Compartment Review Presentation

Cadillac Forest Management Unit

Compartment **63116**
Entry Year **2028**
Acreage: **2,563**
County: **Missaukee**
Management Area: **Cadillac Moraines**

Stand Examiner: Andrew Krugh

Legal Description:

T24N, R7W, Secs. 24,25,26,27,34,35,36
T24N, R6W, Secs. 19,30

Identified Planning Goals:

Vegetation management in the Cadillac Moraines Management Area (MA) will provide forest products; maintain or enhance wildlife habitat; protect areas of unique threatened, endangered and special concern species; and provide for forest-based recreational uses. 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. Expected trends within this 10-year planning period are the need to manage exotic species (especially Phragmites and glossy buckthorn), the need to continue to manage cover types for a balanced age-class distribution and an expected increase in recreation pressure.

Soil and topography:

Kalkaska, rubicon sands.

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

Four miles west of Moorestown, this compartment is a mixture of private and state land in and around the compartment. Private land has both permanent and seasonal residents. Land use in the compartment is hunting, trapping, snowmobiling and cross-country skiing.

Unique Natural Features:

Potential listings for great blue heron rookery, osprey, eagle, goshawk, red-shouldered hawk, massasauga, wood turtle, and Blanding's turtle.

Archeological, Historical, and Cultural Features:

Special Management Designations or Considerations:

Watershed and Fisheries Considerations:

A number of small unnamed tributaries to the West Branch of the Muskegon River and Haymarsh Creek flow through Compartment 116. The West Branch of the Muskegon River and Haymarsh Creek are both Designated Trout Streams with self-sustaining populations of brook trout.

Wildlife Habitat Considerations:

Featured wildlife species are deer, bear, pileated woodpecker, and ruffed grouse. Management emphasis will be on maintenance of large, contiguous blocks of northern hardwoods for landscape composition, promotion of vertical structure and shrub layer with stands, retention of large diameter trees, and maintenance of aspen and openings. (Victory, 5/24/16)

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 operation is approximately one mile north of the compartment, and there appears to be some good potential for sand and gravel within the compartment on the uplands. Some past production of hydrocarbons has occurred just north of the compartment, but the nearest active production is more than one mile away, and the nearest active State mineral leases are about one mile away. Multiple drilling permits were issued withing the compartment in 2010 but were subsequently terminated and wells were not drilled. There may still be some potential for future oil & gas exploration and/or development within the compartment. The State does not own all the mineral rights within the compartment. Because the mineral estate is the dominant estate, the surface owner must provide the owner of the mineral rights reasonable access to the surface for mineral exploration and development.

If you need assistance with this report, please email
DNR-Forestry@michigan.gov or call 517-284-5900

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. Also indicated are forest roads and trails under the jurisdiction of the DNR that are proposed for abandonment. These roads were determined to be in excess of the access needs in the area, are a threat to the resources, or are a concern environmentally.

Survey Needs:

A survey request has been submitted.

Recreational Facilities and Opportunities:

No facilities. Local landowners use the trails throughout the compartment for cross-country skiing and snowmobiling. There are several illegal ski trails on the east side of the compartment. There are no designated recreational trails within this compartment. (T.N. 1/29/16)

Fire Protection:

This compartment primarily hardwoods, with a few small areas of spruce and jack pine. Access would be fairly good for suppression equipment. There are numerous areas of private property, which increases the urban interface concerns.

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**

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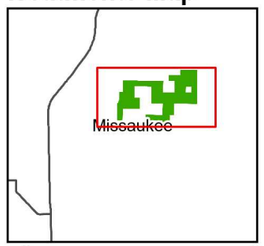
Cover Type & Treatments Map

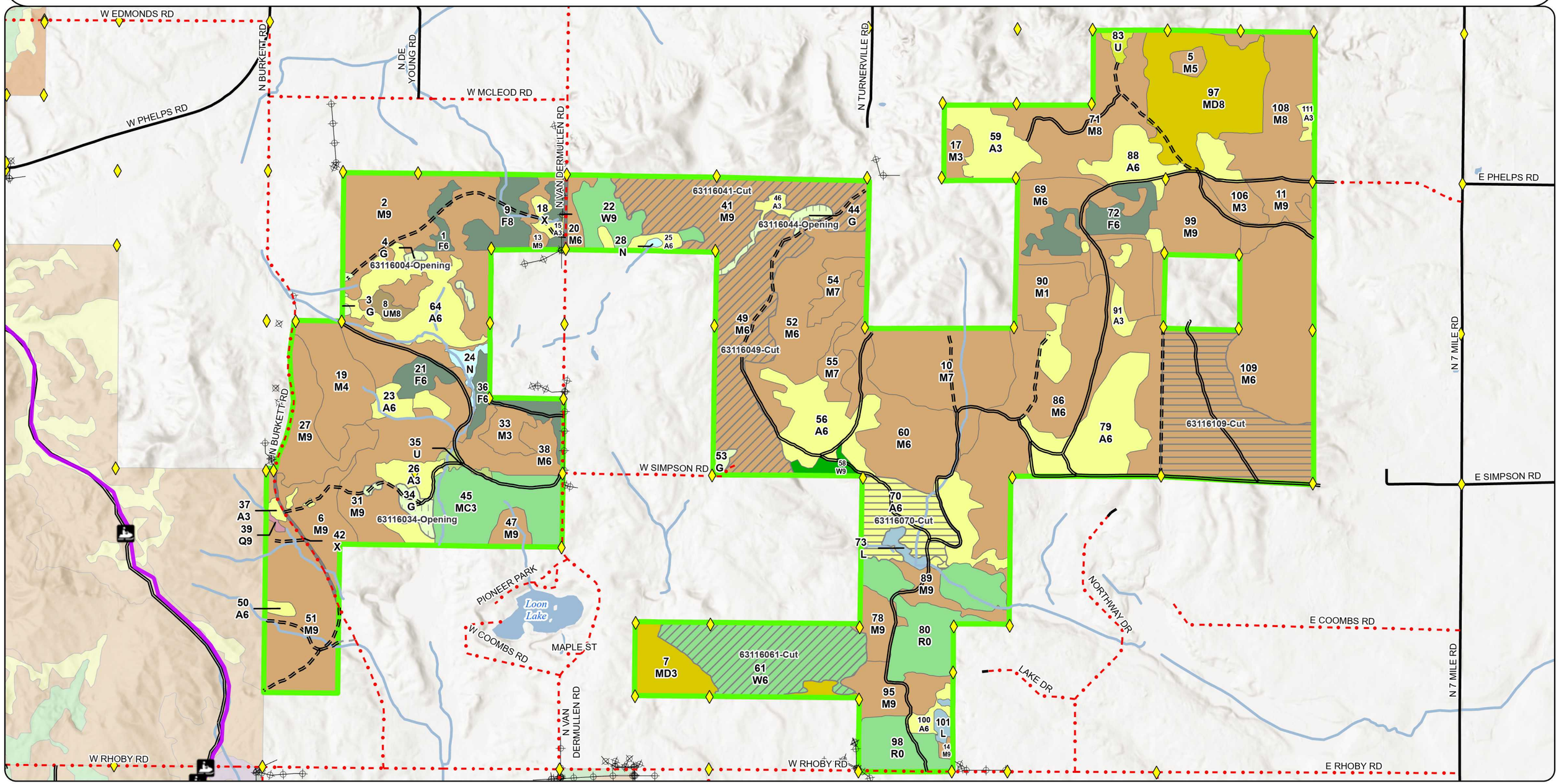


Compartment: 63116
T24N R06W Sec. 19, 30
T24N R07W Sec. 24-27, 34-36
County: Missaukee
Unit: Cadillac
Mgmt. Area: Cadillac Moraines
YOE: 2028
Acres: 2,563 GIS Calculated
Examiner: Andrew Krugh
Date Exported: 7/16/2026
Map Phase: Web Post

N

0 0.5 1 Miles

- Survey Grade Corners
- Designated Snowmobile
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Federal / State / County - Paved Road
- County - Gravel Road
- Private - Dirt / Gravel Road
- Streams
- Lakes and Rivers
- Electric
- Compartment Boundary
- Clearcut
- Thinning
- Openings Mgmt.
- 411 - Northern Hardwood
- 413 - Aspen
- 419 - Mixed Upland Decidous
- 421 - Planted Pines
- 422 - Natural Pines
- 423 - Other Upland Conifers
- 430 - Upland Mixed Forest
- 612 - Lowland Coniferous Forest
- 122 - Road/Parking Lot
- 310 - Herbaceous Openland
- 320 - Upland Shrub
- 330 - Low Density Trees
- 622 - Lowland Shrub
- 623 - Emergent Wetland



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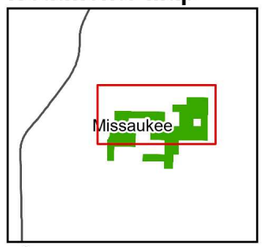

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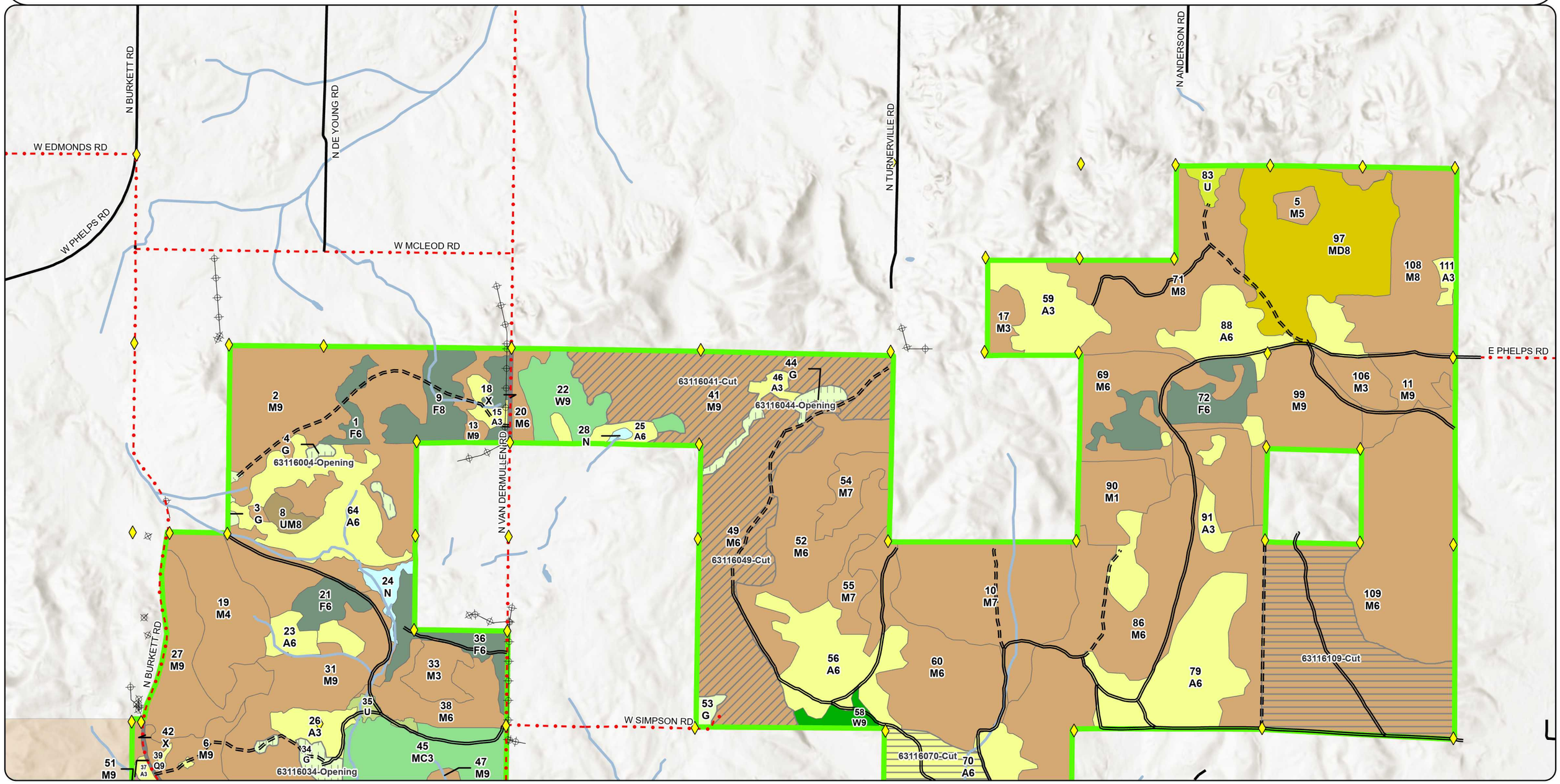

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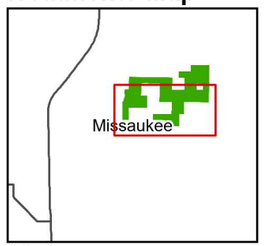

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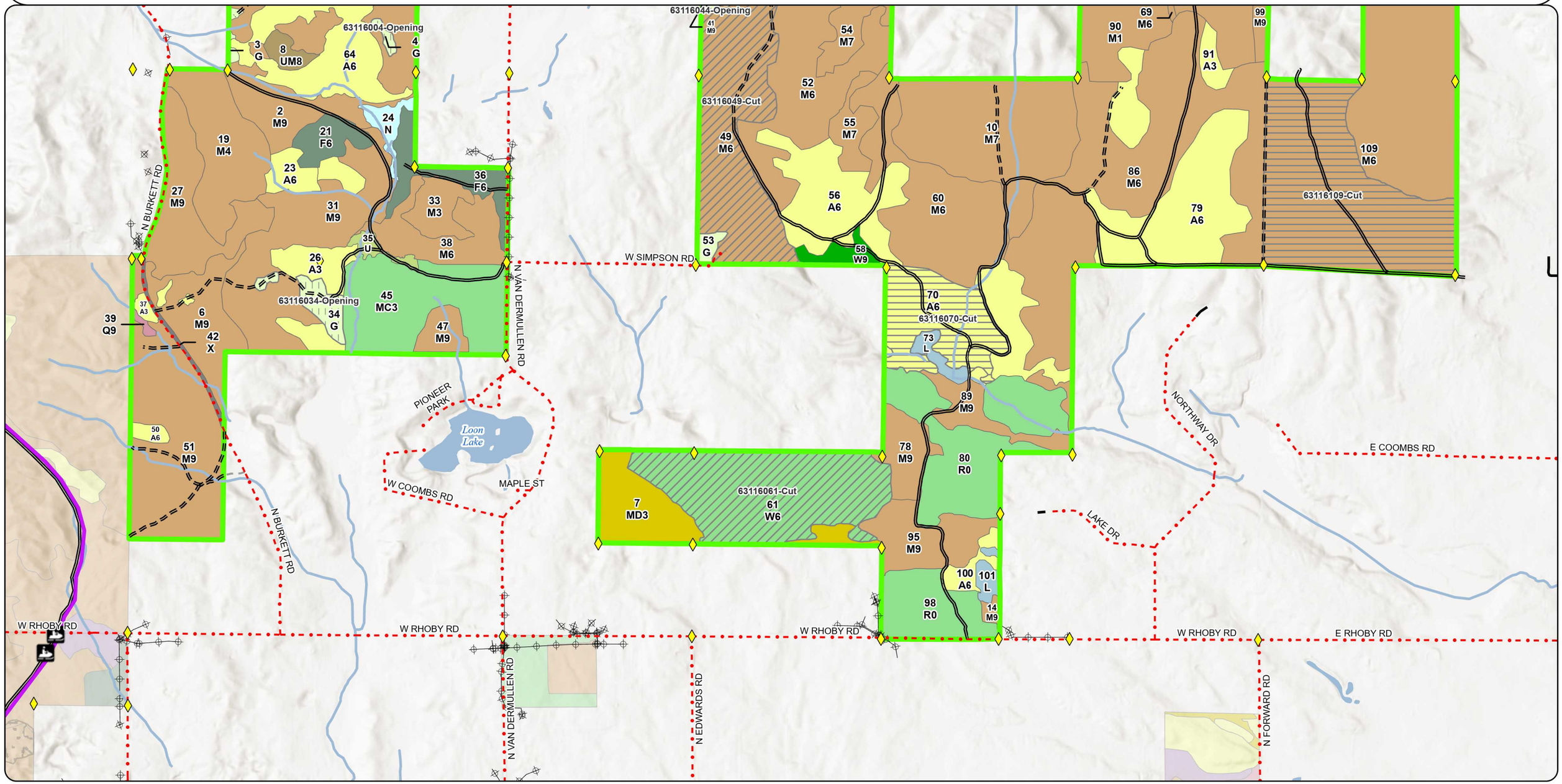
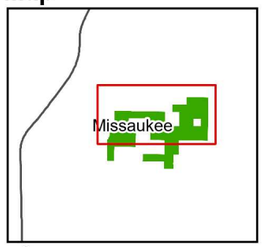


Stand Boundary Map



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- Compartment Stand Yellow Outline (PD)

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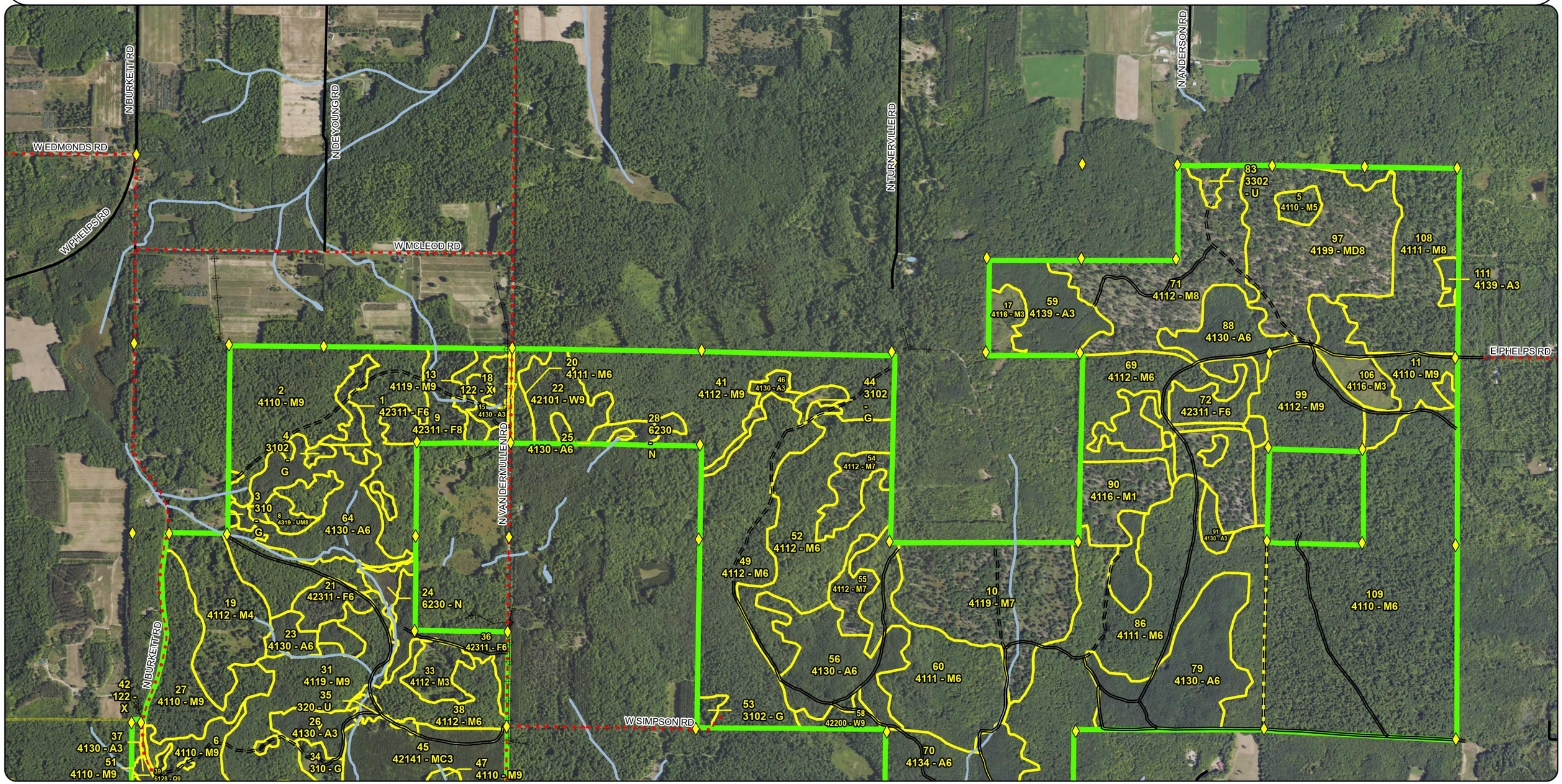

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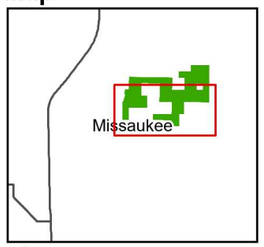

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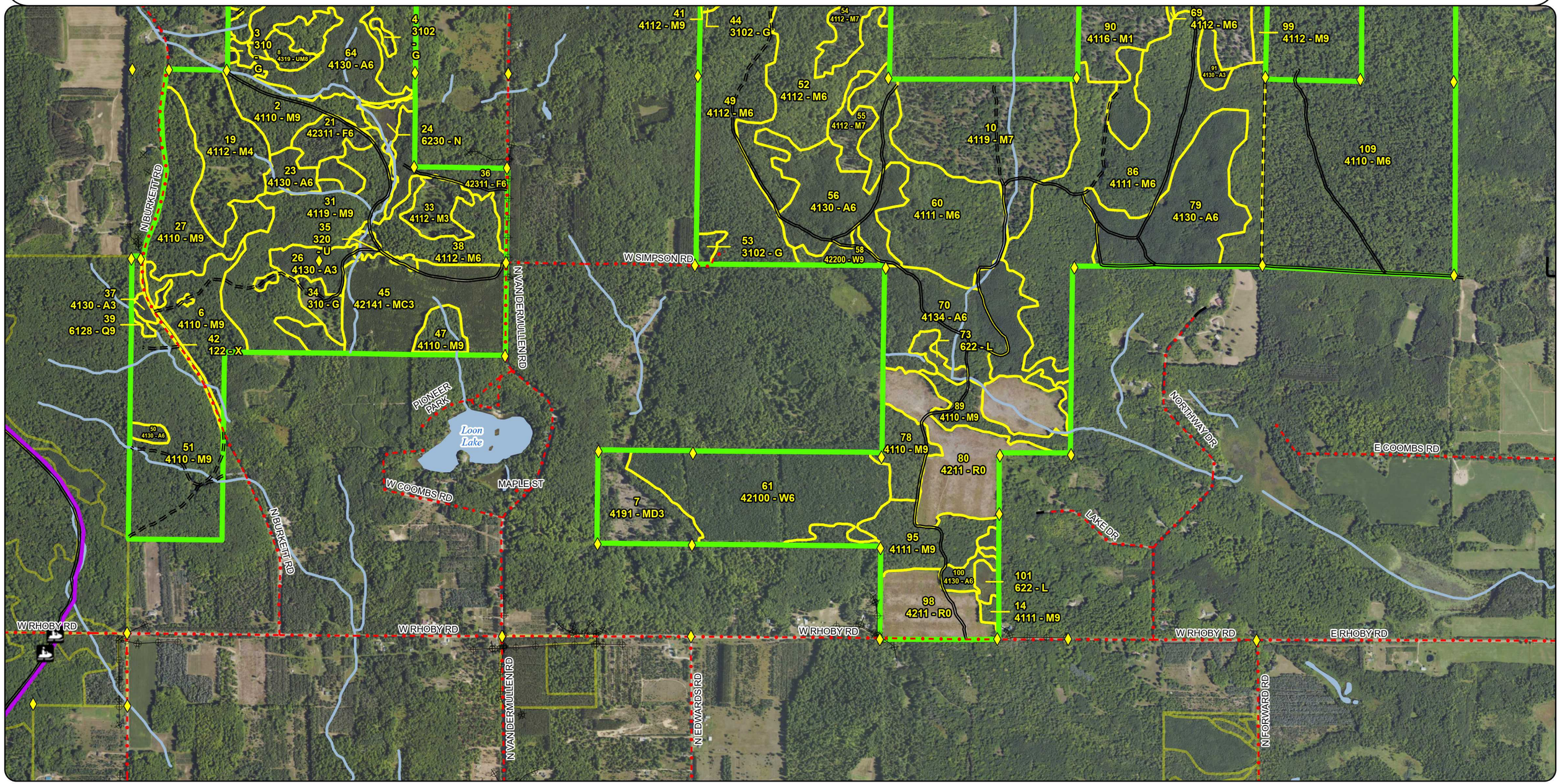
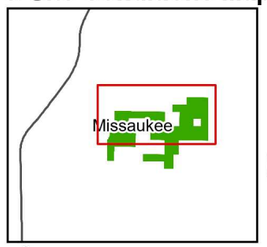


Special Conservation Areas & Site Conditions Map



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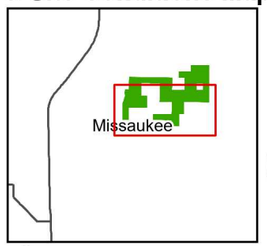
N BURKETT RD
W EDMONDS RD
W PHELPS RD
N DE YOUNG RD
W MCLEOD RD
N TURNERVILLE RD
N ANDERSON RD
E PHELPS RD
N VAN DERMULLEN RD
W SIMPSON RD
N BURKETT RD

2 M9
1 F6
4 G
3 G
8 UM8
64 A6
9 F8
18 X
13 M9
15 A3
20 M6
22 W9
28 N
25 A6
41 M9
46 A3
44 G
54 M7
52 M6
49 M6
55 M7
56 A6
60 M6
53 G
58 W9
70 A6
10 M7
83 U
5 M5
97 MD8
108 M8
111 A3
71 M8
59 A3
17 M3
88 A6
69 M6
72 F6
99 M9
106 M3
11 M9
90 M1
91 A3
86 M6
79 A6
109 M6
19 M4
21 F6
23 A6
24 N
27 M9
31 M9
36 F6
33 M3
38 M6
35 U
26 A3
34 G
45 MC3
47 M9
39 Q9
42 X
51 M9
37 A3
6 M9

Special Conservation Areas & Site Conditions Map



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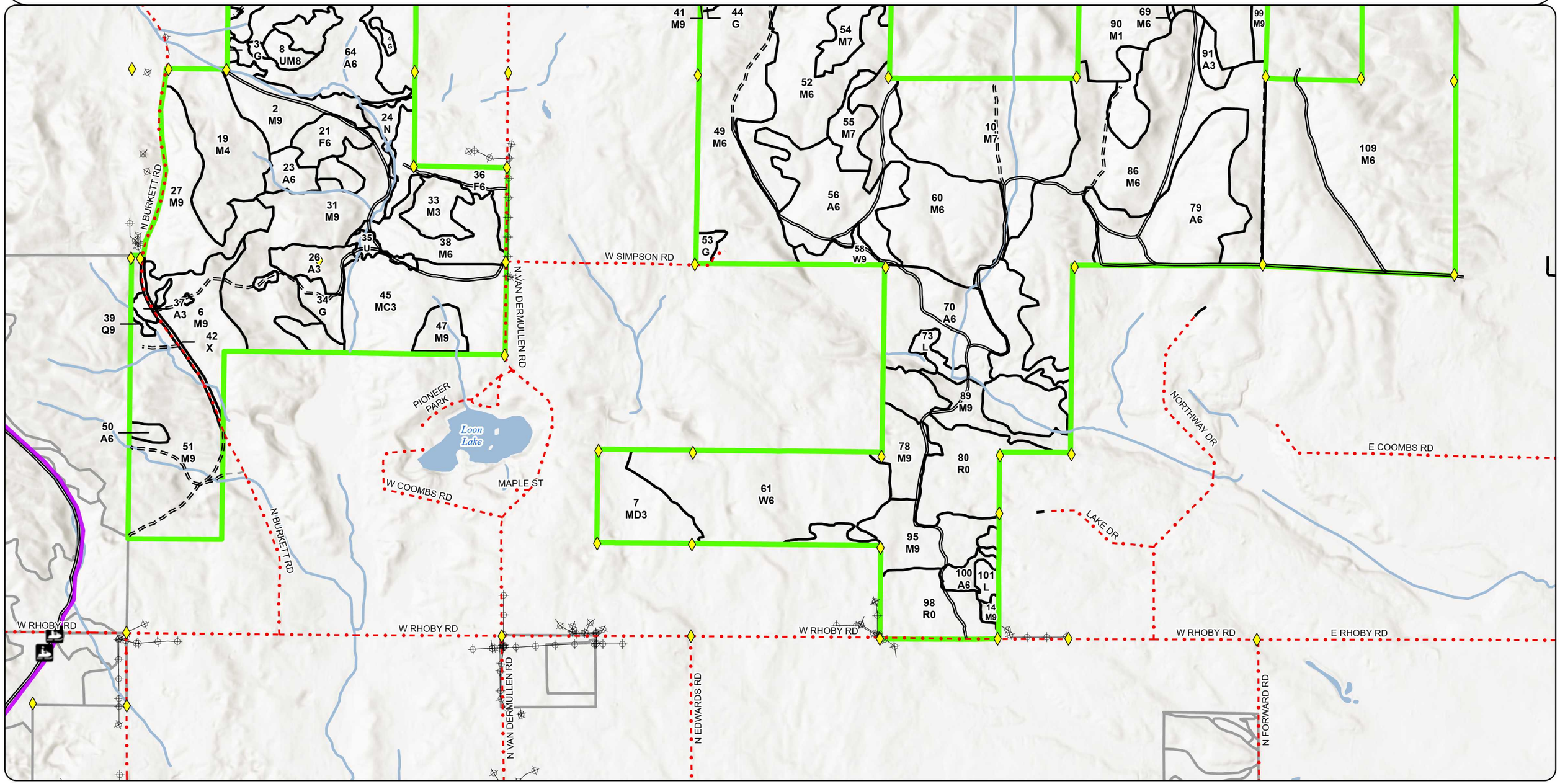

Report 1 – Total Acres by Cover Type and Age Class

Cadillac Mgt. Unit **Compartment 116** **Year of Entry 2028**

Andrew Krugh : Examiner

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	0	0	115	198	44	11	0	0	0	0	0	0	0	0	0	0	0	**368**
Herbaceous Openland	24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**24**
Low-Density Trees	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**4**
Lowland Conifers	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	**1**
Lowland Shrub	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**9**
Marsh	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**7**
Mixed Upland Deciduous	0	34	0	0	0	0	0	0	0	0	0	88	0	0	0	0	0	0	**122**
Northern Hardwood	0	84	0	0	0	0	10	83	74	157	1061	139	0	0	0	0	0	43	**1650**
Planted Mixed Pines	0	0	59	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**59**
Red Pine	91	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**91**
Upland Mixed Forest	0	0	0	0	0	0	0	0	5	0	0	0	0	0	0	0	0	0	**5**
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	95	0	0	0	0	0	0	0	0	0	0	**95**
Urban	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**5**
White Pine	0	0	0	0	0	0	0	111	0	0	7	0	0	0	0	0	0	0	**118**
Total	**144**	**118**	**59**	**115**	**198**	**44**	**21**	**289**	**79**	**157**	**1069**	**227**	**0**	**0**	**0**	**0**	**0**	**43**	**2562**

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Report 2 – Treatment Summary

Cadillac Mgt. Unit
Year of Entry: 2028

Compartment 116
Total Compartment Acres: 2,563

Acres of Harvest

Commercial Harvest - 1164
Harvests with Site Condition - 0
Next Step Harvest - 0
Habitat Cut - 0

Cover Type by Harvest Method

	Clearcut	Selection	Patch Clearcut	Seed Tree	Shelterwood	Thinning	Overstory Removal	Salvage	Other	Total Acres
Aspen	43	0	0	0	0	0	0	0	0	**43**
Northern Hardwood	115	0	0	0	0	187	0	0	0	**302**
White Pine	0	0	0	0	0	86	0	0	0	**86**
Total	**158**	**0**	**0**	**0**	**0**	**273**	**0**	**0**	**0**	**431**

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	431	0	0	0	0	0	0	0	0	**451**
Next Step	0	115	115	0	0	230	273	0	0	**734**
Total	**431**	**115**	**115**	**0**	**0**	**230**	**273**	**0**	**0**	**1184**

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Proposed Treatments:

Stand	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
4	63116004-Opening	3.4	3102 - Grass	99			Openings Mgmt.	Openings Mgmt.	310 - Herbaceous Openland	Previous Inventory	No

Prescription Specs: Cut and/or girdle some trees and brush to keep open

Next Step Treatments:

Acceptable Regen:

Other Comment:

Site Condition:

Proposed Start Date: 10/01/2027

34	63116034-Opening	8.8	310 - Herbaceous Openland	99			Openings Mgmt.	Openings Mgmt.	310 - Herbaceous Openland	Previous Inventory	No

Prescription Specs: Cut and or girdle some trees and brush to keep open

Next Step Treatments:

Acceptable Regen:

Other Comment:

Site Condition:

Proposed Start Date: 10/01/2027

41	63116041-Cut	88.9	4112 - Maple, Beech, Cherry Association	9	95	111-140	Harvest	Thinning	4112 - Maple, Beech, Cherry Association	Planting Record	No

Prescription Specs: Thinn stand down to an average of 80 BA. Manage for best tree in place and focus on promoting Maple, Cherry, and Oak.

Next Step Treatments:

Acceptable Regen:

Other Comment:

Site Condition:

Proposed Start Date: 10/01/2027

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Stand	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
44	63116044-Opening	7.4	3102 - Grass	99			Openings Mgmt.	Openings Mgmt.	310 - Herbaceous Openland	Previous Inventory	No

Prescription Specs: Cut and or girdle some trees and brush to keep open

Next Step Treatments:

Acceptable Regen:

Other Comment:

Site Condition:

Proposed Start Date: 10/01/2027

49	63116049-Cut	98.2	4112 - Maple, Beech, Cherry Association	6	85	111-140	Harvest	Thinning	4112 - Maple, Beech, Cherry Association	Planting Record	No

Prescription Specs: Thin stand down to an average of 80 BA. Manage for best tree in place and focus on promoting Maple, Cherry, and Oak.

Next Step Treatments:

Acceptable Regen:

Other Comment:

Site Condition:

Proposed Start Date: 10/01/2027

61	63116061-Cut	85.7	42100 - Planted White Pine	6	64	171-200	Harvest	Thinning	4210 - Planted White Pine	Planting Record	No

Prescription Specs: Thin stand down to 100 BA focusing on converting away from a white pine plantation.

Next Step Treatments:

Acceptable Regen:

Other Comment:

Site Condition:

Proposed Start Date: 10/01/2027

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Stand	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
70	63116070-Cut	43.0	4134 - Aspen, Spruce/Fir	6	49	Unspecified	Harvest	Clearcut	413 - Aspen	Planting Record	No

Prescription Specs: Final harvest leaving 3 to 10 percent retention. leave 1-5 mature white pine and oak where present. Leave all Hemlock and Cedar. Area may vary is size and shape depending on ground conditions when being prepped. Include grouse specs.

Next Step Treatments: Monitoring, Natural Regen (Re-Inventory)

Acceptable Regen: Moderate to fully stocked aspen, maple, oak and white pine.

Other Comment:

Site Condition:

Proposed Start Date: 10/01/2027

109	63116109-Cut	115.1	4110 - Sugar Maple Association	6	95	81-110	Harvest	Clearcut	42110 - Planted Red Pine	Planting Record	No

Prescription Specs: Clearcut with retention around areas undesirable for pine planting. Cut all species 2 inches DBH and greater.

Next Step Treatments: Pesticide, Aerial - Site Prep; Pesticide, Drone - Site Prep; Planting, Unfurrowed; Monitoring, Artificial Regen; Monitoring, Artificial Regen; SitePrep, Mastication

Acceptable Regen: Planted red pine with some oak and sugar maple

Other Comment:

Site Condition:

Proposed Start Date: 10/01/2027

Total Treatment Acreage Proposed: **450.5**

If you need assistance with this report, please email DNR-Forestry@michigan.gov or call 517-284-5900

Report 4 – Site Conditions

Cadillac Mgt. Unit

Andrew Krugh: Examiner

Compartment: 116

Year of Entry: 2028

Availability for Management

Total Acres	Acres Available	*Acres Avail With Condition*	Acres Not Available	Dominant Site Conditions	5G
368	369	*0*	0	**Aspen**	
24	24	*0*	0	**Herbaceous Openland**	
4	4	*0*	0	**Low-Density Trees**	
1	1	*0*	0	**Lowland Conifers**	
9	9	*0*	0	**Lowland Shrub**	
7	7	*0*	0	**Marsh**	
121	121	*0*	0	**Mixed Upland Deciduous**	
1614	1609	*5*	0	**Northern Hardwood**	5
59	59	*0*	0	**Planted Mixed Pines**	
91	91	*0*	0	**Red Pine**	
5	5	*0*	0	**Upland Mixed Forest**	
4	4	*0*	0	**Upland Shrub**	
94	94	*0*	0	**Upland Spruce/Fir**	
5	5	*0*	0	**Urban**	
118	118	*0*	0	**White Pine**	
2,525	2,520	*5*		Total Forested Acres	5
	100%	*0%*	0%	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
2		**Unavailable**	**5E: Long-Term Retention**	24	Unspecified	Unspecified	Unspecified	Unspecified
	Comments:							
5		**Available**	**5G: Research Study**	5	Unspecified	Unspecified	Unspecified	Unspecified
	Comments: Walters Research Project: Long-term beech regeneration monitoring, up to 20 years (through 2039)							

If you need assistance with this report, please email DNR-Forestry@michigan.gov or call 517-284-5900

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

Comments

If you need assistance with this report, please email DNR-Forestry@michigan.gov or call 517-284-5900

Report 7 – Stands

Compartment: 116
Year of Entry: 2028

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
1	42311 - Planted Spruce, Mixed Deciduous	Poletimber Well	7.5	65	51-80	N/A	Planted white spruce with pockets of northern hwd. Narrow rows. Has been thinned. Now filling in with hardwoods. Leave as is. Some mortality but hardwoods will take over.
2	4110 - Sugar Maple Association	Sawtimber Well	135.2	90	111-140	N/A	West side of stand contains some wet seeps. Treated with sale 63-037-08-01 Will be high quality nest time
3	310 - Herbaceous Openland	None	1.4			No	Starting to fill in with sumac. Edge areas wet. North area used as turn around during previous sale.
4	3102 - Grass	None	3.4			No	Grass and ferns with some aspen moving in on edge from recent cuts
5	4110 - Sugar Maple Association	Poletimber Medium	9.8	55	51-80	N/A	This was a salvage sale in 2015 of dead and declining oak.#63-014-15-02
6	4110 - Sugar Maple Association	Sawtimber Well	31.3	75	81-110	N/A	Some american chestnut trees are located in the north west corner of stand. Treated with sale 630160801. Harvested 2021 Burkett Revisited 63-032-18.

Stand 1

Canopy Species	% Cover	Size Class	DBH	Age
Sugar Maple	20	Pole	8	
White Spruce	70	Pole/Log	8	65
Beech	5	Pole	6	
Red Oak	5	Pole/Log	8	

Sub-Canopy Species	Density	Avg. Height	Size
Beech	High	5 - 10 feet	5 - 10 feet
White Spruce	Low	< 5 feet	< 5 feet

Stand 2

Canopy Species	% Cover	Size Class	DBH	Age
Sugar Maple	80	Log/Pole	10	90
Red Maple	5	Pole/Log	8	
Red Oak	5	Log/Pole	10	
Beech	5	Pole/Log	8	
Black Cherry	5	Pole	8	

Sub-Canopy Species	Density	Avg. Height	Size
Black Raspberry	Full	< 5 feet	< 5 feet
Ironwood	Medium	5 - 10 feet	5 - 10 feet
Beech	High	5 - 10 feet	5 - 10 feet

Stand 3

Sub-Canopy Species	Density	Avg. Height	Size
Sumac	Medium	5 - 10 feet	5 - 10 feet
Black Cherry	Low	10 - 20 feet	10 - 20 feet

Stand 5

Canopy Species	% Cover	Size Class	DBH	Age
Sugar Maple	90	Pole/Sapling	6	55
White Ash	5	Pole	6	
Black Cherry	5	Pole	6	

Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	Low	5 - 10 feet	5 - 10 feet
Sugar Maple	Low	5 - 10 feet	5 - 10 feet

Stand 6

Canopy Species	% Cover	Size Class	DBH	Age
Sugar Maple	40	Log/Pole	10	75
Basswood	40	Log/Pole	10	
Black Cherry	20	Log/Pole	10	

Sub-Canopy Species	Density	Avg. Height	Size
Beech	High	5 - 10 feet	5 - 10 feet
Black Raspberry	Full	< 5 feet	< 5 feet
Ironwood	Medium	5 - 10 feet	5 - 10 feet
White Pine	Low	5 - 10 feet	5 - 10 feet

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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
7	4191 - Mixed Upland Deciduous with Conifer	Sapling Well	33.6	5	Immature	N/A	Cut in 2021. Rhoby Mixture 63-024-18.

Canopy Species	% Cover	Size Class	DBH	Age
White Pine	40	Sapling	2	5
Sugar Maple	30	Sapling	1	5
Black Cherry	10	Sapling	1	
Quaking Aspen	20	Sapling	1	

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
8	4319 - Mixed Upland Forest	Sawtimber Medium	5.3	75	51-80	N/A	Very mixed stand lo quality small acre ash is dead

Canopy Species	% Cover	Size Class	DBH	Age
White Pine	50	Log/Pole	10	75
Red Oak	15	Log/Pole	10	
Red Maple	15	Pole/Log	8	
Bigtooth Aspen	10	Pole/Log	8	
Black Cherry	5	Pole/Log	8	
White Ash	5	Pole	8	

Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	Low	5 - 10 feet	5 - 10 feet
Beech	Medium	5 - 10 feet	5 - 10 feet
Black Cherry	Low	5 - 10 feet	5 - 10 feet
White Pine	Low	5 - 10 feet	5 - 10 feet

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
9	42311 - Planted Spruce, Mixed Deciduous	Sawtimber Medium	28.6	65	81-110	N/A	

Canopy Species	% Cover	Size Class	DBH	Age
Sugar Maple	10	Pole/Log	9	
White Spruce	60	Log/Pole	10	65
Beech	5	Pole	7	
Red Maple	25	Pole/Log	9	

Sub-Canopy Species	Density	Avg. Height	Size
Ironwood	Low	< 5 feet	< 5 feet
Blackberry/Raspberry	Full	5 - 10 feet	5 - 10 feet
Beech	Medium	5 - 10 feet	5 - 10 feet
Red Maple	Medium	5 - 10 feet	5 - 10 feet

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
10	4119 - Mixed Northern Hardwoods	Sawtimber Poor	83.2	65	1-50	N/A	Stand was cut in 2020 winter, all maple and oak was left, objective of converting stand to hardwoods. Was white spruce plantation.

Canopy Species	% Cover	Size Class	DBH	Age
Red Oak	30	Log	10	
Black Cherry	5	Pole/Log	8	
Red Maple	35	Log	12	65
Sugar Maple	30	Pole/Log	8	

Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	Medium	5 - 10 feet	5 - 10 feet
Blackberry/Raspberry	Low	< 5 feet	< 5 feet
White Spruce	Low	< 5 feet	< 5 feet
Beech	Medium	5 - 10 feet	5 - 10 feet

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
11	4110 - Sugar Maple Association	Sawtimber Well	20.7	95	81-110	N/A	Treated with sale 63-013-08-01 North part of stand had beech left in it. Mid to south part had most beech removed. Beech scale was just being discovered as sale was being harvested.

Canopy Species	% Cover	Size Class	DBH	Age
Sugar Maple	70	Log/Pole	10	95
Red Maple	10	Pole/Log	9	
Basswood	5	Log/Pole	10	
Beech	10	Pole/Log	8	
Black Cherry	5	Pole/Log	8	

Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple	Low	5 - 10 feet	5 - 10 feet
Beech	High	5 - 10 feet	5 - 10 feet
Red Maple	Low	10 - 20 feet	10 - 20 feet
Bigtooth Aspen	Low	5 - 10 feet	5 - 10 feet
Ironwood	Low	5 - 10 feet	5 - 10 feet

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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
13	4119 - Mixed Northern Hardwoods	Sawtimber Well	7.8	95	51-80	N/A	

Canopy Species	% Cover	Size Class	DBH	Age
Sugar Maple	50	Log/Pole	10	95
Red Maple	5	Pole	8	
Basswood	5	Pole/Log	8	
White Ash	10	Pole/Log	8	
Beech	15	Pole/Log	8	
Black Cherry	5	Pole	8	
Red Oak	5	Log/Pole	12	
White Spruce	5	Pole	6	

Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple	Low	5 - 10 feet	5 - 10 feet
Beech	High	5 - 10 feet	5 - 10 feet
Bigtooth Aspen	Low	5 - 10 feet	5 - 10 feet
Ironwood	Medium	5 - 10 feet	5 - 10 feet

14	4111 - S.Maple, Hard Mast Association	Sawtimber Well	2.0	95	81-110	N/A	Thinned in 2000.

Canopy Species	% Cover	Size Class	DBH	Age
Sugar Maple	60	Log/Pole	10	95
Red Maple	5	Log/Pole	10	
Basswood	5	Log/Pole	10	
Quaking Aspen	10	Log/Pole	10	
Beech	10	Log/Pole	10	
Black Cherry	10	Log/Pole	12	

Sub-Canopy Species	Density	Avg. Height	Size
Beech	High	5 - 10 feet	5 - 10 feet
Ironwood	Full	5 - 10 feet	5 - 10 feet
Sugar Maple	Low	>20 feet	>20 feet

15	4130 - Aspen	Sapling Well	5.5	24	Unspecified	N/A	Cut in 2002

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	10	Sapling/Pole	3	
Quaking Aspen	10	Sapling/Pole	3	
Bigtooth Aspen	70	Sapling/Pole	3	24
Black Cherry	5	Sapling/Pole	3	
Beech	5	Sapling/Pole	3	

Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	Medium	Variable	Variable
Beech	Low	5 - 10 feet	5 - 10 feet
Bigtooth Aspen	Medium	5 - 10 feet	5 - 10 feet
Cherry (spp.)	Medium	5 - 10 feet	5 - 10 feet

17	4116 - Mixed N. Hardwood - Aspen	Sapling Well	9.6	5	Immature	N/A	This stand is a good candidate to consider clearcutting and monitor. The BA is somewhat low but the trees are mature and the regen right now is mostly beech and iron wood. Could mark a few mast oak to leave. (SE 2016)This stand was cut with Shady Hardwood 63-004-18. This unit was cut in fall/winter of 2020.

Canopy Species	% Cover	Size Class	DBH	Age
Sugar Maple	5	Sapling	1	
Red Maple	30	Sapling	1	5
Bigtooth Aspen	30	Sapling	1	5
Beech	15	Sapling	1	
Yellow Birch	5	Sapling	1	
Red Oak	5	Sapling	1	
Black Cherry	10	Sapling	1	

18	122 - Road/Parking Lot	None	1.8			No	Van Dermullen Road

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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
19	4112 - Maple, Beech, Cherry Association	Poletimber Poor	43.1	45	1-50	N/A	Cut in 2021. Burkett Revisited "63-032-18".

Canopy Species	% Cover	Size Class	DBH	Age
Sugar Maple	45	Pole/Log	8	45
Red Maple	45	Pole/Log	8	
Black Cherry	10	Pole/Log	8	

Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	Medium	5 - 10 feet	5 - 10 feet
Beech	Low	5 - 10 feet	5 - 10 feet
Sugar Maple	Medium	5 - 10 feet	5 - 10 feet
Black Raspberry	Medium	5 - 10 feet	5 - 10 feet

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
20	4111 - S.Maple, Hard Mast Association	Poletimber Well	7.5	88	81-110	N/A	Treated with sale 63-047-08-01

Canopy Species	% Cover	Size Class	DBH	Age
Sugar Maple	70	Pole/Log	8	88
Red Maple	15	Pole/Log	8	
Beech	10	Pole	8	
Black Cherry	5	Pole/Log	8	

Sub-Canopy Species	Density	Avg. Height	Size
Beech	High	5 - 10 feet	5 - 10 feet
Ironwood	Medium	5 - 10 feet	5 - 10 feet
White Pine	Low	10 - 20 feet	10 - 20 feet
Blackberry/Raspberry	Medium	< 5 feet	< 5 feet
Sugar Maple	Low	5 - 10 feet	5 - 10 feet

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
21	42311 - Planted Spruce, Mixed Deciduous	Poletimber Well	11.5	65	51-80	N/A	Thinned last yoe doing well for now with hardwoods moving in. Hold

Canopy Species	% Cover	Size Class	DBH	Age
Sugar Maple	10	Pole/Log	8	
Red Maple	10	Pole/Log	8	
White Spruce	70	Pole/Log	8	65
Black Cherry	5	Pole/Log	8	
Beech	5	Pole/Log	8	

Sub-Canopy Species	Density	Avg. Height	Size
Beech	Low	5 - 10 feet	5 - 10 feet
White Spruce	Low	5 - 10 feet	5 - 10 feet
Blackberry/Raspberry	Medium	5 - 10 feet	5 - 10 feet
Red Maple	Low	5 - 10 feet	5 - 10 feet
Black Cherry	Low	5 - 10 feet	5 - 10 feet

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
22	42101 - Planted White Pine, Mixed Deciduous	Sawtimber Well	25.2	64	111-140	N/A	Planted white pine with pockets of northern hardwood. treated with sale #63-046-08

Canopy Species	% Cover	Size Class	DBH	Age
Sugar Maple	10	Log/Pole	11	
Beech	5	Log/Pole	10	
White Pine	80	Log/Pole	10	64
Bigtooth Aspen	5	Log/Pole	10	

Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple	Medium	>20 feet	>20 feet
Serviceberry (Juneberry)	Low	10 - 20 feet	10 - 20 feet
Beech	Medium	5 - 10 feet	5 - 10 feet

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
23	4130 - Aspen	Poletimber Well	8.1	50	141-170	N/A	

Canopy Species	% Cover	Size Class	DBH	Age
Sugar Maple	5	Pole	6	
Red Maple	10	Pole	7	
Quaking Aspen	10	Pole	6	
Bigtooth Aspen	70	Pole	6	50
Black Cherry	5	Pole	7	

Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	Low	5 - 10 feet	5 - 10 feet
Ironwood	Medium	5 - 10 feet	5 - 10 feet
Beech	Low	5 - 10 feet	5 - 10 feet

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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
24	6230 - Cattail	None	6.1			No	Marsh with cattails and reed type weeds/grass. Wet flow in the middle old beaver dam
25	4130 - Aspen	Poletimber Well	7.0	34	Unspecified	N/A	
26	4130 - Aspen	Sapling Well	22.0	26	Unspecified	N/A	Final harvested in 2000.
27	4110 - Sugar Maple Association	Sawtimber Well	42.6	75	51-80	N/A	Some american chestnut trees are located in the north west corner of stand. Treated with sale 630160801. Harvested 2021 Burkett Revisited 63-032-18.
28	6230 - Cattail	None	1.0			No	Marshy area with cattails, very little water.
31	4119 - Mixed Northern Hardwoods	Sawtimber Well	65.1	95	81-110	N/A	Thinned in 1998. Trees are healthy but no regen to speak of. Beech and ironwood

24 — Sub-Canopy Species

Sub-Canopy Species	Density	Avg. Height	Size
Pussy Willow	Medium	5 - 10 feet	5 - 10 feet

25 — Canopy Species

Canopy Species	% Cover	Size Class	DBH	Age
Bigtooth Aspen	80	Sapling/Pole	4	34
Red Maple	10	Sapling/Pole	4	
Black Cherry	5	Sapling/Pole	4	
Paper Birch	5	Sapling	3	

25 — Sub-Canopy Species

Sub-Canopy Species	Density	Avg. Height	Size
Black Cherry	Low	5 - 10 feet	5 - 10 feet
Red Maple	Low	5 - 10 feet	5 - 10 feet
Ironwood	Low	5 - 10 feet	5 - 10 feet
Beech	Low	5 - 10 feet	5 - 10 feet

26 — Canopy Species

Canopy Species	% Cover	Size Class	DBH	Age
Bigtooth Aspen	80	Sapling/Pole	4	26
Black Cherry	10	Sapling	4	
Red Maple	10	Sapling/Pole	4	

26 — Sub-Canopy Species

Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	Low	5 - 10 feet	5 - 10 feet
Cherry (spp.)	Medium	5 - 10 feet	5 - 10 feet
Beech	Medium	5 - 10 feet	5 - 10 feet

27 — Canopy Species

Canopy Species	% Cover	Size Class	DBH	Age
Sugar Maple	40	Log/Pole	10	75
Basswood	40	Log/Pole	10	
Black Cherry	20	Log/Pole	10	

27 — Sub-Canopy Species

Sub-Canopy Species	Density	Avg. Height	Size
White Pine	Low	5 - 10 feet	5 - 10 feet
Ironwood	Medium	5 - 10 feet	5 - 10 feet
Beech	High	5 - 10 feet	5 - 10 feet
Black Raspberry	Full	< 5 feet	< 5 feet

31 — Canopy Species

Canopy Species	% Cover	Size Class	DBH	Age
Sugar Maple	50	Log/Pole	10	95
Red Maple	10	Pole/Log	9	
Yellow Birch	3	Pole/Log	9	
Beech	5	Log	10	
Black Cherry	10	Pole/Log	9	
Basswood	15	Log/Pole	10	
Paper Birch	7	Pole	9	

31 — Sub-Canopy Species

Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple	Low	10 - 20 feet	10 - 20 feet
Beech	High	5 - 10 feet	5 - 10 feet
Ironwood	High	5 - 10 feet	5 - 10 feet

If you need assistance with this report, please email DNR-Forestry@michigan.gov or call 517-284-5900

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
33	4112 - Maple, Beech, Cherry Association	Sapling Well	12.7	6	Immature	N/A	Stand final harvested in 2020, objective of letting spruce plantation go to hardwoods.

Canopy Species	% Cover	Size Class	DBH	Age
Sugar Maple	10	Pole/Log	8	
Black Cherry	10	Pole	6	
Red Maple	10	Log	10	
Red Maple	70	Sapling	1	6

Sub-Canopy Species	Density	Avg. Height	Size
Blackberry/Raspberry	Medium	< 5 feet	< 5 feet
White Spruce	Low	< 5 feet	< 5 feet

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
34	310 - Herbaceous Openland	None	8.8			No	Kind of a bowl area with orv and snowmobile activity

Sub-Canopy Species	Density	Avg. Height	Size
Black Cherry	Low	10 - 20 feet	10 - 20 feet
Bigtooth Aspen	Low	10 - 20 feet	10 - 20 feet

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
35	320 - Upland Shrub	None	4.0			No	Old G type area used as landing in the past, now filling in with open grown trees.

Sub-Canopy Species	Density	Avg. Height	Size
Jack Pine	Low	>20 feet	>20 feet
Black Cherry	Low	>20 feet	>20 feet
Jack Pine	Low	< 5 feet	< 5 feet
White Pine	Low	>20 feet	>20 feet
Black Cherry	Low	5 - 10 feet	5 - 10 feet
Red Maple	Low	5 - 10 feet	5 - 10 feet

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
36	42311 - Planted Spruce, Mixed Deciduous	Poletimber Well	18.6	64	111-140	N/A	Planted spruce left during 2020 cut. Understory of hardwood is just starting to come in. Manage for hardwood conversion.

Canopy Species	% Cover	Size Class	DBH	Age
Sugar Maple	10	Pole/Log	8	
White Spruce	70	Pole/Log	9	64
Black Cherry	10	Pole	6	
Red Maple	10	Pole	6	

Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple	Medium	Variable	Variable
White Spruce	Low	< 5 feet	< 5 feet
Red Maple	Medium	Variable	Variable
Beech	Medium	Variable	Variable
Blackberry/Raspberry	Medium	< 5 feet	< 5 feet

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
37	4130 - Aspen	Sapling Well	3.1	24	Unspecified	N/A	

Canopy Species	% Cover	Size Class	DBH	Age
Quaking Aspen	40	Sapling/Pole	3	24
Bigtooth Aspen	40	Sapling/Pole	3	
Black Cherry	10	Sapling/Pole	3	
Red Maple	10	Sapling/Pole	3	

Sub-Canopy Species	Density	Avg. Height	Size
Bigtooth Aspen	Low	< 5 feet	< 5 feet
Beech	Low	< 5 feet	< 5 feet
Black Cherry	Low	< 5 feet	< 5 feet
Red Maple	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
38	4112 - Maple, Beech, Cherry Association	Poletimber Well	26.6	83	51-80	N/A	Treated with sale 63-016-08-01 Opened up too much with previous sale. Very full sub canopy of beech brush. Remaining ash is dead, beech trees scaled. Visually looks bad.

Canopy Species	% Cover	Size Class	DBH	Age
Sugar Maple	40	Pole/Log	8	83
Basswood	10	Pole/Log	8	
Beech	10	Pole/Log	8	
White Ash	5	Pole	8	
Black Cherry	5	Pole/Log	8	
Red Maple	30	Pole/Log	8	

Sub-Canopy Species	Density	Avg. Height	Size
Ironwood	Low	5 - 10 feet	5 - 10 feet
Beech	Full	5 - 10 feet	5 - 10 feet

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
39	6128 - Lowland Coniferous, Mixed Deciduous	Sawtimber Well	1.1	95	111-140	N/A	Wet run low area deer cover

Canopy Species	% Cover	Size Class	DBH	Age
Hemlock	80	Pole/Log	9	95
Paper Birch	10	Pole/Log	8	
Red Maple	10	Pole/Log	8	

Sub-Canopy Species	Density	Avg. Height	Size
Tag Alder	Low	5 - 10 feet	5 - 10 feet
Red Maple	Low	5 - 10 feet	5 - 10 feet

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
41	4112 - Maple, Beech, Cherry Association	Sawtimber Well	88.9	95	111-140	N/A	Treated with sale 63-047-08-01 Trees doing well, regen. not so good, mostly beech brush. (SE16)

Canopy Species	% Cover	Size Class	DBH	Age
Sugar Maple	50	Log/Pole	10	95
Red Maple	25	Pole/Log	9	
White Ash	5	Log	12	
Beech	10	Log/Pole	10	
Black Cherry	10	Log/Pole	10	

Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple	Low	5 - 10 feet	5 - 10 feet
Ironwood	Medium	5 - 10 feet	5 - 10 feet
Beech	High	5 - 10 feet	5 - 10 feet

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
42	122 - Road/Parking Lot	None	3.2			No	Burkett Road

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
44	3102 - Grass	None	7.4			No	G areas along valley bottom between hardwood stands. North end of 44 used for landing during last sale.

Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple	Medium	10 - 20 feet	10 - 20 feet

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
45	42141 - Planted Mixed Pine, Mixed Deciduous	Sapling Well	59.3	13	Immature	N/A	This was a jp plantation clear cut and planted to red pine. The natural jack has over topped the red as well as black cherry maple and aspen. It was sprayed with herbicide, fall of 2015. Monitor to see if that knocks back the competition from the deciduous trees. Planting failed accept natural regeneration. Regen check came back at 458 TPA red pine and 1835 TPA other. Attempted aerial spray in 2015 failed.

Canopy Species	% Cover	Size Class	DBH	Age
Jack Pine	40	Sapling/Pole	4	13
Red Pine	20	Sapling/Pole	4	13
Black Cherry	30	Sapling/Pole	4	
Bigtooth Aspen	5	Sapling/Pole	4	

Sub-Canopy Species	Density	Avg. Height	Size
Beech	Low	< 5 feet	< 5 feet
Blackberry/Raspberry	Medium	< 5 feet	< 5 feet
Bigtooth Aspen	Low	< 5 feet	< 5 feet
Red Maple	Low	5 - 10 feet	5 - 10 feet

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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
46	4130 - Aspen	Sapling Well	4.2	24	Unspecified	N/A	Cut on 2002

Canopy Species	% Cover	Size Class	DBH	Age
Sugar Maple	5	Sapling/Pole	3	
Red Maple	5	Sapling/Pole	3	24
Quaking Aspen	10	Sapling/Pole	3	24
Bigtooth Aspen	70	Sapling/Pole	3	24
Black Cherry	5	Sapling/Pole	3	
Beech	5	Sapling/Pole	3	

Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	Low	5 - 10 feet	5 - 10 feet
Beech	Medium	5 - 10 feet	5 - 10 feet
Cherry (spp.)	Medium	5 - 10 feet	5 - 10 feet

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
47	4110 - Sugar Maple Association	Sawtimber Well	8.5	95	81-110	N/A	Thinned in 1989 and 1999. Sugar maple regen on edges of stand.

Canopy Species	% Cover	Size Class	DBH	Age
Sugar Maple	80	Log	12	95
Red Maple	10	Log/Pole	10	
White Ash	5	Log	12	
Beech	5	Log/Pole	10	

Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	Medium	5 - 10 feet	5 - 10 feet
Ironwood	Medium	5 - 10 feet	5 - 10 feet
Beech	Medium	5 - 10 feet	5 - 10 feet
Sugar Maple	Medium	5 - 10 feet	5 - 10 feet

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
49	4112 - Maple, Beech, Cherry Association	Poletimber Well	98.2	85	111-140	N/A	Treated with sale 63-047-08-01 last year of entry. Maple looks good, but no regen to speak of mainly beech and ironwood.

Canopy Species	% Cover	Size Class	DBH	Age
Sugar Maple	50	Pole/Log	9	85
Red Maple	20	Pole/Log	9	
Beech	10	Log/Pole	10	
White Ash	5	Pole/Log	8	
Black Cherry	10	Pole/Log	8	
Basswood	5	Pole/Log	9	

Sub-Canopy Species	Density	Avg. Height	Size
Beech	High	5 - 10 feet	5 - 10 feet
Ironwood	Medium	5 - 10 feet	5 - 10 feet
Blackberry/Raspberry	High	< 5 feet	< 5 feet

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
50	4130 - Aspen	Poletimber Well	2.8	50	Unspecified	N/A	

Canopy Species	% Cover	Size Class	DBH	Age
Bigtooth Aspen	80	Pole	7	50
Black Cherry	5	Pole	7	
Beech	10	Pole	7	
Sugar Maple	5	Pole	6	

Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple	Low	< 5 feet	< 5 feet
Cherry (spp.)	Medium	10 - 20 feet	10 - 20 feet
Beech	Medium	5 - 10 feet	5 - 10 feet

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
51	4110 - Sugar Maple Association	Sawtimber Well	74.9	95	81-110	N/A	Some scattered white ash in stand. Treated with sale 63-016-08-01. Maple doing well, will be some high quality next time. Very little regen. except beech brush. and ironwoodThink about thinning next yoe.

Canopy Species	% Cover	Size Class	DBH	Age
Sugar Maple	70	Log/Pole	10	95
White Ash	5	Pole/Log	8	
Basswood	5	Log/Pole	10	
Beech	5	Pole/Log	8	
Black Cherry	10	Log/Pole	10	
Red Maple	5	Pole/Log	8	

Sub-Canopy Species	Density	Avg. Height	Size
Ironwood	Medium	5 - 10 feet	5 - 10 feet
Beech	Medium	5 - 10 feet	5 - 10 feet
Sugar Maple	Low	5 - 10 feet	5 - 10 feet
Blackberry/Raspberry	Medium	< 5 feet	< 5 feet

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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
52	4112 - Maple, Beech, Cherry Association	Poletimber Well	73.6	95	51-80	N/A	This stand looks terrible! Beech brush sub canopy too thick to even walk through. Remaining beech overstory scaled, red maple low quality and "clumpy". Options? Clear cut the whole thing or remove all beech and log size maple and see what comes back. Or just leave it for now. (JV 16)

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	40	Pole/Log	9	95
Beech	30	Pole	8	
Paper Birch	5	Pole	9	
Bigtooth Aspen	5	Log/Pole	10	
Sugar Maple	20	Pole/Log	8	

Sub-Canopy Species	Density	Avg. Height	Size
Beech	High	5 - 10 feet	5 - 10 feet
White Pine	Low	5 - 10 feet	5 - 10 feet
Ironwood	Medium	5 - 10 feet	5 - 10 feet

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
53	3102 - Grass	None	2.9			No	

Sub-Canopy Species	Density	Avg. Height	Size
Black Cherry	Medium	10 - 20 feet	10 - 20 feet

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
54	4112 - Maple, Beech, Cherry Association	Sawtimber Poor	14.3	80	1-50	N/A	Stand was cut in winter 2021, all spruce and beech/aspen were cut. Objective of converting stand to hardwoods from planted spruce.

Canopy Species	% Cover	Size Class	DBH	Age
Sugar Maple	10	Pole/Log	8	
Red Maple	90	Log/Pole	12	80

Sub-Canopy Species	Density	Avg. Height	Size
Beech	Low	5 - 10 feet	5 - 10 feet
Red Maple	Low	< 5 feet	< 5 feet
White Spruce	Low	5 - 10 feet	5 - 10 feet
Ironwood	Low	5 - 10 feet	5 - 10 feet

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
55	4112 - Maple, Beech, Cherry Association	Sawtimber Poor	11.3	80	1-50	N/A	Stand was cut in winter 2021, all spruce and beech/aspen were cut. Objective of converting stand to hardwoods from planted spruce.

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	85	Log	11	80
Black Cherry	15	Pole/Log	8	

Sub-Canopy Species	Density	Avg. Height	Size
White Spruce	Low	5 - 10 feet	5 - 10 feet
Red Maple	Low	5 - 10 feet	5 - 10 feet
Beech	Low	5 - 10 feet	5 - 10 feet

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
56	4130 - Aspen	Poletimber Well	46.5	34	Unspecified	N/A	Illegal ORV Use on north edge of stand. ORVs are being used to travel to hunting blinds.

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	10	Pole/Sapling	5	34
Quaking Aspen	20	Pole/Sapling	5	34
Bigtooth Aspen	60	Pole/Sapling	5	34
Black Cherry	10	Sapling/Pole	4	34

Sub-Canopy Species	Density	Avg. Height	Size
Beech	Low	5 - 10 feet	5 - 10 feet
Witch Hazel	Low	5 - 10 feet	5 - 10 feet
Red Maple	Low	5 - 10 feet	5 - 10 feet
Black Cherry	Low	5 - 10 feet	5 - 10 feet

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
58	42200 - Natural White Pine	Sawtimber Well	6.8	98	51-80	N/A	East portion of stand treated along with spruce in winter 2021.

Canopy Species	% Cover	Size Class	DBH	Age
White Pine	80	Log	14	98
Red Maple	10	Log/Pole	10	
Balsam Fir	10	Pole/Log	8	

Sub-Canopy Species	Density	Avg. Height	Size
Bigtooth Aspen	Medium	5 - 10 feet	5 - 10 feet
Cherry (spp.)	Medium	5 - 10 feet	5 - 10 feet
Red Maple	High	5 - 10 feet	5 - 10 feet
Beech	High	5 - 10 feet	5 - 10 feet
White Pine	Low	10 - 20 feet	10 - 20 feet

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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
59	4139 - Aspen, Mixed Deciduous	Sapling Well	30.8	24	Unspecified	N/A	Final harvested in 2002. Mix of bigtooth and quaking aspen.

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	30	Sapling/Pole	3	
Bigtooth Aspen	50	Sapling/Pole	3	24
Black Cherry	20	Sapling/Pole	3	

Sub-Canopy Species	Density	Avg. Height	Size
Cherry (spp.)	Low	< 5 feet	< 5 feet
Red Maple	Low	< 5 feet	< 5 feet
Beech	Low	< 5 feet	< 5 feet
Bigtooth Aspen	Low	< 5 feet	< 5 feet

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
60	4111 - S.Maple, Hard Mast Association	Poletimber Well	65.6	90	81-110	N/A	ORV Hillclimb located in stand. Close with timber sale. Treated in the past. Usual beech and ironwood understory

Canopy Species	% Cover	Size Class	DBH	Age
Sugar Maple	60	Pole/Log	8	90
Red Maple	10	Pole	6	
Basswood	5	Pole/Log	8	
Quaking Aspen	5	Pole/Log	8	
Beech	10	Pole/Log	8	
Black Cherry	10	Pole/Log	8	

Sub-Canopy Species	Density	Avg. Height	Size
Ironwood	Medium	5 - 10 feet	5 - 10 feet
White Pine	Low	10 - 20 feet	10 - 20 feet
Beech	High	5 - 10 feet	5 - 10 feet

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
61	42100 - Planted White Pine	Poletimber Well	85.7	64	171-200	N/A	Leave for thermal cover. (SE16)

Canopy Species	% Cover	Size Class	DBH	Age
White Pine	90	Pole/Log	8	64
Black Cherry	5	Pole	8	
Beech	5	Pole/Log	8	

Sub-Canopy Species	Density	Avg. Height	Size
Cherry (spp.)	Low	5 - 10 feet	5 - 10 feet
Sugar Maple	Low	5 - 10 feet	5 - 10 feet
Beech	Low	5 - 10 feet	5 - 10 feet

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
64	4130 - Aspen	Poletimber Well	46.2	28	Immature	N/A	

Canopy Species	% Cover	Size Class	DBH	Age
Bigtooth Aspen	80	Sapling/Pole	4	28
Red Maple	10	Sapling/Pole	4	
Beech	5	Sapling/Pole	3	
Black Cherry	5	Sapling/Pole	3	

Sub-Canopy Species	Density	Avg. Height	Size
Witch Hazel	Low	< 5 feet	< 5 feet
Red Maple	Low	< 5 feet	< 5 feet
Beech	Medium	< 5 feet	< 5 feet

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
69	4112 - Maple, Beech, Cherry Association	Poletimber Well	42.2	90	51-80	N/A	thinned in 2011 All beech is scaled all ash is dead. Not sure if its worth it to try a salvage or just let it go...

Canopy Species	% Cover	Size Class	DBH	Age
Sugar Maple	20	Pole/Log	8	
Red Maple	30	Pole	8	90
Basswood	5	Log	10	
White Ash	5	Pole/Log	8	
Bigtooth Aspen	5	Pole/Log	9	
Black Cherry	10	Pole	8	
Beech	25	Pole/Log	8	

Sub-Canopy Species	Density	Avg. Height	Size
Ironwood	Low	5 - 10 feet	5 - 10 feet
Beech	High	< 5 feet	< 5 feet
Sugar Maple	Low	5 - 10 feet	5 - 10 feet

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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
70	4134 - Aspen, Spruce/Fir	Poletimber Well	44.3	49	Unspecified	N/A	some wet areas along edge. Small area on south edge of cedar hemlock

Canopy Species	% Cover	Size Class	DBH	Age
Quaking Aspen	55	Pole	8	49
Bigtooth Aspen	10	Pole	8	
Balsam Fir	20	Pole	6	
White Pine	15	Log	14	

Sub-Canopy Species	Density	Avg. Height	Size
Beech	Low	5 - 10 feet	5 - 10 feet

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
71	4112 - Maple, Beech, Cherry Association	Sawtimber Medium	77.4	100	1-50	N/A	Thinned in 2000. Could do it again right now and salvage remaining beech and ash. Mark some log maple and cherry IPS QAQC Check: Stand data needs to be updated from post-harvest PU 3 63-004-18-01 Shady Hardwood Thinned 12/2021

Canopy Species	% Cover	Size Class	DBH	Age
Sugar Maple	30	Log/Pole	10	100
Basswood	10	Log/Pole	12	
White Ash	10	Log/Pole	12	
Beech	10	Log/Pole	12	
Black Cherry	20	Pole/Log	8	
Red Maple	20	Pole/Log	8	

Sub-Canopy Species	Density	Avg. Height	Size
Beech	High	5 - 10 feet	5 - 10 feet
Red Maple	Low	5 - 10 feet	5 - 10 feet
Ironwood	High	5 - 10 feet	5 - 10 feet
Sugar Maple	Low	5 - 10 feet	5 - 10 feet

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
72	42311 - Planted Spruce, Mixed Deciduous	Poletimber Well	28.1	65	111-140	N/A	Pretty solid stand still healthy leave for now.(SE16)

Canopy Species	% Cover	Size Class	DBH	Age
Sugar Maple	5	Pole/Log	8	
Red Maple	5	Pole/Log	8	
Beech	5	Pole/Log	8	
White Spruce	80	Pole/Log	8	65
Black Cherry	5	Pole/Log	8	

Sub-Canopy Species	Density	Avg. Height	Size
Black Cherry	Low	5 - 10 feet	5 - 10 feet
White Spruce	Low	5 - 10 feet	5 - 10 feet

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
73	622 - Lowland Shrub	None	5.0			No	

Sub-Canopy Species	Density	Avg. Height	Size
Northern White Cedar	Low	10 - 20 feet	10 - 20 feet
Black Spruce	Low	>20 feet	>20 feet
Cattail spp.	Medium	Not Applicable	Not Applicable
Alder	High	5 - 10 feet	5 - 10 feet

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
78	4110 - Sugar Maple Association	Sawtimber Well	16.4	93	81-110	N/A	Ash is dead and beginning to rot. Beech is scaled. Understory of beech brush and ironwoold

Canopy Species	% Cover	Size Class	DBH	Age
Sugar Maple	50	Log/Pole	10	93
Red Maple	10	Pole/Log	8	
White Ash	10	Pole/Log	8	
Beech	10	Pole/Log	9	
Black Cherry	10	Pole/Log	8	
Basswood	10	Log/Pole	10	

Sub-Canopy Species	Density	Avg. Height	Size
Ironwood	High	5 - 10 feet	5 - 10 feet
Beech	High	5 - 10 feet	5 - 10 feet

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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
79	4130 - Aspen	Poletimber Well	92.4	34	Unspecified	N/A	Illegal ski trail passes thru stand.

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	5	Pole/Sapling	5	
Quaking Aspen	20	Pole	6	34
Bigtooth Aspen	60	Pole	6	34
Sugar Maple	5	Pole/Sapling	5	
Black Cherry	5	Pole/Sapling	5	
White Spruce	5	Sapling	3	

Sub-Canopy Species	Density	Avg. Height	Size
Bigtooth Aspen	Low	5 - 10 feet	5 - 10 feet
Red Maple	Medium	5 - 10 feet	5 - 10 feet
Cherry (spp.)	Low	5 - 10 feet	5 - 10 feet
Beech	Medium	5 - 10 feet	5 - 10 feet

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
80	4211 - Planted Red Pine	Unspecifed	61.8	3	Immature		Has not been treated, holding and looking healthy at this point. Stand was planted spring of 2023.
83	3302 - Low Density Conifer Trees	None	4.3			No	Open hilltop filling in with some scattered trees. Edge is part of a red pine plantation on private.

Sub-Canopy Species	Density	Avg. Height	Size
Beech	Low	10 - 20 feet	10 - 20 feet
Red Oak	Low	10 - 20 feet	10 - 20 feet
Red Pine	Low	10 - 20 feet	10 - 20 feet

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
86	4111 - S.Maple, Hard Mast Association	Poletimber Well	148.3	90	81-110	N/A	Illegal ski trail crosses through stand. Some trees are marked with orange paint along trail. Treated with sale 63-013-08-01. Heavy Beech brush understory

Canopy Species	% Cover	Size Class	DBH	Age
Sugar Maple	60	Pole	8	90
Red Maple	20	Pole	8	
White Ash	5	Pole	8	
Black Cherry	5	Pole	8	
Beech	10	Pole	8	

Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple	Low	10 - 20 feet	10 - 20 feet
Beech	Full	5 - 10 feet	5 - 10 feet
Ironwood	Medium	5 - 10 feet	5 - 10 feet
Blackberry/Raspberry	Medium	< 5 feet	< 5 feet
Red Maple	Low	5 - 10 feet	5 - 10 feet

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
88	4130 - Aspen	Poletimber Well	35.2	34	1-50	N/A	Harvested in 1992. Came back solid

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	20	Pole/Sapling	5	
Red Oak	10	Log	16	
Bigtooth Aspen	60	Pole/Sapling	5	34
Black Cherry	5	Pole/Sapling	5	
Quaking Aspen	5	Pole	5	

Sub-Canopy Species	Density	Avg. Height	Size
Ironwood	Medium	5 - 10 feet	5 - 10 feet
Red Maple	Medium	5 - 10 feet	5 - 10 feet
Bigtooth Aspen	Low	5 - 10 feet	5 - 10 feet
Beech	Medium	5 - 10 feet	5 - 10 feet

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
89	4110 - Sugar Maple Association	Sawtimber Well	18.2	95	51-80	N/A	Cut in 2021 Rhoby Mixture 63-024-18.

Canopy Species	% Cover	Size Class	DBH	Age
Sugar Maple	65	Log	10	95
Red Maple	5	Log	10	
Basswood	5	Log/Pole	10	
Black Cherry	10	Log/Pole	10	
Quaking Aspen	15	Log/Pole	10	

Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple	Low	5 - 10 feet	5 - 10 feet
Beech	Medium	5 - 10 feet	5 - 10 feet
White Spruce	Low	5 - 10 feet	5 - 10 feet
Ironwood	Medium	5 - 10 feet	5 - 10 feet

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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
90	4116 - Mixed N. Hardwood - Aspen	Sapling Poor	49.9	5	1-50	N/A	Stand was cut in winter 2021, all spruce and beech/aspen were cut. Objective of converting stand to hardwoods from planted spruce.

Canopy Species	% Cover	Size Class	DBH	Age
Sugar Maple	20	Pole/Log	8	
Red Maple	20	Log/Pole	12	80
Red Maple	20	Sapling	1	
Red Oak	15	Log	12	
Bigtooth Aspen	25	Sapling	1	5

Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	Low	5 - 10 feet	5 - 10 feet
Beech	Medium	5 - 10 feet	5 - 10 feet
White Spruce	Medium	5 - 10 feet	5 - 10 feet

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
91	4130 - Aspen	Sapling Well	10.4	34	Unspecified	N/A	

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	10	Sapling/Pole	4	
Bigtooth Aspen	70	Sapling/Pole	4	34
Black Cherry	10	Sapling/Pole	4	
Beech	10	Sapling/Pole	4	

Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	Medium	5 - 10 feet	5 - 10 feet
Beech	Medium	5 - 10 feet	5 - 10 feet
Cherry (spp.)	Medium	5 - 10 feet	5 - 10 feet

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
95	4111 - S.Maple, Hard Mast Association	Sawtimber Well	27.4	95	81-110	N/A	Thinned in 2000.

Canopy Species	% Cover	Size Class	DBH	Age
Sugar Maple	60	Log/Pole	10	95
Red Maple	5	Log/Pole	10	
Basswood	5	Log/Pole	10	
Quaking Aspen	10	Log/Pole	10	
Beech	10	Log/Pole	10	
Black Cherry	10	Log/Pole	12	

Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple	Low	>20 feet	>20 feet
Beech	High	5 - 10 feet	5 - 10 feet
Ironwood	Full	5 - 10 feet	5 - 10 feet

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
97	4199 - Other Mixed Upland Deciduous	Sawtimber Medium	87.5	100	51-80	N/A	Thinned in 2000. Thin again. Look for areas of oak decline remove all beech and ash. IPS QAQC Check: PU 2 Shady Hardwood 63-004-18-01 Thinned 2/2022 Removed 40 BA Stand data was never updated post sale. Needs to be done by stand examiner

Canopy Species	% Cover	Size Class	DBH	Age
Sugar Maple	20	Pole/Log	8	
Red Maple	5	Pole	8	
Beech	5	Pole/Log	8	
Red Oak	50	Log	12	100
White Ash	5	Pole/Log	8	
Black Cherry	5	Pole	8	
Basswood	10	Log/Pole	10	

Sub-Canopy Species	Density	Avg. Height	Size
Beech	High	5 - 10 feet	5 - 10 feet
Sugar Maple	Medium	5 - 10 feet	5 - 10 feet
Ironwood	High	5 - 10 feet	5 - 10 feet

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
98	4211 - Planted Red Pine	Unspecifed	29.0	4	1-50		thinned 2011 Stand was planted spring of 2023.

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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
99	4112 - Maple, Beech, Cherry Association	Sawtimber Well	45.3	95	81-110	N/A	Treated with sale 63-013-08-01

Canopy Species	% Cover	Size Class	DBH	Age
Sugar Maple	50	Log/Pole	10	95
Red Maple	20	Pole/Log	8	
Beech	10	Log/Pole	10	
Red Oak	10	Log	16	
Black Cherry	10	Log/Pole	10	

Sub-Canopy Species	Density	Avg. Height	Size
Ironwood	Medium	5 - 10 feet	5 - 10 feet
Sugar Maple	Low	5 - 10 feet	5 - 10 feet
Beech	High	5 - 10 feet	5 - 10 feet
Blackberry/Raspberry	Medium	< 5 feet	< 5 feet

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
100	4130 - Aspen	Poletimber Well	6.6	34	1-50	N/A	

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	5	Pole/Sapling	5	
Bigtooth Aspen	90	Pole/Sapling	5	34
Black Cherry	5	Pole/Sapling	5	

Sub-Canopy Species	Density	Avg. Height	Size
Beech	Low	5 - 10 feet	5 - 10 feet
Ironwood	Low	5 - 10 feet	5 - 10 feet
Witch Hazel	Low	5 - 10 feet	5 - 10 feet
Cherry (spp.)	Low	5 - 10 feet	5 - 10 feet

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
101	622 - Lowland Shrub	None	4.3			No	Has water in middle mostly during spring runoff

Sub-Canopy Species	Density	Avg. Height	Size
Alder	Full	5 - 10 feet	5 - 10 feet

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
106	4116 - Mixed N. Hardwood - Aspen	Sapling Well	11.7	5	Immature	N/A	This stand was cut with Shady Hardwood 63-004-18. This unit was cut in fall/winter of 2020.

Canopy Species	% Cover	Size Class	DBH	Age
Sugar Maple	5	Sapling	1	
Red Maple	30	Sapling	1	5
Bigtooth Aspen	30	Sapling	1	5
Beech	15	Sapling	1	
Yellow Birch	5	Sapling	1	
Red Oak	5	Sapling	1	
Black Cherry	10	Sapling	1	

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
108	4111 - S.Maple, Hard Mast Association	Sawtimber Medium	61.5	100	51-80	N/A	IPS QAQC Check: Stand data was never updated post-harvest. PU 1 Shady Hardwood 63-004-18 Thinned 12/2020 removed average 45 BA

Canopy Species	% Cover	Size Class	DBH	Age
Sugar Maple	60	Log/Pole	10	100
Red Maple	10	Log/Pole	10	
Basswood	10	Log/Pole	10	
White Ash	5	Pole/Log	8	
Beech	10	Log/Pole	10	
Red Oak	5	Log	14	

Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple	Medium	5 - 10 feet	5 - 10 feet
Ironwood	High	5 - 10 feet	5 - 10 feet
Beech	High	5 - 10 feet	5 - 10 feet

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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
109	4110 - Sugar Maple Association	Poletimber Well	220.4	95	81-110	N/A	Treated with sale 63-013-08-01 North part of stand had beech left in it. Mid to south part had most beech removed. Beech scale was just being discovered as sale was being harvested. (SE16)

Canopy Species	% Cover	Size Class	DBH	Age
Sugar Maple	70	Pole/Log	9	95
Red Maple	10	Pole/Log	8	
Basswood	5	Pole/Log	9	
Beech	10	Pole/Log	8	
Black Cherry	5	Pole/Log	8	

Sub-Canopy Species	Density	Avg. Height	Size
Ironwood	Low	5 - 10 feet	5 - 10 feet
Bigtooth Aspen	Low	5 - 10 feet	5 - 10 feet
Beech	High	5 - 10 feet	5 - 10 feet
Sugar Maple	Low	5 - 10 feet	5 - 10 feet
Red Maple	Low	10 - 20 feet	10 - 20 feet

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
111	4139 - Aspen, Mixed Deciduous	Sapling Well	3.4	24	Unspecified	N/A	Some red pine seedlings in stand. Under 3 feet in height.

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	30	Sapling/Pole	3	
Bigtooth Aspen	50	Sapling/Pole	3	24
Black Cherry	20	Sapling/Pole	3	

Sub-Canopy Species	Density	Avg. Height	Size
Cherry (spp.)	Low	< 5 feet	< 5 feet
Bigtooth Aspen	Low	< 5 feet	< 5 feet
Beech	Low	< 5 feet	< 5 feet
Red Maple	Low	< 5 feet	< 5 feet

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