

Compartment Review Presentation

Cadillac Forest Management Unit

Compartment 63113

Entry Year: 2027

Acreage: 1,863

County: Missaukee

Management Area: High Sand Plains

Stand Examiner: Andrew Krugh

Legal Description:

T23N, R7W, Sections 19,20,21,22,23,24

Identified Planning Goals:

This compartment is located within the Upper Muskegon Management Area. Some goals for this MA are as follows: Timber management for this 10-year period will focus on harvesting older jack pine and balancing age class distributions of oak, aspen and red pine. Wildlife habitat management objectives include perpetuating early-successional communities for species adapted to young forests for hunting and other wildlife-related recreation.

Soil and topography:

Rubicon and Roscommon sands with some Carbondale and Lupton Muck.

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

M-66 runs North/South on west end of compartment. Lake City is 2 miles to the south. Mixed ownerships containing large and small parcels of both state and private land. Every section within the compartment contains private ownership. The old Lake City Dump (closed) is located in sec 19. Two-track leading to dump passes thru state land is gated at Decker Road.

Unique Natural Features:

Potential for great blue heron rookery, wood turtle, osprey, eagle, goshawk, red-shouldered hawk, massasauga, box turtle, blundings turtle. Potential for ebony boghaunter and secretive locust in bogs. Potential for rare plants of cedar swamp: limestone oak fern, ram's head lady's-slipper and calypso orchid.

Archeological, Historical, and Cultural Features:

Woodland Indian Mounds in RMU but not in compartment.

Special Management Designations or Considerations:

Acceptable silvicultural guidelines will be followed.

Watershed and Fisheries Considerations:

The headwaters of the West Branch of the Muskegon River runs east through the east half of this compartment. It is a designated trout stream in this area, having self-sustaining populations of brook trout. Fisheries Division requests at least the minimum BMP buffer of 100 feet.

Wildlife Habitat Considerations:

This compartment encompasses swamp areas along the West Branch of the Muskegon River. These swamp complexes and associated uplands provide black bear habitat and deer wintering complex. Objectives are to continue to manage for high structural diversity within stands and age class diversity across the compartments. Featured species of special interest are deer, snowshoe hare and bear. Timber sale specifications to benefit wildlife (where applicable) will include brush pile creation along lowland edges, protection of mast-bearing wildlife shrubs and ironwood, protection of standing dead snags, and creation of drumming logs (1-2 per acre) and woody debris (tops or whole trees) in aspen cuts. (E. Victory 6/2015)

Mineral Resource and Development Concerns and/or Restrictions

Sections 19 - 24, T23N-R7W, Missaukee County

Surface sediments consist of ice-contact and glacial outwash sand and gravel and postglacial alluvium. The glacial drift thickness varies between 400 and 600 feet. Beneath the glacial drift are the Pennsylvanian Grand River and Saginaw Formations. The Saginaw is quarried for clay/shale in other parts of the State. Gravel pits are located in the area and potential is good. The compartment is located six miles southwest of Cannon Creek Field. The field has produced from the Stray Sandstone and Detroit River Sour Zone. There are no State leases currently in the Compartment

Vehicle Access:

A forest road access plan is detailed on the compartment map. Identified are state and county roads as well as forest roads and trails under the jurisdiction of the DNR.

Survey Needs:

Section 22 needs some survey work prior to treatment.

Recreational Facilities and Opportunities:

There are no designated trails within this compartment. Dispersed camping and hunting do occur within this compartment. (T.M.N. 12/16/14).

Fire Protection:

Fire access in the east side of the compartment is limited due to the head waters. Conifer types on the west side of unit would support a crown fire in extreme fire weather. Dispersed camping and recreationalists could be a cause of a wildfire.

Additional Compartment Information:








The following reports from the Inventory are attached:

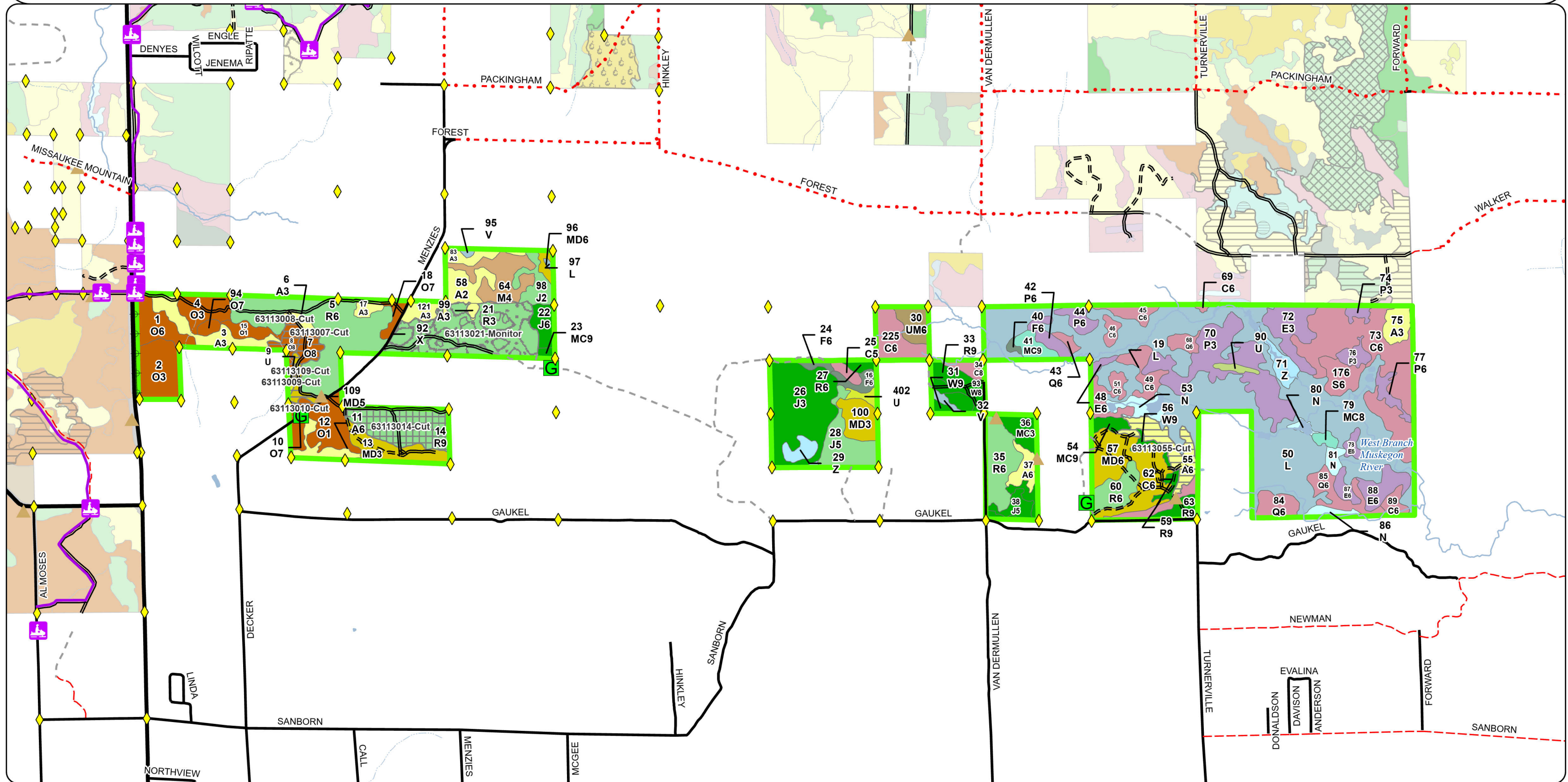
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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**



-  Survey Grade Corners
-  Berms
-  Gate
-  Designated Snowmobile Trails
-  DNR - Secondary Forest Road
-  DNR - Forest Access Route
-  Federal / State Highway



Cover Type & Treatments Map

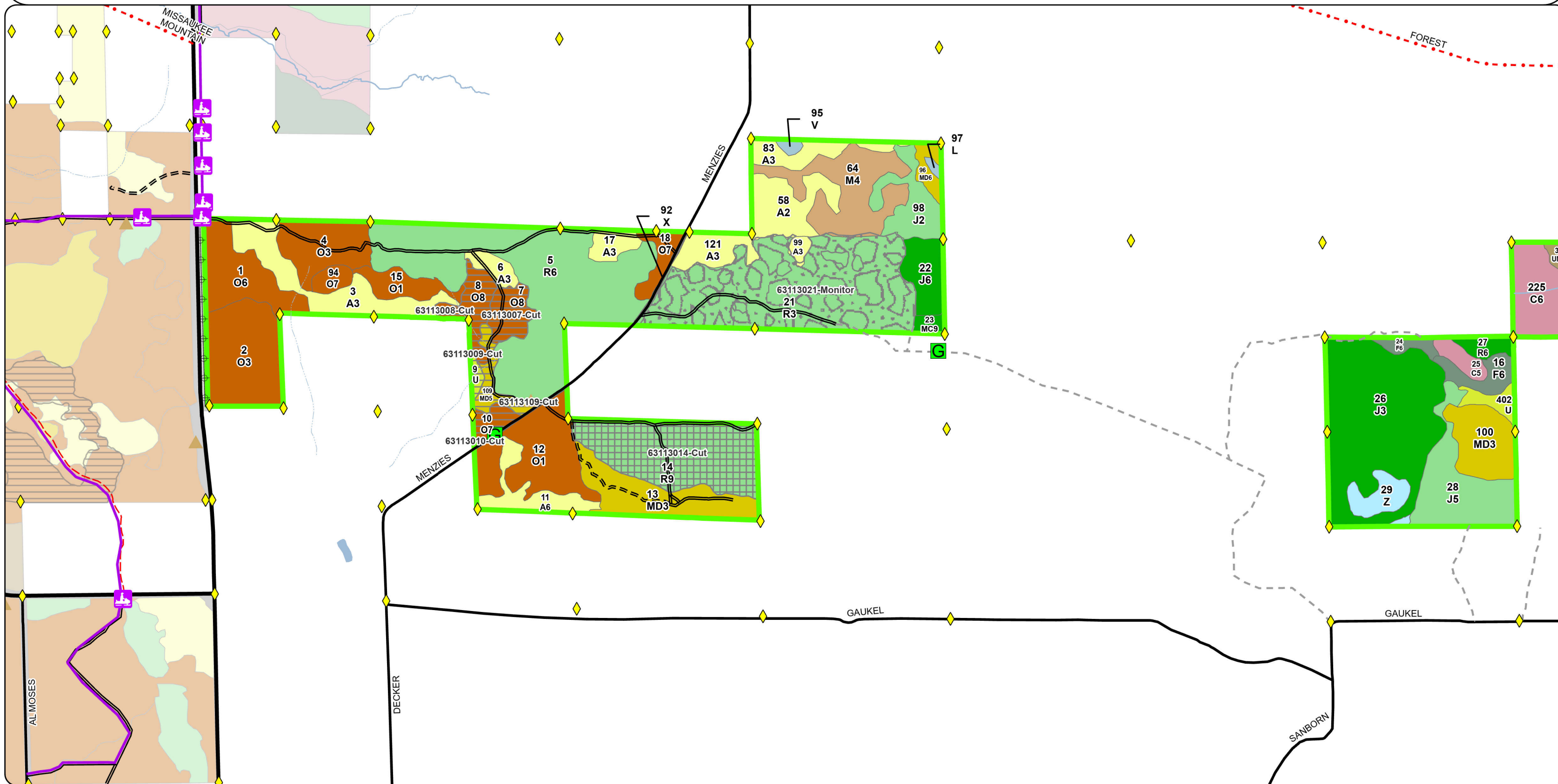
Compartment: 63113
T23N, R07W, Sec. 19-24
County: Missaukee
Unit: Cadillac
Mgmt. Area: High Sand Plains
YOE: 2027
Acres: 1,863 GIS Calculated
Examiner: Andrew Krugh
Date Exported: 7/14/2025
Map Phase: Web Post



0 0.5 1 Miles

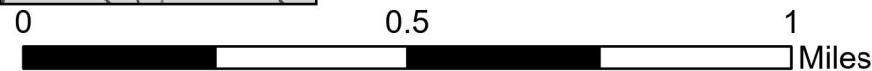
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- Federal / State / County - Paved Road
- County - Gravel Road
- County - Dirt Road (Seasonal)
- Private - Dirt / Gravel Road
- Intermittent Stream
- Perennial River
- Lakes and Rivers
- Counties
- Powerline
- Compartment Boundary

- Clearcut
- Seed Tree
- Monitoring - Regeneration
- 411 - Northern Hardwood
- 412 - Oak Types
- 413 - Aspen
- 419 - Mixed Upland Deciduous
- 421 - Planted Pines
- 422 - Natural Pines
- 423 - Other Upland Conifers
- 430 - Upland Mixed Forest
- 500 - Water
- 612 - Lowland Coniferous Forest
- 122 - Road/Parking Lot
- 330 - Low Density Trees
- 622 - Lowland Shrub



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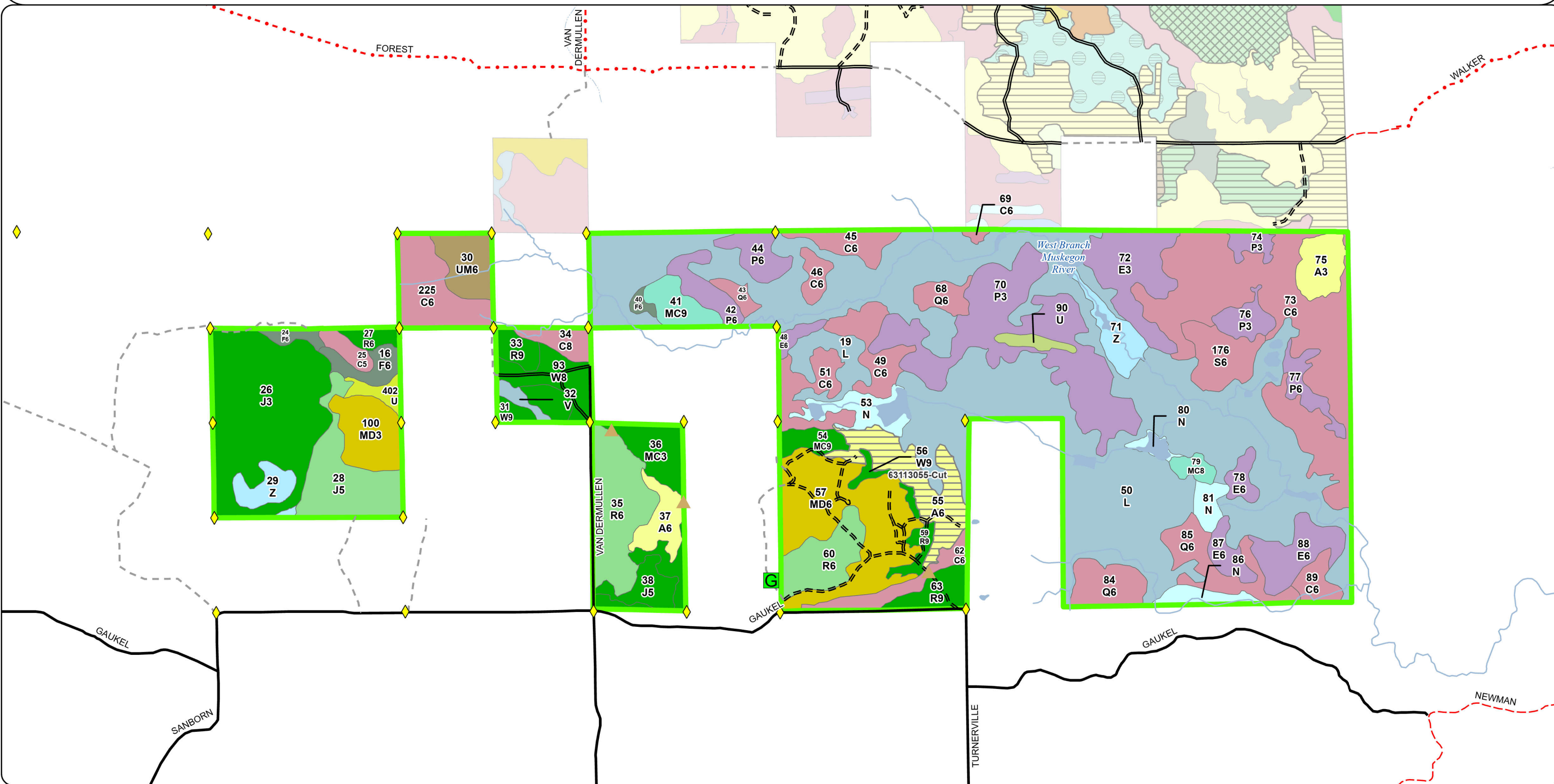
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- Clearcut

- 413 - Aspen
- 419 - Mixed Upland Deciduous
- 421 - Planted Pines
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- 423 - Other Upland Conifers
- 429 - Mixed Upland Conifers
- 430 - Upland Mixed Forest
- 500 - Water

- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
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- 330 - Low Density Trees
- 622 - Lowland Shrub
- 623 - Emergent Wetland



Stand Boundary Map

Compartment: 63113
T23N, R07W, Sec. 19-24
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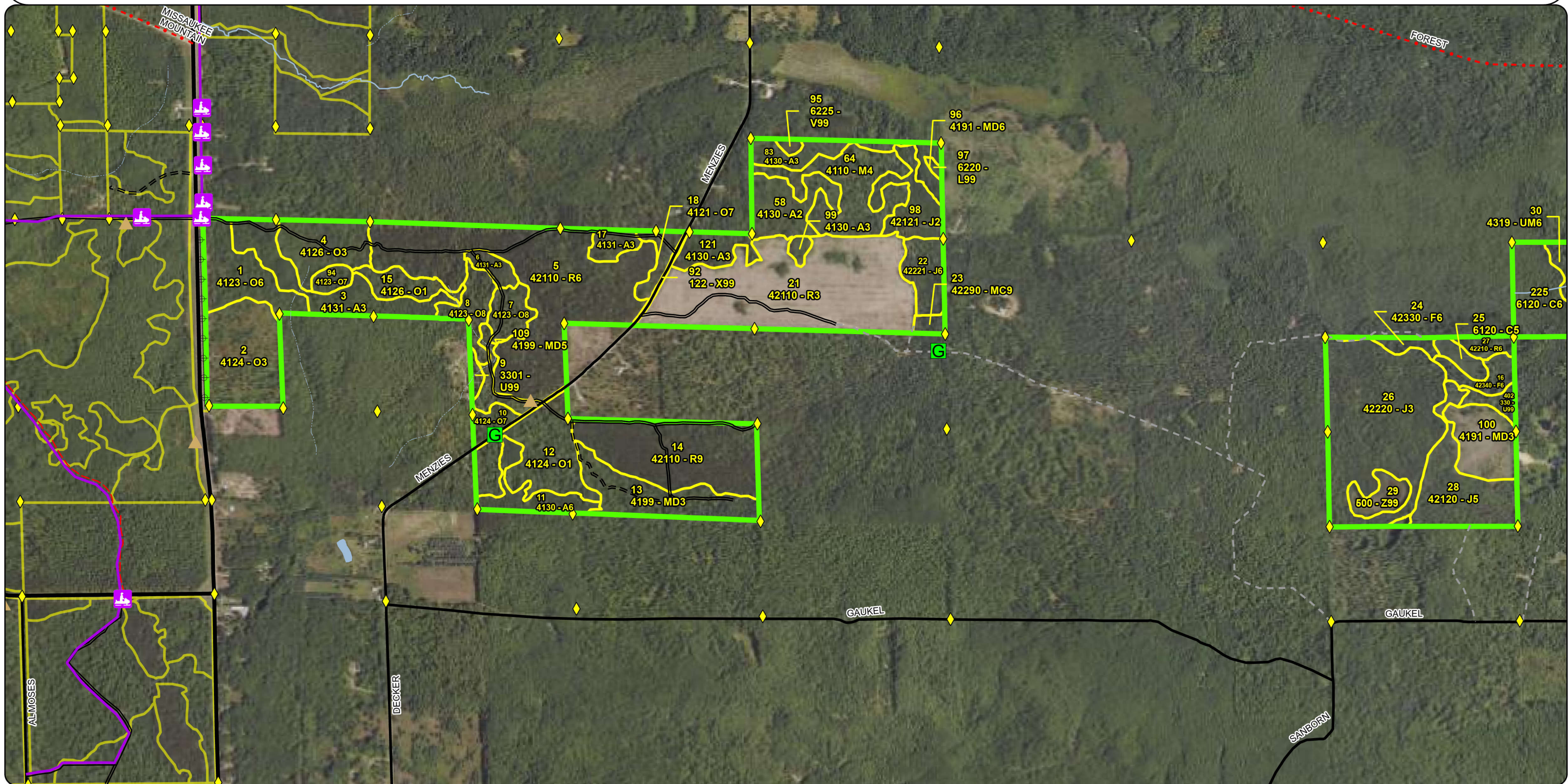
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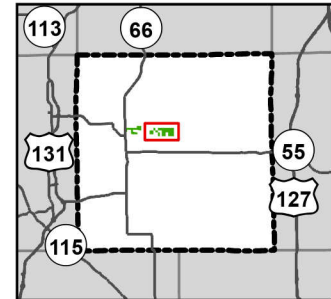
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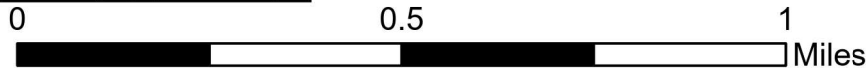
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Stand Boundary Map

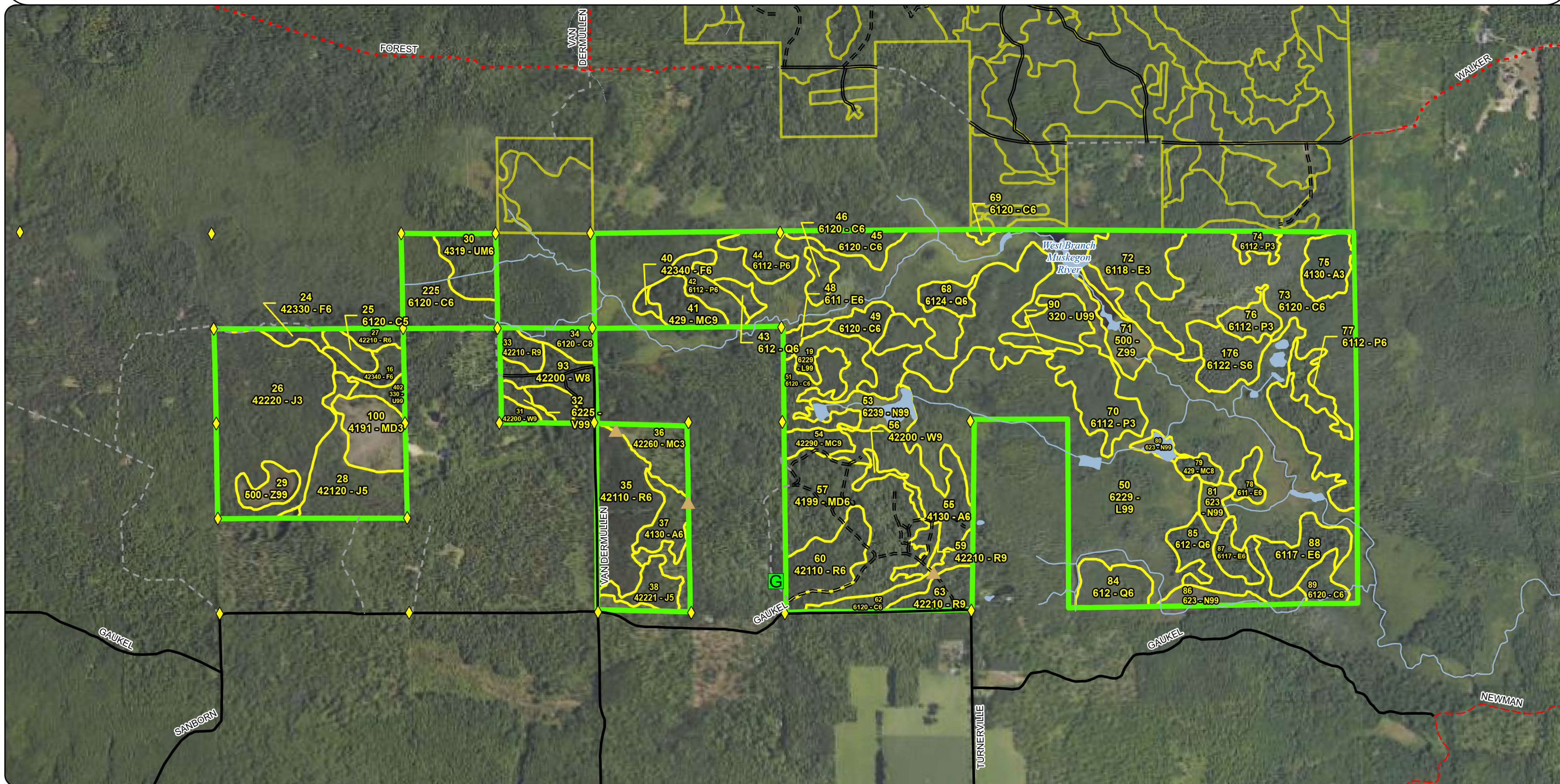


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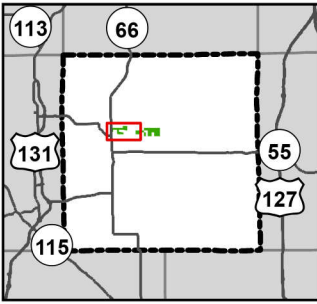
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Special Conservation Areas & Site Conditions Map

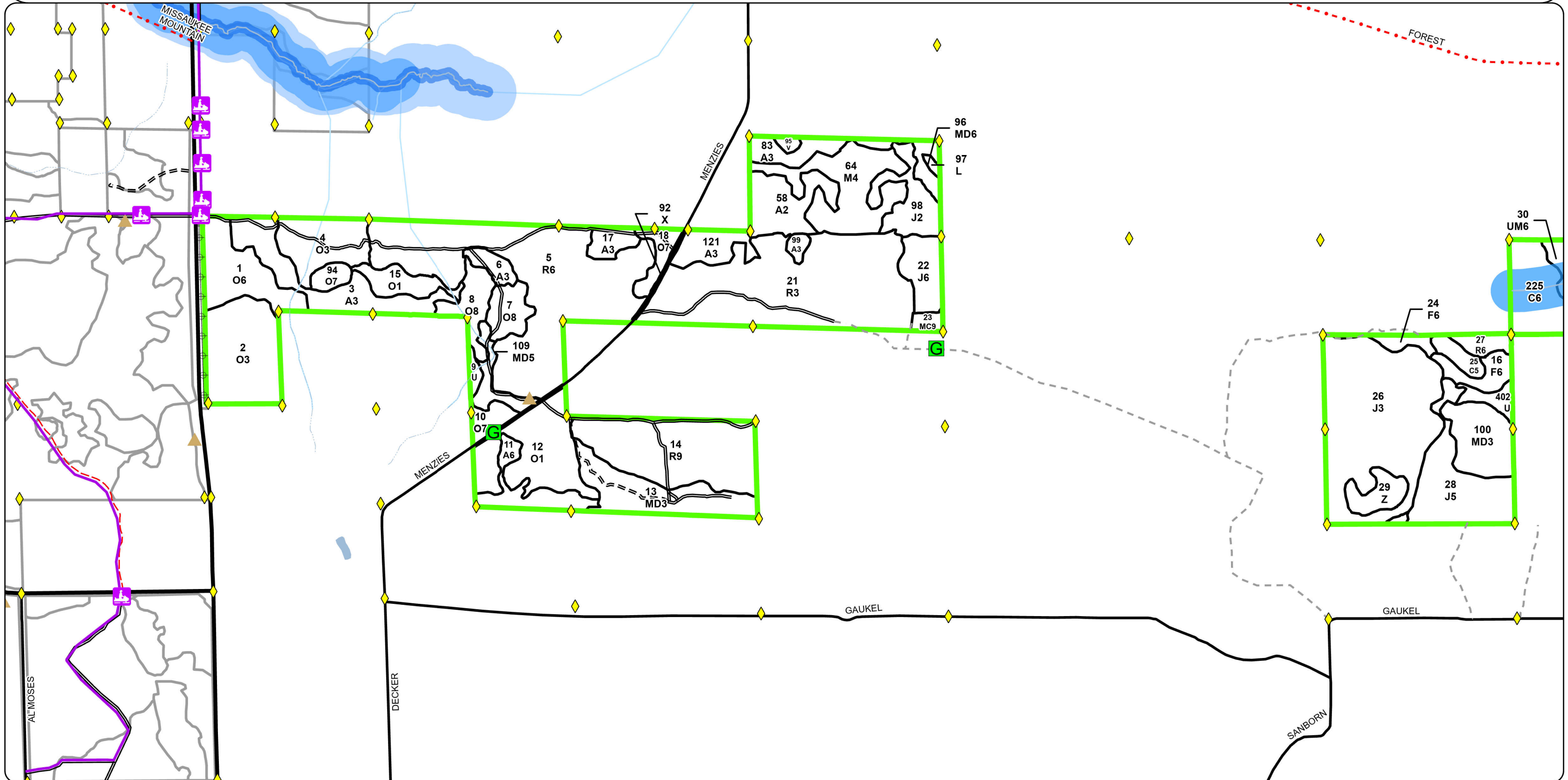
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- Compartment Boundary
- Stand Boundaries
- Natural Rivers Vegetative Buffer
- Natural Rivers Zoning District
- Cold Water Streams
- High Priority Trout Stream Buffer



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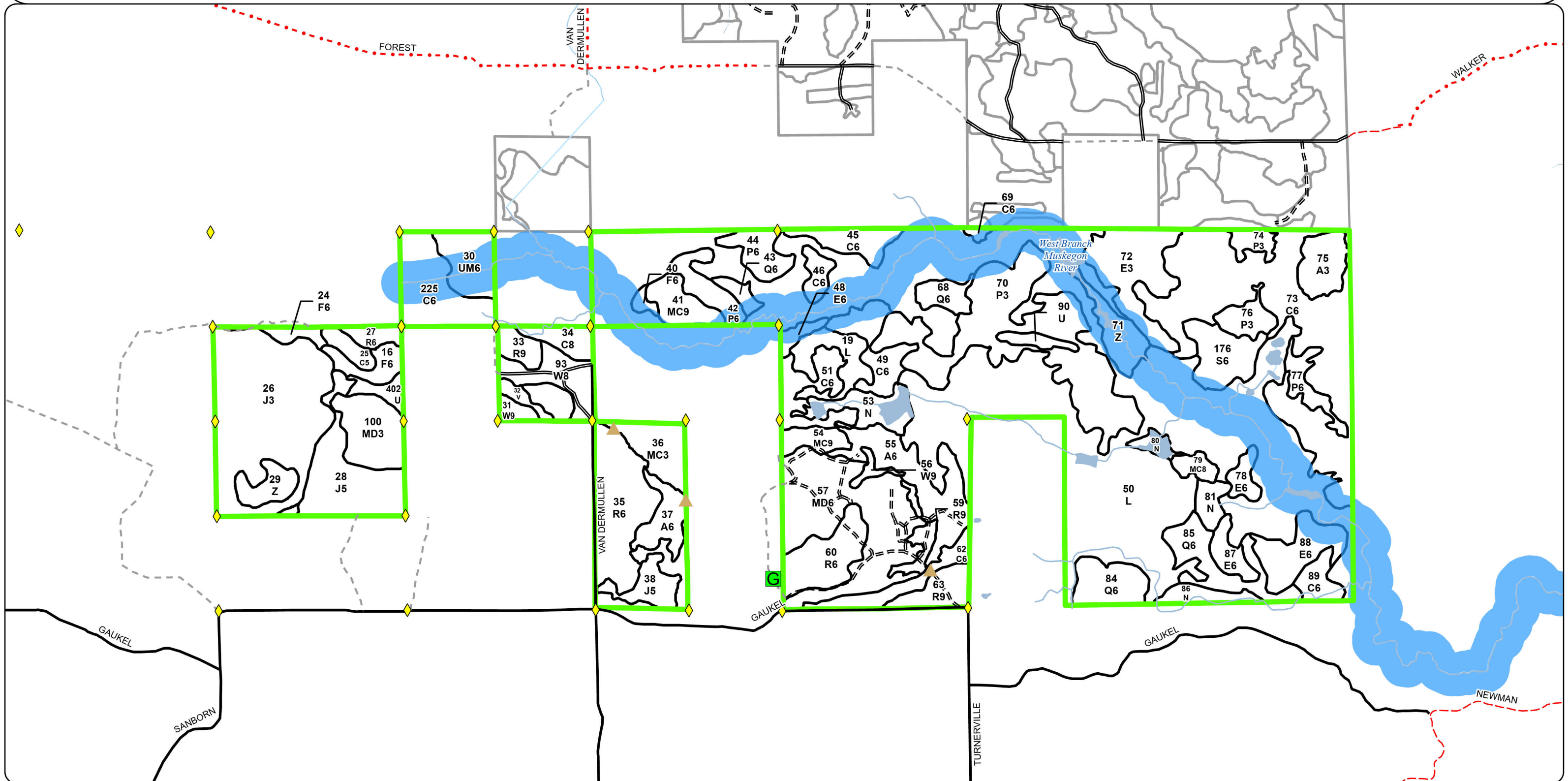


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- High Priority Trout Stream Buffer



Report 1 – Total Acres by Cover Type and Age Class

Compartment 113 Year of Entry 2027

	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+	Unseen-Aged	Total
Aspen	0	0	46	66	0	27	0	0	0	0	0	0	0	0	0	0	0	0	139
Bog	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
Cedar	0	0	0	0	0	0	0	0	0	0	0	84	0	110	8	0	0	0	202
Jack Pine	0	0	15	9	88	0	0	30	0	0	0	0	0	0	0	0	0	0	142
Low-Density Trees	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6
Lowland Aspen/Balsam Poplar	0	0	0	85	0	0	0	0	0	10	0	10	8	0	0	0	0	0	113
Lowland Conifers	0	0	0	0	0	0	0	0	0	0	0	42	0	0	0	0	0	0	42
Lowland Deciduous	0	0	0	28	0	0	0	0	0	3	0	0	28	0	0	0	0	0	59
Lowland Shrub	368	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	368
Lowland Spruce/Fir	0	0	0	0	0	0	0	0	0	0	0	0	16	0	0	0	0	0	16
Marsh	28	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	28
Mixed Upland Deciduous	0	19	0	0	84	5	7	0	0	0	0	0	0	0	0	0	0	0	115
Natural Mixed Pines	0	0	0	23	0	0	0	0	0	3	0	0	0	7	0	0	0	0	33
Northern Hardwood	0	0	0	0	0	32	0	0	0	0	0	0	0	0	0	0	0	0	32
Oak	0	34	61	0	23	0	6	0	0	0	11	18	0	0	0	0	0	0	153
Red Pine	0	92	0	0	0	0	0	198	0	0	10	11	0	10	0	0	0	0	321
Upland Conifers	0	0	0	0	0	0	0	0	0	0	0	15	0	0	0	0	0	0	15
Upland Mixed Forest	0	0	0	0	0	15	0	0	0	0	0	0	0	0	0	0	0	0	14
Upland Shrub	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
Upland Spruce/Fir	0	0	0	0	0	0	0	6	8	0	0	0	0	0	0	0	0	0	14
Urban	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
Water	21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	20
White Pine	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	21	21
Total	436	145	122	211	195	79	13	234	8	16	21	180	52	127	8	0	0	21	1864

Report 2 – Treatment Summary

Cadillac Mgt. Unit
Year of Entry: 2027

Acres of Harvest

Compartment 113
Total Compartment Acres: 1,863

Commercial Harvest - 109
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	27	0	0	0	0	0	0	0	0	27
Low-Density Trees	2	0	0	0	0	0	0	0	0	2
Mixed Upland Deciduous	7	0	0	0	0	0	0	0	0	7
Oak	25	0	0	0	0	0	0	0	0	25
Red Pine	0	0	0	48	0	0	0	0	0	48
Total	61	0	0	48	0	0	0	0	0	109

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	109	0	0	0	0	0	88	0	0	197
Total	109	0	0	0	0	0	88	0	0	197

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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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Proposed Treatments:

109 63113109-Cut	7.1	4199 - Other Mixed Upland Deciduous	5	57	51-80	Harvest	Clearcut	4211 - Planted Red Pine	Planting Record	No
<u>Prescription</u> Final harvest cut all species 2 inches and greater. <u>Specs:</u> <u>Next Step</u> <u>Treatments:</u> <u>Acceptable</u> Moderate to fully stocked red pine. <u>Regen:</u> <u>Other</u> Include soft oak wilt spec. Ditch witch for oak wilt around stand. <u>Comment:</u> <u>Site Condition:</u> <u>Proposed Start Date:</u> 10/01/2026										
55 63113055-Cut	27.1	4130 - Aspen	6	49	111-140	Harvest	Clearcut	4133 - Aspen, Mixed Pine	Planting Record	No
<u>Prescription</u> Final harvest all species 2 inches and greater at DBH. Except leave all white birch, red and white pine, cedar, hemlock or any oak over 16 inches in DBH. <u>Specs:</u> <u>Next Step</u> <u>Treatments:</u> <u>Acceptable</u> Moderate to fully stocked Aspen, maple, pine. <u>Regen:</u> <u>Other</u> Include grouse spec and brush piles spec along lowland edge. <u>Comment:</u> <u>Site Condition:</u> <u>Proposed Start Date:</u> 10/01/2026										
14 63113014-Cut	48.2	42110 - Planted Red Pine	9	64	111-140	Harvest	Seed Tree	4319 - Mixed Upland Forest	Planting Record	No
<u>Prescription</u> Cut all trees 4 inches and greater. Leave an average ba of 40. In areas of less regen leave higher ba. <u>Specs:</u> <u>Next Step</u> <u>Treatments:</u> <u>Acceptable</u> Moderate to fully stocked oak, maple, aspen, and beech. <u>Regen:</u> <u>Other</u> Add oak wilt for regen and roads. <u>Comment:</u> <u>Site Condition:</u> <u>Proposed Start Date:</u> 10/01/2026										
10 63113010-Cut	5.2	4124 - Red with White Oak	7	105	1-50	Harvest	Clearcut	4211 - Planted Red Pine	Planting Record	No
<u>Prescription</u> Final harvest cut all species 2 inches and greater. <u>Specs:</u> <u>Next Step</u> <u>Treatments:</u> <u>Acceptable</u> Moderate to fully stocked red pine. <u>Regen:</u> <u>Other</u> Include soft oak wilt spec. Ditch witch for oak wilt around stand. <u>Comment:</u> <u>Site Condition:</u> <u>Proposed Start Date:</u> 10/01/2026										

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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
9 63113009-Cut	1.9	3301 - Low Density Deciduous Trees	99			Harvest	Clearcut	4211 - Planted Red Pine	Planting Record	No
<u>Prescription</u> Final harvest remove all species 2 inches and greater at DBH. <u>Specs:</u> <u>Next Step</u> <u>Treatments:</u> <u>Acceptable</u> Moderate to fully stocked red pine. <u>Regen:</u> <u>Other</u> Area has oak wilt. Convert to pine for one cycle and then back to oak. Ditch witch for oak wilt around stand. <u>Comment:</u> <u>Site Condition:</u> <u>Proposed Start Date:</u> 10/01/2026										
8 63113008-Cut	10.7	4123 - Red Oak	8	95	81-110	Harvest	Clearcut	4211 - Planted Red Pine	Planting Record	No
<u>Prescription</u> Final harvest cut all species 2 inches and greater. <u>Specs:</u> <u>Next Step</u> <u>Treatments:</u> <u>Acceptable</u> Moderate to fully stocked red pine. <u>Regen:</u> <u>Other</u> Include soft oak wilt spec. Ditch witch for oak wilt around stand. <u>Comment:</u> <u>Site Condition:</u> <u>Proposed Start Date:</u> 10/01/2026										
7 63113007-Cut	9.1	4123 - Red Oak	8	106	1-50	Harvest	Clearcut	4211 - Planted Red Pine	Planting Record	No
<u>Prescription</u> Final harvest cut all species 2 inches and greater. <u>Specs:</u> <u>Next Step</u> <u>Treatments:</u> <u>Acceptable</u> Moderate to fully stocked red pine. <u>Regen:</u> <u>Other</u> Include soft oak wilt spec. Ditch witch for oak wilt around stand. <u>Comment:</u> <u>Site Condition:</u> <u>Proposed Start Date:</u> 10/01/2026										

Approved Treatments:

21 63113021-Monitor	88.1	42110 - Planted Red Pine	3	4	Immature	Monitoring	Monitoring - Regeneration	4211 - Planted Red Pine	Planting Record	No
<u>Prescription</u> <u>Specs:</u> <u>Next Step</u> <u>Treatments:</u> <u>Acceptable</u> Red Pine is acceptable regeneration <u>Regen:</u> <u>Other</u> Percent to Treat = 100% <u>Comment:</u> <u>Site Condition:</u> <u>Proposed Start Date:</u> 05/01/2024										

Cadillac Mgt. Unit		Report 3 -- Treatments							Compartment: 113		
									Year of Entry: 2027		
S t a n d	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
Total Treatment Acreage Proposed:		197.4									



Availability for Management

Total Acres	Acres Available	Acres Avail With Condition	Acres Not Available	Dominant Site Conditions		
				5C	2G	2H
139	139	0	0	Aspen		
4	5	0	0	Bog		
201	33	0	168	Cedar	168	
142	142	0	0	Jack Pine		
6	7	0	0	Low-Density Trees		
113	0	0	113	Lowland Aspen/Balsam Poplar	40	73
42	0	0	42	Lowland Conifers	42	
59	0	0	59	Lowland Deciduous	59	
368	368	0	0	Lowland Shrub		
16	0	0	16	Lowland Spruce/Fir	16	
28	28	0	0	Marsh		
115	115	0	0	Mixed Upland Deciduous		
32	25	7	0	Natural Mixed Pines	7	
32	32	0	0	Northern Hardwood		
153	153	0	0	Oak		
322	295	27	0	Red Pine	27	
14	0	0	14	Upland Conifers	10	4
14	15	0	0	Upland Mixed Forest		
4	4	0	0	Upland Shrub		
8	4	0	4	Upland Spruce/Fir	4	
3	3	0	0	Urban		
20	21	0	0	Water		
20	18	2	0	White Pine	2	
1,857	1,405	36	416	Total Forested Acres	36	339
	76%	2%	22%	Relative Percent		77

*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	Available		5C: Delay treatment for age/size class diversity or exceptional site quality	10	Unspecified	Unspecified	Unspecified	Unspecified
Comments:								

Report 4 – Site Conditions

Cadillac Mgt. Unit
Andrew Krugh: Examiner

Compartment: 113
Year of Entry: 2027



Stand appeared to be seed tree/shelterwood harvested. At it's current stage, the mature pine on site are adding species diversity and structural diversity.							
2	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	7	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Stand appeared to be seed tree/shelterwood harvested. At it's current stage, the mature pine on site are adding species diversity and structural diversity.							
3	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Stand appeared to be seed tree/shelterwood harvested. At it's current stage, the mature pine on site are adding species diversity and structural diversity.							
4	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	6	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Stand appeared to be seed tree/shelterwood harvested. At it's current stage, the mature pine on site are adding species diversity and structural diversity.							
5	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	11	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Stand was commercially thinned last entry period. Hold for regeneration purpose.							
6	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Cadillac Mgt. Unit
Andrew Krugh: Examiner

Compartment: 113
Year of Entry: 2027



9	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
10	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	73	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Wildlife Division has done a habitat cut in this area.							
13	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	320	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
14	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	4	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
25	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	5	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Cadillac Mgt. Unit
Andrew Krugh: Examiner

Compartment: 113
Year of Entry: 2027



68	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	7	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
78	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	5	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	Unspecified	Unspecified	Unspecified
Comments:							

Mgt. Unit

Compartment: #Type!

Year of Entry:

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

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

SCA Name	SCA Category	Detail Type	Recommendation	Acres
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Comments

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments			
1	4123 - Red Oak		23.0	30	1-50	N/A	OPIC - FMD: Harvested in 1995. Salvage cut. Removed maple, aspen and poor oak. Scattered pockets of O2 and O3. Scattered sawlog sized oak as well. Possible burn or scarify to prepare seed bed. 1/15- Previously seed tree cut in 1995. Regenerating well. Will be a fully stocked oak stand.			
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
	Red Maple	35	Seedling	6		Red Oak		Medium	5 - 10 feet	5 - 10 feet
	Red Oak	15		26	105	White Oak		Medium	10 - 20 feet	10 - 20 feet
	Red Oak	40	Sapling	5	30	Red Maple		Low	10 - 20 feet	10 - 20 feet
	White Oak	10		18		Red Maple		Medium	< 5 feet	< 5 feet
2	4124 - Red with White Oak		33.6	5	1-50	N/A	1/15- Topography and species vary throughout stand. Consider thinning to increase regeneration and release current regeneration. A lot of deer activity.			
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
	Red Maple	15	Log	2		Red Maple		Low	5 - 10 feet	5 - 10 feet
	White Pine	10	Log	2		White Oak		Low	10 - 20 feet	10 - 20 feet
	White Oak	20	Log	1		Red Oak		Low	5 - 10 feet	5 - 10 feet
	Red Oak	35	Log	1	5					
	Red Oak	20		14	105					
3	4131 - Aspen, Oak		25.7	25	Immature	N/A	OPIC - FMD: MANAGE FOR ASPEN-OAK, LEAVE SOME BETTER QUALITY OAK, STAND TREATED BY BRUCE BUNDY SALE # 0959701. Stand is A3 \M2\O2. 1/15- Regenerating stand with varying pockets dominated by aspen, oak and maple. Scattered seed tree oak throughout.			
	Canopy Species	% Cover	Size Class	DBH	Age					
	Quaking Aspen	45	Log	3	25					
	White Oak	5	Log	3						
	Red Maple	30	Log	3						
Red Oak	20	Log	2							
4	4126 - White, Black, N. Pin Oak		20.0	13	1-50	N/A	OPIC - FMD: Stand was cut with sale #63-036-09-01 Stand was infected with Oak Wilt and was trenched prior to harvest. MiFI 1/15- Regenerating oak stand.			
	Canopy Species	% Cover	Size Class	DBH	Age					
	Red Maple	20	Log	1						
	Red Oak	20	Log	1						
	White Oak	40	Log	1	13					
White Oak	20		28							
5	42110 - Planted Red Pine		97.5	64	111-140	N/A	OPIC - FMD: Third row thin. Remove overtopping hardwood were possible. Do not cut oak. Open up around pockets of oak regen and individual oaks. BA varies throughout stand. Thinned with sale 63-023-07-01			
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
	Black Cherry	2	Seedling	8		Red Maple		Low	< 5 feet	< 5 feet
	Red Oak	2		14		Red Oak		High	5 - 10 feet	5 - 10 feet
	Red Pine	96		9	64					
6	4131 - Aspen, Oak		4.9	25	Immature	N/A	OPIC - FMD: Final harvested in 2000. Mix of redmaple, BT aspen and black oak. 1/21- Patchy mix of aspen and oak regeneration.			
	Canopy Species	% Cover	Size Class	DBH	Age					
	Red Oak	35	Log	3						
	Red Maple	10	Log	3						
	Bigtooth Aspen	45	Log	3	25					
White Oak	10	Log	3							

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																		
7	4123 - Red Oak		9.1	106	1-50	N/A	1/21/15- Stand is regenerating well. Regeneration is thick.																																		
<table><tr><th>Canopy Species</th><th>% Cover</th><th>Size Class</th><th>DBH</th><th>Age</th></tr><tr><td>White Oak</td><td>10</td><td></td><td>16</td><td></td></tr><tr><td>Red Oak</td><td>90</td><td></td><td>18</td><td>106</td></tr></table>			Canopy Species	% Cover	Size Class	DBH	Age	White Oak	10		16		Red Oak	90		18	106	<table><tr><th>Sub-Canopy Species</th><th>Density</th><th>Avg. Height</th><th>Size</th></tr><tr><td>Red Maple</td><td>Medium</td><td>5 - 10 feet</td><td>5 - 10 feet</td></tr><tr><td>Red Oak</td><td>Medium</td><td>10 - 20 feet</td><td>10 - 20 feet</td></tr><tr><td>Black Cherry</td><td>Trace</td><td>10 - 20 feet</td><td>10 - 20 feet</td></tr><tr><td>White Oak</td><td>Low</td><td>5 - 10 feet</td><td>5 - 10 feet</td></tr></table>				Sub-Canopy Species	Density	Avg. Height	Size	Red Maple	Medium	5 - 10 feet	5 - 10 feet	Red Oak	Medium	10 - 20 feet	10 - 20 feet	Black Cherry	Trace	10 - 20 feet	10 - 20 feet	White Oak	Low	5 - 10 feet	5 - 10 feet
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Black Cherry	Trace	10 - 20 feet	10 - 20 feet																																						
White Oak	Low	5 - 10 feet	5 - 10 feet																																						
8	4123 - Red Oak		10.7	95	81-110	N/A	OPIC - FMD: Stand was cut with sale #63-036-09-01 Stand was infected with Oak Wilt and was trenched prior to harvest. MiFI 1/15- Stand was thinned lightly with previous sale. Oak wilt was present. Oak Wilt is starting to kill most of the mature trees.																																		
<table><tr><th>Canopy Species</th><th>% Cover</th><th>Size Class</th><th>DBH</th><th>Age</th></tr><tr><td>White Oak</td><td>15</td><td></td><td>11</td><td></td></tr><tr><td>Red Oak</td><td>80</td><td></td><td>11</td><td>95</td></tr><tr><td>Red Maple</td><td>5</td><td>Seedling</td><td>8</td><td></td></tr></table>			Canopy Species	% Cover	Size Class	DBH	Age	White Oak	15		11		Red Oak	80		11	95	Red Maple	5	Seedling	8																				
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9	3301 - Low Density Deciduous Trees		1.9			No	OPIC - FMD: Scattered O4 and pin cherry with grassy open areas. Old dump.																																		
			<table><tr><th>Sub-Canopy Species</th><th>Density</th><th>Avg. Height</th><th>Size</th></tr><tr><td>Red Oak</td><td>Trace</td><td>Variable</td><td>Variable</td></tr><tr><td>White Oak</td><td>Trace</td><td>Variable</td><td>Variable</td></tr><tr><td>Black Cherry</td><td>Low</td><td>Variable</td><td>Variable</td></tr></table>				Sub-Canopy Species	Density	Avg. Height	Size	Red Oak	Trace	Variable	Variable	White Oak	Trace	Variable	Variable	Black Cherry	Low	Variable	Variable																			
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Black Cherry	Low	Variable	Variable																																						
10	4124 - Red with White Oak	Sawtimber Poor	5.2	105	1-50	N/A	OPIC - FMD: Remove all aspen, red maple and thin oak to 50% crown closure. Release oak regen were found. Leave all oak under 10" dbh and mark oak logs to cut. Leave enough large trees around gate to maintain closure. 1/15- Seed tree harvested 2009. Nicely regenerating stand.																																		
<table><tr><th>Canopy Species</th><th>% Cover</th><th>Size Class</th><th>DBH</th><th>Age</th></tr><tr><td>White Oak</td><td>25</td><td></td><td>20</td><td></td></tr><tr><td>Red Oak</td><td>75</td><td></td><td>26</td><td>105</td></tr></table>			Canopy Species	% Cover	Size Class	DBH	Age	White Oak	25		20		Red Oak	75		26	105	<table><tr><th>Sub-Canopy Species</th><th>Density</th><th>Avg. Height</th><th>Size</th></tr><tr><td>Red Maple</td><td>Medium</td><td>< 5 feet</td><td>< 5 feet</td></tr><tr><td>White Oak</td><td>Medium</td><td>5 - 10 feet</td><td>5 - 10 feet</td></tr><tr><td>Red Oak</td><td>Low</td><td>< 5 feet</td><td>< 5 feet</td></tr><tr><td>Quaking Aspen</td><td>Low</td><td>5 - 10 feet</td><td>5 - 10 feet</td></tr></table>				Sub-Canopy Species	Density	Avg. Height	Size	Red Maple	Medium	< 5 feet	< 5 feet	White Oak	Medium	5 - 10 feet	5 - 10 feet	Red Oak	Low	< 5 feet	< 5 feet	Quaking Aspen	Low	5 - 10 feet	5 - 10 feet
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11	4130 - Aspen	Poletimber Well	12.3	25	81-110	N/A	OPIC - FMD: Nice A3. Some scattered Oak seed trees.1/6-Tweedale: Aspen regen with a minor mix of red maple and red oak. Scattered large oak trees present.																																		
<table><tr><th>Canopy Species</th><th>% Cover</th><th>Size Class</th><th>DBH</th><th>Age</th></tr><tr><td>Quaking Aspen</td><td>94</td><td>Sapling</td><td>5</td><td>25</td></tr><tr><td>Red Maple</td><td>3</td><td>Sapling</td><td>5</td><td></td></tr><tr><td>Red Oak</td><td>3</td><td>Pole</td><td>4</td><td></td></tr></table>			Canopy Species	% Cover	Size Class	DBH	Age	Quaking Aspen	94	Sapling	5	25	Red Maple	3	Sapling	5		Red Oak	3	Pole	4																				
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Red Oak	3	Pole	4																																						
12	4124 - Red with White Oak	Sapling Poor	32.1	14	1-50	N/A	Sale complete (63-038-07-01) in early 2010. Stand has been seed tree harvested. Stump sprout red maple is probably the most abundant regen. Single stem red maple is also present. Red oak regeneration is approx. 2' tall, and is abundant in patches as well as scattered throughout. East end of stand has a higher BA.																																		
<table><tr><th>Canopy Species</th><th>% Cover</th><th>Size Class</th><th>DBH</th><th>Age</th></tr><tr><td>Red Maple</td><td>30</td><td>Log</td><td>1</td><td></td></tr><tr><td>White Pine</td><td>3</td><td></td><td>11</td><td></td></tr><tr><td>White Oak</td><td>5</td><td></td><td>24</td><td></td></tr><tr><td>White Oak</td><td>15</td><td>Log</td><td>1</td><td></td></tr><tr><td>Red Oak</td><td>10</td><td></td><td>28</td><td>106</td></tr><tr><td>Red Oak</td><td>37</td><td>Log</td><td>1</td><td>14</td></tr></table>			Canopy Species	% Cover	Size Class	DBH	Age	Red Maple	30	Log	1		White Pine	3		11		White Oak	5		24		White Oak	15	Log	1		Red Oak	10		28	106	Red Oak	37	Log	1	14				
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments			
13	4199 - Other Mixed Upland Deciduous	Sapling Well	26.4	36	111-140	N/A	OPIC - FMD: Harvested in 1989. Mostly red maple with some scattered O1. 1/13- Stand is in the regeneration stage. Seed trees scattered with some pockets of crop trees. Heavy to white pine on the eastern end of the stand.			
Canopy Species		% Cover	Size Class	DBH	Age					
Red Maple		35	Log	3	36					
White Oak		5	Seedling	5						
Red Oak		20	Log	3	36					
Red Oak		15		18						
White Pine		15		14						
Quaking Aspen		10	Log	2						
14	42110 - Planted Red Pine	Sawtimber Well	48.2	64	111-140	N/A	OPIC - FMD: Third row thin. Remove overtopping hardwood were possible. Do not cut oak. Open up around pockets of oak regen and individual oaks. BA varies throughout stand. A lot of garbage dumping in and around stand. 1/13- Stand has been third row thinned recently.4/25 stand is getting a decent amount of oak regen in the understory.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Red Oak		2		10		White Oak		Medium	5 - 10 feet	5 - 10 feet
Red Pine		98		10	64	Beech		Low	5 - 10 feet	5 - 10 feet
						Red Oak		Medium	5 - 10 feet	5 - 10 feet
						Red Maple		Medium	5 - 10 feet	5 - 10 feet
15	4126 - White, Black, N. Pin Oak	Sapling Poor	9.1	13	1-50	N/A	OPIC - FMD: Stand was cut with sale #63-036-09-01 Stand was infected with Oak Wilt and was trenched prior to harvest. MiFI 1/15- Regenerating oak stand.			
Canopy Species		% Cover	Size Class	DBH	Age					
Red Maple		20	Log	1						
Red Oak		20	Log	1						
White Oak		20		28						
White Oak		40	Log	1	13					
16	42340 - Upland Spruce/Fir	Poletimber Well	7.7	71	111-140	N/A	Stand is low and wet with high pockets.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Balsam Fir		55	Seedling	7	71	White Pine		Low	< 5 feet	< 5 feet
Black Spruce		35	Seedling	7		Balsam Fir		Low	5 - 10 feet	5 - 10 feet
White Pine		10		18						
17	4131 - Aspen, Oak		5.7	14	Immature	N/A	Stand was harvested with sale 63-023-07-01. regenerating aspen-oak-maple stand with scattered oak-red pine seed trees.			
Canopy Species		% Cover	Size Class	DBH	Age					
Red Maple		40	Log	1						
White Oak		5		28						
Quaking Aspen		40	Log	2	14					
Red Oak		5		22						
Red Oak		10	Log	1						

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																
18	4121 - Oak, Aspen		6.4	56	51-80	N/A	Low density and low quality oak-aspen stand.																																
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Red Oak	33		12																																				
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19	6229 - Mixed Lowland Shrub	Unspecified	13.4			No	OPIC - FMD: Large complex of streams, tag alder, with scattered black spruce, cedar, dead cedar and tammarack.																																
<table><tr><th>Sub-Canopy Species</th><th>Density</th><th>Avg. Height</th><th>Size</th></tr><tr><td>Tag Alder</td><td>Full</td><td>5 - 10 feet</td><td>5 - 10 feet</td></tr></table>								Sub-Canopy Species	Density	Avg. Height	Size	Tag Alder	Full	5 - 10 feet	5 - 10 feet																								
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21	42110 - Planted Red Pine	Sapling Well	91.8	4	Immature	N/A																																	
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22	42221 - Natural Jack Pine, Mixed Deciduous	Poletimber Well	12.1	38	51-80	N/A	Natural jack pine-cherry stand. Open canopy gaps scattered throughout. Jack pine soon to be pulp size.																																
<table><tr><th>Canopy Species</th><th>% Cover</th><th>Size Class</th><th>DBH</th><th>Age</th></tr><tr><td>Jack Pine</td><td>70</td><td>Sapling</td><td>5</td><td>38</td></tr><tr><td>Black Cherry</td><td>20</td><td>Sapling</td><td>5</td><td></td></tr><tr><td>Pin Cherry</td><td>10</td><td>Sapling</td><td>5</td><td></td></tr></table> <table><tr><th>Sub-Canopy Species</th><th>Density</th><th>Avg. Height</th><th>Size</th></tr><tr><td>Pin Cherry</td><td>Low</td><td>5 - 10 feet</td><td>5 - 10 feet</td></tr><tr><td>White Oak</td><td>Low</td><td>5 - 10 feet</td><td>5 - 10 feet</td></tr></table>								Canopy Species	% Cover	Size Class	DBH	Age	Jack Pine	70	Sapling	5	38	Black Cherry	20	Sapling	5		Pin Cherry	10	Sapling	5		Sub-Canopy Species	Density	Avg. Height	Size	Pin Cherry	Low	5 - 10 feet	5 - 10 feet	White Oak	Low	5 - 10 feet	5 - 10 feet
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23	42290 - Natural Mixed Pine	Sawtimber Well	2.6	80	51-80	N/A	Jack pine has fallen apart. nice oak understory coming in. stand will convert to a red pine oak stand. Previous inventory found private SE corner.																																
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24	42330 - Upland Fir	Poletimber Well	4.1	69	111-140	N/A	Stand is upland with some lowland. Jack pine is declining. Balsam is going to decline over the next 10-20 years.																																
<table><tr><th>Canopy Species</th><th>% Cover</th><th>Size Class</th><th>DBH</th><th>Age</th></tr><tr><td>Balsam Fir</td><td>75</td><td>Seedling</td><td>7</td><td>69</td></tr><tr><td>Red Pine</td><td>5</td><td></td><td>16</td><td></td></tr><tr><td>Black Spruce</td><td>5</td><td>Seedling</td><td>7</td><td></td></tr><tr><td>White Pine</td><td>5</td><td></td><td>18</td><td></td></tr><tr><td>Jack Pine</td><td>10</td><td></td><td>10</td><td></td></tr></table>								Canopy Species	% Cover	Size Class	DBH	Age	Balsam Fir	75	Seedling	7	69	Red Pine	5		16		Black Spruce	5	Seedling	7		White Pine	5		18		Jack Pine	10		10			
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Jack Pine	10		10																																				
25	6120 - Lowland Cedar	Poletimber Medium	4.8	102	1-50	N/A	Low and wet.																																
<table><tr><th>Canopy Species</th><th>% Cover</th><th>Size Class</th><th>DBH</th><th>Age</th></tr><tr><td>Balsam Fir</td><td>10</td><td>Sapling</td><td>7</td><td></td></tr><tr><td>Black Spruce</td><td>10</td><td>Sapling</td><td>7</td><td></td></tr><tr><td>Northern White Cedar</td><td>80</td><td>Sapling</td><td>7</td><td>102</td></tr></table>								Canopy Species	% Cover	Size Class	DBH	Age	Balsam Fir	10	Sapling	7		Black Spruce	10	Sapling	7		Northern White Cedar	80	Sapling	7	102												
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Northern White Cedar	80	Sapling	7	102																																			

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																									
26	42220 - Natural Jack Pine	Sapling Well	75.9	38	51-80	N/A	OPIC - FMD: Harvested in 1987 mix of Jack pine, White pine and Oak.																																									
<table><tr><th>Canopy Species</th><th>% Cover</th><th>Size Class</th><th>DBH</th><th>Age</th></tr><tr><td>Red Maple</td><td>15</td><td>Log</td><td>3</td><td></td></tr><tr><td>White Pine</td><td>10</td><td>Log</td><td>3</td><td></td></tr><tr><td>Jack Pine</td><td>65</td><td>Log</td><td>4</td><td>38</td></tr><tr><td>Red Oak</td><td>10</td><td>Log</td><td>3</td><td></td></tr></table>			Canopy Species	% Cover	Size Class	DBH	Age	Red Maple	15	Log	3		White Pine	10	Log	3		Jack Pine	65	Log	4	38	Red Oak	10	Log	3		<table><tr><th>Sub-Canopy Species</th><th>Density</th><th>Avg. Height</th><th>Size</th></tr><tr><td>Red Oak</td><td>Low</td><td>5 - 10 feet</td><td>5 - 10 feet</td></tr></table>				Sub-Canopy Species	Density	Avg. Height	Size	Red Oak	Low	5 - 10 feet	5 - 10 feet									
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27	42210 - Natural Red Pine	Poletimber Well	4.7	97	111-140	N/A	Stand dominated by nice red pine with some white pine.																																									
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28	42120 - Planted Jack Pine	Poletimber Medium	29.9	63	1-50	N/A	Stand is falling apart. Let stand convert to mixed upland deciduous.																																									
<table><tr><th>Canopy Species</th><th>% Cover</th><th>Size Class</th><th>DBH</th><th>Age</th></tr><tr><td>Red Oak</td><td>10</td><td>Log</td><td>4</td><td></td></tr><tr><td>Jack Pine</td><td>90</td><td>Seedling</td><td>7</td><td>63</td></tr></table>			Canopy Species	% Cover	Size Class	DBH	Age	Red Oak	10	Log	4		Jack Pine	90	Seedling	7	63	<table><tr><th>Sub-Canopy Species</th><th>Density</th><th>Avg. Height</th><th>Size</th></tr><tr><td>Red Oak</td><td>Low</td><td>< 5 feet</td><td>< 5 feet</td></tr></table>				Sub-Canopy Species	Density	Avg. Height	Size	Red Oak	Low	< 5 feet	< 5 feet																			
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29	500 - Water	Unspecifed	8.9			No	OPIC - FMD: Bog.																																									
30	4319 - Mixed Upland Forest	Poletimber Well	14.5	49	81-110	N/A	Stand slightly above water table. Dead and down balsam fir and aspen. Young red maple/balsam/hemlock stand.																																									
<table><tr><th>Canopy Species</th><th>% Cover</th><th>Size Class</th><th>DBH</th><th>Age</th></tr><tr><td>Hemlock</td><td>10</td><td></td><td>10</td><td></td></tr><tr><td>Balsam Fir</td><td>40</td><td>Seedling</td><td>6</td><td>41</td></tr><tr><td>White Pine</td><td>5</td><td></td><td>12</td><td></td></tr><tr><td>Red Maple</td><td>40</td><td>Seedling</td><td>6</td><td>49</td></tr><tr><td>Paper Birch</td><td>5</td><td>Seedling</td><td>6</td><td></td></tr></table>			Canopy Species	% Cover	Size Class	DBH	Age	Hemlock	10		10		Balsam Fir	40	Seedling	6	41	White Pine	5		12		Red Maple	40	Seedling	6	49	Paper Birch	5	Seedling	6		<table><tr><th>Sub-Canopy Species</th><th>Density</th><th>Avg. Height</th><th>Size</th></tr><tr><td>Balsam Fir</td><td>Low</td><td>< 5 feet</td><td>< 5 feet</td></tr><tr><td>Red Maple</td><td>Trace</td><td>< 5 feet</td><td>< 5 feet</td></tr></table>				Sub-Canopy Species	Density	Avg. Height	Size	Balsam Fir	Low	< 5 feet	< 5 feet	Red Maple	Trace	< 5 feet	< 5 feet
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31	42200 - Natural White Pine	Sawtimber Well	3.2	135	111-140	N/A	Uneven aged stand. Mix of white pine, red pine and some pockets of quaking aspen. There is no access to this stand. V type to the north and private land to the south.																																									
<table><tr><th>Canopy Species</th><th>% Cover</th><th>Size Class</th><th>DBH</th><th>Age</th></tr><tr><td>Quaking Aspen</td><td>5</td><td></td><td>8</td><td></td></tr><tr><td>Red Pine</td><td>20</td><td></td><td>14</td><td></td></tr><tr><td>White Pine</td><td>75</td><td></td><td>16</td><td>135</td></tr></table>			Canopy Species	% Cover	Size Class	DBH	Age	Quaking Aspen	5		8		Red Pine	20		14		White Pine	75		16	135	<table><tr><th>Sub-Canopy Species</th><th>Density</th><th>Avg. Height</th><th>Size</th></tr><tr><td>Balsam Fir</td><td>Trace</td><td>< 5 feet</td><td>< 5 feet</td></tr></table>				Sub-Canopy Species	Density	Avg. Height	Size	Balsam Fir	Trace	< 5 feet	< 5 feet														
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Balsam Fir	Trace	< 5 feet	< 5 feet																																													
32	6225 - Bog	Unspecifed	3.1			No	Blueberry leatherleaf bog.																																									
			<table><tr><th>Sub-Canopy Species</th><th>Density</th><th>Avg. Height</th><th>Size</th></tr><tr><td>White Pine</td><td>Low</td><td>< 5 feet</td><td>< 5 feet</td></tr></table>				Sub-Canopy Species	Density	Avg. Height	Size	White Pine	Low	< 5 feet	< 5 feet																																		
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
33	42210 - Natural Red Pine	Sawtimber Well	11.4	107	111-140	N/A	Stand has been recently thinned. understory starting to become stocked. Southern portion of stand is lower in elevation, almost seasonably wet.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Red Pine	85		14	107	Balsam Fir	Low		< 5 feet	< 5 feet
White Pine	15		18		White Pine	Medium		< 5 feet	< 5 feet
34	6120 - Lowland Cedar	Sawtimber Medium	7.5	135	1-50	N/A	Stand has increasing balsam fir component over past 30 years or so.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Balsam Fir	14	Seedling	7	45	Balsam Fir	Medium		< 5 feet	< 5 feet
Red Pine	3		12						
White Pine	3		16						
Black Spruce	10	Seedling	8						
Northern White Cedar	70	Seedling	7	135					
35	42110 - Planted Red Pine	Poletimber Well	33.3	64	141-170	N/A		1/3 row thinned by Vanduin in summer of 2008.	
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height		Size
Red Pine	100	Seedling	9	64	Red Maple	Trace	< 5 feet		< 5 feet
36	42260 - Natural Pine, Mixed Deciduous	Sapling Well	22.7	20	1-50	N/A			
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Red Maple	40	Log	1		White Pine	High		5 - 10 feet	5 - 10 feet
Red Pine	10	Log	1	20					
White Pine	50	Log	1	20					
37	4130 - Aspen	Poletimber Well	10.8	26	141-170	N/A	Final harvested in 1998. Aspen regeneration. Scattered log and pole size oak.		
Canopy Species	% Cover	Size Class	DBH	Age					
Quaking Aspen	30	Sapling	5						
Red Oak	10		11						
White Pine	5		10						
Red Maple	15		5						
Bigtooth Aspen	40	Sapling	5	26					
38	42221 - Natural Jack Pine, Mixed Deciduous	Poletimber Medium	9.3	26	111-140	N/A	Final harvested JP in 1998. Left red pine and some JP seed trees. Mostly jack pine-aspen regeneration stand. Some scattered red pine.		
Canopy Species	% Cover	Size Class	DBH	Age					
Red Maple	5	Sapling	5						
Quaking Aspen	30	Pole	4						
White Pine	5	Sapling	5						
Jack Pine	60	Sapling	5	26					

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																									
40	42340 - Upland Spruce/Fir	Poletimber Well	1.9	64	81-110	N/A	OPIC - FMD: OI Stand Year Origin was 1961																									
<table><tr><th>Canopy Species</th><th>% Cover</th><th>Size Class</th><th>DBH</th><th>Age</th></tr><tr><td>Red Maple</td><td>15</td><td>Seedling</td><td>5</td><td></td></tr><tr><td>Balsam Fir</td><td>45</td><td>Seedling</td><td>6</td><td>64</td></tr><tr><td>Black Spruce</td><td>30</td><td>Seedling</td><td>6</td><td></td></tr><tr><td>Quaking Aspen</td><td>10</td><td>Seedling</td><td>5</td><td></td></tr></table>								Canopy Species	% Cover	Size Class	DBH	Age	Red Maple	15	Seedling	5		Balsam Fir	45	Seedling	6	64	Black Spruce	30	Seedling	6		Quaking Aspen	10	Seedling	5	
Canopy Species	% Cover	Size Class	DBH	Age																												
Red Maple	15	Seedling	5																													
Balsam Fir	45	Seedling	6	64																												
Black Spruce	30	Seedling	6																													
Quaking Aspen	10	Seedling	5																													
41	429 - Mixed Upland Conifers	Sawtimber Well	10.7	107	111-140	N/A	OPIC - FMD: Mix of mature red and white pine. Understory varies from red pine to balsam fir. Stand is isolated by L types and private land.																									
42	6112 - Lowland Aspen	Poletimber Well	10.0	105	51-80	N/A	OPIC - FMD: Mix of aspen, red maple, balsam fir and cedar. Hummucky ground. Stand is surrounded by L types. Aspen is starting to decay. Habitat cut?																									
43	612 - Lowland Coniferous Forest	Poletimber Well	3.5	105	81-110	N/A	OPIC - FMD: Balsam fir, cedar mix with some overtopping aspen and scattered black spruce. L understory in spots.																									
44	6112 - Lowland Aspen	Poletimber Well	10.0	86	51-80	N/A	OPIC - FMD: Quaking aspen, balsam poplar, balsam fir with some scattered pole sized oak. Quaking aspen is old and breaking up. No access due to adjacent L types. Possible habitat cut. Stand was remote called due to lack of access.																									
45	6120 - Lowland Cedar	Poletimber Well	10.2	105	81-110	N/A	OPIC - FMD: Balsam fir, cedar mix with some overtopping aspen and scattered black spruce. Some portions of the stand are flooded and the cedar is starting to die.																									
46	6120 - Lowland Cedar	Poletimber Well	5.1	105	81-110	N/A	OPIC - FMD: Balsam fir, cedar mix with some overtopping aspen and scattered black spruce. Some portions of the stand are flooded and the cedar is starting to die. REMOTE CALLED DUE TO LOCATION.																									
48	611 - Lowland Deciduous Forest	Poletimber Well	3.3	86	51-80	N/A	Comments from 2005: Mix of red maple, balsam fir, aspen and paper birch. Aspen is starting to show signs of decay. Possible habitat cut. Stand is surrounded by L.																									
49	6120 - Lowland Cedar	Poletimber Well	15.1	105	81-110	N/A	Comments form 2005: Balsam fir, cedar mix with some overtopping aspen and scattered black spruce. Some portions of the stand are flooded and the cedar is starting to die.																									
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Black Spruce	20	Seedling	8																													
Northern White Cedar	55		8	105																												
50	6229 - Mixed Lowland Shrub	Unspecified	353.7			No																										
<table><tr><th>Sub-Canopy Species</th><th>Density</th><th>Avg. Height</th><th>Size</th></tr><tr><td>Tag Alder</td><td>Full</td><td>5 - 10 feet</td><td>5 - 10 feet</td></tr></table>							Sub-Canopy Species	Density	Avg. Height	Size	Tag Alder	Full	5 - 10 feet	5 - 10 feet																		
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OPIC - FMD: Large complex of streams, tag alder, with scattered black spruce, cedar, dead cedar and tammarack.																																

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																			
51	6120 - Lowland Cedar	Poletimber Well	15.2	105	81-110	N/A	OPIC - FMD: Balsam fir, cedar mix with some overtopping aspen and scattered black spruce. Some portions of the stand are flooded and the cedar is starting to die. Species composition taken from the edge of stand and % values are estimated.3/25 Stand is hard to walk through a lot of areas because of trees falling over.																																			
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Northern White Cedar	65	Seedling	7	105																																						
53	6239 - Mixed Emergent Wetland	Unspecifed	13.1			No	2015: Beaver flooding.																																			
54	42290 - Natural Mixed Pine	Sawtimber Well	6.7	128	51-80	N/A	OPIC - FMD: Uneven aged red and white pine mix with a maple fir understory. Thin the 14-18 inch red and white pine. Release the smaller diameter pine were found. Leave the big super canopy red pines for seed. Open up some holes for red pine to seed into. Could scarify or harvest during the summer months. Sale complete #63-012-07-01Understory is on the verge of being pole class.																																			
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55	4130 - Aspen	Poletimber Well	27.1	49	111-140	N/A	OPIC - FMD: Quaking aspen, nice A3. Scattered W1,R1,O1. Almost pole sized. Stand is wet in places. Tag alder understory in the wet areas. No current age taken and no cut records found. Stand is variable in size. East South portions of stand are larger and better quality. North and West sides are lower ground and smaller in size.																																			
<table><tr><th>Canopy Species</th><th>% Cover</th><th>Size Class</th><th>DBH</th><th>Age</th></tr><tr><td>Quaking Aspen</td><td>62</td><td>Sapling</td><td>7</td><td>49</td></tr><tr><td>Balsam Fir</td><td>5</td><td>Sapling</td><td>6</td><td></td></tr><tr><td>Red Maple</td><td>20</td><td>Sapling</td><td>7</td><td></td></tr><tr><td>Paper Birch</td><td>5</td><td>Sapling</td><td>7</td><td></td></tr><tr><td>Northern White Cedar</td><td>3</td><td></td><td>10</td><td></td></tr><tr><td>White Pine</td><td>5</td><td></td><td>11</td><td></td></tr></table>								Canopy Species	% Cover	Size Class	DBH	Age	Quaking Aspen	62	Sapling	7	49	Balsam Fir	5	Sapling	6		Red Maple	20	Sapling	7		Paper Birch	5	Sapling	7		Northern White Cedar	3		10		White Pine	5		11	
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56	42200 - Natural White Pine	Sawtimber Well	2.4	135	51-80	N/A																																				
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Quaking Aspen	Medium	10 - 20 feet	10 - 20 feet																																							
57	4199 - Other Mixed Upland Deciduous	Poletimber Well	57.6	35	81-110	N/A	Very patchy and complex stand. Clones of dense and scattered aspen dominate patches, along with multi-stem red maple and black cherry dominating other portions of stand. Over all, BA varies greatly.Some of this stand could be harvested but it is very patchy on where, it is ready.																																			
<table><tr><th>Canopy Species</th><th>% Cover</th><th>Size Class</th><th>DBH</th><th>Age</th></tr><tr><td>Quaking Aspen</td><td>35</td><td>Seedling</td><td>7</td><td>35</td></tr><tr><td>Red Maple</td><td>27</td><td>Seedling</td><td>7</td><td></td></tr><tr><td>Red Oak</td><td>10</td><td>Seedling</td><td>7</td><td></td></tr><tr><td>White Pine</td><td>5</td><td></td><td>10</td><td></td></tr><tr><td>Black Cherry</td><td>23</td><td>Seedling</td><td>7</td><td></td></tr></table>								Canopy Species	% Cover	Size Class	DBH	Age	Quaking Aspen	35	Seedling	7	35	Red Maple	27	Seedling	7		Red Oak	10	Seedling	7		White Pine	5		10		Black Cherry	23	Seedling	7						
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																								
58	4130 - Aspen	Sapling Medium	18.0	11	Immature	N/A	Stand cut with sale 63-029-10-01 winter 2014/2015																																								
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59	42210 - Natural Red Pine	Sawtimber Well	5.7	95	51-80	N/A	Stand was recently harvested with Sale #63-012-07-01.																																								
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60	42110 - Planted Red Pine	Poletimber Well	19.2	64	1-50	N/A	Red pine stand was third row thinned recently with sale #63-012-07-01.																																								
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62	6120 - Lowland Cedar	Poletimber Well	11.0	127	81-110	N/A	OPIC - FMD: Stand buffers small stream.																																								
<table><tr><th>Canopy Species</th><th>% Cover</th><th>Size Class</th><th>DBH</th><th>Age</th></tr><tr><td>Blue Spruce</td><td>20</td><td>Seedling</td><td>6</td><td></td></tr><tr><td>Red Maple</td><td>5</td><td>Log</td><td>3</td><td></td></tr><tr><td>Northern White Cedar</td><td>65</td><td>Seedling</td><td>7</td><td>127</td></tr><tr><td>Balsam Fir</td><td>10</td><td>Sapling</td><td>5</td><td></td></tr></table>			Canopy Species	% Cover	Size Class	DBH	Age	Blue Spruce	20	Seedling	6		Red Maple	5	Log	3		Northern White Cedar	65	Seedling	7	127	Balsam Fir	10	Sapling	5																					
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Balsam Fir	10	Sapling	5																																												
63	42210 - Natural Red Pine	Sawtimber Well	10.2	128	81-110	N/A	OPIC - FMD: Thinned in 1998. Cut all aspen, maple and marked pine, left oak. W3 understory in spots. Stand is now an uneven aged stand of white pine, red pine, aspen, maple and oak. Saw log sized oak can be found scattered throughout stand. Some O2 in the understory.																																								
<table><tr><th>Canopy Species</th><th>% Cover</th><th>Size Class</th><th>DBH</th><th>Age</th></tr><tr><td>White Pine</td><td>15</td><td></td><td>18</td><td></td></tr><tr><td>Quaking Aspen</td><td>5</td><td>Seedling</td><td>8</td><td>27</td></tr><tr><td>Red Pine</td><td>80</td><td></td><td>18</td><td>128</td></tr></table>			Canopy Species	% Cover	Size Class	DBH	Age	White Pine	15		18		Quaking Aspen	5	Seedling	8	27	Red Pine	80		18	128	<table><tr><th>Sub-Canopy Species</th><th>Density</th><th>Avg. Height</th><th>Size</th></tr><tr><td>Red Maple</td><td>Low</td><td>10 - 20 feet</td><td>10 - 20 feet</td></tr><tr><td>Balsam Fir</td><td>Low</td><td>5 - 10 feet</td><td>5 - 10 feet</td></tr><tr><td>White Pine</td><td>Low</td><td>5 - 10 feet</td><td>5 - 10 feet</td></tr></table>				Sub-Canopy Species	Density	Avg. Height	Size	Red Maple	Low	10 - 20 feet	10 - 20 feet	Balsam Fir	Low	5 - 10 feet	5 - 10 feet	White Pine	Low	5 - 10 feet	5 - 10 feet					
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64	4110 - Sugar Maple Association	Poletimber Poor	31.5	47	1-50	N/A	Open stand with scattered black cherry and hawthorn.																																								
<table><tr><th>Canopy Species</th><th>% Cover</th><th>Size Class</th><th>DBH</th><th>Age</th></tr><tr><td>Black/Red (Hybrid) Oak</td><td>20</td><td></td><td>9</td><td></td></tr><tr><td>Black Cherry</td><td>80</td><td></td><td>5</td><td>47</td></tr></table>			Canopy Species	% Cover	Size Class	DBH	Age	Black/Red (Hybrid) Oak	20		9		Black Cherry	80		5	47	<table><tr><th>Sub-Canopy Species</th><th>Density</th><th>Avg. Height</th><th>Size</th></tr><tr><td>Hawthorn (spp.)</td><td>Full</td><td>10 - 20 feet</td><td>10 - 20 feet</td></tr></table>				Sub-Canopy Species	Density	Avg. Height	Size	Hawthorn (spp.)	Full	10 - 20 feet	10 - 20 feet																		
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68	6124 - Lowland Spruce-Fir	Poletimber Well	6.7	100	51-80	N/A	Comments from 2005: Stand of balsam fir with scattered quaking aspen, white pine and black oak. No access, due to L types. Could be habitat cut.3/25 Most of the aspen has fallen out of this stand.																																								
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																									
69	6120 - Lowland Cedar	Poletimber Well	1.2	105	81-110	N/A	OPIC - FMD: Balsam fir, cedar mix with some overtopping aspen and scattered black spruce. Some portions of the stand are flooded and the cedar is starting to die.3/25 Some of the cedar has fallen over with a wind event.																									
<table><tr><th>Canopy Species</th><th>% Cover</th><th>Size Class</th><th>DBH</th><th>Age</th></tr><tr><td>Quaking Aspen</td><td>10</td><td>Seedling</td><td>7</td><td></td></tr><tr><td>Balsam Fir</td><td>10</td><td>Sapling</td><td>7</td><td></td></tr><tr><td>Black Spruce</td><td>5</td><td>Seedling</td><td>7</td><td></td></tr><tr><td>Northern White Cedar</td><td>75</td><td>Seedling</td><td>7</td><td>105</td></tr></table>								Canopy Species	% Cover	Size Class	DBH	Age	Quaking Aspen	10	Seedling	7		Balsam Fir	10	Sapling	7		Black Spruce	5	Seedling	7		Northern White Cedar	75	Seedling	7	105
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Northern White Cedar	75	Seedling	7	105																												
70	6112 - Lowland Aspen	Sapling Well	72.5	24	Immature	N/A	OPIC - FMD: Habitat cut in 2001. Nice P3. Not many deer tracks in stand. Very difficult to get around due to the fallen trees.																									
<table><tr><th>Canopy Species</th><th>% Cover</th><th>Size Class</th><th>DBH</th><th>Age</th></tr><tr><td>Red Maple</td><td>2</td><td>Log</td><td>3</td><td></td></tr><tr><td>Quaking Aspen</td><td>96</td><td>Log</td><td>3</td><td>24</td></tr><tr><td>Balsam Fir</td><td>2</td><td>Log</td><td>3</td><td></td></tr></table>								Canopy Species	% Cover	Size Class	DBH	Age	Red Maple	2	Log	3		Quaking Aspen	96	Log	3	24	Balsam Fir	2	Log	3						
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Balsam Fir	2	Log	3																													
71	500 - Water	Unspecifed	11.6			No	2015: Beaver flooding.																									
72	6118 - Lowland Deciduous with Cedar	Sapling Well	27.9	21	Immature	N/A	Aspen regenerating well. Some low wet areas are flooded and have cattails. Heavy cedar blow down. No visible cedar regeneration (snow).																									
<table><tr><th>Canopy Species</th><th>% Cover</th><th>Size Class</th><th>DBH</th><th>Age</th></tr><tr><td>Red Maple</td><td>15</td><td>Pole</td><td>4</td><td></td></tr><tr><td>Quaking Aspen</td><td>65</td><td>Pole</td><td>4</td><td>21</td></tr><tr><td>Northern White Cedar</td><td>20</td><td>Seedling</td><td>7</td><td>119</td></tr></table>								Canopy Species	% Cover	Size Class	DBH	Age	Red Maple	15	Pole	4		Quaking Aspen	65	Pole	4	21	Northern White Cedar	20	Seedling	7	119					
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73	6120 - Lowland Cedar	Poletimber Well	98.5	125	111-140	N/A	OPIC - FMD: C6 with heavy balsam fir understory. Some 1-6 inch cedar seedlings noted in the 1995 inventory. None were found in 2005, due to heavy snow.3/25 Some cedar coming up in more open areas or south edge of stand next to L type.																									
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74	6112 - Lowland Aspen	Sapling Well	4.8	22	Immature	N/A	Stand regenerating to a fully stocked stand. Scattered pole cedar standing. A lot of residual cedar has blown down.																									
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Northern White Cedar	15	Seedling	8																													
75	4130 - Aspen	Sapling Well	12.0	22	Immature	N/A	OPIC - FMD: Final harvested in 2003. Nice E3 understory. Lots of deer browse. Most of the stand is above the browse line.																									
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
76	6112 - Lowland Aspen	Sapling Medium	7.6	21	81-110	N/A	Stand was harvested in 2003. Aspen regeneration with scattered pole size cedar. Cedar blow down present throughout.		
Canopy Species		% Cover	Size Class	DBH	Age				
Red Maple		3	Log	3					
Quaking Aspen		75	Log	3	21				
Northern White Cedar		7	Seedling	6	119				
Balsam Poplar		15	Log	3					
77	6112 - Lowland Aspen	Poletimber Well	7.9	111	81-110	N/A	Comments from 2005: Wet stand. Mix of red maple, paper birch, quaking aspen, BAM and some black oak on higher ground. Tag alder understory. Aspen is falling apart. No access due to L types and cedar swamps. Could habitat cut.		
Canopy Species		% Cover	Size Class	DBH	Age				
Quaking Aspen		20	Seedling	8					
Black/Red (Hybrid) Oak		5	Seedling	7					
Balsam Poplar		30	Seedling	7					
Red Maple		35	Seedling	7	111				
Paper Birch		10	Seedling	5					
78	611 - Lowland Deciduous Forest	Poletimber Well	4.9	111	111-140	N/A	Previous notes indicate this stand was Rx'd in 1995, but was not harvested to do lack of access. Previous inventory also indicates stand is converting to fir.		
79	429 - Mixed Upland Conifers	Unspecifed	4.2	105	51-80	N/A	OPIC - FMD: Island surrounded by L, consider burning.		
80	623 - Emergent Wetland	Unspecifed	3.3			No	OPIC - FMD: Old beaver flooding.		
81	623 - Emergent Wetland	Unspecifed	5.5			No	Beaver flooding		
83	4130 - Aspen	Sapling Medium	10.3	11	Immature	N/A	Stand cut with sale 63-029-10-01 Winter 2014/2015		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple		20	Log	1	11	Red Maple	Low	< 5 feet	< 5 feet
Northern Pin Oak		5	Seedling	6		Black Cherry	Low	< 5 feet	< 5 feet
Black Cherry		5	Seedling	6		Hawthorn (spp.)	Medium	10 - 20 feet	10 - 20 feet
Quaking Aspen		70	Log	1	11				
84	612 - Lowland Coniferous Forest	Poletimber Well	13.6	105	81-110	N/A	OPIC - FMD: Balsam fir, cedar mix with some overtopping aspen and scattered black spruce.		
85	612 - Lowland Coniferous Forest	Poletimber Well	17.8	105	81-110	N/A	OPIC - FMD: Balsam fir, cedar mix with some overtopping aspen and scattered black spruce.		
86	623 - Emergent Wetland	Unspecifed	6.3			No	OPIC - FMD: Marsh grass, cattails and some L along stream.		

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																			
87	6117 - Lowland Deciduous, Mixed Coniferous	Poletimber Well	6.6	111	81-110	N/A	OPIC - FMD: Wet stand. Mix of red maple, paper birch, quaking aspen, BAM and some black oak on higher ground. Tag alder understory. Aspen is falling apart. No access due to L types and cedar swamps.																																																			
88	6117 - Lowland Deciduous, Mixed Coniferous	Poletimber Well	16.6	111	81-110	N/A	OPIC - FMD: Wet stand. Mix of red maple, paper birch, quaking aspen, BAM and some black oak on higher ground. Tag alder understory. Aspen is falling apart. No access due to L types and cedar swamps.																																																			
89	6120 - Lowland Cedar	Poletimber Well	7.0	105	81-110	N/A	OPIC - FMD: Balsam fir, cedar mix with some overtopping aspen and scattered black spruce. Stream runs through south east portion of stand.																																																			
90	320 - Upland Shrub	Unspecifed	3.8			No	OPIC - FMD: Boarders L to the south and P3 to the north.																																																			
92	122 - Road/Parking Lot	Unspecifed	2.6			No	OPIC - FMD: Decker Road. Paved county road.																																																			
93	42200 - Natural White Pine	Sawtimber Medium	14.9	115	51-80	N/A	Stand was recently thinned with stand 33. Stand has large canopy white and red pine with free-to-grow smaller diameter mixed species throughout (conifer and deciduous). Stand should be classified as a mixed species stand in near future.																																																			
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94	4123 - Red Oak		4.0	102	1-50	N/A	OPIC - FMD: Stand was cut with sale #63-036-09-01 Stand was infected with Oak Wilt and was trenched prior to harvest. MiFI 1/15- pockets of pole size oak, which most of the stand has scattered large oak with regeneration coming in.																																																			
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95	6225 - Bog	Unspecifed	1.4			No																																																				
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96	4191 - Mixed Upland Deciduous with Conifer	Poletimber Well	4.7	47	111-140	N/A	Mixed aspen stand, upland and wet in some spots.North end of stand is heavy to white pine																																																			
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
97	6220 - Alder/Willow	Unspecified	0.9			No	
98	42121 - Planted Jack Pine, Mixed Deciduous	Sapling Medium	15.2	15	Immature	N/A	This was cut last year of entry and trenched and planted to jack pine
99	4130 - Aspen	Sapling Well	2.1	15	Immature	N/A	Stand was part of larger pine stand that was third row thinned in 2009-2010 and final harvested in 2019. Aspen is pocket that was within the pine stand when final harvested.
100	4191 - Mixed Upland Deciduous with Conifer	Unspecified	19.1	6	Immature	N/A	Stand was a jack pine stand harvest with sale 63-031-17-01 Redjacket Pine.
109	4199 - Other Mixed Upland Deciduous		7.1	57	51-80	N/A	OPIC - FMD: OI Stand Year Origin was 1967. 1/21/15- Open grown low quality stand. Old dump on western edge.
121	4130 - Aspen	Sapling Well	10.0	15	Immature	N/A	OPIC - FMD: Mix of R6 and A5. Third row thin red pine. Do patch clearcuts in portions of the stand with heavy maple and large aspen. Do not cut healthy oak. Stand was prescribed 20 years and was not harvested.

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments			
176	6122 - Black Spruce	Poletimber Medium	16.0	119	81-110	N/A				
	Canopy Species	% Cover	Size Class	DBH	Age					
	Balsam Fir	20	Seedling	6						
	Black Spruce	50	Seedling	8	119					
	Northern White Cedar	30	Seedling	8						
225	6120 - Lowland Cedar	Poletimber Well	25.5	105	111-140	N/A	Mostly cedar dominated with pockets dominated by hemlock. Trace of spruce and tamarack.			
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
	Tamarack	2	Sapling	6		Balsam Fir		Medium	< 5 feet	< 5 feet
	Black Spruce	2	Seedling	6						
	Northern White Cedar	96	Seedling	7	105					
402	330 - Low-Density Trees	Unspecified	4.6			No	Grass opening area with pine, aspen and maple filling in. Some seedlings have been cut by adjacent landowner for shooting lanes.			