



Compartment Review Presentation

Cadillac Forest Management Unit

Compartment 63138

Entry Year 2021

Acreage: 2,117

County Wexford

Management Area: Manistee River Valley

Revision Date: 2019-06-11

Stand Examiner: Joe Ventimiglia

Legal Description:

T24N, R9W, Sections 21, 22, 23, 24, 25, 27

Identified Planning Goals:

Vegetation management in the Manistee River Valley Management Area will provide timber products; maintain or enhance wildlife habitat; protect areas of unique character including the Manistee River and its tributaries, a designated natural river; threatened, endangered and special concern species; and provide for forest-based recreational uses. Timber management for this 10-year planning period includes continuing aspen management to maintain early successional habitat for hunting and other wildlife-related recreational opportunities; increasing regeneration of oak; focusing on balancing the red pine age class structure through final harvests and re-planting; and on improving red pine quality through partial harvests. Expected trends within this 10-year planning period are increased recreational pressure, especially on the established trails and along the Manistee River and its tributaries; an increased wildland/urban interface and a need to restore barrens communities through prescribed fire; and invasive plant control.

Soil and topography:

Montcalm upland soils and Tawas in lowland. Mostly flat with streams and lowland areas.

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

Solid state ownership except for 80 acres in section 23 and 40 acres in section 24. These parcels would both be desirable acquisitions to block in.

Unique Natural Features:

Potential for wood turtle and eastern massasauga. Potential for pine barrens insects: dusted skipper, Great Plains spittlebug, and red-legged spittlebug. Potential for red-shouldered hawk and goshawk. Potential for eagle, osprey, and great blue heron rookery.

Archeological, Historical, and Cultural Features:

Special Management Designations or Considerations:

Maintain integrity of the streams and corridors along wet areas. Many trout streams and cold water streams that flow into Manistee River.

Watershed and Fisheries Considerations:

Morrisy creek, Golden creek, Chase creek and unnamed tributaries all in compartment and flow north to the Manistee River.

Wildlife Habitat Considerations:

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, golden-winged warbler, mallard, pileated woodpecker, ruffed grouse, snowshoe hare, white-tailed deer, and wood duck. 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

Surface sediments consist of coarse-textured till, an end moraine of coarse-textured till and minor glacial outwash sand and gravel and postglacial alluvium. The glacial drift thickness varies between 200 and 600feet. Beneath the glacial drift is the Mississippian Michigan Formation. The Michigan is quarried for gypsum in other areas of the State. Gravel pits are located in the area and there is potential. This area is located eight miles southeast of the prolific Silurian Guelph (Niagaran) reef trend. Oil and gas has unknown potential in the Compartment and none of the Compartment is currently leased.

Vehicle Access:

Within the compartment map a detailed road network is outlined. Road and trail maps are also available on the State of Michigan's website.

Survey Needs:

None at this time.

Recreational Facilities and Opportunities:

Snowmobile trail, ORV trail and the Horse trails are all in this compartment. Chase creek, Morrissey creek and Golden creek also run from south to north in this compartment. Fishing and hunting opportunities also abound in this area.

Fire Protection:

There are areas of urban interface within the compartment. Areas of pine are scattered throughout the compartment. Access would be fairly good for suppression equipment. IA is from the Manton FO, and response times should be fairly good. Recreational use could intensify wildfire occurrence.

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

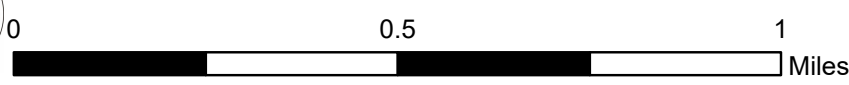
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

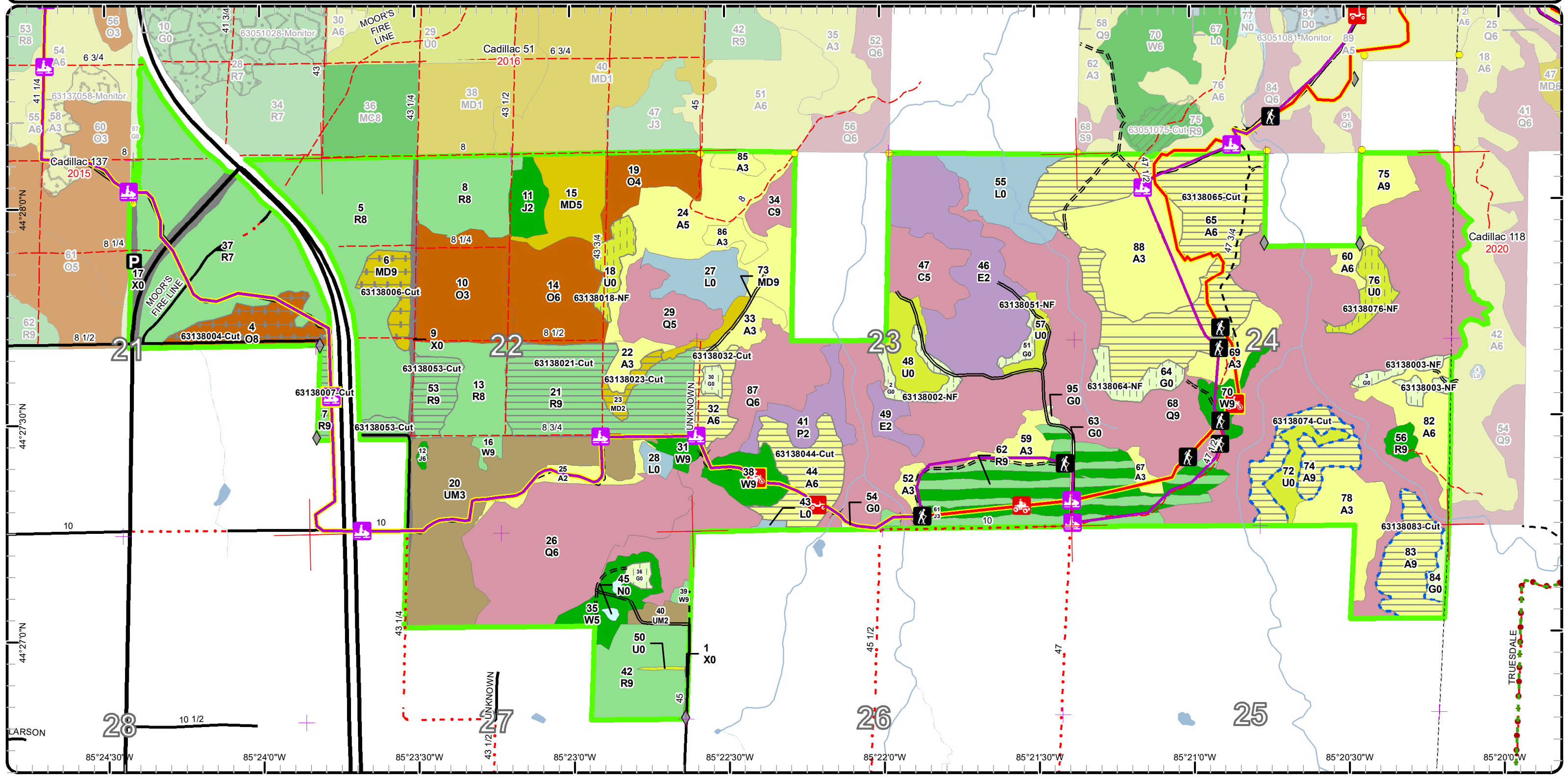
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

Cover Type & Treatments Map

Compartment: 138
 T24N - R09W Sec. 22-25, 27
 County: Wexford
 Unit: Cadillac
 Mgmt Area: Manistee River Valley
 YOE: 2021
 Acres: 2,117 GIS Calculated
 Examiner: Joe Ventimiglia
 Map Revised: 11/18/2019
 Map Phase: Post-Review

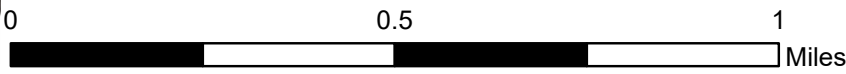


- Miris Corners
- + Remonumented Section Corners
- Survey Grade Corners
- ◆ Field Grade Corners
- Counties
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Federal / State Highway
- Federal / State / County - Paved Road
- Federal / State - Dirt / Gravel Road
- County - Gravel Road
- County - Dirt Road (Seasonal)
- 🚶 Hiking Trails
- 🐎 Horse Trails
- 🚲 MCCCT Trails
- 🚲 ORV Trails
- 🚲 ORV Routes
- 🚲 Snowmobile Trails
- - - Designated Hiking Trails
- Designated Equestrian Trails
- - - Designated ATV Trails
- - - Designated ORV Route
- - - Designated Snowmobile Trails
- Michigan Cross Country Cycle Trail (MCCCT)
- 🌉 Bridges
- P Parking Lot
- Intermittent Stream
- Lake/Pond
- Perennial River
- Lakes and Rivers
- Compartment Boundary
- Treatments with Site Conditions
- Clearcut (w/Reserves)
- Harvest, Overstory Removal
- Opening Maintenance
- 412 - Oak Types
- 413 - Aspen Types
- 419 - Mixed Upland Deciduous
- 421 - Planted Pines
- 422 - Natural Pines
- 430 - Upland Mixed Forest
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 122 - Roads/Parking Lot
- 310 - Herbaceous Openland
- 330 - Low Density Trees
- 622 - Lowland Shrub
- 623 - Emergent Wetland



Stand Boundary Map

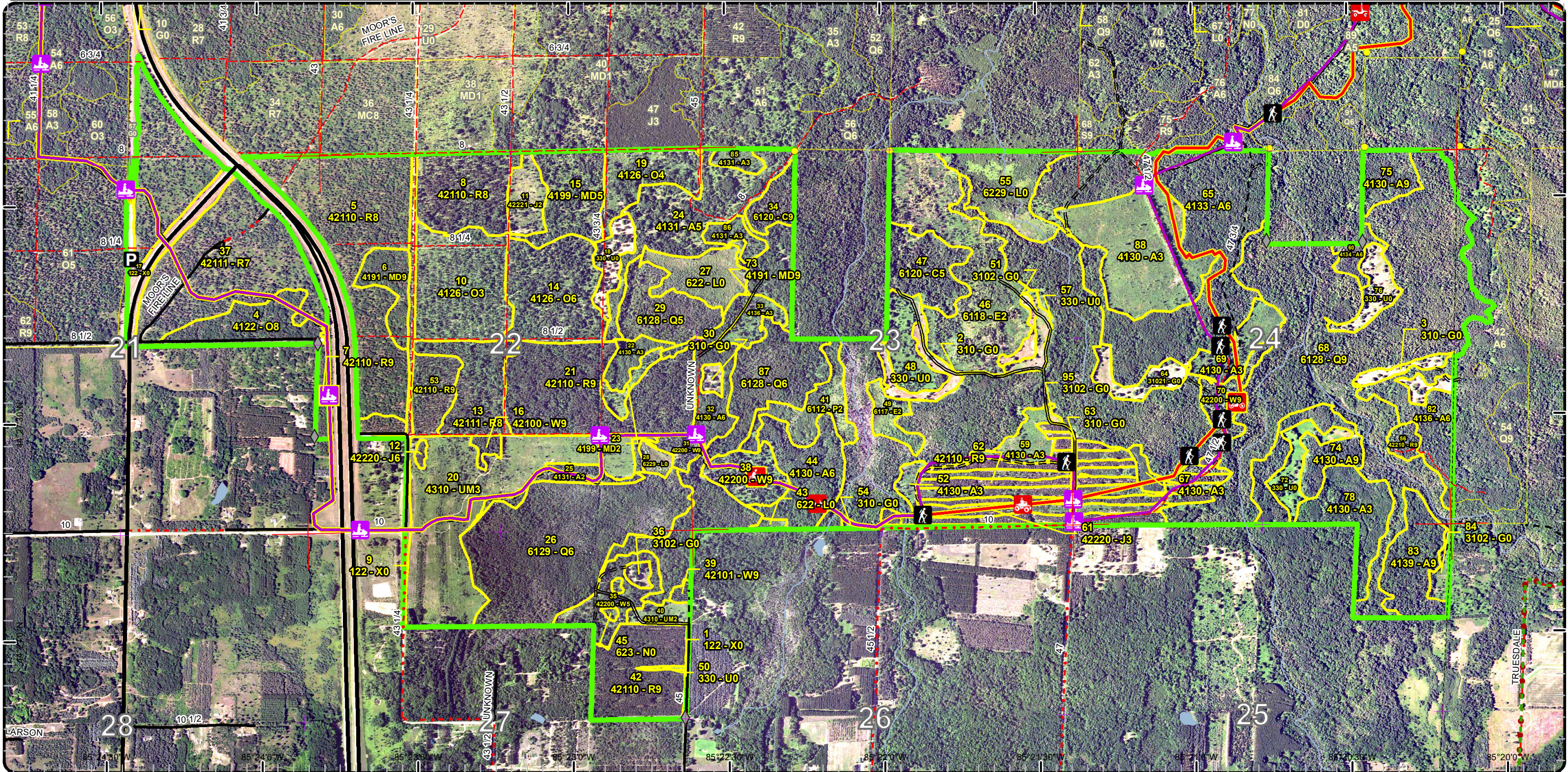
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- Designated ORV Route
- Designated Snowmobile Trails
- Michigan Cross Country Cycle Trail (MCCCT)

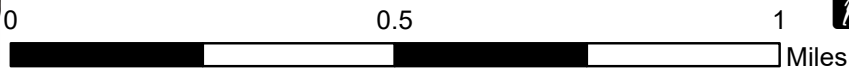
- Bridges
- Parking Lot
- Intermittent Stream
- Lake/Pond
- Perennial River
- Lakes and Rivers
- Compartment Boundary
- Stand Boundaries

- 612 - Lowland Coniferous Forest
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- 623 - Emergent Wetland
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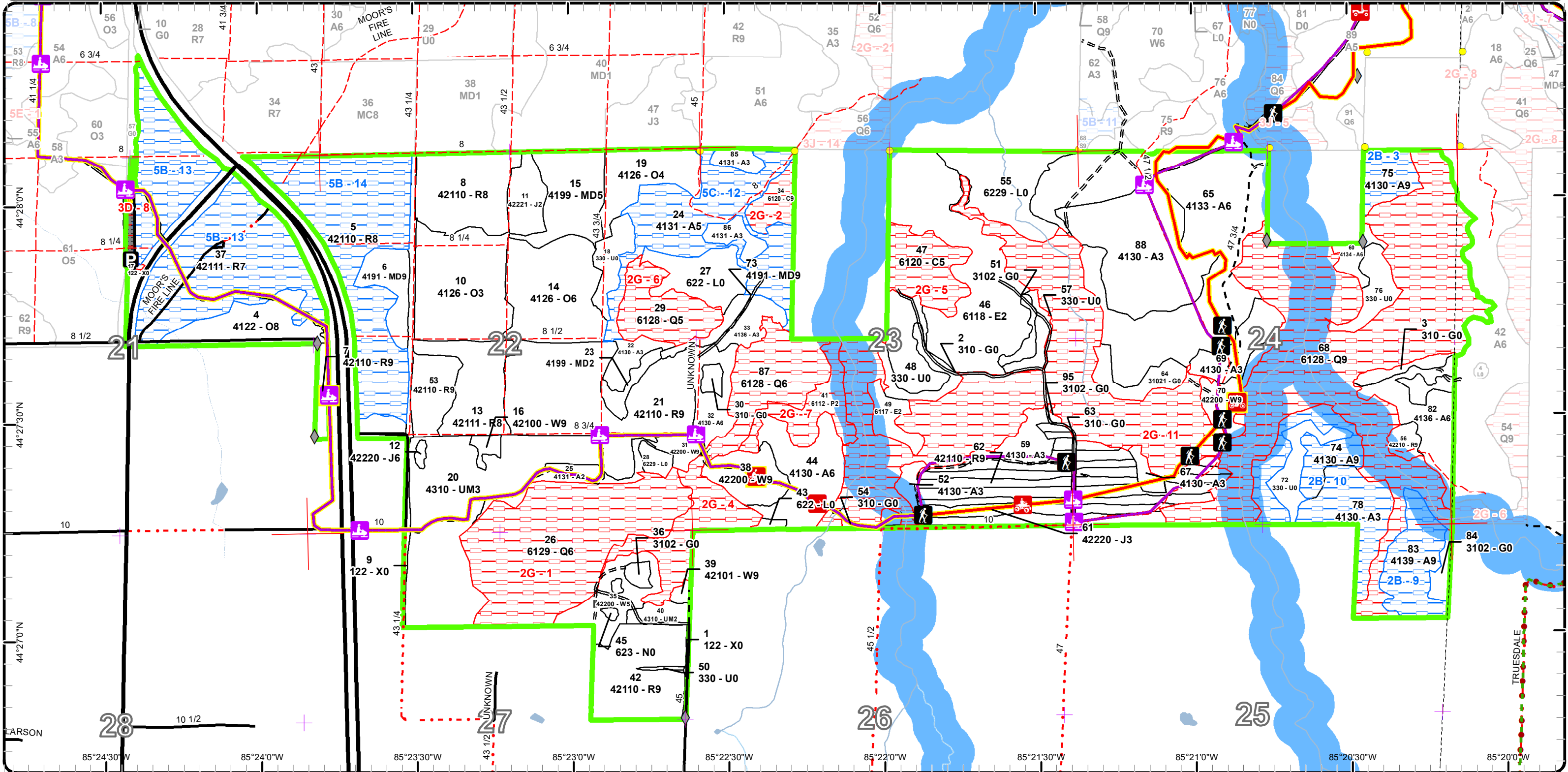


Special Conservation Areas & Site Conditions Map

Compartment: 138
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 - County - Dirt Road (Seasonal)
 - Hiking Trails
 - Horse Trails
 - MCCCT Trails
 - ORV Trails
 - ORV Routes
 - Snowmobile Trails
 - Designated Hiking Trails
 - Designated Equestrian Trails
 - Designated ATV Trails
 - Designated ORV Route
 - Designated Snowmobile Trails
 - Michigan Cross Country Cycle Trail (MCCCT)
 - Bridges
 - Parking Lot
 - Intermittent Stream
 - Lake/Pond
 - Perennial River
 - Lakes and Rivers
 - Compartment Boundary
 - Available w/ Constraints
 - Unavailable
 - 3D: Recreational / Scenic values
 - Stand Boundaries
 - SCA
 - Cold Water Streams
 - Cold Water Lakes
 - High Priority Trout Stream Buffer
 - Trail Head
- 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)



Report 1 – Total Acres by Cover Type and Age Class



Age Class

	Non-Forest	0-9	10-19	20-29	30-39	40-49	50-59	60-69	70-79	80-89	90-99	100-109	110-119	120-129	130-139	140-149	150+	Uneven-Aged	Total
Aspen	0	98	46	0	0	141	114	25	25	0	0	0	0	0	0	0	0	4	453
Cedar	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	32	32
Herbaceous Openland	44	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	44
Jack Pine	0	11	39	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	51
Low-Density Trees	54	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	54
Lowland Aspen/Balsam Poplar	0	0	18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	18
Lowland Conifers	0	0	0	0	0	0	0	0	0	0	86	0	0	0	0	0	0	472	558
Lowland Deciduous	0	68	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	76
Lowland Shrub	52	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	52
Marsh	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Mixed Upland Deciduous	0	5	0	0	0	0	0	5	0	0	0	0	0	0	0	0	0	39	49
Oak	0	0	0	0	21	42	0	0	0	0	24	0	0	0	0	0	0	46	133
Red Pine	0	0	0	0	0	0	0	80	0	0	284	0	0	0	0	0	0	63	427
Upland Mixed Forest	0	90	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	90
Urban	28	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	28
White Pine	0	0	0	0	0	0	0	26	0	0	0	0	0	0	0	0	0	28	54
Total	179	272	111	0	22	183	114	136	25	0	394	0	0	0	0	0	0	684	2120



Report 2 – Treatment Summary

Cadillac Mgt. Unit

Year of Entry: 2021

Acres of Harvest

Compartment 138

Total Compartment Acres: 2,117

Commercial Harvest - 287
 Harvests with Site Condition - 50
 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	206	0	0	0	0	0	0	0	0	206
Mixed Upland Deciduous	5	0	0	0	0	13	0	0	0	18
Oak	0	0	0	0	0	24	0	0	0	24
Red Pine	89	0	0	0	0	0	0	0	0	89
Total	300	0	0	0	0	37	0	0	0	337

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	337	0	0	0	0	0	0	56	0	392
Next Step	0	65	65	0	65	372	5	0	0	572
Total	337	65	65	0	65	372	5	56	0	964



S t a n d	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
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Approved Treatments:

2	63138002-NF	8.2	310 - Herbaceous Openland	Nonstocked		Unspec ified	NonForestMgt	Herbaceous/Crop /Grass Planting	310 - Herbaceous Openland		No
<p><u>Prescription</u> Mow or plant forage and brood rearing herbaceous species. Till, fertilize, and plant annually or on rotation. Option to convert to perennial <u>Specs:</u> grass/forb mix with mast producing species.</p> <p><u>Next Step</u> <u>Treatments:</u></p> <p><u>Acceptable</u> <u>Regen:</u></p> <p><u>Other</u> <u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2020</p>											
3	63138003-NF	8.4	310 - Herbaceous Openland	Nonstocked		Unspec ified	NonForestMgt	Herbaceous/Crop /Grass Planting	310 - Herbaceous Openland		No
<p><u>Prescription</u> Mow or plant forage and brood rearing herbaceous species. Till, fertilize, and plant annually or on rotation. Option to convert to perennial <u>Specs:</u> grass/forb mix with mast producing species.</p> <p><u>Next Step</u> <u>Treatments:</u></p> <p><u>Acceptable</u> <u>Regen:</u></p> <p><u>Other</u> <u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2020</p>											
4	63138004-Cut	24.0	4122 - Oak, Pine	Sawtimber Medium	95	51-80	Harvest	Overstory Removal	4319 - Mixed Upland Forest	Even-Aged	No
<p><u>Prescription</u> Over Story Removal. Leave all oak, pine and maple less than 4 inches in diameter. <u>Specs:</u></p> <p><u>Next Step</u> <u>Treatments:</u></p> <p><u>Acceptable</u> Oak, maple and aspen with some pine mixed in. <u>Regen:</u></p> <p><u>Other</u> Add oak wilt spec. <u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2020</p>											



Standard

Standard	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
	6 63138006-Cut	12.9	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Well	95	51-80	Harvest	Overstory Removal	4319 - Mixed Upland Forest	Even-Aged	No
<p><u>Prescription</u> Over Story Removal. Leave all oak, maple and pine less than 4 inches in diameter.</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> Mixed oak, maple, aspen and a few pine.</p> <p><u>Regen:</u></p> <p><u>Other</u> Add Oak Wilt Spec.</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2020</p>											
	7 63138007-Cut	5.6	42110 - Planted Red Pine	Sawtimber Well	91	81-110	Harvest	Clearcut	4319 - Mixed Upland Forest	Even-Aged	No
<p><u>Prescription</u> Final Harvest. No retention as a result of small size. Green ring a handful of red pine for visual and structure along highway and snow trail.</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> Oak and maple with a few pine.</p> <p><u>Regen:</u></p> <p><u>Other</u> No blue line should be needed, use tree line.</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2020</p>											
	18 63138018-NF	10.0	330 - Low-Density Trees	Nonstocked		Unspecified	NonForestMgt	Herbaceous/Crop /Grass Planting	310 - Herbaceous Openland		No
<p><u>Prescription</u> Mow or plant forage and brood rearing herbaceous species. Till, fertilize, and plant annually or on rotation. Option to convert to perennial grass/forb mix with mast producing species.</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable</u></p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2020</p>											
	21 63138021-Cut	64.8	42110 - Planted Red Pine	Sawtimber Well	91	111-140	Harvest	Clearcut	4211 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> Final Harvest 2 inch spec require chipping. No retention as a result of management objective.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Pesticide, Skidder - Site Prep; SitePrep, Trenching; Planting, Initial Plant; Monitoring, Artificial Regen(1yr); Monitoring, Artificial Regen(3yr)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Planted red pine, limit hardwood and oak competition with site prep.</p> <p><u>Regen:</u></p> <p><u>Other</u> Site prep spray and re plant to red pine. Objective is to replant site to red pine and limit other hardwood competition to allow red pine to thrive and limit shading of seedlings.</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2020</p>											



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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
23 63138023-Cut	5.1	4199 - Other Mixed Upland Deciduous	Sapling Medium	7	Immature	Harvest	Clearcut	4211 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> Final harvest along with stand 21, no retention as a result of small size. <u>Specs:</u> <u>Next Step</u> Other, Other <u>Treatments:</u> <u>Acceptable</u> red pine planted <u>Regen:</u> <u>Other</u> TMS in pre review idea to include with planted red pine, all next step treatments will be followed in stand 21 for simplicity. <u>Comment:</u> <u>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /2020</p>										
30 63138030-NF	2.6	310 - Herbaceous Openland	Nonstocked		Unspecified	NonForestMgt	Herbaceous/Crop /Grass Planting	310 - Herbaceous Openland		No
<p><u>Prescription</u> Mow or plant forage and brood rearing herbaceous species. Till, fertilize, and plant annually or on rotation. Option to convert to perennial grass/forb mix with mast producing species. <u>Specs:</u> <u>Next Step</u> <u>Treatments:</u> <u>Acceptable</u> <u>Regen:</u> <u>Other</u> <u>Comment:</u> <u>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /2020</p>										
32 63138032-Cut	13.3	4130 - Aspen	Poetimber Well	48	51-80	Harvest	Clearcut with Retention	4133 - Aspen, Mixed Pine	Even-Aged	No
<p><u>Prescription</u> Final harvest leave all white pine and leave retention island 3 percent of total acreage. <u>Specs:</u> <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u> <u>Acceptable</u> Aspen mixed pine. <u>Regen:</u> <u>Other</u> Buffer creek appropriately. <u>Comment:</u> <u>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /2020</p>										
36 63138036-NF	2.5	3102 - Grass	Nonstocked		Unspecified	NonForestMgt	Herbaceous/Crop /Grass Planting	310 - Herbaceous Openland		No
<p><u>Prescription</u> Mow or plant forage and brood rearing herbaceous species. Till, fertilize, and plant annually or on rotation. Option to convert to perennial grass/forb mix with mast producing species. <u>Specs:</u> <u>Next Step</u> <u>Treatments:</u> <u>Acceptable</u> <u>Regen:</u> <u>Other</u> <u>Comment:</u> <u>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /2020</p>										



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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
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44	63138044-Cut	28.7	4130 - Aspen	Poletimber Well	45	Unspec ified	Harvest	Clearcut with Retention	4133 - Aspen, Mixed Pine	Even-Aged	No
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Prescription Final Harvest leave all white pine under 3 inches in diameter. As well leave retention island 3 to 5 percent of total acreage.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Aspen mixed with pine.

Regen:

Other Unless bridges are updated will need temporary crossing over or parallel to existing crossings.

Comment:

Site Condition

Proposed Start Date: 10/1 /2020

51	63138051-NF	3.5	3102 - Grass	Nonstocked		Unspec ified	NonForestMgt	Herbaceous/Crop /Grass Planting	310 - Herbaceous Openland		No
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Prescription Mow or plant forage and brood rearing herbaceous species. Till, fertilize, and plant annually or on rotation. Option to convert to perennial grass/forb mix with mast producing species.

Specs:

Next Step

Treatments:

Acceptable

Regen:

Other

Comment:

Site Condition

Proposed Start Date: 10/1 /2020

53	63138053-Cut	18.4	42110 - Planted Red Pine	Sawtimber Well	93	81-110	Harvest	Clearcut with Retention	4319 - Mixed Upland Forest	Even-Aged	No
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Prescription Final harvest leave one small island 3 to 5 percent of total acreage.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Oak, aspen and maple.

Regen:

Other Protect understory as much as possible. Map retention in MiFi. Example of converting planted red pine to oak/maple. Permanent home on south edge of stand limits practicality of site prep involving chemicals which would be needed plant pine again in this site.

Comment:

Site Condition

Proposed Start Date: 10/1 /2020

64	63138064-NF	9.9	31021 - Cool Season Grass	Nonstocked		Unspec ified	NonForestMgt	Herbaceous/Crop /Grass Planting	310 - Herbaceous Openland		No
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Prescription Mow or plant forage and brood rearing herbaceous species. Till, fertilize, and plant annually or on rotation. Option to convert to perennial grass/forb mix with mast producing species.

Specs:

Next Step

Treatments:

Acceptable

Regen:

Other

Comment:

Site Condition

Proposed Start Date: 10/1 /2020



Stand Name	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
65	63138065-Cut	114.2	4133 - Aspen, Mixed Pine	Poletimber Well	55	51-80	Harvest	Clearcut with Retention	4133 - Aspen, Mixed Pine	Even-Aged	No
<p><u>Prescription</u> Final harvest stand. Leave retention island or corridor 3 to 5 percent of total acreage. As well leave all pine under 3 inches in diameter.</p> <p><u>Specs:</u> Green ring a few legacy white pine along as well if found during set up.</p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Aspen with mix of white pine.</p> <p><u>Regen:</u></p> <p><u>Other</u> Add snowmobile and ORV trail protection spec. Block illegal two track as shown on roads map. Corners found during inventory. Add grouse</p> <p><u>Comment:</u> spec.</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2020</p>											
74	63138074-Cut	24.8	4130 - Aspen	Sawtimber Well	62	51-80	Harvest	Clearcut with Retention	4133 - Aspen, Mixed Pine	Even-Aged	No
<p><u>Prescription</u> Final harvest leave retention island 3 to 10 percent of acreage.</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> Aspen mixed pine.</p> <p><u>Regen:</u></p> <p><u>Other</u> Access is through private, skid trail that was used to access stand 78 can be used again to access this stand. Forward wood to stand 84 for</p> <p><u>Comment:</u> landing. Crane mat or logger made wood bridge needed. Add grouse spec.</p> <p><u>Site Condition</u> Unknown Access</p> <p><u>Proposed Start Date:</u> 10/1 /2020</p>											
76	63138076-NF	10.5	330 - Low-Density Trees	Nonstocked		Unspec ified	NonForestMgt	Herbaceous/Crop /Grass Planting	310 - Herbaceous Openland		No
<p><u>Prescription</u> Mow or plant forage and brood rearing herbaceous species. Till, fertilize, and plant annually or on rotation. Option to convert to perennial</p> <p><u>Specs:</u> grass/forb mix with mast producing species.</p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable</u></p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2020</p>											
83	63138083-Cut	24.9	4139 - Aspen, Mixed Deciduous	Sawtimber Well	70	81-110	Harvest	Clearcut with Retention	4139 - Aspen, Mixed Deciduous	Even-Aged	No
<p><u>Prescription</u> Final Harvest leave all white pine and leave retention island 3 to 5 percent of total acreage.</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> Aspen with some white pine and maple.</p> <p><u>Regen:</u></p> <p><u>Other</u> Access is through private see site condition for details. Add grouse spec.</p> <p><u>Comment:</u></p> <p><u>Site Condition</u> Unknown Access</p> <p><u>Proposed Start Date:</u> 10/1 /2020</p>											



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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
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Total Treatment Acreage Proposed: 392.3

Report 4 – Site Conditions

Cadillac Mgt. Unit
Joe Ventimiglia : Examiner

Compartment: 138
Year of Entry: 2021

Availability for Management

Total Acres	Acres Available	Acres Avail		Acres Not Available		Dominant Site Conditions				
		With Condition				2B	5B	5C	2G	3D
452	306	146	0	0	Aspen	87	0	59	0	
32	0	0	32	32	Cedar				32	
44	44	0	0	0	Herbaceous Openland					
52	52	0	0	0	Jack Pine					
54	54	0	0	0	Low-Density Trees					
18	0	0	18	18	Lowland Aspen/Balsam Poplar				18	
558	0	0	557	557	Lowland Conifers				557	
76	76	0	0	0	Lowland Deciduous					
52	52	0	0	0	Lowland Shrub				0	
1	1	0	0	0	Marsh					
49	49	0	0	0	Mixed Upland Deciduous					
132	132	0	0	0	Oak					
427	232	195	0	0	Red Pine		195			0
89	89	0	0	0	Upland Mixed Forest					
28	25	0	3	3	Urban					3
53	53	0	0	0	White Pine				0	
2,117	1,165	341	611	611	Total Forested Acres	87	195	59	608	3
	55%	16%	29%		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)	95	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Cadillac Mgt. Unit
Joe Ventimiglia : Examiner

Compartment: 138
Year of Entry: 2021

2	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	9	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
3	Available	2B: Unknown if access through adjacent landowner(s) is possible	12	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
4	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	62	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
Comments:							
5	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	23	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
6	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	24	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Cadillac Mgt. Unit
Joe Ventimiglia : Examiner

Compartment: 138
Year of Entry: 2021

7	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	18	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
8	Unavailable	3D: Recreational / Scenic values	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments: 131 Miss Kal trailhead, ORV and Snowmobile trails.							
9	Available	2B: Unknown if access through adjacent landowner(s) is possible	25	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Access granted in past and verbal permission was given over the phone in 2019. Landowner info below.							
10	Available	2B: Unknown if access through adjacent landowner(s) is possible	50	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Access was granted for stand 78 through Salter property in the past, with small crane mat or logger made bridge. Access comes through stand 83.							
11	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	377	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
Comments: Large lowland complex 90 percent or more is too wet, as well as having various trout streams running through stand. Small edges small be operable but bulk of stand its not commercially viable.							

Report 4 – Site Conditions

Cadillac Mgt. Unit
Joe Ventimiglia : Examiner

Compartment: 138
Year of Entry: 2021

12	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	59	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Low quality aspen allow oak to mature before stand is managed.							
13	Available	5B: Maintain for regeneration purposes	112	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Hold at this time to allow understory to develop from recent 2015 harvest							
14	Available	5B: Maintain for regeneration purposes	83	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Hold at this time to allow understory to develop from recent 2015 harvest.							

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.
SCA	Cold Water Stream	A coldwater stream has temperature and dissolved oxygen conditions that allow naturally-reproduced or stocked trout populations and those of other coldwater fish species (e.g., slimy sculpin) to persist from year to year. Coldwater streams in Michigan typically provide these conditions due to substantial contributions of groundwater to their stream flows. Such streams are established by Director's action and designated as trout resources by Fisheries Order 210.
SCA	Riparian Area	A transitional area between aquatic and terrestrial ecosystems in which the terrestrial ecosystem influences the aquatic ecosystem and vice-versa. Because of the unique conditions adjacent to lakes, streams and open water wetlands, riparian areas harbor a high diversity of plants and wildlife. Riparian communities are ecologically and socially significant in their effects on water quality and quantity, as well as aesthetics, habitat, bank stability, timber production, and their contribution to overall biodiversity.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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1	122 - Road/Parking Lot	Nonstocked	1.1	0	Unspecified	No	County Road
2	310 - Herbaceous Openland	Nonstocked	8.2		Unspecified	Managed Opening	Managed rye openings. (Wildlife Division plans every year)
3	310 - Herbaceous Openland	Nonstocked	8.4		Unspecified	Managed Opening	Rye Field. Maintained at this time.

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
4	4122 - Oak, Pine	Sawtimber Medium	24.0	95	51-80	N/A	Scattered red, jack, oak and red maple. Oak and maple fully advanced in understory. Most of the jack has fallen out some still hanging on. Oak mostly low quality wolfy stems.

Canopy Species					% Cover	Size Class	DBH	Age	Sub-Canopy Species				Density	Avg. Height	Size
Red Oak		10	Log/Pole/XLog	12					Jack Pine		Low	5 - 10 feet	Sapling		
White Oak		50	Log/XLog	16	95				Witch Hazel		Medium	5 - 10 feet	Tall Shrub		
Red Pine		15	Log	13					Serviceberry (Juneberry)		Medium	5 - 10 feet	Tall Shrub		
Jack Pine		15	Log/Pole	10					White Oak		High	10 - 20 feet	Sapling		
Red Maple		10	Log	12					Red Pine		Low	< 5 feet	Sapling		
									White Pine		Low	< 5 feet	Sapling		

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
5	42110 - Planted Red Pine	Sawtimber Medium	82.8	93	1-50	N/A	Stand was originally planted in 1926 to red and jack pine.

Canopy Species					% Cover	Size Class	DBH	Age	Sub-Canopy Species				Density	Avg. Height	Size
White Oak		10	Log/Pole	14					Red Maple		Medium	< 5 feet	Sapling		
Red Pine		85	Log	14	93				White Oak		High	Variable	Sapling		
									Jack Pine		Low	5 - 10 feet	Sapling		
									Witch Hazel		Medium	5 - 10 feet	Tall Shrub		
									Quaking Aspen		Low	5 - 10 feet	Sapling		
									White Pine		Low	< 5 feet	Sapling		
									Black Cherry		Low	< 5 feet	Sapling		

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
6	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Well	12.9	95	51-80	N/A	Mixed stand most of jack pine fallen out. Established oak advanced understory.

Canopy Species					% Cover	Size Class	DBH	Age	Sub-Canopy Species				Density	Avg. Height	Size
Red Maple		10	Log/Pole	12					White Oak		High	10 - 20 feet	Sapling		
Red Oak		15	Log	12					Witch Hazel		Medium	5 - 10 feet	Tall Shrub		
White Oak		43	Log/XLog	14	95				Red Maple		Medium	Variable	Sapling		
Red Pine		12	Log	14											
Bigtooth Aspen		10	Log	12											
Jack Pine		10	Log/Pole	10											



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																								
7	42110 - Planted Red Pine	Sawtimber Well	5.6	91	81-110	N/A	Stand was planted in 1928. Small stand created when highway was created.																																								
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8	42110 - Planted Red Pine	Sawtimber Medium	33.3	93	51-80	N/A	From records stand was planted in 1926 and again in 1956. Jack pine was cut from stand in 2001, all red pine and oak was left. From 2001 cut heavy oak understory had developed. Hard to tell difference in pine over story as far as age, most appears to be from 1926 planting. Appears from looking at 1952 imagery west center end is 1928 timber.																																								
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9	122 - Road/Parking Lot	Nonstocked	10.8		Unspecified	No	Roads																																								
10	4126 - White, Black, N. Pin Oak	Sapling Well	45.6	25	Immature	N/A	Over story was taken off stand in Spring of 2014.(all trees less than 4 inches left at that time) All advanced oak and maple regen was left. A couple green ringed oak were also left. Example of stand that was planted pine and converted to oak naturally.																																								
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11	42221 - Natural Jack Pine, Mixed Deciduous	Sapling Medium	11.4	6	Immature	N/A	scattered oak and jack pine. Stand was final harvested in fall of 2013. Short wood operation. Oak under 10 inch was left																																								
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12	42220 - Natural Jack Pine	Poletimber Well	1.1	30	Immature	N/A	Small stand of jack pine just transitioned to pole size. Appears natural very tight spacing.																																								
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13	42111 - Planted Red Pine, Mixed Deciduous	Sawtimber Medium	26.0	92	1-50	N/A	Stand was planted in 1928. Appears from older imagery this stand was always fairly open as far as the pine, more oak competition than surrounding stands. Stand was marked thinning in spring 2014. Stand had been thinned the previous entry as well. Thick understory of maple and oak. Is planted pine, but is not recognizable as a plantation anymore.																																								
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14	4126 - White, Black, N. Pin Oak	Poletimber Well	41.5	45	1-50	N/A	Stand was marked thinning in 2014 with all aspen and red maple spec cut. A few large oaks were left, although the advanced pole oak regen makes up the majority of the stand.																																																
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15	4199 - Other Mixed Upland Deciduous	Poletimber Medium	25.6	50	1-50	N/A	Very scrubby stand of mostly white oak just pushing into pole size stand. Open cherry brush throughout. Like most of area poor soil or may have been impacted by fire.																																																
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16	42100 - Planted White Pine	Sawtimber Well	2.8	63	81-110	N/A	Stand was planted in 1956. Stand was marked thinning in 2001.																																																
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17	122 - Road/Parking Lot	Nonstocked	16.1		Unspecified	No	new 131 highway. MDOT weight station in this stand as well.																																																
18	330 - Low-Density Trees	Nonstocked	10.0		Unspecified	Managed Opening	Managed wildlife opening.																																																
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19	4126 - White, Black, N. Pin Oak	Poletimber Poor	21.3	35	1-50	N/A	Stand was cut in 2013 harvested as part of Patchwork aspen sale. All oak was left. Variable oak from sapling to log. Short wood operation. Created a multi aged stand of aspen/oak sprouts from 2013 cut with variable oak over story.																																																
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20	4310 - Pine, Oak Mix	Sapling Well	83.9	5	Immature	N/A	Red Pine strip plantation with was final harvested in spring of 2013. Was chipped, trenched and planted back to red pine. Advanced oak regen will be planted around. Trenched in 2014 and planted in spring of 2015. Heavy mix of oak from cut and young advanced oak that was in the understory of the strips of jack pine. Change MO to mixed oak and planted red pine. Regen 1 came to 627 TPA red pine and 935 TPA of natural oak and pine. Accept mixed stand.																																																						
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21	42110 - Planted Red Pine	Sawtimber Well	64.8	91	111-140	N/A	Stand was planted in 1928 to red and jack pine. Decent quality pine, from records it was planted in 1928 although some of the rows looks small to be that old. Jack was cut from stand at some point with no evidence the red has ever been thinned. Variability in diameter. West side of stand some rows still noticeable on east more natural look although all planted.																																																						
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22	4130 - Aspen	Sapling Well	7.3	16	Immature	N/A	Cut from a few entry's ago, can tell it gets wet in spots and seasonally.																																																						
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23	4199 - Other Mixed Upland Deciduous	Sapling Medium	5.1	7	Immature	N/A	Stand was final harvested in fall 2013. Scattered oak was left came back to mostly aspen and red maple mix. Heavy browse in spots has limited regen.																																																						
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24	4131 - Aspen, Oak	Poletimber Medium	59.0	48	Unspecified	N/A	Stand final harvested in 1971. Some oak was left from that harvest. Appears to be better site for oak then aspen. Low quality patchy aspen clones, filling in with oak, maple and pine between clones. Poor aspen in much of stand.																																																						
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26	6129 - Mixed Coniferous Lowland Forest	Poletimber Well	95.0	90	1-50	N/A	Thick lowland conifer swamp, very wet and lots of blowdown. Stagnate conifer, likely too wet for spruce and cedar to grow big.																																					
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27	622 - Lowland Shrub	Nonstocked	18.5		Unspecified	No																																						
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28	6229 - Mixed lowland shrub	Nonstocked	3.5		Unspecified	No	Bog																																					
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29	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Medium	24.1	95	1-50	N/A	Small lowland conifer stand, very wet and even open tag in spots.																																					
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30	310 - Herbaceous Openland	Nonstocked	2.6		Unspecified	Managed Opening	Managed wildlife opening.																																					
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31	42200 - Natural White Pine	Sawtimber Well	5.2	65	51-80	N/A	Pine was marked thinning in 2015, with all aspen and maple cut as well. Now variable log pole white pine over story with aspen/maple pine in understory.																																					
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																							
32	4130 - Aspen	Poletimber Well	13.3	48	51-80	N/A	Average quality aspen some white pine and fir mixed in. Southern edge along creek. Wildlife opening in the middle.																																							
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33	4136 - Aspen, Mixed Conifer	Sapling Well	8.3	7	Unspecified	N/A	Stand was final harvested in fall 2013, all oak and white pine were left. Shortwood operation.																																							
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34	6120 - Lowland Cedar	Sawtimber Well	9.3	101	51-80	N/A	Typical lowland cedar lowland conifer swamp.																																							
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35	42200 - Natural White Pine	Poletimber Medium	17.3	65	51-80	N/A	Stand was thinned in 2013, all aspen, fir and maple was also cut. Two vernal ponds in stand. White pine/ white oak over story with maple, aspen, pine regeneration from cut.																																							
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36	3102 - Grass	Nonstocked	2.5		Unspecified	Managed Opening	Managed wildlife opening. Scattered large oak and pine in opening.																																							
37	42111 - Planted Red Pine, Mixed Deciduous	Sawtimber Poor	112.2	93	1-50	N/A	Stand was originally planted in 1926 to red and jack pine.																																							
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38	42200 - Natural White Pine	Sawtimber Well	15.5	68	1-50	N/A	Pine was thinned and aspen/maple was final harvested in 2015. Created a two aged stand of pine over aspen and other advanced white pine regeneration.																																		
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39	42101 - Planted White Pine, Mixed Deciduous	Sawtimber Well	1.6	68	81-110	N/A	Stand was planted in 1951.																																		
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40	4310 - Pine, Oak Mix	Sapling Medium	5.6	6	Immature	N/A	Final harvested in 2013. Short wooded. Came back to mix of upland species, primary pine and oak. A few mature oak were left.																																		
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41	6112 - Lowland Aspen	Sapling Medium	18.2	17	Immature	N/A	Old wildlife habitat cut, too wet to manage commercially. Semi open in spots where it flooded out.																																		
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42	42110 - Planted Red Pine	Sawtimber Well	37.0	63	111-140	N/A	Stand was planted in 1956 and was spayed with DDT#1 in 1960.. Stand was thinned in 2002. Stand last thinned in 2012 as part of Pumpkin Pine Sale.																																		
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43	622 - Lowland Shrub	Nonstocked	1.3		Unspecified	No																																			
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																					
44	4130 - Aspen	Poletimber Well	28.7	45	Unspecified	N/A	Rough looking sparse aspen, white pine filling in understory. Appears to not be good site for aspen.																																					
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45	623 - Emergent Wetland	Nonstocked	1.3	0	Unspecified	No	Vernal ponds.																																					
46	6118 - Lowland Deciduous with Cedar	Sapling Medium	68.3	5	Immature	N/A	Stand was final harvested in 2015, all cedar, oak, hemlock was left. Variable stand with very wet pockets of alder and lowland ash which were not cut in the 2015 sale. Was short wood operation in the winter. Cedar is concentrated in pockets. Center of stand is where it gets the most wet, upland pockets in northwest. Small little red pine stand in the northwest edge of stand.																																					
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47	6120 - Lowland Cedar	Poletimber Medium	22.8	90	Unspecified	N/A	Mixed lowland conifer stand, upland aspen, fir and pine along south edge too small to map. Majority of stand is mix of cattails/alder and mixed lowland conifer.																																					
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48	330 - Low-Density Trees	Nonstocked	16.2		Unspecified	No	Low density trees along managed opening, planted red pine along edges.																																					
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49	6117 - Lowland Deciduous, Mixed Coniferous	Sapling Medium	8.1	15	Immature	N/A	Stand was final harvested in 2004. Was a Q type that wildlife division wanted cut for deer browse.																																					
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50	330 - Low-Density Trees	Nonstocked	0.6	0	Unspecified	No	Fire break filling in with trees, semi open at this time.																																					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																													
51	3102 - Grass	Nonstocked	3.5		Unspecified	Managed Opening	Managed wildlife opening.																													
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52	4130 - Aspen	Sapling Well	3.7	4	Immature	N/A	Stand was final harvested in 2015, short wood operation. Oak was left.																													
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53	42110 - Planted Red Pine	Sawtimber Well	18.4	93	81-110	N/A	Stand was originally planted in 1926 to red and jack pine.																													
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54	310 - Herbaceous Openland	Nonstocked	0.8	0	Unspecified	No	Open area along snow trail.																													
55	6229 - Mixed lowland shrub	Nonstocked	28.3		Unspecified	No	Creek running through stand very thick alder. Few scattered trees.																													
56	42210 - Natural Red Pine	Sawtimber Well	4.4	85	111-140	N/A	Small stand of what appears to be natural red pine. Site has camping site on bank of river. Nice unique stand that has recreational value for area. Some XL pine that appears seeded in rest of pine in stand.																													
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59	4130 - Aspen	Sapling Well	10.1	4	Immature	N/A	Stand was final harvested in winter of 2015. Short wood operation.																													
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60	4134 - Aspen, Spruce/Fir	Poletimber Well	5.5	47	51-80	N/A	Stand was final harvested in 1971. Aspen and fir with a few oak and pine scattered in.																													
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61	42220 - Natural Jack Pine	Sapling Well	39.1	16	1-50	N/A	Stand was row thinned in 2002, cut two leave two pattern. Site was prescribed burn afterward. Lost most of planted jack pine that was thinned, a few rows remain. Strips have regenerated thick from 2002 cut, stand if fully regenerated to jack pine.			
Canopy Species		% Cover	Size Class	DBH	Age					
Jack Pine	85	Sapling	3	16						
Jack Pine	10	Log	10							
62	42110 - Planted Red Pine	Sawtimber Well	42.5	65	111-140	N/A	Stand was planted in 1956. Third row thinned in 1992. Stand was second thinned in 2002. Stand was prescribed burned in mid 2000s. And was marked thinning in spring of 2015. (Short wood operation) Burned but logs reduced marketability of butt logs. Carpet of red and white pine seedlings less than 1 foot tall in spots.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Red Pine	100	Log/Pole	10	65	White Pine	Low		< 5 feet	Sapling	
					Red Pine	Low		< 5 feet	Sapling	
63	310 - Herbaceous Openland	Nonstocked	3.4		Unspecified	No				
64	31021 - Cool Season Grass	Nonstocked	9.9		Unspecified	Managed Opening	Managed wildlife opening.			
					Sub-Canopy Species	Density	Avg. Height	Size		
					Red Maple	Trace		Pole		
65	4133 - Aspen, Mixed Pine	Poletimber Well	114.2	55	51-80	N/A	Larger block of aspen mixed with pine, mostly white pine. Aspen variable but mostly lower quality rough looking aspen. Roughly half of stand was cut last YOE, this stand was left to be cut this YOE to break up age class.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Quaking Aspen	60	Pole/Log	9	55	White Pine	High		Variable	Sapling	
White Pine	15	Pole/Log	9		Black Cherry	Low		5 - 10 feet	Sapling	
Red Maple	8	Pole/Log	9		Witch Hazel	Low		5 - 10 feet	Tall Shrub	
					Balsam Fir	Low		< 5 feet	Sapling	
					Red Maple	Medium		Variable	Sapling	
67	4130 - Aspen	Sapling Well	3.6	17	Unspecified	N/A	Stand was final harvested in 2002.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size	
Red Maple	20	Sapling	2		Red Maple	Medium	< 5 feet	Sapling		
Bigtooth Aspen	80	Sapling	2	17						
68	6128 - Lowland Coniferous, Mixed Deciduous	Sawtimber Well	377.3	110	81-110	N/A	Large lowland conifer complex, variable stand too mixed to delineate. Common lowland conifer component throughout area. A few upland fingers along edges with aspen and pine but too small to map on there own.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Red Maple	10	Log/Pole	12		Balsam Fir	Medium		5 - 10 feet	Sapling	
Paper Birch	10	Pole/Log	10		Black Spruce	Low		5 - 10 feet	Sapling	
Balsam Fir	15	Pole	8		Tag Alder	Medium		5 - 10 feet	Tall Shrub	
Northern White Cedar	23	Log/Pole	12	110	Red Maple	Low		5 - 10 feet	Sapling	
Tamarack	15	Log/Pole	10	110						



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																						
69	4130 - Aspen	Sapling Well	14.2	5	Immature	N/A	Stand was final harvested in 2014, all oak and cedar was left. Oak concentrated in west end. Short wood operation. ORV trail and snow trail run through stand.																																																						
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70	42200 - Natural White Pine	Sawtimber Well	10.8	89	81-110	N/A	Grove of large white and red pine. ORV trail in stand as well as snow trail. Unique stand, was thinned in 2015, with all aspen and maple cut at that time as well.																																																						
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72	330 - Low-Density Trees	Nonstocked	11.0		Unspecified	No																																																							
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73	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Well	4.9	65	81-110	N/A	Small strip of mixed maple, fir, spruce, white pine and aspen. Upland stand with a few super canopy white pine along west edge.																																																						
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74	4130 - Aspen	Sawtimber Well	24.8	62	51-80	N/A	Over mature aspen that has been avoided as a result of difficult access. Variable diameters in aspen some very large over mature stems and some sound looking log size trees. Heavy white pine understory.																																																						
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75	4130 - Aspen	Sawtimber Well	12.2	47	51-80	N/A	Average quality aspen stand with some fir. Stand was final harvested in 1971.																																																						
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
76	330 - Low-Density Trees	Nonstocked	10.5		Unspecified	No	Unmanaged opening.		
78	4130 - Aspen	Sapling Well	25.1	18	Immature	N/A	Stand was final harvested around 2000, TCR not found for exact date. Access was granted from landowner to east off Trusdale Rd.		
Canopy Species		% Cover	Size Class	DBH	Age				
Red Maple		20	Sapling	3					
Bigtooth Aspen		60	Sapling/Pole	3	18				
82	4136 - Aspen, Mixed Conifer	Poletimber Well	22.2	47	51-80	N/A	Stand was final harvested in 1971.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple		10	Log/Pole	12		Balsam Fir	Low	5 - 10 feet	Sapling
Quaking Aspen		60	Pole	7	47	White Pine	Low	5 - 10 feet	Sapling
Balsam Fir		10	Pole/Sapling	6	45				
White Pine		12	Log/Pole	12					
Black Cherry		8	Pole/Sapling	6					
83	4139 - Aspen, Mixed Deciduous	Sawtimber Well	24.9	70	81-110	N/A	Isolated stand, only commercial access is through private. Over mature aspen with red maple, fir and as few white pine. Small drainage along southern private line almost appears man made.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple		25	Log	13		Balsam Fir	Medium	Variable	Sapling
Paper Birch		8	Log/Pole	10		White Pine	Low	10 - 20 feet	Sapling
Quaking Aspen		10	Log	11		Red Maple	Medium	Variable	Sapling
Bigtooth Aspen		40	Log	12	70				
Balsam Fir		10	Pole/Log	8					
84	3102 - Grass	Nonstocked	4.2		Unspecified	No			
Sub-Canopy Species		Density	Avg. Height	Size					
Black Cherry		Trace		Pole					
85	4131 - Aspen, Oak	Sapling Well	4.4	6	Immature	N/A	Stand was final harvested as part of Patchwork aspen sale. Cut in fall of 2013. All oak was left. Short wood operation.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple		10	Sapling	1	6	Witch Hazel	Low	5 - 10 feet	Tall Shrub
White Oak		20	Sapling/Pole/Log	4					
Quaking Aspen		60	Sapling	1	6				
86	4131 - Aspen, Oak	Sapling Well	6.0	6	Immature	N/A	Stand was final harvested as part of Patchwork aspen sale. Cut in fall of 2013. All oak was left. Shortwood operation.		
Canopy Species		% Cover	Size Class	DBH	Age				
Red Maple		10	Sapling	1					
White Oak		20	Log/Pole	10					
Quaking Aspen		60	Sapling	1	6				



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																					
87	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Well	61.5	95	Unspecified	N/A	Lowland stand with stream flowing through.																																					
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88	4130 - Aspen	Sapling Well	55.0	5	Immature	N/A	Stand was final harvested in summer of 2014. Was part of a larger stand that was broken up. Short wood operation. A ten foot buffer was left on the road/ snowmobile trail.																																					
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