



Compartment Review Presentation

Cadillac Forest Management Unit

Compartment 63103

Entry Year 2023

Acreage: 2,128

County Missaukee

Management Area: Upper Muskegon

Revision Date: 2021-06-07

Stand Examiner: Blair Tweedale

Legal Description:

T21N, R5W, Sections 33,34,35,36

Identified Planning Goals:

Vegetation management in the Upper Muskegon 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:

Grayling Rubicon and Saugatuck sands. Tawas and mucky peat near river. Terrain is mostly level.

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

Fairly continuous state land with small private parcels throughout. Roscommon county borders to the east and Clare county to the south.

Unique Natural Features:

The Muskegon River is in the SE portion of section 36.

Archeological, Historical, and Cultural Features:

No known archeological sites.

Special Management Designations or Considerations:

Access from the North is limited due to a 3 ton bridge on Dolph road north of the compartment. Most of the compartment has fair to good road access.

Watershed and Fisheries Considerations:

Muskegon River goes through Southeast portion of the compartment.

Wildlife Habitat Considerations:

The Eastern portion of Section 36 is located in the Eastern Massasauga Rattlesnake (EMR) Managed Area. Consult EMR management plan for management guidance. Featured wildlife species in this Management Area are diverse reflecting the wide range of habitat types present. Featured Species of wildlife include american bittern, american woodcock, beaver, black bear, eastern massasuga rattlesnake, mallard, golden-winged warbler, pileated woodpecker, red-headed woodpecker, ruffed grouse, snowshoe hare, wild turkey, and white-tailed deer. Most of these species benefit from young forest and open types while some require some old trees for foraging and nest/den sites. Maintaining the opening types and balancing harvests with a diverse assortment of age classes in the timber types will meet the goals for these species.

Mineral Resource and Development Concerns and/or Restrictions

No known potential exists for commercial metallic mineral production in this part of the state. The nearest active sand/gravel pit is less than two miles to the southeast. There may be some potential for sand & gravel within the compartment on the uplands. The compartment is adjacent to the Cranberry Lake gas storage field. Some Dundee oil production is also occurring in the field. Potential for additional oil & gas from known producing formations beneath the compartment is considered low at this time. There is no current mineral leasing activity in the compartment. The State does not own all the mineral rights within the compartment. Because the mineral estate is the dominant estate, reasonable access to the surface must be provided to private owners if they choose to explore or develop their mineral rights.

Vehicle Access:

Vehicle access is good through most of the compartment. ORV trail runs throughout the stand.

Survey Needs:

None known at this time.

Recreational Facilities and Opportunities:

Leota ORV trail runs through the majority of the compartment and should be buffered if timber sale activity will impact it. Dispersed camping and hunting.

Fire Protection:

Fuel types in the compartment could support a large crown carried wildfire. Access for suppression equipment is provided by local county roads and forest roads. There is an urban interface concern with the private ownership adjoining the compartment.

Additional Compartment Information:**The following reports from the Inventory are attached:**

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

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

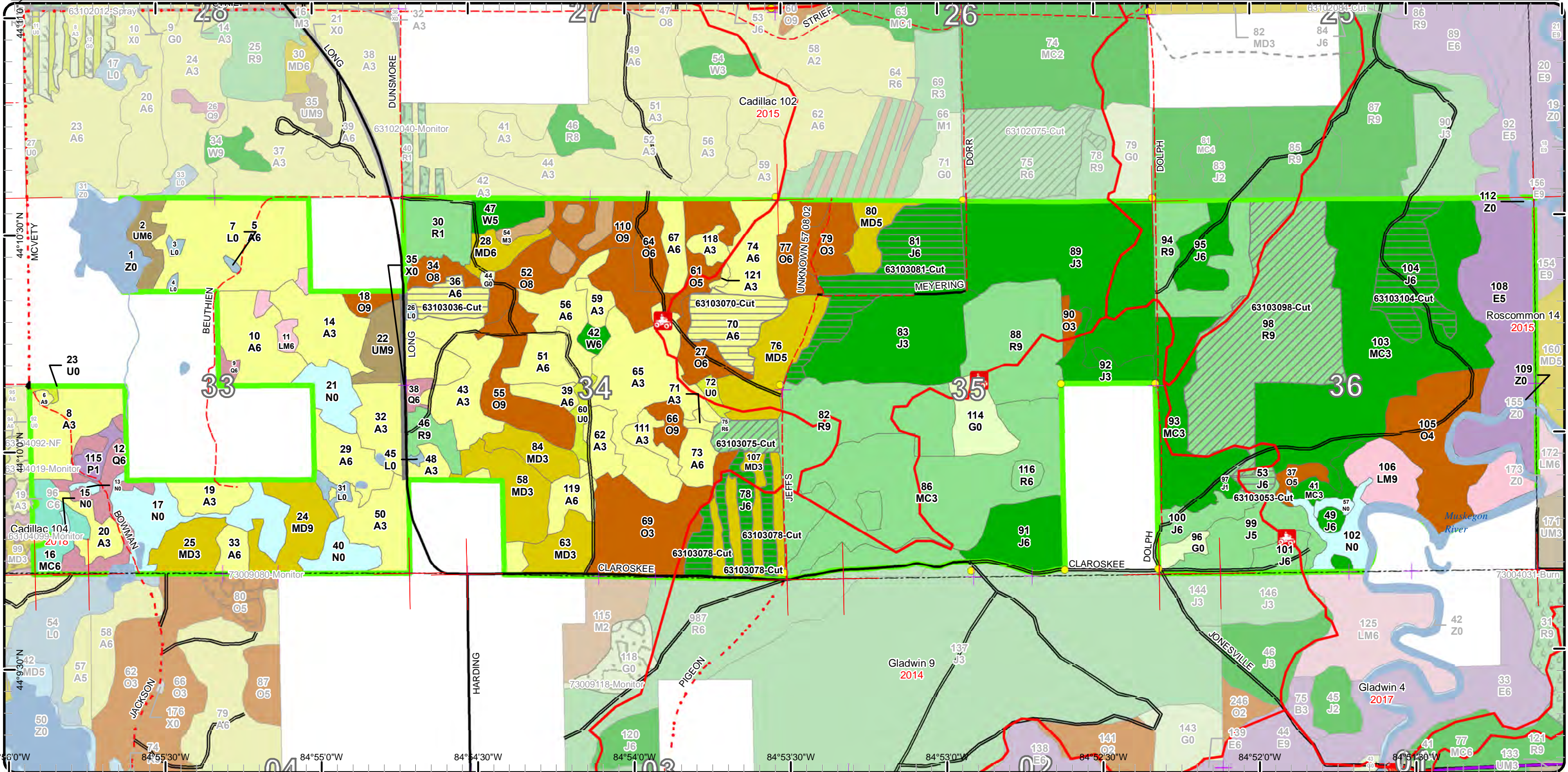
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

Cover Type & Treatments Map

Compartment: 103
 T21N, R5W, Sec 33,34,35,36
 County: Missaukee
 Unit: Cadillac
 Mgmt Area: Upper Muskegon
 YOE: 2023
 Acres: 2127.9 GIS Calculated
 Examiner: Blair Tweedale
 Map Revised: 6/28/2021
 Map Phase: Web-Post



- Miris Corners
- + Remonumented Section Corners
- Survey Grade Corners
- Counties
- DNR - Secondary Forest Road
- Federal / State / County - Paved Road
- County - Gravel Road
- County - Dirt Road (Seasonal)
- Private - Dirt / Gravel Road
- ORV Trails
- Designated ATV Trails
- Lake/Pond
- Perennial River
- Lakes and Rivers
- Compartment Boundary
- Clearcut (w/Reserves)
- Thinning (Crown, Low, Systematic)
- 411 - Northern Hardwood
- 412 - Oak Types
- 413 - Aspen
- 419 - Mixed Upland Deciduous
- 421 - Planted Pines
- 422 - Natural Pines
- 429 - Mixed Upland Conifers
- 430 - Upland Mixed Forest
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 613 - Lowland Mixed Forest
- 122 - Roads/Parking Lot
- 310 - Herbaceous Openland
- 330 - Low Density Trees
- 500 - Water
- 622 - Lowland Shrub
- 623 - Emergent Wetland

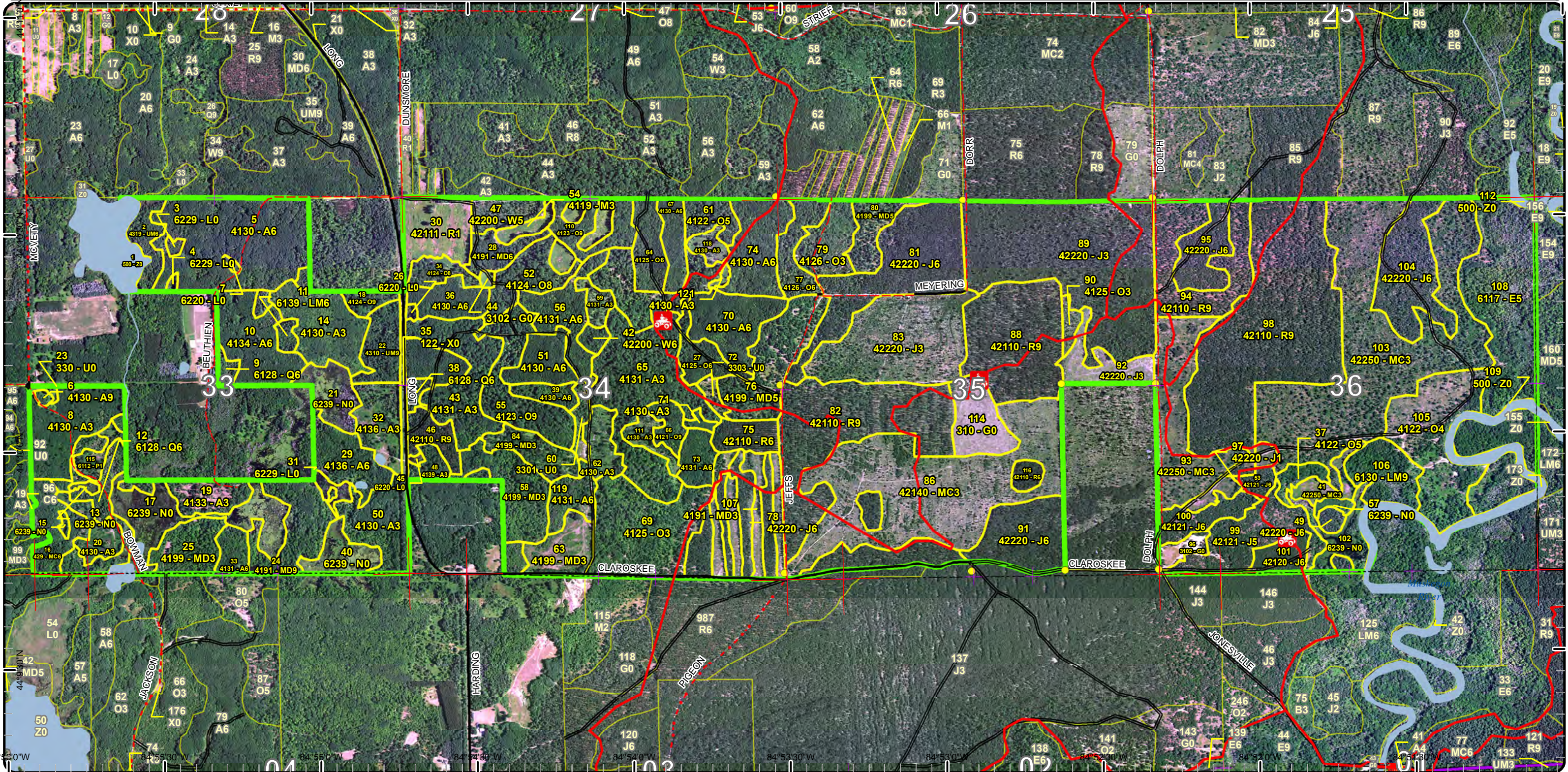


Stand Boundary Map

Compartment: 103
 T21N, R5W, Sec 33,34,35,36
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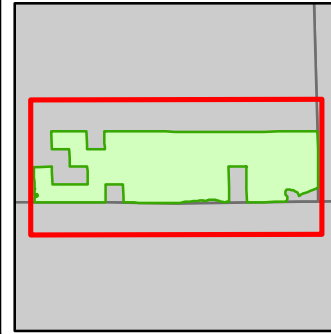


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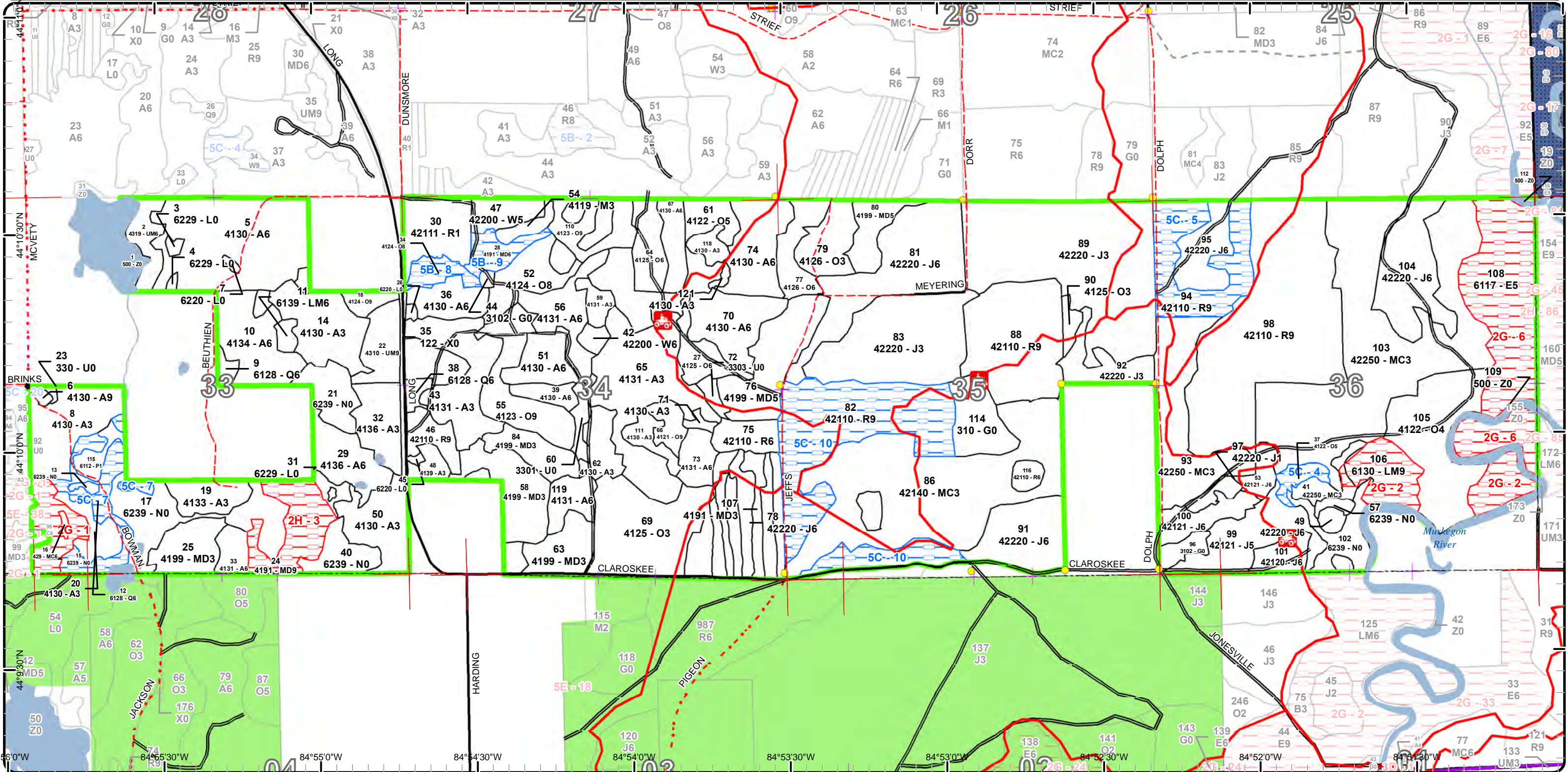


Special Conservation Areas

Compartment: 103
 T21N, R5W, Sec 33,34,35,36
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- Lake/Pond
- Perennial River
- Lakes and Rivers
- Compartment Boundary
- Available w/ Constraints
- Unavailable
- 5B: Maintain for regeneration purposes
- 5C: Delay treatment for age/size class diversity or exceptional site quality
- 2G: Too wet (sensitive soils, does not include access issues)
- 2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)
- Stand Boundaries
- SCA
- Kirtland Warbler Habitat
- Cold Water Lakes
- Spring or Seep





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	50	52	15	58	99	22	0	0	0	0	0	0	0	0	0	0	161	457
Herbaceous Openland	23	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	23
Jack Pine	0	19	52	126	61	0	52	55	0	0	0	0	0	0	0	0	0	0	365
Low-Density Trees	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9
Lowland Aspen/Balsam Poplar	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5
Lowland Conifers	0	0	0	0	0	0	0	0	0	20	0	0	0	0	0	0	0	5	25
Lowland Deciduous	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	68	68
Lowland Mixed Forest	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	33	33
Lowland Shrub	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7
Marsh	69	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	68
Mixed Upland Deciduous	0	35	0	29	9	0	0	11	0	0	0	0	0	0	0	0	0	70	153
Natural Mixed Pines	0	45	126	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	171
Northern Hardwood	0	12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12
Oak	0	0	18	54	0	13	10	0	0	0	12	0	0	0	0	0	0	135	242
Planted Mixed Pines	0	101	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	101
Red Pine	0	20	0	0	0	0	0	18	0	223	0	0	0	0	0	0	0	55	316
Upland Conifers	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	14	14
Upland Mixed Forest	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	22	22
Urban	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5
Water	21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	21
White Pine	0	0	0	0	0	3	9	0	0	0	0	0	0	0	0	0	0	0	12
Total	134	287	248	224	128	115	93	84	0	243	12	0	0	0	0	0	0	563	2129



Report 2 – Treatment Summary

Cadillac Mgt. Unit

Year of Entry: 2023

Acres of Harvest

Compartment 103

Total Compartment Acres: 2,128

Commercial Harvest - 259
 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	33	0	0	0	0	0	0	0	0	33
Jack Pine	107	0	0	0	0	0	0	0	0	107
Red Pine	0	0	0	0	0	119	0	0	0	119
Total	140	0	0	0	0	119	0	0	0	259

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	259	0	0	0	0	0	0	0	0	259
Next Step	0	110	110	0	0	110	140	0	0	470
Total	259	110	110	0	0	110	140	0	0	730



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

Proposed Treatments:

36	63103036-Cut	11.7	4130 - Aspen	Poletimber Well	48	81-110	Harvest	Clearcut	413 - Aspen	Even-Aged	No
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Prescription final harvest.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable aspen, mixed deciduous

Regen:

Other

Comment:

Site Condition

Proposed Start Date: 10/1 /2022

53	63103053-Cut	3.7	42121 - Planted Jack Pine, Mixed Deciduous	Poletimber Well	56	171-200	Harvest	Clearcut	4222 - Natural Jack Pine	Even-Aged	No
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Prescription Final harvest. no retention due to small acreage.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable jack pine, mixed oak and maple

Regen:

Other Protect ATV trail

Comment:

Site Condition

Proposed Start Date: 10/1 /2022

70	63103070-Cut	21.4	4130 - Aspen	Poletimber Well	52	171-200	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
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Prescription Final harvest. Leave retention in form of island(s). May focus retention in areas with more oak.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable aspen, oak, maple

Regen:

Other

Comment:

Site Condition

Proposed Start Date: 10/1 /2022

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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
75 63103075-Cut	9.2	42110 - Planted Red Pine	Poletimber Well	65	171-200	Harvest	Low Thinning	4211 - Planted Red Pine	Even-Aged	No
<u>Prescription</u> Cut tree mark to an average residual BA of 110. <u>Specs:</u> <u>Next Step</u> <u>Treatments:</u> <u>Acceptable</u> <u>Regen:</u> <u>Other</u> 2 nd thin. Stand had a take 2 leave 3 systematic thin during the first entry. <u>Comment:</u> <u>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /2022										
78 63103078-Cut	24.2	42220 - Natural Jack Pine	Poletimber Well	65	111-140	Harvest	Clearcut	4222 - Natural Jack Pine	Even-Aged	No
<u>Prescription</u> Final Harvest. <u>Specs:</u> <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u> <u>Acceptable</u> Jack Pine and mixed oak. <u>Regen:</u> <u>Other</u> Protect ATV trail <u>Comment:</u> <u>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /2022										
81 63103081-Cut	48.1	42220 - Natural Jack Pine	Poletimber Well	51	81-110	Harvest	Clearcut with Retention	4222 - Natural Jack Pine	Even-Aged	No
<u>Prescription</u> Final harvest. Retention in form of island(s), trying to mimic fire skips <u>Specs:</u> <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u> <u>Acceptable</u> jack pine and oak <u>Regen:</u> <u>Other</u> <u>Comment:</u> <u>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /2022										
98 63103098-Cut	110.1	42110 - Planted Red Pine	Sawtimber Well	82	111-140	Harvest	Low Thinning	4211 - Planted Red Pine	Even-Aged	No
<u>Prescription</u> Thin from above. Target residual BA at around 90 BA. <u>Specs:</u> <u>Next Step</u> SitePrep, Trenching; Pesticide, Aerial - Site Prep; Planting, Initial Plant <u>Treatments:</u> <u>Acceptable</u> red pine <u>Regen:</u> <u>Other</u> Protect ATV trail <u>Comment:</u> <u>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /2022										



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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
104 63103104-Cut	30.9	42220 - Natural Jack Pine	Poletimber Well	60	51-80	Harvest	Clearcut with Retention	4319 - Mixed Upland Forest	Even-Aged	No
<p><u>Prescription</u> Final harvest. Leave retention in form of an island(s); fire skip look.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> northern pin oak, jack pine</p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2022</p>										

Total Treatment Acreage Proposed: 259.3

Report 4 – Site Conditions

Cadillac Mgt. Unit
Blair Tweedale : Examiner

Compartment: 103
Year of Entry: 2023

Availability for Management

Total Acres	Acres Available	Acres Avail		Dominant Site Conditions	5B	5C	2G	2H
		With Condition	Not Available					
456	456	0	0	Aspen				0
22	22	0	0	Herbaceous Openland				
365	365	0	0	Jack Pine				
9	9	0	0	Low-Density Trees				
5	5	0	0	Lowland Aspen/Balsam Poplar				
26	5	20	0	Lowland Conifers		20		
68	0	0	68	Lowland Deciduous			68	
33	6	0	27	Lowland Mixed Forest			27	
7	7	0	0	Lowland Shrub				
69	68	0	0	Marsh			0	0
154	123	9	22	Mixed Upland Deciduous	9			22
171	170	0	1	Natural Mixed Pines			1	
12	12	0	0	Northern Hardwood				
242	230	12	0	Oak	7	5	0	
101	101	0	0	Planted Mixed Pines				
316	203	113	0	Red Pine		113		
14	0	0	14	Upland Conifers			14	
22	22	0	0	Upland Mixed Forest				
5	5	0	0	Urban				
21	21	0	0	Water			0	
12	12	0	0	White Pine				
2,129	1,843	153	132	Total Forested Acres	15	138	110	22
	87%	7%	6%	Relative Percent				

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

Site No.	Dominant Site Cond Availability	Dominant Site Condition	Acres	Other Site Condition	Other Site Condition	Other Site Condition	Other Site Condition
1	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	14	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Cadillac Mgt. Unit
Blair Tweedale : Examiner

Compartment: 103
Year of Entry: 2023

2	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	28	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
3	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	22	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
4	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	5	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
5	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	33	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Delay treatment. Hold beyond 80 years to help balance age class distribution of Red Pine.							
6	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	68	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Cadillac Mgt. Unit
Blair Tweedale : Examiner

Compartment: 103
Year of Entry: 2023

7	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	20	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
8	Available	5B: Maintain for regeneration purposes	7	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
9	Available	5B: Maintain for regeneration purposes	9	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
10	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	80	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Delay treatment. Hold beyond 80 years to help balance age class distribution of Red Pine.							

Mgt. Unit

Compartment: #Type!

Year of Entry:



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

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

SCA Name	SCA Category	Detail Type	Recommendation	Acres
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Comments



Report 6 – EXISTING SPECIAL CONSERVATION AREA DETAILS

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

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

Conservation Area	Type	Description
SCA	Cold Water Lake	A coldwater lake has temperature and dissolved oxygen conditions that allow naturally-reproduced or stocked trout populations and those of other coldwater fish species to persist from year to year. Suitable conditions for coldwater fishes may occur in Michigan lakes if they are relatively deep, have substantial groundwater inflows, or are located in colder (northern) areas of the state. Such lakes are established by Director's action and designated as trout resources by Fisheries Order 200.
HCVA	Designated Critical Habitat	Critical habitat areas are established via a consultative and cooperative process between the DNR and the U.S. Fish and Wildlife service for the recovery of threatened and endangered species, as governed by Part 365, Endangered Species Protection, of the Natural Resources and Environmental Protection Act, 1994 PA 451, and the Federal Endangered Species Act of 1973. This is an active program, with proposed species plans in various stages of review. As of now only two exist, Kirtland Warbler Habitat and Piping Plover Habitat.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																													
1	500 - Water	Nonstocked	6.5			No																																														
		<table border="1"> <thead> <tr> <th>Sub-Canopy Species</th> <th>Density</th> <th>Avg. Height</th> <th>Size</th> </tr> </thead> <tbody> <tr> <td>Willow spp.</td> <td>Trace</td> <td>Variable</td> <td>Tall Shrub</td> </tr> </tbody> </table>						Sub-Canopy Species	Density	Avg. Height	Size	Willow spp.	Trace	Variable	Tall Shrub																																					
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2	4319 - Mixed Upland Forest	Poletimber Well	9.4	60	81-110	N/A	buffers water long narrow stand																																													
		<table border="1"> <thead> <tr> <th>Canopy Species</th> <th>% Cover</th> <th>Size Class</th> <th>DBH</th> <th>Age</th> <th>Sub-Canopy Species</th> <th>Density</th> <th>Avg. Height</th> <th>Size</th> </tr> </thead> <tbody> <tr> <td>Red Maple</td> <td>30</td> <td>Pole</td> <td>6</td> <td></td> <td>Red Maple</td> <td>Medium</td> <td>5 - 10 feet</td> <td>Sapling</td> </tr> <tr> <td>Red Oak</td> <td>10</td> <td>Log/Pole</td> <td>12</td> <td></td> <td>Northern Pin Oak</td> <td>Low</td> <td>< 5 feet</td> <td>Sapling</td> </tr> <tr> <td>Bigtooth Aspen</td> <td>10</td> <td>Log/Pole</td> <td>10</td> <td></td> <td>White Pine</td> <td>Medium</td> <td>5 - 10 feet</td> <td>Sapling</td> </tr> <tr> <td>White Pine</td> <td>50</td> <td>Pole/Log</td> <td>8</td> <td>60</td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table>						Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size	Red Maple	30	Pole	6		Red Maple	Medium	5 - 10 feet	Sapling	Red Oak	10	Log/Pole	12		Northern Pin Oak	Low	< 5 feet	Sapling	Bigtooth Aspen	10	Log/Pole	10		White Pine	Medium	5 - 10 feet	Sapling	White Pine	50	Pole/Log	8	60				
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size																																												
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3	6229 - Mixed lowland shrub	Nonstocked	1.1			No																																														
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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8	4130 - Aspen	Sapling Well	26.0	15	Immature	N/A	
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Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	10	Sapling	3	
Bigtooth Aspen	75	Sapling	3	15
Northern Pin Oak	5	Log	12	
Northern Pin Oak	10	Sapling	3	

Sub-Canopy Species	Density	Avg. Height	Size
Black Cherry	Low	< 5 feet	Sapling
Oak (spp.)	Low	< 5 feet	Sapling

9	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Well	2.6	100	81-110	N/A	
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Canopy Species	% Cover	Size Class	DBH	Age
Bigtooth Aspen	10	Log/Pole	10	
Balsam Fir	20	Pole/Sapling	6	
Northern White Cedar	40	Log/Pole	10	100
Hemlock	10	Pole/Sapling	5	
Red Maple	15	Pole/Sapling	5	
Balsam Fir	5	Sapling/Pole	4	

Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	Low	5 - 10 feet	Sapling
Witch Hazel	Low	5 - 10 feet	Tall Shrub

10	4134 - Aspen, Spruce/Fir	Poletimber Well	24.5	42	111-140	N/A	a lot of low wet areas scattered super canopy white pine
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Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	10	Pole/Sapling	5	
Quaking Aspen	60	Pole	8	42
Balsam Fir	20	Pole/Sapling	5	
White Pine	10	Log/XLog	14	

Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	Low	< 5 feet	Sapling
White Pine	Low	< 5 feet	Sapling
Black Cherry	Low	< 5 feet	Sapling
Serviceberry (Juneberry)	Low	< 5 feet	Sapling
Red Maple	Medium	Variable	Sapling

11	6139 - Mixed Lowland Forest	Poletimber Well	5.6	75	81-110	N/A	wet scattered super canopy white pine oi stand 10
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Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	10	Pole/Sap/Log	6	
Quaking Aspen	20	Pole	8	
Balsam Fir	20	Pole/Sapling	6	
White Pine	30	Pole/Log	8	75
Black Cherry	10	Pole	5	
Northern Pin Oak	10	Pole	5	

Sub-Canopy Species	Density	Avg. Height	Size
Bigtooth Aspen	Low	5 - 10 feet	Sapling
Balsam Fir	Low	5 - 10 feet	Sapling
White Pine	Low	< 5 feet	Sapling
Blueberry/Bilberry/Cranberry	Medium	< 5 feet	Tall Shrub



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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12 6128 - Lowland Coniferous, Mixed Deciduous Poletimber Well 20.4 85 111-140 N/A wet areas cut with sale 63-020-13-01

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	5	Pole/Log	8	
White Oak	10	Pole	6	
Bigtooth Aspen	10	Pole/Log	8	
Northern White Cedar	20	Pole/Log	8	85
Hemlock	5	Pole/Log	8	
Balsam Fir	5	Pole	6	
White Pine	45	Pole/Log	8	85

Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	Medium	5 - 10 feet	Sapling
White Pine	Low	< 5 feet	Sapling
Black Cherry	Low	< 5 feet	Sapling

13 6239 - Mixed Emergent Wetland Nonstocked 1.0 No

Sub-Canopy Species	Density	Avg. Height	Size
Swamp Laurel	High	5 - 10 feet	Tall Shrub
Alder	Trace	5 - 10 feet	Tall Shrub
Leatherleaf	Full	< 5 feet	Tall Shrub

14 4130 - Aspen Sapling Well 24.4 15 Immature N/A

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	10	Sapling	2	
Bigtooth Aspen	80	Sapling	2	15
Black/Red (Hybrid) Oak	10	Sapling	1	

Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	Low	< 5 feet	Sapling
Northern Pin Oak	Low	< 5 feet	Sapling
Witch Hazel	Low	< 5 feet	Tall Shrub

15 6239 - Mixed Emergent Wetland Nonstocked 0.9 No New stand added.

Sub-Canopy Species	Density	Avg. Height	Size
Alder	Medium		Tall Shrub
Balsam Fir	Low		Seeding

16 429 - Mixed Upland Conifers Poletimber Well 14.3 56 111-140 N/A wet areas

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	5	Pole	6	
Paper Birch	5	Pole	4	
Bigtooth Aspen	20	Pole/Log	6	
Balsam Fir	35	Pole	6	56
White Pine	10	Log/Pole/XLog	10	
Northern Pin Oak	5	Pole	5	
Northern White Cedar	20	Pole	8	

Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	Medium	5 - 10 feet	Sapling
Black Cherry	Low	5 - 10 feet	Sapling

17 6239 - Mixed Emergent Wetland Nonstocked 29.4 No

Sub-Canopy Species	Density	Avg. Height	Size
Alder	Medium	5 - 10 feet	Tall Shrub



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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18	4124 - Red with White Oak	Sawtimber Well	4.4	90	51-80	N/A			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Oak		80	Log	14	90	Red Maple	Medium	5 - 10 feet	Sapling
White Oak		20	Pole/Log	8		Bigtooth Aspen	Medium	5 - 10 feet	Sapling
						Northern Pin Oak	Low	< 5 feet	Sapling

19	4133 - Aspen, Mixed Pine	Sapling Well	11.1	7	51-80	N/A	Treated with sale 63-020-13-01		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir		10	Sapling	1		Red Maple	Low	5 - 10 feet	Sapling
White Pine		15	Log/Pole/XLog	14	110	Witch Hazel	Low	5 - 10 feet	Tall Shrub
Red Pine		5	Log/Pole/XLog	14					
Red Maple		20	Sapling	1	7				
Quaking Aspen		50	Sapling	1	7				

20	4130 - Aspen	Sapling Well	8.7	5	Immature	N/A	Treated with sale 63-020-13-01		
Canopy Species		% Cover	Size Class	DBH	Age				
Red Maple		10	Sapling	1					
Bigtooth Aspen		70	Sapling	1	5				
Balsam Fir		5	Sapling	2					
Black Cherry		10	Sapling	2					
Northern Pin Oak		5	Sapling	2					

21	6239 - Mixed Emergent Wetland	Nonstocked	12.5			No	
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22	4310 - Pine, Oak Mix	Sawtimber Well	12.7	65	51-80	N/A			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple		5	Sapling/Pole	3		Red Maple	Medium	5 - 10 feet	Sapling
Red Oak		15	Log	12		Bigtooth Aspen	High	5 - 10 feet	Sapling
White Oak		5	Log	12		Northern Pin Oak	Low	< 5 feet	Sapling
Bigtooth Aspen		20	Sapling/Pole	3		White Pine	Low	< 5 feet	Sapling
White Pine		55	Log/Pole/XLog	12	65	Black Cherry	Low	5 - 10 feet	Sapling

23	330 - Low-Density Trees	Nonstocked	1.0	0		No	
Sub-Canopy Species		Density	Avg. Height	Size			
Northern Pin Oak		Low	>20 feet	Pole			



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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24 4191 - Mixed Upland Deciduous with Conifer Sawtimber Well 21.8 95 81-110 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	20	Log/Pole	10		Balsam Fir	Low	5 - 10 feet	Sapling
Red Oak	25	Log/XLog	12	95	White Pine	Low	< 5 feet	Sapling
White Oak	20	Log/Pole	8		Black Cherry	Low	5 - 10 feet	Sapling
Bigtooth Aspen	15	Log/Pole	10					
Balsam Fir	10	Pole/Sap/Log	7					
White Pine	10	Log/XLog/Pole	14					

25 4199 - Other Mixed Upland Deciduous Sapling Well 14.7 25 1-50 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	20	Sapling	3		Jack Pine	Low	< 5 feet	Sapling
Red Oak	10	Log/Pole/XLog	14		Black Cherry	Medium	< 5 feet	Sapling
White Oak	10	Log/Pole/XLog	12					
Jack Pine	10	Sapling	3					
Black Cherry	20	Sapling	3					
Northern Pin Oak	30	Sapling	3	25				

26 6220 - Alder/willow Nonstocked 0.8 No Stand swapped from Forested to Non-Forested.

Sub-Canopy Species	Density	Avg. Height	Size
Tag Alder	High		Tall Shrub

27 4125 - Black, N. Pin Oak Poletimber Well 10.1 52 171-200 N/A Some topography. Lower "frost" pockets in stand are dominated by a mix of oak and maple, with smaller diameters.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	5	Pole	6		Red Maple	Low	5 - 10 feet	Sapling
Bigtooth Aspen	25	Pole/Log	8	52	Black Cherry	Low	5 - 10 feet	Sapling
Black Cherry	5	Pole	5		Witch Hazel	Medium	5 - 10 feet	Tall Shrub
Northern Pin Oak	65	Pole	6	52				

28 4191 - Mixed Upland Deciduous with Conifer Poletimber Well 8.6 39 141-170 N/A

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	45	Pole	7	39
Bigtooth Aspen	20	Pole/Log	8	
White Pine	25	Pole/Log	8	
Northern Pin Oak	10	Pole/Log	8	



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																			
29	4136 - Aspen, Mixed Conifer	Poletimber Well	16.7	44	81-110	N/A																																																				
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30	42111 - Planted Red Pine, Mixed Deciduous	Sapling Poor	19.9	8	Immature	N/A																																																				
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34	4124 - Red with White Oak	Sawtimber Medium	6.8	90	1-50	N/A	Treated with sale 63-040-13-01																																																			
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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35 122 - Road/Parking Lot Nonstocked 4.6 Managed Opening long road

36 4130 - Aspen Poletimber Well 11.7 48 81-110 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	10	Pole	7		Black Cherry	Low	5 - 10 feet	Sapling
Bigtooth Aspen	80	Pole/Log	9	48	Witch Hazel	Low	5 - 10 feet	Tall Shrub
Northern Pin Oak	10	Log/Pole	10					

37 4122 - Oak, Pine Poletimber Medium 4.8 90 1-50 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Oak	20	Pole/Log	8		Northern Pin Oak	Medium	< 5 feet	Sapling
White Pine	10	Pole	8		Jack Pine	Medium	< 5 feet	Sapling
Jack Pine	20	Pole/Sapling	5	40	Blueberry/Bilberry/Cranberry	High	< 5 feet	Tall Shrub
Northern Pin Oak	50	Log/Pole	10	90				

38 6128 - Lowland Coniferous, Mixed Deciduous Poletimber Well 2.7 80 81-110 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	20	Pole/Log/Sap	6		Red Maple	Medium	5 - 10 feet	Sapling
Bigtooth Aspen	20	Log/Pole	10		Balsam Fir	Medium	5 - 10 feet	Sapling
Balsam Fir	20	Pole	5	80	Alder	Medium	5 - 10 feet	Tall Shrub
Northern White Cedar	20	Pole/Log	6					
White Pine	20	Log/Pole	10					

39 4130 - Aspen Poletimber Well 5.4 25 81-110 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	20	Pole/Sapling	5		Red Maple	Low	5 - 10 feet	Sapling
Bigtooth Aspen	70	Pole/Sapling	5	25	Black Cherry	Low	5 - 10 feet	Sapling
Black Cherry	10	Pole/Sapling	5		Witch Hazel	Low	5 - 10 feet	Tall Shrub
					Oak (spp.)	Low	< 5 feet	Sapling

40 6239 - Mixed Emergent Wetland Nonstocked 10.8 0 No Stand swapped from Non-Forested to Forested. wet but cut at some time poor regen

41 42250 - Pine, Oak Sapling Well 6.8 6 Immature N/A

Canopy Species	% Cover	Size Class	DBH	Age
Jack Pine	55	Sapling	1	6
Northern Pin Oak	30	Sapling	1	6
White Pine	5	Sapling	1	
Red Maple	10	Sapling	1	6



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																								
42	42200 - Natural White Pine	Poletimber Well	3.0	44	81-110	N/A																																									
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43	4131 - Aspen, Oak	Sapling Well	33.1	31	51-80	N/A																																									
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44	3102 - Grass	Nonstocked	1.0			No																																									
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45	6220 - Alder/willow	Nonstocked	0.6			No	New stand added.																																								
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46	42110 - Planted Red Pine	Sawtimber Well	8.7	65	141-170	N/A	Treated with sale #630121301																																								
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47	42200 - Natural White Pine	Poletimber Medium	9.4	50	1-50	N/A	Treated with sale #630121301																																								
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48	4139 - Aspen, Mixed Deciduous	Sapling Well	4.8	18	Immature	N/A																																									
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
49	42220 - Natural Jack Pine	Poletimber Well	3.9	27	1-50	N/A			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Jack Pine		80	Pole/Sapling	5	27	Northern Pin Oak	Low	< 5 feet	Sapling
Northern Pin Oak		20	Pole/Sapling	5		Jack Pine	Low	< 5 feet	Sapling
						Blueberry/Bilberry/Cranberry	Low	< 5 feet	Tall Shrub
50	4130 - Aspen	Sapling Well	21.0	23	51-80	N/A	Field Visit		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple		20	Pole/Sapling	5		Red Maple	Low	< 5 feet	Sapling
Red Oak		5	Log/Pole	10		Black Cherry	Low	< 5 feet	Sapling
Bigtooth Aspen		60	Sapling/Pole	3	23	Common Blackberry	Medium	< 5 feet	Tall Shrub
White Pine		10	Pole/Log	9		Sweet Fern	Medium	< 5 feet	Tall Shrub
Balsam Fir		5	Sapling	3					
51	4130 - Aspen	Poletimber Well	21.8	43	81-110	N/A			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple		20	Sapling/Pole	4		Red Maple	Low	5 - 10 feet	Sapling
Bigtooth Aspen		70	Pole/Sapling	5	43	Black Cherry	Low	5 - 10 feet	Sapling
Northern Pin Oak		10	Log/Pole	12		Witch Hazel	Low	5 - 10 feet	Tall Shrub
52	4124 - Red with White Oak	Sawtimber Medium	15.1	100	51-80	N/A	treated with sale 63-040-13-01		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Oak		80	Log/Pole	10	100	Red Maple	High	Variable	Sapling
White Oak		20	Log/Pole	10		Bigtooth Aspen	Trace	Variable	Sapling
						White Pine	Low	5 - 10 feet	Sapling
						Red Oak	Low	Variable	Sapling
53	42121 - Planted Jack Pine, Mixed Deciduous	Poletimber Well	3.7	56	171-200	N/A			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Jack Pine		65	Pole/Log	9	56	Northern Pin Oak	Low	< 5 feet	Sapling
Northern Pin Oak		35	Pole/Log	8		Jack Pine	Low	< 5 feet	Sapling
54	4119 - Mixed Northern Hardwoods	Sapling Well	12.4	6	Immature	N/A	treated with sale 63-040-13-01.		
Canopy Species		% Cover	Size Class	DBH	Age				
Quaking Aspen		15	Sapling	1	6				
Red Maple		65	Sapling	1	6				
Red Oak		20	Sapling	1	6				



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
55	4123 - Red Oak	Sawtimber Well	24.6	90	51-80	N/A	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Red Oak		45	Log/XLog	14	90	Witch Hazel	
Black Cherry		10	Log/Pole	11		Red Maple	
Red Maple		25	Log	12		Density	
Northern Pin Oak		20	Log	12		Avg. Height	
						Size	
						Tall Shrub	
						Sapling	
56	4131 - Aspen, Oak	Poletimber Well	17.7	44	81-110	N/A	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Red Maple		20	Pole	8		Red Maple	
White Oak		5	Pole/Sapling	5		Northern Pin Oak	
Bigtooth Aspen		40	Pole	8	44	White Pine	
White Pine		5	Pole/Log	8		Witch Hazel	
Northern Pin Oak		30	Pole	7		Density	
						Avg. Height	
						Size	
						Sapling	
						Sapling	
						Tall Shrub	
57	6239 - Mixed Emergent Wetland	Nonstocked	2.1		Unspecified	No	flowing
Sub-Canopy Species		Density	Avg. Height	Size			
Balsam Fir		Medium		Pole			
White Pine		Medium		Pole			
58	4199 - Other Mixed Upland Deciduous	Sapling Well	22.1	26	1-50	N/A	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Red Maple		30	Sapling	4	26	Witch Hazel	
Red Oak		20	Log/XLog	14	100	Black/Red (Hybrid) Oak	
White Oak		10	Log/XLog	14	100	Density	
Bigtooth Aspen		20	Sapling	4		Avg. Height	
Black Cherry		20	Sapling/Pole	4		Size	
						Tall Shrub	
						Sapling	
59	4131 - Aspen, Oak	Sapling Well	4.6	7	Immature	N/A	Treated with sale 63-020-13-01
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Bigtooth Aspen		40	Sapling	1	7	White Pine	
White Pine		10	Log	14		Witch Hazel	
Northern Pin Oak		10	Log	12		Density	
Red Maple		25	Sapling	2		Avg. Height	
Northern Pin Oak		15	Sapling	2		Size	
						Tall Shrub	
60	3301 - Low Density Deciduous Trees	Nonstocked	4.9			No	Stand swapped from Forested to Non-Forested. old landing
Sub-Canopy Species		Density	Avg. Height	Size			
Pin Oak (Southern)		Medium		Sapling			
Sweet Fern		High		Tall Shrub			



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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61	4122 - Oak, Pine	Poletimber Medium	28.0	28	1-50	N/A	stand has been cut good regen of oak pine
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	10	Pole/Sapling	5		White Pine	Low	5 - 10 feet	Sapling
Red Oak	10	Pole/Log	6		Witch Hazel	Low	5 - 10 feet	Tall Shrub
White Oak	20	Pole/Sapling	6		Northern Pin Oak	Medium	< 5 feet	Sapling
White Pine	30	Log/Pole	8					
Northern Pin Oak	30	Pole/Sapling	6	28				

62	4130 - Aspen	Sapling Well	9.6	5	Immature	N/A	Treated with sale 63-020-13-01
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	15	Sapling	1		Red Maple	Low	< 5 feet	Sapling
Red Oak	5	Log/Pole	12		Witch Hazel	Medium	5 - 10 feet	Tall Shrub
White Oak	5	Pole	7					
Bigtooth Aspen	70	Sapling	1	5				
Northern Pin Oak	5	Log	14					

63	4199 - Other Mixed Upland Deciduous	Sapling Well	14.4	7	Immature	N/A	Treated with sale 63-022-13-01
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Northern Pin Oak	40	Sapling	1	7	Common Lowbush Blueberry	Medium	5 - 10 feet	Tall Shrub
Bigtooth Aspen	20	Sapling	1					
Red Maple	20	Sapling	1					
Jack Pine	10	Sapling	1					
Black Cherry	10	Sapling	1					

64	4125 - Black, N. Pin Oak	Poletimber Well	12.2	27	Immature	N/A	63-020-13-01
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	10	Pole/Sapling	5		Witch Hazel	Medium	5 - 10 feet	Tall Shrub
White Oak	5	Pole/Sapling	5		Oak (spp.)	Medium	< 5 feet	Sapling
Bigtooth Aspen	10	Pole/Sapling	5	7				
Northern Pin Oak	70	Pole/Sapling	5	27				
Black Cherry	5	Pole/Sapling	5					

65	4131 - Aspen, Oak	Sapling Well	50.8	27	1-50	N/A	
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	30	Sapling	4		Black Cherry	Low	< 5 feet	Sapling
Red Oak	10	Log/Pole	10		Witch Hazel	Low	5 - 10 feet	Tall Shrub
White Oak	5	Log/Pole	10		Blueberry/Bilberry/Cranberry	Medium	< 5 feet	Tall Shrub
Bigtooth Aspen	40	Sapling	4	27	Northern Pin Oak	Low	< 5 feet	Sapling
White Pine	5	Pole	6					
Northern Pin Oak	10	Pole/Log	8					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
66	4121 - Oak, Aspen	Sawtimber Well	6.0	70	51-80	N/A	low quality		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple		5	Pole	8		Red Maple	Low	5 - 10 feet	Sapling
Bigtooth Aspen		35	Pole	8		Black Cherry	Low	5 - 10 feet	Sapling
Northern Pin Oak		60	Log/Pole	10	70	Witch Hazel	High	5 - 10 feet	Tall Shrub
67	4130 - Aspen	Poletimber Well	9.3	27	201+	N/A	63-020-13-01		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple		10	Pole/Sapling	5		Witch Hazel	Medium	5 - 10 feet	Tall Shrub
White Oak		5	Pole/Sapling	5		Northern Pin Oak	Medium	< 5 feet	Sapling
Bigtooth Aspen		80	Pole/Sapling	5	27				
Northern Pin Oak		5	Pole/Sapling	5					
69	4125 - Black, N. Pin Oak	Sapling Well	43.5	26	Immature	N/A	Mixed deciduous regeneration, with mature oak (mainly western).		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple		15	Sapling	3	26	Black Cherry	Medium	5 - 10 feet	Sapling
White Oak		10	Log/Pole	10		Witch Hazel	Medium	5 - 10 feet	Tall Shrub
Bigtooth Aspen		15	Sapling	2					
Black Cherry		10	Sapling	2					
Northern Pin Oak		50	Sapling/Pole	4	26				
70	4130 - Aspen	Poletimber Well	21.4	52	171-200	N/A	Some topography. Lower "frost" pockets in stand are dominated by a mix of oak and maple, with smaller diameters.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple		5	Pole	6		Red Maple	Low	5 - 10 feet	Sapling
Bigtooth Aspen		75	Pole/Log	8	52	Black Cherry	Low	5 - 10 feet	Sapling
Black Cherry		5	Pole	5		Witch Hazel	Medium	5 - 10 feet	Tall Shrub
Northern Pin Oak		15	Pole	6					
71	4130 - Aspen	Sapling Well	1.6	16	Immature	N/A			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple		15	Sapling/Pole	3		Witch Hazel	Low	< 5 feet	Tall Shrub
Bigtooth Aspen		85	Sapling/Pole	4	16	Northern Pin Oak	Low	< 5 feet	Sapling
72	3303 - Mixed Low Density Trees	Nonstocked	2.8		Unspecified	No			
Sub-Canopy Species		Density	Avg. Height	Size					
Black Cherry		Low		Sapling					
Oak (spp.)		Low		Seeding					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
73	4131 - Aspen, Oak	Poletimber Well	8.3	45	111-140	N/A	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Red Maple		5	Pole	6		Witch Hazel	
Bigtooth Aspen		55	Pole	7	45	Density	Avg. Height
Black Cherry		2	Pole	6		Medium	5 - 10 feet
Northern Pin Oak		38	Pole	6			Tall Shrub
74	4130 - Aspen	Poletimber Well	22.4	44	141-170	N/A	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Red Maple		15	Pole	6		Witch Hazel	
Bigtooth Aspen		70	Pole/Log	8	44	Density	Avg. Height
Northern Pin Oak		15	Pole	6		Low	< 5 feet
						Trace	Variable
							Sapling
75	42110 - Planted Red Pine	Poletimber Well	9.2	65	171-200	N/A	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Red Pine		100	Pole/Log	9	65	Black Cherry	
						Low	< 5 feet
							Sapling
76	4199 - Other Mixed Upland Deciduous	Poletimber Medium	28.5	25	1-50	N/A	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Red Maple		10	Sapling	4		Northern Pin Oak	
Black Cherry		30	Pole/Sapling	5		Trace	< 5 feet
Northern Pin Oak		50	Pole/Sapling	5	25	Medium	< 5 feet
Bigtooth Aspen		10	Pole/Sapling	5			Tall Shrub
77	4126 - White, Black, N. Pin Oak	Poletimber Well	12.6	40	81-110	N/A	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Red Maple		20	Pole/Sapling	5		Red Maple	
White Oak		30	Pole/Sapling	5		Low	5 - 10 feet
Bigtooth Aspen		10	Pole/Sapling	5		Medium	5 - 10 feet
Northern Pin Oak		40	Pole/Sapling	5	40	High	5 - 10 feet
						High	5 - 10 feet
							Tall Shrub
78	42220 - Natural Jack Pine	Poletimber Well	24.2	65	111-140	N/A	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Jack Pine		85	Pole/Log	8	65	Red Maple	
Northern Pin Oak		15	Pole/Sapling	5		Low	Variable
						High	Variable
							Tall Shrub
						Low	Variable
							Sapling



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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79 4126 - White, Black, N. Pin Oak Sapling Well 14.7 16 Immature N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Oak	10	Sapling	3	16	Red Maple	Low	< 5 feet	Sapling
Black Cherry	10	Sapling/Pole	3		White Oak	High	< 5 feet	Sapling
Northern Pin Oak	65	Sapling	4	16	Northern Pin Oak	High	< 5 feet	Sapling
Jack Pine	15	Sapling	3		Jack Pine	Low	< 5 feet	Sapling
					Black Cherry	Low	< 5 feet	Sapling
					Witch Hazel	Low	< 5 feet	Tall Shrub

80 4199 - Other Mixed Upland Deciduous Poletimber Medium 11.3 60 51-80 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Jack Pine	10	Sapling/Pole	4		Northern Pin Oak	Low	< 5 feet	Sapling
Black Cherry	50	Pole/Log/Sap	6	60	Black Cherry	Low	< 5 feet	Sapling
Northern Pin Oak	40	Pole	6		Blueberry/Bilberry/Cranberry	Low	< 5 feet	Tall Shrub
					Sweet Fern	Low	< 5 feet	Tall Shrub

81 42220 - Natural Jack Pine Poletimber Well 48.1 51 81-110 N/A Snow and wind damage.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Jack Pine	90	Pole	7	51	White Oak	Low	< 5 feet	Sapling
Northern Pin Oak	10	Pole/Sapling	5		Northern Pin Oak	Low	< 5 feet	Sapling

82 42110 - Planted Red Pine Sawtimber Well 79.7 81 81-110 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Pine	100	Log/Pole	10	81	Northern Pin Oak	Low	Variable	Sapling
					Blueberry/Bilberry/Cranberry	Medium	< 5 feet	Tall Shrub
					Jack Pine	Medium	Variable	Sapling

83 42220 - Natural Jack Pine Sapling Well 51.6 16 Immature N/A

Canopy Species	% Cover	Size Class	DBH	Age
Jack Pine	85	Sapling	2	16
Northern Pin Oak	15	Sapling/Pole	2	

84 4199 - Other Mixed Upland Deciduous Sapling Well 11.8 5 51-80 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	25	Sapling	1		Witch Hazel	Trace	5 - 10 feet	Tall Shrub
Red Oak	5	Log	14		Blueberry/Bilberry/Cranberry	Low	< 5 feet	Tall Shrub
Bigtooth Aspen	25	Sapling	1	5				
Northern Pin Oak	45	Sapling	1	5				



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																				
86	42140 - Planted Mixed Pine	Sapling Well	100.8	8	Immature	N/A																																					
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88	42110 - Planted Red Pine	Sawtimber Well	47.8	68	111-140	N/A																																					
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89	42220 - Natural Jack Pine	Sapling Well	96.1	26	Immature	N/A																																					
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90	4125 - Black, N. Pin Oak	Sapling Well	3.3	16	1-50	N/A																																					
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91	42220 - Natural Jack Pine	Poletimber Well	25.3	35	81-110	N/A																																					
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92	42220 - Natural Jack Pine	Sapling Well	12.8	6	Immature	N/A	Fully stocked regenerating stand of jack pine and pin oak																																				
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93	42250 - Pine, Oak	Sapling Well	38.3	8	Immature	N/A																																					
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
94	42110 - Planted Red Pine	Sawtimber Well	33.1	82	81-110	N/A			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Pine		100	Log	12	82	Northern Pin Oak	Low	< 5 feet	Sapling
						Blueberry/Bilberry/Cranberry	Low	< 5 feet	Tall Shrub
95	42220 - Natural Jack Pine	Poletimber Well	15.6	34	81-110	N/A			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Jack Pine		100	Pole/Sapling	5	34	Northern Pin Oak	Trace	< 5 feet	Sapling
96	3102 - Grass	Nonstocked	4.7		Immature	No	eastern portion of opening is sand, and is receiving ATV/vehicle traffic, which is preventing re-vegetation.		
Sub-Canopy Species		Density	Avg. Height	Size					
Blueberry/Bilberry/Cranberry		Low		Tall Shrub					
97	42220 - Natural Jack Pine	Sapling Poor	6.0	6	Immature	N/A	Treated with sale 63-022-13-01 natural regen.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Jack Pine		80	Sapling	1	6	Northern Pin Oak	Low	< 5 feet	Sapling
Pin Oak (Southern)		20	Sapling	1		Blueberry/Bilberry/Cranberry	Medium	< 5 feet	Tall Shrub
98	42110 - Planted Red Pine	Sawtimber Well	110.1	82	111-140	N/A			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Pine		97	Log/Pole	11	82	Northern Pin Oak	High	< 5 feet	Sapling
Northern Pin Oak		3	Pole	6		Jack Pine	Low	< 5 feet	Sapling
99	42121 - Planted Jack Pine, Mixed Deciduous	Poletimber Medium	25.9	27	1-50	N/A	open grown		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Jack Pine		80	Pole	6	27	Northern Pin Oak	Low	< 5 feet	Sapling
Northern Pin Oak		20	Pole/Sapling	7		Jack Pine	Low	< 5 feet	Sapling
						Blueberry/Bilberry/Cranberry	Low	< 5 feet	Tall Shrub
100	42121 - Planted Jack Pine, Mixed Deciduous	Poletimber Well	11.5	38	171-200	N/A			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Jack Pine		65	Pole	5	38	Northern Pin Oak	Low	< 5 feet	Sapling
Northern Pin Oak		35	Pole	5		Jack Pine	Low	< 5 feet	Sapling
101	42120 - Planted Jack Pine	Poletimber Well	8.2	31	81-110	N/A			
Canopy Species		% Cover	Size Class	DBH	Age				
Jack Pine		95	Pole/Sapling	5	31				
Northern Pin Oak		5	Sapling/Pole	4					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																														
102	6239 - Mixed Emergent Wetland	Nonstocked	11.9			No flowing																																															
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103	42250 - Pine, Oak	Sapling Well	125.8	15	1-50	N/A	cut in winter of 05,06. good subcanopy of jack pine and oak . scattered oak and jack pole and log size left throughout stand																																														
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104	42220 - Natural Jack Pine	Poletimber Well	30.9	60	51-80	N/A																																															
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105	4122 - Oak, Pine	Poletimber Poor	42.0	29	1-50	N/A																																															
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106	6130 - Fir, Aspen, Maple	Sawtimber Well	27.3	110	81-110	N/A																																															
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107	4191 - Mixed Upland Deciduous with Conifer	Sapling Well	20.4	6	Immature	N/A																																															
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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108 6117 - Lowland Deciduous, Mixed Coniferous Poletimber Medium 68.3 69 1-50 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
American Elm	10	Pole	6		Red Maple	Low	5 - 10 feet	Sapling
Red Maple	50	Log/Pole	10	69	White Pine	Low	5 - 10 feet	Sapling
Quaking Aspen	10	Pole/Sapling	7		Witch Hazel	Low	5 - 10 feet	Tall Shrub
White Pine	30	Pole/Log/Sap	8		Alder	Low	10 - 20 feet	Tall Shrub

109 500 - Water Nonstocked 13.5 No muskegon river

110 4123 - Red Oak Sawtimber Well 13.5 100 1-50 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Oak	75	Log	14	100	Red Maple	Trace	Variable	Sapling
White Oak	5	Log	14		Red Oak	Low	< 5 feet	Sapling
Red Maple	20	Log/Pole	10					

111 4130 - Aspen Sapling Well 6.0 5 Immature N/A Treated with sale 63-020-13-01

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	15	Sapling	1		Red Maple	Low	< 5 feet	Sapling
Red Oak	5	Log/Pole	12		Witch Hazel	Medium	5 - 10 feet	Tall Shrub
White Oak	5	Pole	7					
Bigtooth Aspen	70	Sapling	1	5				
Northern Pin Oak	5	Log	14					

112 500 - Water Nonstocked 0.9 No muskegon river

114 310 - Herbaceous Openland Nonstocked 16.6 0 Immature 4319 - Mixed Upland Forest Red pine failed, especially in Northern end. May be a fully stocked pine oak mix.

Sub-Canopy Species	Density	Avg. Height	Size
Red Pine	Low	< 5 feet	Seeding
Jack Pine	Low	< 5 feet	Seeding
Black/Red (Hybrid) Oak	Medium	< 5 feet	Seeding
Red Maple	Low	< 5 feet	Seeding

115 6112 - Lowland Aspen Sapling Poor 5.0 5 1-50 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Bigtooth Aspen	50	Sapling	1	5	Balsam Fir	Low	< 5 feet	Sapling
Red Maple	30	Sapling	1		Bigtooth Aspen	Low	< 5 feet	Sapling
Northern White Cedar	5	Log/Pole	12		Red Maple	Low	< 5 feet	Sapling
Northern Pin Oak	7	Log/Pole	12					
White Oak	8	Log/Pole	12					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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116 42110 - Planted Red Pine Poletimber Well 7.2 75 111-140 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Pine	90	Log/Pole	10	75	Northern Pin Oak	Low	< 5 feet	Sapling
Jack Pine	5	Pole	5		Blueberry/Bilberry/Cranberry	Low	< 5 feet	Tall Shrub
Northern Pin Oak	5	Sapling	3					

118 4130 - Aspen Sapling Well 4.4 5 Immature N/A Treated with sale 63-020-13-01

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	15	Sapling	1		Red Maple	Low	< 5 feet	Sapling
Red Oak	5	Log/Pole	12		Witch Hazel	Medium	5 - 10 feet	Tall Shrub
White Oak	5	Pole	7					
Bigtooth Aspen	70	Sapling	1	5				
Northern Pin Oak	5	Log	14					

119 4131 - Aspen, Oak Poletimber Well 9.0 31 51-80 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	10	Sapling/Pole	4		Witch Hazel	Trace	5 - 10 feet	Tall Shrub
Red Oak	50	Pole	5	31	Blueberry/Bilberry/Cranberry	Low	< 5 feet	Tall Shrub
Bigtooth Aspen	40	Sapling/Pole	4	31				

121 4130 - Aspen Sapling Well 1.0 5 Immature N/A Treated with sale 63-020-13-01

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	15	Sapling	1		Red Maple	Low	< 5 feet	Sapling
Red Oak	5	Log/Pole	12		Witch Hazel	Medium	5 - 10 feet	Tall Shrub
White Oak	5	Pole	7					
Bigtooth Aspen	70	Sapling	1	5				
Northern Pin Oak	5	Log	14					