Pole	3						
Black Cherry		15	Pole/Sapling	6						
Red Pine		20	Sapling	4	15					
Scotch Pine		15	Sapling	3	15					
Jack Pine		40	Sapling	3	15					
24	42110 - Planted Red Pine	Poletimber Well	56.1	64	111-140	N/A	2026- BAs: 140, 130, 1302020- Stand was thinned for a second time in 2020. 'Porcupine'2016- -Stand has some scattered wind throw damage. Canopies are already closed up, especially in the northern portions of the stand. Some scattered pockets of mortality and trees with thin tops? The Southern most block (Davis Rd Red) had a cut 2 leave 3 pattern. 2011-OPIC - FMD: 1/11/2011 Stand row thinned 'Davis Rd Rd' in 2009			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size	
Red Pine		96	Pole/Log	9	64	Beech	Low	5 - 10 feet	5 - 10 feet	
Red Maple		2	Pole	7		Red Maple	Low	5 - 10 feet	5 - 10 feet	
Black Cherry		2	Pole	7		Hazelnut (Spp.)	Trace	5 - 10 feet	5 - 10 feet	



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments			
25	4130 - Aspen	Poletimber Well	3.3	50	81-110	N/A	2016-Stand is on some hilly ground with a few potholes. Medium to poor quality trees. Hardwoods in the understory. Long term retention around the vernal pond.			
Canopy Species		% Cover	Size Class	DBH	Age					
Quaking Aspen		90	Pole	8	50					
Red Maple		10	Pole	8						
26	4116 - Mixed N. Hardwood - Aspen	Sapling Well	4.4	37	1-50	N/A	2026- parts of the stand is transitioning to pole sized timber.2006-OPIC - FMD: 1/23/2006 TS # 042-88-1 M2 Looks OK (Grieve)			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Red Maple		40	Sapling/Pole	3	37	White Pine		Trace	10 - 20 feet	10 - 20 feet
Quaking Aspen		30	Pole/Sapling	5	37	Witch Hazel		Medium	5 - 10 feet	5 - 10 feet
Black Cherry		30	Pole/Sapling	5	37					
27	330 - Low-Density Trees	None	5.8			No				
28	6239 - Mixed Emergent Wetland	None	1.0			No				
29	122 - Road/Parking Lot	None	1.9			No			Road	
31	42100 - Planted White Pine	Sawtimber Well	4.4	68	111-140	N/A	2026- Open grown plantation white pine, with a decent mix of aspen and red maple. Hardwoods filling in the understory.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
White Pine		85	Log/Pole	13	68	Beech		Low	10 - 20 feet	10 - 20 feet
Quaking Aspen		10	Pole	8		Ironwood		Low	>20 feet	>20 feet
Red Maple		5	Pole	8		Red Maple		High	>20 feet	>20 feet
32	3104 - Degraded	None	1.7						Active Well pad managed by Riverside.	
35	3104 - Degraded	None	0.9						Active well pad managed by Riverside	
36	4112 - Maple, Beech, Cherry Association	Sawtimber Medium	2.1	89	51-80	N/A	Clumpy, open grown trees.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Sugar Maple		30	Log/Pole	10		Beech		Low	5 - 10 feet	5 - 10 feet
Red Maple		70	Log/Pole	10	89					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																			
39	4130 - Aspen	Poletimber Well	30.5	37	81-110	N/A	2026- stocking is more variable on the steeper slopes. Maple and cherry starting to develop in the understory. 2016- Starting to develop into pole size trees. Mostly QA. Rolling terrain, trees ~ 30' tall. 2006- OPIC - FMD: 1/25/2006 TS # 042-88-1																																																			
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40	4112 - Maple, Beech, Cherry Association	Sawtimber Well	2.1	85	81-110	N/A	-Some scattered hemlock and white pine. Medium to poor quality trees. Red maple is clumpy. Some areas have more log trees but mostly pole timber.																																																			
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41	42110 - Planted Red Pine	Sapling Well	18.8	5	Immature	N/A	2024 - Stand has passed Year 3 Regeneration Check on 10/1/2024. Stand has an estimated 858 TPA and is currently 100% Free to grow at this time.2022 - Stand was Planted to Red Pine 5/9/20222022 - 10/25/2022 - First Year Regen Treatment Completed. Stand has 879 Trees Per Acre and is 98% free to grow at this time. 2021 - Stand was site prep sprayed2020 - Stand was trenched2019 - Stand was a U0 that was filling in. It was clearcut in the fall of 2019 'Westwood Blues' to prep it for planting red pine.																																																			
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42	623 - Emergent Wetland	None	2.2			No	OPIC - FMD: 1/23/2006 Ponds some years, others not. This year and the last few years has been a marsh with some water in them at sometimes. (Grieve) 1999 WATER & PONDS (Lemmien-Hagan)																																																			
43	4112 - Maple, Beech, Cherry Association	Sawtimber Well	48.3	82	81-110	N/A	2026- stand is regenerating moderately well. Quite a bit of beech and Ironwood but also a good mix of cherry, red maple and aspen.2019- Stand was thinned in summer of 2019, 'Westwood Blues' 61-151-18. All the beech and aspen were cut out. Residual BA is around 70sqft/ac but it variable. Regen concern of beech and ironwood. 2016- Medium quality timber on rolling terrain. East edge, bottom of the hill, there is mostly clumpy red maple. More Sugar maple and beech on the ridge. Aspen on the western edge with more open grown timber and pockets of ironwood (I3). Some BBD present. BAs 100, 130, 130, 100, 100.																																																			
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																								
45	4112 - Maple, Beech, Cherry Association	Sapling Well	13.0	27	Immature	N/A	2016- This stand(s) look like they are a failed part of the plantation. Mostly red maple and cherry with some scattered red pine underneath.																																																								
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47	42111 - Planted Red Pine, Mixed Deciduous	Sapling Well	18.8	13	Immature	N/A	2026- Red pine is doing well. Still has some deciduous competition.																																																								
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48	4112 - Maple, Beech, Cherry Association	Poletimber Well	21.0	82	51-80	N/A	2026- Stand is regenerating well. Some canopy gaps after the harvest. A good amount of maple established in the understory.2019- Stand was harvested in the summer of 2019 'Westwood Blues' 61-151-18. All the beech, aspen and Ironwood was removed as well as trees marked with orange paint. BA is a bit variable. Regen concerns of beech and ironwood coming back thick. 2016-Very clumpy red maple, poor to medium quality. Some M3 pockets of sugar maple in the understory! Decent amount of red maple logs in areas. Some decent pockets of timber. BAs 100, 150, 120.																																																								
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49	310 - Herbaceous Openland	None	1.4			No																																																									
50	42110 - Planted Red Pine	Poletimber Well	36.7	60	111-140	N/A	2026- Hardwoods establishing in the understory.BA: 140, 100, 120 2019- Stand was thinned for a 2nd time in the summer of 2019, 'Westwood Blues' 61-151-18. 2016 - Canopies are still pretty tight, BAs 190, 170, 160, 140, 190, 160, 170. Good amount of live crown and trees are 4-5 sticks tall. Stand is on some hilly terrain. 2010 - OPIC - FMD: 12/14/2010 Stand was row thinned 'Too Much Blue' (Crigier).																																																								
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51	330 - Low-Density Trees	None	6.7			No																																																									
53	310 - Herbaceous Openland	None	16.6			No	OPIC - FMD: 3/15/2006 Pipeline and/or power lines. (Grieve)																																																								



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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																											
55	4112 - Maple, Beech, Cherry Association	Sawtimber Well	38.1	82	81-110	N/A	2026- Heavy flush of ironwood in the understory, post harvestBAs: 70, 70, 90, 100. 2019- Stand was thinned in Summer of 2019, 'Westwood Blues' 61-151-18. Residual BA is around 80sqft/ac. Concerned about ironwood and beech regen.2016- Decent quality hardwood stand. Some areas just north of Plum Valley Rd seem a bit immature and lower stocked but the majority of the stand is well stocked. BAs 130, 70, 140, 140, 110.																																											
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56	42111 - Planted Red Pine, Mixed Deciduous	Sapling Well	11.2	13	Immature	N/A	2026- stand is doing well. Some hardwood competition. 2016- OPIC - FMD: 3/17/2011 stand clearcut, planted in 2013 and herbicided in 2015. Trees are about 2' tall. Not as much cherry competition as compared to the other nearby sites.																																											
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57	42140 - Planted Mixed Pine	Sapling Well	9.4	27	Immature	N/A	2026- stand will be a mix of planted red pine and natural jack pine.2016- JP seems to be winning the battle. JP ~15' tall, RP ~ 8'. 2006- OPIC - FMD: 1/20/2006 R3 planted in jack pine M1 understory. J3 J2 in a lot of places. R3 should take over in the next ten years or so.																																											
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59	330 - Low-Density Trees	None	2.7			No																																												
60	42100 - Planted White Pine	Sawtimber Well	28.7	66	81-110	N/A	2016- Some scattered Hardwoods in the overstory. Understory is filling in with mixed hardwoods, some sugar maple :) Lower BA in the western portion of the stand where the plantation get more irregular.2011- OPIC - FMD: 8/15/11 Stand was thinned took 2 and left 3 'Plum Smith Pine & Hwd'.																																											
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62	4130 - Aspen	Sapling Well	9.0	26	1-50	N/A	2016- Stand was cut in 2000 with the hardwoods to the north and removed the aspen. Stand is mostly an A3 with scattered white pine and hardwood pole timber. Aspen is doing well and is about 20' tall.																																											
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Stand	Level 4 Cover Type	Size	Density	Acres	Stand Age	BA Range	Managed Site	General Comments	
64	4133 - Aspen, Mixed Pine	Poletimber	Medium	11.6	49	51-80	N/A	2026- White pine is well established in the understory. 2016- Looks like a U0 filling in with aspen. Poor quality aspen.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen		55	Pole	7	49	Red Maple	Medium	Variable	Variable
White Pine		20	Log/Pole/Sap	10		White Pine	Medium	Variable	Variable
Black Cherry		10	Pole	7	49				
Red Maple		15	Pole/Sapling	6	49				
65	122 - Road/Parking Lot		None		2.0		No		roads
66	310 - Herbaceous Openland		None		1.2		No		Well pad, not in use, plugged in 1991.
67	4112 - Maple, Beech, Cherry Association	Poletimber	Well	12.3	82	51-80	N/A	2026 - open grown maple. Canopy gaps are filling in with maple. Clumpy red maple. Variable stocking with several openings. .	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple		55	Pole/Log	9	82	Beech	Low	5 - 10 feet	5 - 10 feet
Sugar Maple		35	Pole/Log	9	82	Red Maple	Medium	Variable	Variable
Black Cherry		5	Pole	8	82	Sugar Maple	Low	10 - 20 feet	10 - 20 feet
Bigtooth Aspen		5	Pole	8					
68	122 - Road/Parking Lot		None		4.4		No		
70	42110 - Planted Red Pine		Sapling	Well	18.7	13	Immature	N/A	2026- Red pine seems to be overtaking the deciduous competition. Some jack pine establishing in the stand. Tress are 10- 15' tall. 2016- Stand planted in 2013 and herbicide in 2015. decent amount of cherry2011- OPIC - FMD: 3/17/2011 stand clearcut (Wheeler-Priest Pine),
Canopy Species		% Cover	Size Class	DBH	Age				
Red Pine		80	Sapling	2	13				
Black Cherry		15	Sapling	1	13				
Jack Pine		5	Sapling	2	13				
71	4130 - Aspen		Sapling	Well	1.5	16	Immature	N/A	2016- Regen 8-10' tall. Stand was cut with the white pine sale to the south. Stand is in a bit of a valley.
Canopy Species		% Cover	Size Class	DBH	Age				
Quaking Aspen		75	Sapling	2	16				
White Pine		5	Pole	6					
Black Cherry		10	Sapling	2	16				
Red Maple		10	Sapling	2	16				
72	4199 - Other Mixed Upland Deciduous	Poletimber	Well	7.6	78	51-80	N/A	Stand is a mix of maple and aspen and is working as a buffer for the vernal pond. Heavier to aspen in the northern part of the stand.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen		33	Pole	8		Red Maple	Low	Variable	Variable
Red Maple		34	Pole	8	78				
Black Cherry		23	Pole	8					
White Pine		10	Pole	8					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																							
73	42110 - Planted Red Pine	Poletimber Well	18.5	64	111-140	N/A	2020- Stand was thinned for a second time in 2020.2016- - East part has more hardwood in the understory. Decent plantation. 2009- Sale # 45-08 Davis Rd Red completed 8-19-2009 dkj																																							
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74	42140 - Planted Mixed Pine	Sapling Well	10.3	25	Immature	N/A	2026- Stand is going to a mix of planted red pine and natural jack pine.																																							
<table><tr><th>Canopy Species</th><th>% Cover</th><th>Size Class</th><th>DBH</th><th>Age</th></tr><tr><td>Red Pine</td><td>50</td><td>Sapling</td><td>3</td><td>25</td></tr><tr><td>Jack Pine</td><td>50</td><td>Sapling/Pole</td><td>4</td><td>25</td></tr></table>		Canopy Species	% Cover	Size Class	DBH	Age	Red Pine	50	Sapling	3	25	Jack Pine	50	Sapling/Pole	4	25					2016- Planted red pine with a lot of jack pine volunteers. Red pine is about 8' tall and jack pine is ~12'.																									
Canopy Species	% Cover	Size Class	DBH	Age																																										
Red Pine	50	Sapling	3	25																																										
Jack Pine	50	Sapling/Pole	4	25																																										
76	4116 - Mixed N. Hardwood - Aspen	Poletimber Well	14.2	82	81-110	N/A	2026- Stand is mostly comprised of clumpy red maple stem. East 1/2 is well stocked with BA's around 120. West of the well pad has lower stocking with more of a mix of aspen.																																							
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77	122 - Road/Parking Lot	None	3.8			No	OPIC - FMD: 1998 ROADS																																							
78	4112 - Maple, Beech, Cherry Association	Poletimber Well	4.8	80	81-110	N/A	Clumpy red maple, aspen along the edges. Variable stocking.																																							
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79	4116 - Mixed N. Hardwood - Aspen	Sapling Medium	17.7	6	Immature	N/A	2026- Stand is regenerating with desireable species. stocking is moderate and patchy. 2021- Stand was seed tree harvested in 2021. Some scattered maple and pine were marked to leave.2016- Clumps red maple of medium-poor quality. Uniform stocking, and has some scattered log timber.																																							
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80	4130 - Aspen	Sapling Well	61.2	27	Immature	N/A	2016- Aspen is about 25-30' tall. Northern part of the stand seems to have more of the pole/log sized hardwood, M5/7 over A32006- OPIC - FMD: 1/26/2006 This cut was done leaving the sugar maple. Sometimes it is pure A3, other times it may even be as much as an M5. But mostly A3. In addition, MSU planted some experimental white pine in some parts of this stand. Mostly to the south side. (Grieve) 1999 TS# 151-98-1 MSU research area. (Grieve).																																																					
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81	4211 - Planted Red Pine	Unspecifed	52.8	3	Immature		2025 - Year 1 Regeneration Survey was completed 9/26/2025. There is currently 737 Trees per Acre and stand is 100% Free to Grow at this time.5/8/2025 - Stand was planted to 806 Trees Per Acre of Red Pine.2024 - Stand was site prep spray contract helicopter 8/7/20242023 - Stand was Trenched with West LP Skidder by Unit Staff 9/26/20232023 - Stand was Roller Chopped West LP Roller Chopper 09/2021 2021 - Stand was final harvested in 2021.																																																					
84	4112 - Maple, Beech, Cherry Association	Sawtimber Well	11.3	89	81-110	N/A	2026- Understory composition looks promising and is well stocked.																																																					
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85	330 - Low-Density Trees	None	4.8			No	Road and powerline ROW																																																					
87	623 - Emergent Wetland	None	7.3			No	2026- Beaver Activity OPIC - FMD: 1/23/2006 Ponds some years, others not. This year and the last few years has been a marsh with some water in them at sometimes.																																																					
88	42220 - Natural Jack Pine	Sapling Well	7.8	27	Immature	N/A	2026- Failed red pine plantation, natural jack pine dominates the overstory2016- Jack pine is overtop the planted red pine. Some areas look as though the plantation has failed and are M3 pockets.2006- OPIC - FMD: 1/20/2006 R3 planted in jack pine M1 understory. J3 J2 in a lot of places. R3 should take over in the next ten years or so. 1999 REPLANT TO RED PINE TS# 152-98-1 (Lemmien)																																																					
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90	4112 - Maple, Beech, Cherry Association	Sawtimber Well	9.2	89	81-110	N/A	2026- Some moderate terrain in the northern part of the stand. Stocking is a bit higher west of the landfill. Average BA 105. 2016 - Stand was thinned in 2011-2012 except for 20 acres in the northwest corner. Scattered white pine logs, mostly in the southern part of the stand. Quite a bit of ironwood filling in the canopy but there are pockets of maple, cherry and aspen regen. East end of stand has a higher component of sugar maple. NE part of stand is more of a pole size stand. Some scattered hemlock pockets. BAs 80, 90, 90, 90, 130.																																																																										
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92	4112 - Maple, Beech, Cherry Association	Poletimber Well	9.4	80	51-80	N/A	2026- Thick beech and ironwood establishing in the understory.2020- Stand was thinned in 2020. 2016- Clumps red maple of medium-poor quality. Uniform stocking, and has some scattered log timber. Already a lot of ironwood in the understory.																																																																										
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94	4112 - Maple, Beech, Cherry Association	Poletimber Well	3.1	82	81-110	N/A	2026- Open grown hardwoods, relatively low stocking. Maple is established in the understory. 2016- Clumpy timber. Some sugar maple on the edges of the stand in the understory. Some pocket of big tooth.																																																																										
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97	4130 - Aspen	Sapling Well	8.7	27	Immature	N/A	2026- Hardwoods starting to develop in the understory.2016- Trees are about 15' tall and is well stocked2006 - OPIC - FMD: TS#161-98-1 (Grieve).																																																																										
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99	4116 - Mixed N. Hardwood - Aspen	Sapling Well	114.2	35	1-50	N/A	2016- Stand is a real mix of aspen and hardwood species and also of age and size classes. There is scattered aspen and hardwood pole timber but also lots of M3 and A3 pockets. Red maple that is becoming establish looks to be decent quality and in the eastern 1/2 is pretty well stocked.																																																																										
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments			
109	42110 - Planted Red Pine		Sapling Well	31.2	13	Immature	N/A	2026- stand is doing alright. Hardwoods have taken over a few pockets. Some scattered pole sized cherry trees. 2016- Stand was planted in 2013 and sprayed in the fall of 2015. Trees are about 2' tall.		
	Canopy Species	% Cover	Size Class	DBH	Age					
	Black Cherry	5	Pole/Sapling	7						
	Red Maple	10	Sapling	1	13					
	Red Pine	85	Sapling	2	13					
114	4112 - Maple, Beech, Cherry Association		Sawtimber Well	8.4	89	81-110	N/A	12/16/2010 Stand thinned with Wheeler-Davis Hwds, used road (shared with private) on north side of stand and DNR had to make some repairs to the road after the harvest to make it suitable for the private owners to use (Crigier). Good quality timber, some individual wind throw, heavy ironwood understory.		
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
	Sugar Maple	50	Log/Pole	10	89	Ironwood	High		5 - 10 feet	5 - 10 feet
	Red Maple	50	Log/Pole	10		Black Cherry	Medium		5 - 10 feet	5 - 10 feet
						Red Maple	Low		5 - 10 feet	5 - 10 feet
116	42120 - Planted Jack Pine		Sapling Well	11.8	27	Immature	N/A	2026- Jack pine appears to be dominate in the overstory.2016- Lots of JP~15' tall. RP is only ~8' tall and looks like it is being out competed. 2006- OPIC - FMD: 1/20/2006 R3 planted in jack pine M1 understory. J3 J2 in a lot of places. R3 should take over in the next ten years or so.		
	Canopy Species	% Cover	Size Class	DBH	Age					
	Red Pine	40	Sapling	3	27					
	Jack Pine	60	Sapling/Pole	4	27					
125	4130 - Aspen		Sapling Well	5.6	28	Immature	N/A	2016- Stand was cut in 98, trees are about 20' tall. Decent TPA.		
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
	Bigtooth Aspen	20	Sapling/Pole	4	28	Witch Hazel	Low		5 - 10 feet	5 - 10 feet
	Quaking Aspen	60	Sapling/Pole	4	28					
	Red Maple	10	Sapling/Pole	3	28					
	Black Cherry	10	Sapling/Pole	4	28					
127	42110 - Planted Red Pine		Poletimber Well	63.0	62	111-140	N/A	2026- Some hardwoods developing in the understory.2020- Second thinning completed in 2020 'Ant-Kal Pine'. Residual BA around 120-140. There was one pocket of armillaria that was about and acre that was clearcut. 2016- Stand was thinned in 2009. Decent plantation, starting to push the log sized trees (5-6 stick trees). Canopy has tightened up. NW 1/4 of the stand has a heavy hardwood understory, otherwise fairly clean understory. Some scattered cherry. BAs 170, 140, 200.		
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
	Red Pine	100	Pole/Log	9	62	White Pine	Trace		< 5 feet	< 5 feet
						Beech	Low		5 - 10 feet	5 - 10 feet
						Black Cherry	Medium		5 - 10 feet	5 - 10 feet
					Ironwood	Trace	5 - 10 feet	5 - 10 feet		
128	4130 - Aspen		Sapling Well	3.8	28	Immature	N/A	2016- Stand was cut in 99. Trees are about 20' tall and is well stocked.		
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
	Quaking Aspen	60	Sapling/Pole	4	28	Witch Hazel	Low		5 - 10 feet	5 - 10 feet
	Red Maple	10	Sapling/Pole	3	28	Black Cherry	Low		5 - 10 feet	5 - 10 feet
	Black Cherry	10	Sapling/Pole	3	28					
	Bigtooth Aspen	20	Sapling/Pole	4	28					



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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
131	42100 - Planted White Pine	Poletimber Well	40.0	60	111-140	N/A	2026- Fully developed hardwood understory. 2016- Poor quality white pine, understory is filling in with hardwoods and aspen. South part of the stand has a decent ridge running through it.2012- OPIC - FMD: 8/15/11 Stand 3rd row thinned 'One Ridge Pine'.
Canopy Species % Cover Size Class DBH Age		Sub-Canopy Species Density Avg. Height Size					
White Pine 90 Pole/Log 9 60		Quaking Aspen Low 10 - 20 feet 10 - 20 feet					
Red Maple 5 Pole/Log 9		Black Cherry Low 10 - 20 feet 10 - 20 feet					
Black Cherry 5 Pole/Log 9		Beech Trace 10 - 20 feet 10 - 20 feet					
		Sugar Maple Trace 10 - 20 feet 10 - 20 feet					
		Red Maple High 10 - 20 feet 10 - 20 feet					
132	4191 - Mixed Upland Deciduous with Conifer	Poletimber Poor	3.5	45	1-50	N/A	Stand is an opening that is filling in. A5 pockets and scattered poor quality hardwoods. Also, some scattered white pine.
Canopy Species % Cover Size Class DBH Age		Sub-Canopy Species Density Avg. Height Size					
Quaking Aspen 35 Pole 8 45		Red Maple Medium Variable Variable					
White Pine 20 Log/Pole/Sap 10		White Pine Low Variable Variable					
Black Cherry 10 Pole/Sapling 6							
Red Maple 20 Pole 8							
Basswood 5 Log/Pole 10							
Sugar Maple 10 Pole 8							
134	4119 - Mixed Northern Hardwoods	Poletimber Well	7.1	82	81-110	N/A	2026- Some scattered large diameter maple. OPIC - FMD: 2/3/2006 Some of this stand was planted to white pine but was crowded out. (Grieve)Medium to poor quality hardwoods on a ridge.
Canopy Species % Cover Size Class DBH Age		Sub-Canopy Species Density Avg. Height Size					
Quaking Aspen 10 Log/Pole 10 82		Ironwood Medium 10 - 20 feet 10 - 20 feet					
Red Maple 35 Pole/Log 9 82							
White Pine 10 Log/Pole 10							
Sugar Maple 35 Pole/Log 9 82							
Black Cherry 5 Pole/Log 9 82							
Basswood 5 Log/Pole 10 82							
135	4130 - Aspen	Poletimber Well	21.2	38	81-110	N/A	2026- stand is in process of converting to pole size timber. Well stocked
Canopy Species % Cover Size Class DBH Age		Sub-Canopy Species Density Avg. Height Size					
Bigtooth Aspen 20 Pole/Sapling 5 38		Red Maple Low Variable Variable					
Quaking Aspen 60 Pole/Sapling 5 38		Ironwood Low 10 - 20 feet 10 - 20 feet					
Red Maple 10 Sapling/Pole 3 38		Witch Hazel Low 5 - 10 feet 5 - 10 feet					
Black Cherry 10 Pole/Sapling 5 38							
136	4119 - Mixed Northern Hardwoods	Poletimber Well	22.6	81	81-110	N/A	2026- BAs: 120, 80, 110Some scattered large maple throughout the stand.2016- Poor to medium quality hardwoods. Some scattered aspen which is starting to deteriorate. Areas of low stocking with pole/sap ironwood in the gaps. Clumpy red maple and some scattered white pine.
Canopy Species % Cover Size Class DBH Age		Sub-Canopy Species Density Avg. Height Size					
Sugar Maple 40 Pole/Log 9 81		Sugar Maple Trace >20 feet >20 feet					
Red Maple 36 Log/Pole 10 81		Beech Low 5 - 10 feet 5 - 10 feet					
Basswood 10 Log/Pole 12 81		Ironwood High Variable Variable					
Quaking Aspen 10 Pole/Log 9							
White Pine 4 Log 13 81							



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																																												
138	4130 - Aspen	Poletimber Well	2.4	74	81-110	N/A	Tree buffer around ponds. No cut.																																																																												
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142	623 - Emergent Wetland	None	2.3			No																																																																													
143	4130 - Aspen	Poletimber Well	44.2	38	81-110	N/A	2026- Healthy stand2016- Stand is starting to convert to more of a pole stand. Trees are about 30' tall and is well stocked. Rolling terrain. More of a mix of hardwood species along the stand edges.																																																																												
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146	4112 - Maple, Beech, Cherry Association	Sawtimber Well	171.9	89	81-110	N/A	2026- Some moderate terrain in the northern part of the stand. Stocking is a bit higher west of the landfill. Average BA 105. 2016 - Stand was thinned in 2011-2012 except for 20 acres in the northwest corner. Scattered white pine logs, mostly in the southern part of the stand. Quite a bit of ironwood filling in the canopy but there are pockets of maple, cherry and aspen regen. East end of stand has a higher component of sugar maple. NE part of stand is more of a pole size stand. Some scattered hemlock pockets. BAs 80, 90, 90, 90, 130.																																																																												
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																											
159	42100 - Planted White Pine	Poletimber Well	40.3	66	141-170	N/A	2026- White pme over story is sheltering along the hardwood understory. 2016- East 1/2 has a clean understory. Timber overall is of poor quality white pine. Some areas have a decent amount hardwoods in the understory. 5/29/12 Stand thinned, cut 2 leave 4, row spacing is tight in spots. Cemetary Pine 61-018-09-01(Crigier)																																																											
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160	4139 - Aspen, Mixed Deciduous	Sapling Well	18.5	15	Immature	N/A	2016- Scattered white pine pole timber with heavy aspen and hardwood in the understory. Regen is about 10' tall and is well stocked. 5/29/12 Stand had hardwood and aspen removed, all the WP was left. Stand should sprout well. Cemetary Pine 61-018-09-01(Crigier)																																																											
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162	4112 - Maple, Beech, Cherry Association	Sawtimber Well	40.1	85	51-80	N/A	2026- Areas of hardwood regen, but also a lot of ironwood in the composition. BAs: 60, 60, 80, 802019- Stand was thinned in 2019 'Hemlock & Hwds' 61-153-18-01. Crew did a good job protecting the pockets of hemlock. Residual BA is around 80. Continue to monitor regen as I think it might flush to beech and ironwood. Possible look to final harvest in 10-20yrs. 2016- -Some scattered hemlock and white pine. Medium to poor quality trees. Red maple is clumpy. Some areas have more log trees but mostly pole timber.																																																											
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163	4130 - Aspen	Sapling Well	12.3	27	Immature	N/A	2016- Trees are about 20' tall, lots of TPA, well stocked.1999 TS# 169-98-1 (Grieve)																																																											
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165	4191 - Mixed Upland Deciduous with Conifer	Poletimber Well	41.3	36	51-80	N/A	2026- Aspen is now pole size. Areas of moderate stocking and open grown cherry.2016- Trees are about 20' tall and lots of TPA. Some pockets of hemlock. West and northwest part of stand seems to have more aspen. OPIC - FMD: 2/7/2006 This stand was cut 18 years ago more or less. TS# 35-88-1 Some parts of this stand are more to hardwoods than aspen . (Grieve)																																																											
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167	42100 - Planted White Pine	Poletimber Well	57.9	66	171-200	N/A	2026- Hardwoods developing in the understory. BAs: 180, 170, 180, 160. 2016- Some scattered hardwoods in the overstory. Lower BAs in the southern part of the stand where the plantation is a bit more irregular. 2011- OPIC - FMD: 8/15/11 Stand was thinned cut 2 leave 3 'Plum Smith Pine & Hwds'.																																																
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168	4112 - Maple, Beech, Cherry Association	Poletimber Well	5.3	80	81-110	N/A	2026- Some cherry and maple developing in the understory. 2016- Lots of ironwood and beech in the understory. 2011- OPIC - FMD: 8/15/11 Stand was thinned to 80sqft/ac 'plum Smith Pine & Hwds'.																																																
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170	4112 - Maple, Beech, Cherry Association	Poletimber Well	9.6	80	81-110	N/A	2016- Stocking is a bit variable (50, 60, 80). Residual timber is of pretty good form. Understory looks like a lot of beech and ironwood. Some scattered hemlock. OPIC - FMD: 8/15/11 Stand was thinned to 80sqft/ac 'Plum Smith Pine & Hwds'.																																																
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171	4130 - Aspen	Sapling Well	36.9	6	Immature	N/A	2026- stand is regenerating well. Decent component of mixed hardwoods in areas. 2021- stand was final harvested in 2021. a few scattered maple where left.2016- Some pockets of wind throw, likely from the 8/2/15 storm. heavy damage seems to be in the central part of the east line. Decent maple in understory. Smaller diameters in the northern part of the stand.																																																
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172	42100 - Planted White Pine	Poletimber Well	2.9	66	81-110	N/A	2016 -This stand is in a pot hole. Understory filling in with hardwoods. OPIC - FMD: 8/15/11 Stand was thinned take 2 and leave 3 'Plum Smith Pine & Hwds'.																																																
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173	4112 - Maple, Beech, Cherry Association	Sawtimber Well	41.0	85	81-110	N/A	2026- Thick flush of Ironwood and beech after harvest. 2020- Stand was thinned in 2020. 2016- Clumps red maple of medium-poor quality. Uniform stocking, and has some scattered log timber. Already a lot of ironwood in the understory.																																										
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175	42100 - Planted White Pine	Sawtimber Well	39.9	66	141-170	N/A	2026- Hardwood understory continues to develop. 2016- Understory is filling in with mixed hardwoods, some sugar maple :) Lower BA in the western portion of the stand where the plantation get more irregular.2011- OPIC - FMD: 8/15/11 Stand was thinned took 2 and left 3 'Plum Smith Pine & Hwd'. Some scattered Hardwoods in the overstory.																																										
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177	4112 - Maple, Beech, Cherry Association	Sawtimber Well	31.1	89	81-110	N/A	2026- Some maple and cherry establishing in the understory but predominantly ironwood and beech. 2020- Stand was thinned for a second time in 2020/2016- Looks like stand was thinned before ~ 15 years ago. Understory is full of ironwood and beech. Northeast part of the stand is more clumpy soft maple and it doesn't look like that has been thinned before. Overall decent quality timber. .																																										
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180	4139 - Aspen, Mixed Deciduous	Poletimber Well	15.8	52	111-140	N/A	2016- Some of the aspen is now 5-6 sticks tall. Mixed stand some spots it is more of an aspen stand other are more of a hardwood stand. Some scattered white pine log trees. Some sugar maple in the understory!OPIC - FMD: 2/7/2006 This looks like a very old clear cut. Look at in 20 years. Some very good crop trees. (Grieve)																																										
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181	4130 - Aspen	Sapling Well	18.0	6	Immature	N/A	2026- Stand has regenerated well.2021- stand was final harvested in 2021. 2016- -Stand is on some hilly ground with a few potholes. Medium to poor quality trees. Hardwoods in the understory. There is a patch of younger looking bigtooth at the north end.																																										
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MICHIGAN

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183	42100 - Planted White Pine	Sawtimber Medium	42.5	63	81-110	N/A	2026- Areas of nice maple regeneration 2016- Stand is filling in with hardwoods in the understory. Medium to poor quality pine, on some hilly terrain. Most of the plantation is down in a bowl. 2012- Stand was thinned with a cut 2 row and leave 4 rows pattern 'Wallace Mix' 61-077-09-01. Some of the rows had to be cut with the terrain, also all hardwood except for small cherry and elm (10/2/12sc).																																																																
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184	4112 - Maple, Beech, Cherry Association	Sawtimber Well	65.5	85	81-110	N/A	2026- BAs: 80, 100, 80, 90, 60. 2016- Good looking residual timber, but understory has a lot of beech and ironwood. 2015- Stand was salvaged in December of 15. Crew was working on a sale just to the south in C174 that did the clean up work. This left the residual timber patchy. Most of the damage was west of the 2 tract and also east of of the well pad. 2012- Stand was thinned with 'Wallace Mix' 61-077-09-01. All of the aspen was removed and some illegal 2 tracks were blocked along the north line (10/2/12sc). Stand received heavy wind damage on																																																																
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186	42100 - Planted White Pine	Sawtimber Well	10.7	66	81-110	N/A	2026- Maple is established in the understory. 2016- Stand is in some hilly terrain, understory is filling in with some hardwoods. Mostly 5 stick trees, medium-poor quality. 2012- Stand was thinned using a cut 2 rows and leave 4 pattern 'Wallace Mix' 61-077-09-01 (10/2/12sc).																																																																
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404	3104 - Degraded	None	1.2			No	Inactive well pad, plugged in 2015. Jordan Development.																																																																
406	310 - Herbaceous Openland	None	2.0			No	Abandon well site, plugged in 1984. Knapweed.																																																																
411	310 - Herbaceous Openland	None	11.3			No	OPIK - FMD: 2/10/2006 Grass in pipeline or power line R/W. (Grieve)																																																																
412	3104 - Degraded	None	1.0				Antrim gas well drilled in the early 2000's. Well pad is active and managed by Riverside.																																																																



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413	310 - Herbaceous Openland	None	24.5			Yes	2026- Illegal ATV trails have been closed. EGLE has a contractor that will repair the damaged vent pipes and service the monitoring wells and evaluate the pond in the NE corner. 2016- DEQ and DNR (kalkaska) Have worked to put a new gate and berm access off Cemetary Rd. I believe more work needs to be done on the the landfill itself and DEQ will head up that effort. 2006 -Old Kalkaska-Antrim Landfill closed in about 1984-85. Illegal ORV use has damaged the cap and some of the vents on the landfill site. A pond on top of the cap has formed in the NE corner. Also trees are growing on the landfill cap that need to be removed.
421	3104 - Degraded	None	1.0				Antrim gas well drilled in the early 2000's. Currently managed by Riverside and is active.
426	330 - Low-Density Trees	None	3.3			No	OPIC - FMD: 2/10/2006 Grass in pipeline along Plum Valley Road & and an old homestead area. (Grieve)
427	3104 - Degraded	None	1.0				OPIC - FMD: 2/10/2006 Antrim gas well drilled in the early 2000's. Managed by Riverside, well is currently shut in.
428	3104 - Degraded	None	0.9				OPIC - FMD: 2/10/2006 Antrim gas well drilled in the early 2000's. Managed by Riverside, still active.
432	3104 - Degraded	None	1.0				Antrim gas well drilled in the early 2000's. Well pad is active and managed by Riverside.
433	3104 - Degraded	None	0.9				OPIC - FMD: 2/10/2006 Antrim gas well drilled in the early 2000's. (Grieve) Well pad managed by Riverside, still active.
435	623 - Emergent Wetland	None	0.9			Yes	2016- Has had some ORV damage. We tried to block it off in 2012 with Wallace Mix.
436	3104 - Degraded	None	0.8				2020 - Well pad managed by Riverside, still active.OPIC - FMD: 2/10/2006 Antrim gas well drilled in the early 2000's. (Grieve)