

# Compartment Review Presentation

Cadillac Forest Management Unit

Compartment 63119

Entry Year: 2027

Acreage: 3,477

County: Missaukee

Management Area: Kalkaska Sandy Moraines

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**Stand Examiner:** Joe Ventimiglia

## **Legal Description:**

T24N R7W: Sections 4, 5, 8, 9, 16, 17

## **Identified Planning Goals:**

Manage compartment for a mix of timber, wildlife, recreational and ecological concerns. Management plan and practiced silviculture methods will be implemented within management activities.

## **Soil and topography:**

Soils are composed of rubicon sands. Site quality increases nearer the Manistee River and Hopkins and Ham Creeks. The lowest site indices are within the oak-pine barrens restoration area.

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

A large portion of this compartment was formerly owned by Consumers Power and was acquired by the State of Michigan. Much of the former Consumers land was along the Manistee River. Overall, the compartment is mostly solid state ownership. Desirable parcels for acquisition would be the 80 acre parcel in the southeast corner of the compartment.

## **Unique Natural Features:**

This compartment contains oak-pine barrens and northern wet meadow communities. Evidence of wood turtle has been identified and potential exists for Blanding's turtle in the Hopkins and Ham Creeks. Potential exists for massasauga and prairie warbler in the upland brush areas.

## **Archeological, Historical, and Cultural Features:**

Numerous Native American archeological sites have been documented. The high banks area bordering the Manistee River was used as log rollaways in the late 1800's pine logging era.

## **Special Management Designations or Considerations:**

A large portion of this compartment is being managed as shrub and herbaceous open land through the use of prescribed fire. Future goals for this open land are to maintain a fire return interval that enhances wildlife habitat, blueberry production, and vegetation associated with barrens. The Hopkins Burn Units were burned actively in the last 20 years with plans to continue such burning as funding and weather allows. The treatment map lays out the plans for the burns including adding a new burn unit. (Stand 48)

## **Watershed and Fisheries Considerations:**

The mainstream of the Manistee, Hopkins Creek and Ham Creek flow through this compartment. Extensive past beaver activity has been documented along Ham and Hopkins Creeks. Occupied dens and some blockage were identified near the north edge of the compartment. Both Ham and Hopkins Creeks are designated tributaries under the Upper Manistee River State Natural River designation. The Upper Manistee River Natural River Plan has very specific native vegetation buffers for the mainstream and tributaries (pages 40-42, inclusive.) The mainstream buffer is 175 feet, except if the proposed treatment meets one of the eight criteria. On Ham Creek the buffer would be 100 feet, if the slope is 0-10%; 115 feet, if the slope is 11-20%; 135 feet, if the slope is 21-32%; and 155 feet, if the slope is 33+%. On Hopkins Creek, in addition to the above standards, there is a 100foot no cut zone, unless it meets one of the (a) through (h) criteria in the plan.

## **Wildlife Habitat Considerations:**

Approximately 880 acres of this compartment are lands purchased with restricted Game and Fish or State Game Funds. This compartment offers a wide variety of valuable wildlife habitats. The river and creek corridors are valuable deer winter areas. They provide excellent habitat and travel areas for bear and bobcat. The management objective for the central (approximately) 700 acres of the area in proximity to the campground is to maintain an open grassland that provides blueberry and fruit bearing shrubs for songbirds and turkey. The surrounding oak, aspen, and pine areas provide adjacent food and cover for many different species. By maintaining this variety of cover types and age classes, this compartment can continue to provide valuable habitats to deer, ruffed grouse, woodcock, turkey, bear, bobcat, and numerous songbirds. Featured species of special interest include deer and bear. Timber sale specifications to benefit wildlife (where applicable) will include brush pile creation along lowland edges, protection of mast-bearing wildlife shrubs and ironwood, protection of standing dead snags, and creation of drumming logs (1-2 per acre) and woody debris (tops or whole trees) in aspen cuts.

## **Mineral Resource and Development Concerns and/or Restrictions**

Surface sediments consist of glacial outwash sand and gravel, post-glacial alluvium, and minor coarse-textured till. The glacial drift thickness varies between 200 and 400 feet. Beneath the glacial drift is the Mississippian Michigan Formation. The Michigan Formation is quarried for gypsum in other areas of the state. Gravel pits are not located in the immediate area, but potential is good, especially the upland areas. State Pit 467 is located approximately three miles east (Section 18, T24N R7W). The northern portion of the compartment is located on the edge of Springfield Field. The field has produced from gas the Traverse Limestone. The bulk of the State mineral rights in the compartment are currently leased for oil and gas development.

## **Vehicle Access:**

A forest road access plan is detailed on the compartment map. Identified are state and county roads as well as forest roads and trails under the jurisdiction of the DNR. As future timber sales occur logging roads and old State forest two tracks may be blocked to vehicle access as needed.

## **Survey Needs:**

This compartment is almost solid state ownership. No surveying is needed at this time. The compartment boundary along the west edge of section 5 follows a bluff line heading north. This property line is very irregular and does not head straight north.

## **Recreational Facilities and Opportunities:**

There are numerous recreational opportunities within this compartment including: Hopkins Creek rustic & designated equestrian campground, the Shore to Shore riding and hiking trail, the North Missaukee ORV trail, the Mis-Kal ORV route, Michigan Cross Country Cycle Trail (MCCCT), and Snowmobile trail #6. Proposed timber treatments negatively impacting campers should be taken into consideration. Providing a tree'd buffer adjacent to campsites, and harvesting during the winter months are two potential mitigating practices. Trail protection specifications should be included in any timber sale potentially impacting trails. Specifically, appropriate measures identified in DNR Policy & Procedures "32.22XX" (Best Management Practices for Forest and Wildlife Management Adjacent to Recreational Trails) should be taken into consideration when setting up timber sales. Furthermore, guidance provided in the "Logging Operations and Horse Events on State Lands" document should be followed for timber treatments impacting the Shore to Shore riding and hiking trail. There are numerous fishing and hunting opportunities and dispersed camping is very common in this compartment. Blueberry picking is popular within this compartment. (T.M.N. 12/16/14)

## **Fire Protection:**

The areas of red pine provide the potential for large fire growth. There are some urban area concerns within the compartment. The potential for poor access exists with the varying terrain within the compartment. An area near Hopkins Creek Campground is managed for blueberries by prescribed fire.

## **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**

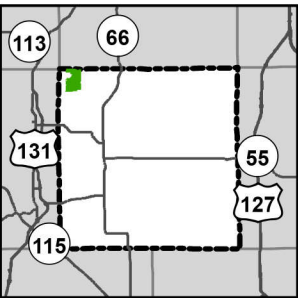
### **The following information is displayed, where pertinent, on the attached compartment maps:**

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

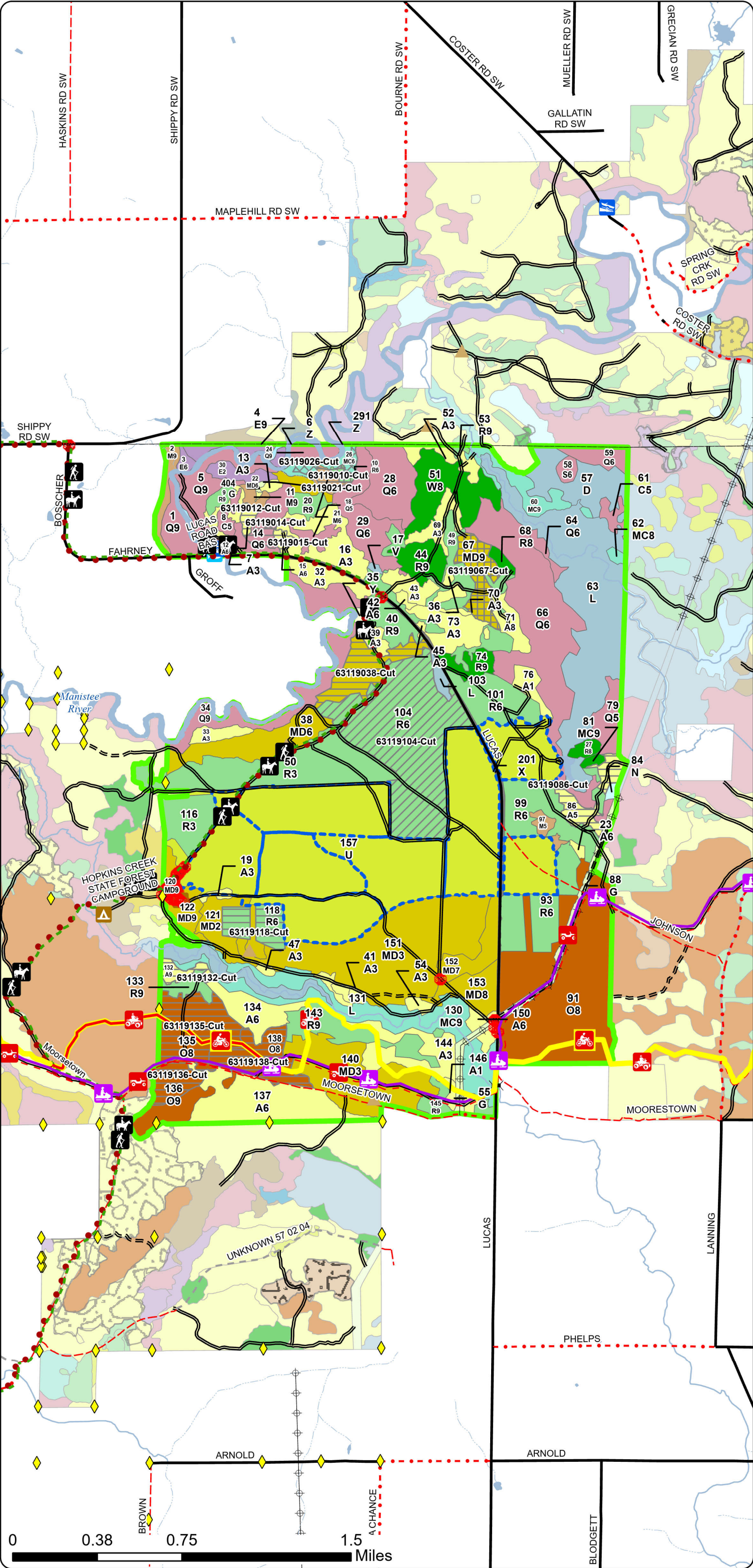


Cover Type & Treatments Map

Compartment: 63119  
T24N, R08W, Sec. 04, 05, 08, 09, 16, 17  
County: Missaukee  
Unit: Cadillac  
Mgmt. Area: Kalkaska Sandy Moraines  
YOE: 2027  
Acres: 3,476.80 GIS Calculated  
Examiner: Joe Ventimiglia  
Date Exported: 7/15/2025  
Map Phase: Web Post



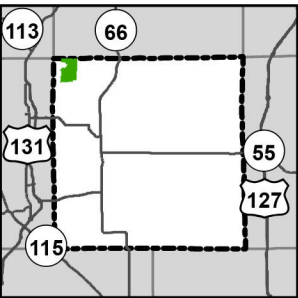
- Survey Grade Corners
- Berms
- Boating Access Site
- Bridges
- Culvert
- Campground
- Fishing Access Site
- Sign
- Designated Equestrian Trails
- Designated ORV Routes
- Designated MCCCT Trails
- DNR - Primary Forest Road
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Federal / State / County - Paved Road
- County - Gravel Road
- County - Dirt Road (Seasonal)
- Private - Dirt / Gravel Road
- Powerline
- Intermittent Stream
- Perennial River
- Lakes and Rivers
- Counties
- Compartment Boundary
- Treatments with Site Conditions
- Clearcut
- Selection
- Seed Tree
- Thinning
- Planting (tree species)
- Monitoring - Regeneration
- Monitoring
- 411 - Northern Hardwood
- 412 - Oak Types
- 413 - Aspen
- 419 - Mixed Upland Deciduous
- 421 - Planted Pines
- 422 - Natural Pines
- 429 - Mixed Upland Conifers
- 500 - Water
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 122 - Road/Parking Lot
- 310 - Herbaceous Openland
- 330 - Low Density Trees
- 622 - Lowland Shrub
- 623 - Emergent Wetland
- 710 - Sand, Soil



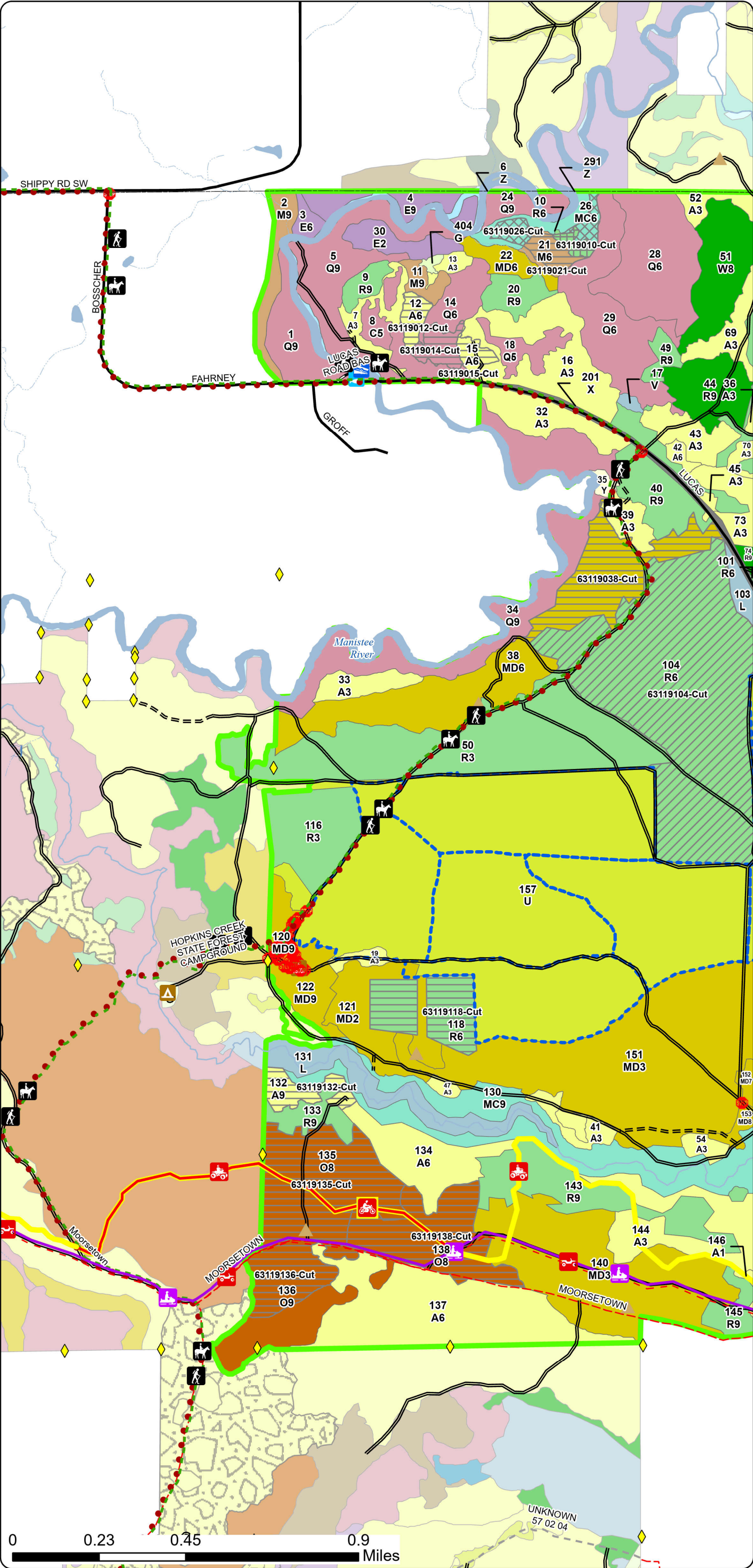


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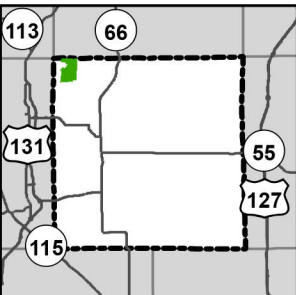
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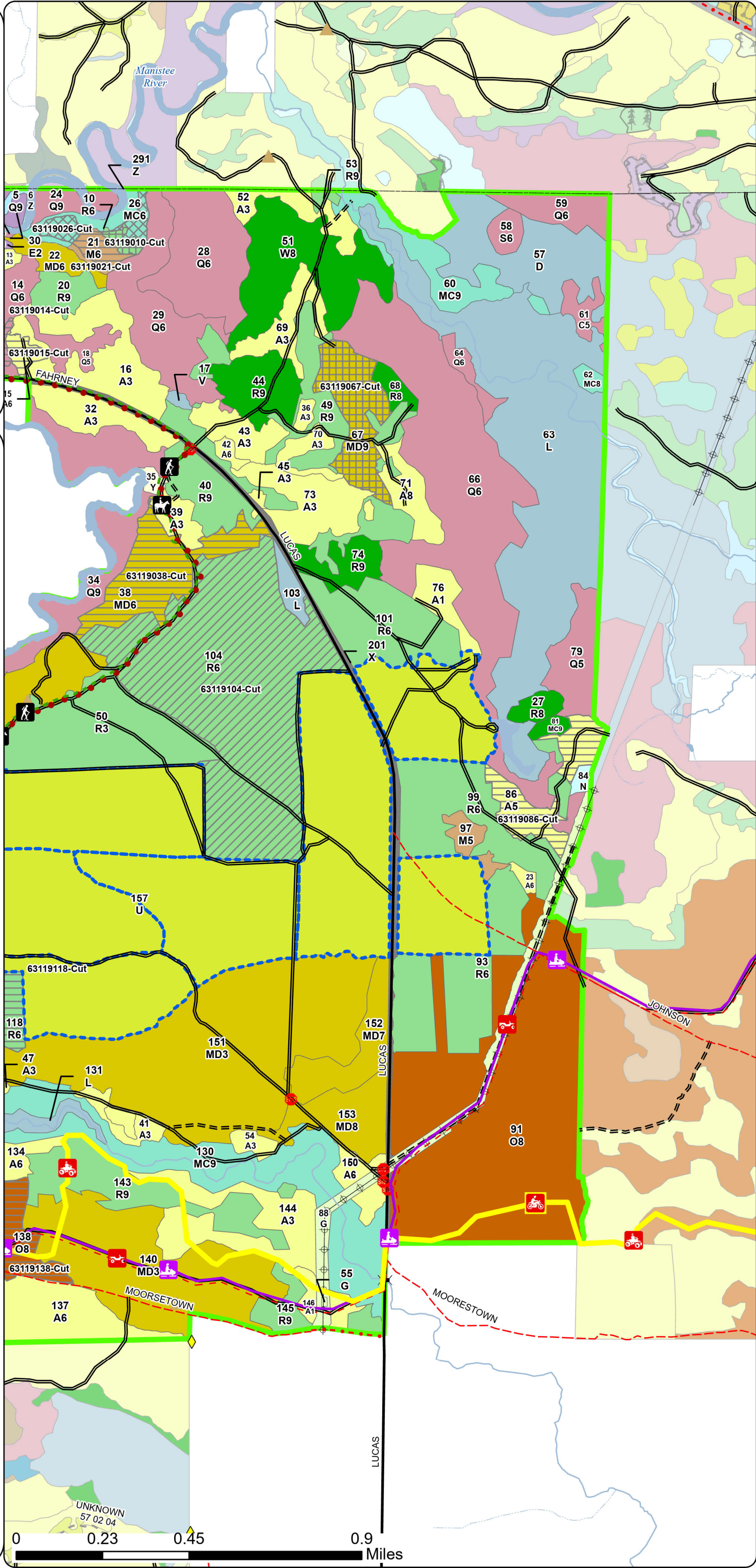


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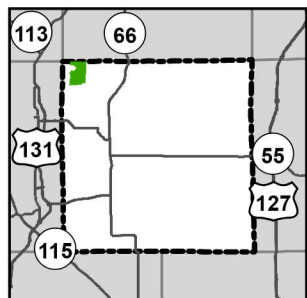
























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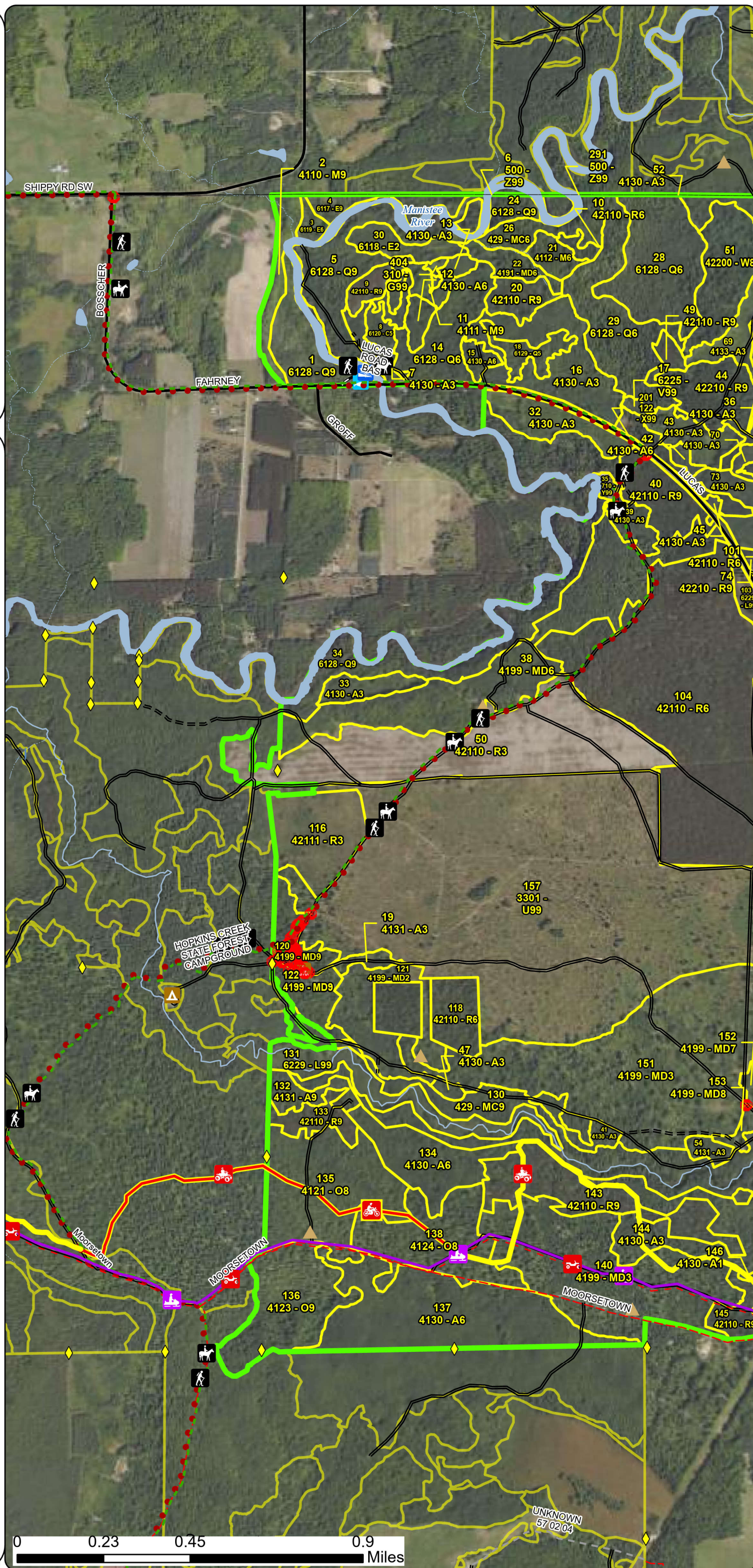




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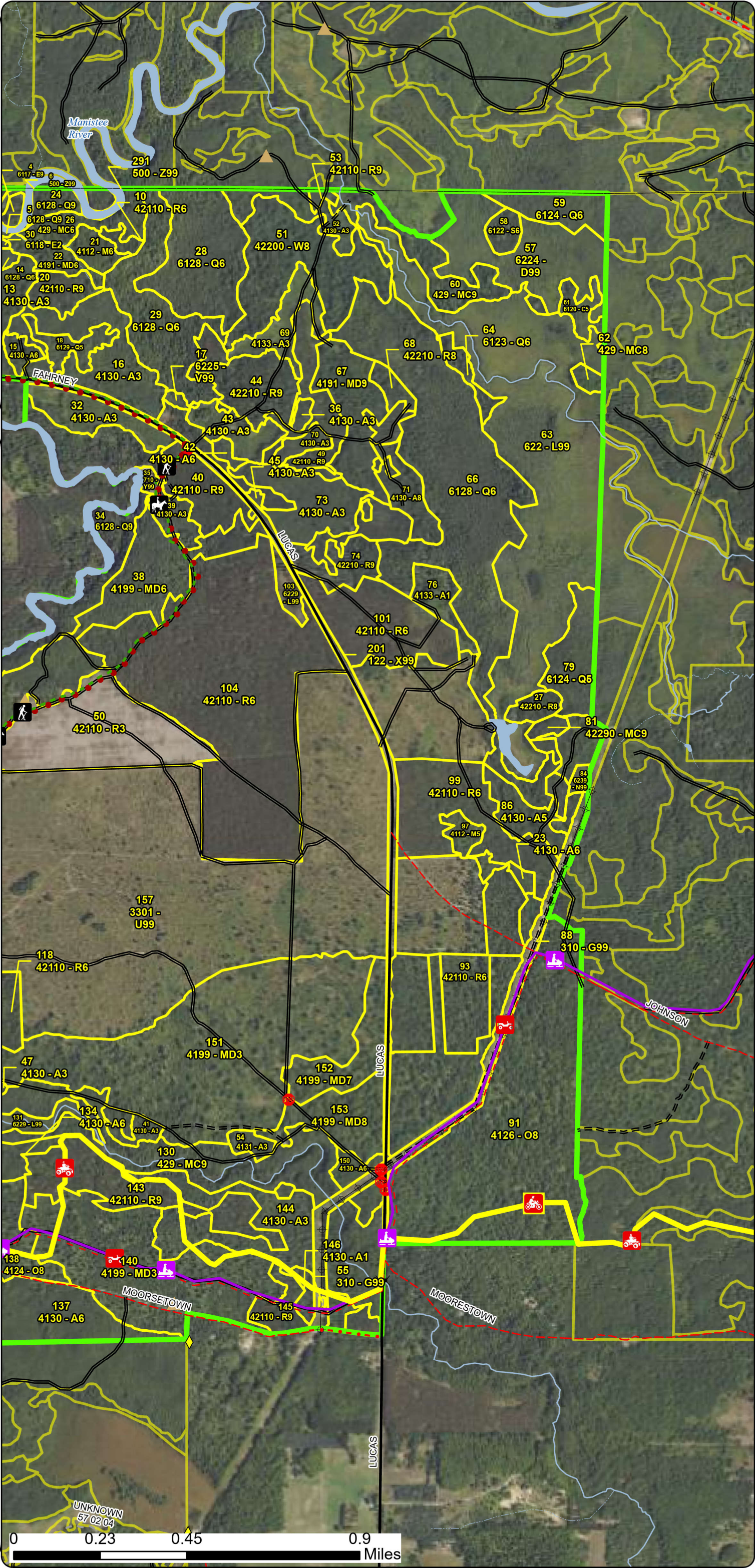
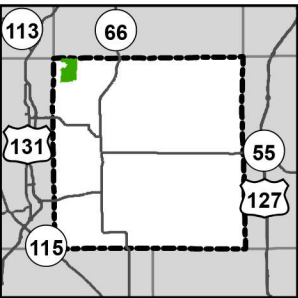
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Stand Boundary Map

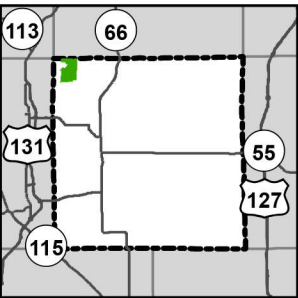
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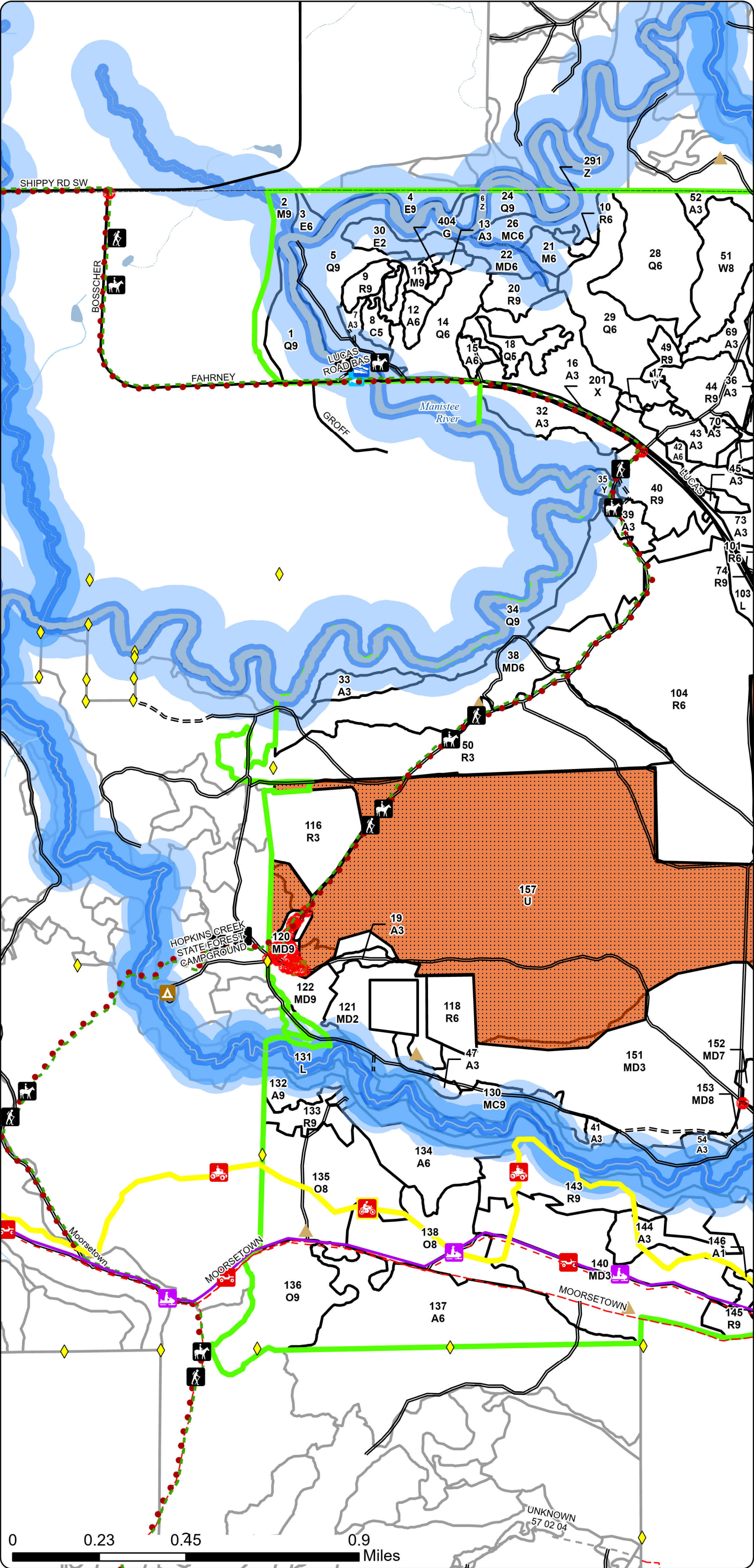


Special Conservation Areas  
& Site Conditions Map

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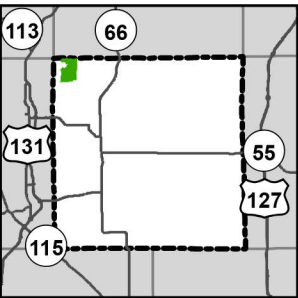
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- Stand Boundaries
- Natural Rivers Vegetative Buffer
- Natural Rivers Zoning District
- SCA
- Cold Water Streams
- High Priority Trout Stream Buffer
- Other Habitat Area



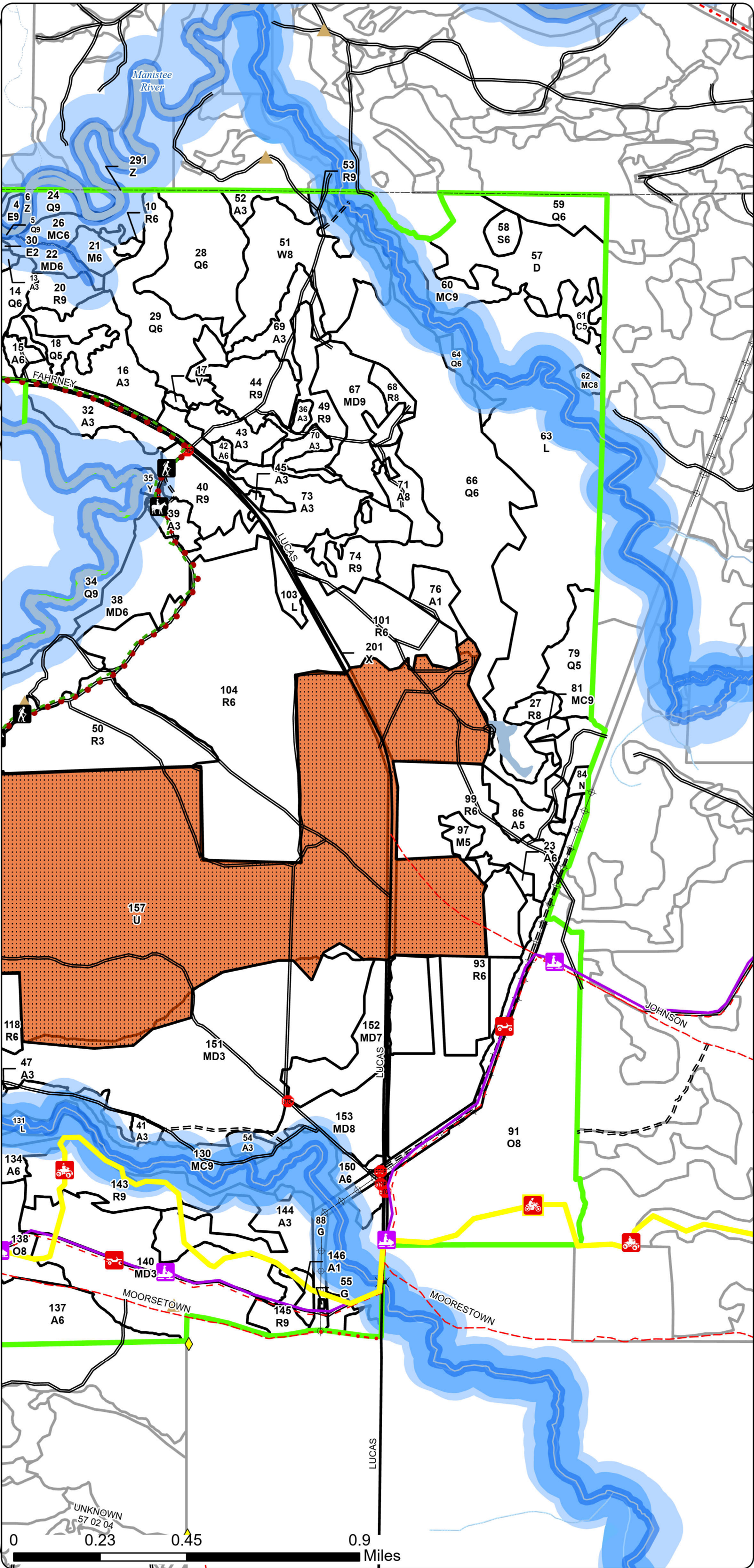


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# Report 1 – Total Acres by Cover Type and Age Class

Compartment 119 Year of Entry 2027

	Age Class																		Total
	Non-Forest	0-9	10-19	20-29	30-39	40-49	50-59	60-69	70-79	80-89	90-99	100-109	110-119	120-129	130-139	140-149	150+	Unseen-Aged	
Aspen	0	54	121	47	124	0	51	4	0	0	0	0	0	0	0	0	0	0	400
Bog	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Cedar	0	0	0	0	0	0	0	0	0	0	0	7	6	0	0	0	0	0	13
Herbaceous Openland	31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	31
Low-Density Trees	552	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	552
Lowland Conifers	0	0	0	0	0	0	0	0	20	21	0	184	75	0	0	0	0	133	432
Lowland Deciduous	0	0	11	0	0	0	0	0	0	0	4	0	0	0	0	0	0	13	28
Lowland Shrub	210	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	210
Lowland Spruce/Fir	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	5
Marsh	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
Mixed Upland Deciduous	0	0	255	0	0	0	0	135	0	0	13	0	0	0	0	0	0	76	478
Natural Mixed Pines	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	3
Northern Hardwood	0	0	0	0	0	0	0	14	0	0	0	5	0	0	0	0	0	12	31
Oak	0	0	0	0	0	0	0	0	0	0	142	0	198	0	0	0	0	0	340
Red Pine	0	104	32	0	0	0	3	480	11	0	0	0	0	0	0	0	0	41	671
Sand, Soil	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
Treed Bog	48	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	48
Upland Conifers	0	0	0	0	0	0	0	13	0	0	0	0	0	0	0	0	0	121	134
Urban	28	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	28
Water	18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	18
White Pine	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	51	51
Total	892	158	419	47	124	0	54	646	31	24	159	196	279	0	0	0	0	452	3478



## Report 2 – Treatment Summary

Cadillac Mgt. Unit  
Year of Entry: 2027

Acres of Harvest

Compartment 119  
Total Compartment Acres: 3,477

Commercial Harvest - 458  
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	40	0	0	0	0	0	0	0	0	40
Lowland Conifers	7	0	0	0	0	0	0	0	0	7
Mixed Upland Deciduous	37	0	0	28	0	0	0	0	0	65
Northern Hardwood	6	0	0	0	0	0	0	0	0	6
Oak	119	0	0	0	0	0	0	0	0	119
Red Pine	26	0	0	3	0	176	0	0	0	205
Upland Conifers	0	7	0	0	0	0	0	0	0	7
<b>Total</b>	<b>234</b>	<b>7</b>	<b>0</b>	<b>31</b>	<b>0</b>	<b>176</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>448</b>

### Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	448	0	0	0	549	0	0	0	0	997
Next Step	0	0	0	180	360	360	9	0	0	1088
<b>Total</b>	<b>448</b>	<b>0</b>	<b>0</b>	<b>180</b>	<b>908</b>	<b>360</b>	<b>9</b>	<b>0</b>	<b>0</b>	<b>2085</b>

Standard

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

157	63119157- Burn Unit 7	47.6	3301 - Low Density Deciduous Trees	99		Burn	Prescribed Burn	320 - Upland Shrub	Previous Inventory	No
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Prescription Burn on rotations.Specs:Next StepTreatments:AcceptableRegen:OtherComment:Site Condition: Conservation ValuesProposed Start Date: 10/01/2026

157	63119157- Burn Unit 6	103.1	3301 - Low Density Deciduous Trees	99		Burn	Prescribed Burn	320 - Upland Shrub	Previous Inventory	No
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Prescription Burn on rotations.Specs:Next StepTreatments:AcceptableRegen:OtherComment:Site Condition: Conservation ValuesProposed Start Date: 10/01/2026

157	63119157- Burn Unit 5	78.3	3301 - Low Density Deciduous Trees	99		Burn	Prescribed Burn	320 - Upland Shrub	Previous Inventory	No
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Prescription Burn on rotations.Specs:Next StepTreatments:AcceptableRegen:OtherComment:Site Condition: Conservation ValuesProposed Start Date: 10/01/2026

157	63119157- Burn Unit 4	57.1	3301 - Low Density Deciduous Trees	99		Burn	Prescribed Burn	320 - Upland Shrub	Previous Inventory	No
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Prescription Burn on rotations.Specs:Next StepTreatments:AcceptableRegen:OtherComment:Site Condition: Conservation ValuesProposed Start Date: 10/01/2026



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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
<b>157 63119157-Burn Unit 2</b>	89.9	3301 - Low Density Deciduous Trees	99			Burn	Prescribed Burn	310 - Herbaceous Openland	Previous Inventory	No
<u>Prescription</u> Prescribed fire under conditions appropriate to achieve 90%+ top kill on cherry brush. Additional brush management as well as herbaceous <u>Specs:</u> and grass management in next steps treatments. The burns in 2024 worked well.  <u>Next Step</u> Pesticide, Other - Specify; Seeding, Machine Seed; Burn, Prescribed Fire; Openings Mgmt., Interseeding; Burn, Opening; Pesticide, <u>Treatments:</u> Other - Specify  <u>Acceptable</u> <u>Regen:</u>  <u>Other</u> <u>Comment:</u>  <u>Site Condition:</u> Conservation Values <u>Proposed Start Date:</u> 10/01/2025										
<b>157 63119157-Burn Unit 1</b>	67.6	3301 - Low Density Deciduous Trees	99			Burn	Prescribed Burn	320 - Upland Shrub	Previous Inventory	No
<u>Prescription</u> Burn on rotations. <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> Conservation Values <u>Proposed Start Date:</u> 10/01/2026										
<b>157 63119157-Burn 3</b>	68.0	3301 - Low Density Deciduous Trees	99			Burn	Prescribed Burn	320 - Upland Shrub	Previous Inventory	No
<u>Prescription</u> Burn on rotations. <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> Conservation Values <u>Proposed Start Date:</u> 10/01/2026										
<b>157 63119157-Burn Unit 8</b>	37.1	3301 - Low Density Deciduous Trees	99			Burn	Prescribed Burn	310 - Herbaceous Openland	Previous Inventory	No
<u>Prescription</u> Burn on rotations. <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> Conservation Values <u>Proposed Start Date:</u> 10/01/2026										

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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
<b>135 63119135-Cut</b>	55.5	4121 - Oak, Aspen	8	97	51-80	Harvest	Clearcut	412 - Oak Types	Planting Record	No
<u>Prescription</u> Cut all trees 2 inches and greater at DBH. Leave all white and red pine. Leave 1 to 3 large oak per acre. leave 3-5 percent retention. <u>Specs:</u> <u>Next Step</u> <u>Treatments:</u> <u>Acceptable</u> Moderate to fully stocked oak types with some aspen, red maple, white pine and red pine mixed in. <u>Regen:</u> <u>Other</u> If stand fails to come back to predominantly oak types, plant to red pine per tms specs. Add oak wilt spec and trail protection spec. <u>Comment:</u> <u>Site Condition:</u> <u>Proposed Start Date:</u> 10/01/2026										
<b>12 63119012-Cut</b>	4.8	4130 - Aspen	6	59	81-110	Harvest	Clearcut	413 - Aspen	Planting Record	No
<u>Prescription</u> Clearcut no retention - Cut all species 2 inch and larger except: hemlock, cedar, sugar maple, and 16" DBH and larger white pine. - <u>Specs:</u> Include balsam wooly quarantine spec. - Include dead and down creation: Hare, Grouse, Deer spec. <u>Next Step</u> <u>Treatments:</u> <u>Acceptable</u> Moderate or better stocking of aspen with components of red maple, white pine, cedar and hemlock. <u>Regen:</u> <u>Other</u> <u>Comment:</u> <u>Site Condition:</u> <u>Proposed Start Date:</u> 10/01/2026										
<b>14 63119014-Cut</b>	6.6	6128 - Lowland Coniferous, Mixed Deciduous	6	112	171-200	Harvest	Clearcut	6112 - Lowland Aspen	Planting Record	No
<u>Prescription</u> Clearcut no retention - Cut all species 2 inch and larger except: hemlock, cedar, paper birch, and 16" DBH and larger white pine. - <u>Specs:</u> Include balsam wooly quarantine spec - Include dry summer frozen winter spec <u>Next Step</u> <u>Treatments:</u> <u>Acceptable</u> moderate or better stocking levels of mixed hemlock, cedar, aspen, red maple, and paper birch <u>Regen:</u> <u>Other</u> <u>Comment:</u> <u>Site Condition:</u> <u>Proposed Start Date:</u> 10/01/2026										
<b>15 63119015-Cut</b>	4.1	4130 - Aspen	6	62	81-110	Harvest	Clearcut	413 - Aspen	Planting Record	No
<u>Prescription</u> Clearcut no retention- Cut all species 2 inch and larger except: hemlock, cedar, 16" DBH and larger white pine, or 16" DBH and larger red pine.- Include dead and down creation: Hare, Grouse, Deer spec.- Include balsam wooly quarantine spec. <u>Specs:</u> <u>Next Step</u> <u>Treatments:</u> <u>Acceptable</u> Moderate or better stocking of aspen with components of red maple, paper birch, hemlock, cedar, and white and red pine. <u>Regen:</u> <u>Other</u> <u>Comment:</u> <u>Site Condition:</u> <u>Proposed Start Date:</u> 10/01/2026										



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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
<b>21 63119021-Cut</b>	5.5	4112 - Maple, Beech, Cherry Association	6	62	81-110	Harvest	Clearcut	4199 - Other Mixed Upland Deciduous	Cutting Record	No
<u>Prescription</u> Clearcut, no retention - Cut all species 2 inches and greater.- Do not cut white pine or hemlock. - Include Wood Turtle specs.- Buffer the tributary along the southern edge 115 feet. <u>Specs:</u> <u>Next Step</u> <u>Treatments:</u> <u>Acceptable</u> Moderate or better stocking of red maple, black cherry, aspen, white pine, and red pine. <u>Regen:</u> <u>Other</u> Tributary slope is approximately 12%, buffer 115 feet. <u>Comment:</u> <u>Site Condition:</u> <u>Proposed Start Date:</u> 10/01/2026										
<b>26 63119026-Cut</b>	6.7	429 - Mixed Upland Conifers	6	65	81-110	Harvest	Selection	4319 - Mixed Upland Forest	Cutting Record	No
<u>Prescription</u> Group Selection- Cut only red pine- Mark to leave 2-5 red pine per acre- Include Wood Turtle specs.- Follow treatment boundary as it reflects the natural river buffer of 175 ft and tributary buffer of 115 ft. <u>Specs:</u> <u>Next Step</u> <u>Treatments:</u> <u>Acceptable</u> Moderate or better stocking of red maple, black cherry, red oak, aspen, white pine, and red pine. <u>Regen:</u> <u>Other</u> Tributary an south west edge of treatment is 12% slope, buffer 115 feet. Site conditions reflect Natural River buffer of 175 feet. <u>Comment:</u> <u>Site Condition:</u> <u>Proposed Start Date:</u> 10/01/2026										
<b>38 63119038-Cut</b>	37.1	4199 - Other Mixed Upland Deciduous	6	63	51-80	Harvest	Clearcut	413 - Aspen	Planting Record	No
<u>Prescription</u> Final harvest cut all trees 2 inches and greater at DBH. Leave 1-3 White or red pine per acre where present. <u>Specs:</u> <u>Next Step</u> <u>Treatments:</u> <u>Acceptable</u> Moderate to fully stocked Aspen, maple, oak and pine. <u>Regen:</u> <u>Other</u> Add Trail spec to sale. <u>Comment:</u> <u>Site Condition:</u> <u>Proposed Start Date:</u> 10/01/2026										
<b>67 63119067-Cut</b>	28.0	4191 - Mixed Upland Deciduous with Conifer	9	62	51-80	Harvest	Seed Tree	4199 - Other Mixed Upland Deciduous	Planting Record	No
<u>Prescription</u> Cut all trees 4 inches and greater. Leave 3-8 large white or red pine per acre where present. Leave all cedar and paper birch. <u>Specs:</u> <u>Next Step</u> <u>Treatments:</u> <u>Acceptable</u> Moderate to fully stocked pine, aspen, , maple, oak. <u>Regen:</u> <u>Other</u> <u>Comment:</u> <u>Site Condition:</u> <u>Proposed Start Date:</u> 10/01/2026										

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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
<b>86 63119086-Cut</b>	22.1	4130 - Aspen	5	59	51-80	Harvest	Clearcut	413 - Aspen	Planting Record	No
<u>Prescription</u> Final harvest cut all deciduous 2 inches and greater at DBH. Leave all white and red pine. <u>Specs:</u> <u>Next Step</u> <u>Treatments:</u> <u>Acceptable</u> Moderate to fully stocked aspen, maple, white and red pine. <u>Regen:</u> <u>Other</u> Include grouse spec and brush piles along lowland edges. <u>Comment:</u> <u>Site Condition:</u> <u>Proposed Start Date:</u> 10/01/2026										
<b>104 63119104-Cut</b>	176.4	42110 - Planted Red Pine	6	69	141-170	Harvest	Thinning	4211 - Planted Red Pine	Planting Record	No
<u>Prescription</u> Manage for best tree in place thinning to an average of 120 BA. <u>Specs:</u> <u>Next Step</u> <u>Treatments:</u> <u>Acceptable</u> Moderate to fully stocked red pine, oaks, and maple. <u>Regen:</u> <u>Other</u> Include trail protection specs. <u>Comment:</u> <u>Site Condition:</u> <u>Proposed Start Date:</u> 10/01/2026										
<b>10 63119010-Cut</b>	2.5	42110 - Planted Red Pine	6	51	171-200	Harvest	Seed Tree	429 - Mixed Upland Conifers	Cutting Record	No
<u>Prescription</u> Clearcut, no retention- Final harvest all species 2 inch and larger. - Mark to leave 3 to 5 red pine per acre. - Do not cut white pine.- <u>Specs:</u> Include Wood Turtle specs. <u>Next Step</u> <u>Treatments:</u> <u>Acceptable</u> Moderate of better stocking of red pine, white pine, red maple, aspen, and black cherry. <u>Regen:</u> <u>Other</u> <u>Comment:</u> <u>Site Condition:</u> <u>Proposed Start Date:</u> 10/01/2026										
<b>132 63119132-Cut</b>	9.2	4131 - Aspen, Oak	9	55	81-110	Harvest	Clearcut	6112 - Lowland Aspen	Planting Record	No
<u>Prescription</u> Final harvest all trees 4 inches and greater. Leave all cedar, hemlock, and white/red pine 18 inches and greater at DBH. <u>Specs:</u> <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u> <u>Acceptable</u> Moderate to fully stocked aspen, maple, pine, hemlock and cedar. <u>Regen:</u> <u>Other</u> Include grouse spec. <u>Comment:</u> <u>Site Condition:</u> <u>Proposed Start Date:</u> 10/01/2026										

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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
<b>136 63119136-Cut</b>	22.6	4123 - Red Oak	9	98	51-80	Harvest	Clearcut	412 - Oak Types	Planting Record	No
<u>Prescription</u> Cut all trees 4 inches and greater at DBH. Leave all white and red pine. Leave 1 to 2 large oak per acre. <u>Specs:</u> <u>Next Step</u> <u>Treatments:</u> <u>Acceptable</u> Moderate to fully stocked oak <u>Regen:</u> <u>Other</u> If stand fails to come back to predominantly oak types, plant to red pine per tms specs. Include trail protection specs. <u>Comment:</u> <u>Site Condition:</u> <u>Proposed Start Date:</u> 10/01/2026										
<b>138 63119138-Cut</b>	41.2	4124 - Red with White Oak	8	97	1-50	Harvest	Clearcut	412 - Oak Types	Planting Record	No
<u>Prescription</u> Cut all trees 2 inches and greater at DBH. Leave all white and red pine. Leave 1 to 3 large oak per acre.leave 3-5 percent retention. <u>Specs:</u> <u>Next Step</u> <u>Treatments:</u> <u>Acceptable</u> Moderate to fully stocked oak types with some aspen, red maple, white pine and red pine mixed in. <u>Regen:</u> <u>Other</u> If stand fails to come back to predominantly oak types, plant to red pine per tms specs. Add oak wilt spec and trail protection spec. <u>Comment:</u> <u>Site Condition:</u> <u>Proposed Start Date:</u> 10/01/2026										
<b>118 63119118-Cut</b>	25.7	42110 - Planted Red Pine	6	64	111-140	Harvest	Clearcut	412 - Oak Types	Planting Record	No
<u>Prescription</u> Final harvest leave 1-3 healthy red pine per acre where present. <u>Specs:</u> <u>Next Step</u> <u>Treatments:</u> <u>Acceptable</u> Moderate to fully stocked oaks, maple, and red pine. <u>Regen:</u> <u>Other</u> <u>Comment:</u> <u>Site Condition:</u> <u>Proposed Start Date:</u> 10/01/2026										

**Total Treatment** 996.7  
**Acreage Proposed:**





Availability for Management

Total	Acres	Acres Avail	Acres	Dominant Site Conditions										
Acres	Available	With Condition	Not Available		5B	5C	2F	2G	2H	3A	3D	3J	5A	5E
372	369	0	3	Aspen										3
1	1	0	0	Bog										
13	13	0	0	Cedar										
31	31	0	0	Herbaceous Openland										
550	0	0	550	Low-Density Trees						550				
426	25	9	392	Lowland Conifers	9			247	6			98	42	
27	11	0	17	Lowland Deciduous				4				13		
210	210	0	0	Lowland Shrub										
5	0	0	5	Lowland Spruce/Fir				5						
2	2	0	0	Marsh										
427	371	38	18	Mixed Upland Deciduous		38	5				13	1		
3	3	0	0	Natural Mixed Pines										
25	12	0	13	Northern Hardwood			10					3		
318	98	219	0	Oak	198	21								
670	670	0	0	Red Pine										
2	2	0	0	Sand, Soil										
48	48	0	0	Treed Bog										
127	0	0	127	Upland Conifers					3			124		
28	28	0	0	Urban										
18	18	0	0	Water										
51	51	0	0	White Pine										
3,355	1,963	266	1,126	Total Forested Acres	207	59	15	257	9	550	13	239	42	3
	59%	8%	34%	Relative Percent										

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

Site No.	Dominant Site Cond Availability	Dominant Site Condition	Acres	Other Site Condition	Other Site Condition	Other Site Condition	Other Site Condition
1	Unavailable	3J: Water quality/BMPs (stream, river, or lake)	94	2F: Too steep	2G: Too wet (sensitive soils, does not include access issues)	Unspecified	Unspecified
<b>Comments:</b> Vegetated buffer along Hopkins Creek. Unavailable for management.							

# Report 4 – Site Conditions

Cadillac Mgt. Unit  
Joe Ventimiglia: Examiner

Compartment: 119  
Year of Entry: 2027



2	Unavailable	2F: Too steep	10	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Too steep and close to river. Stand not able to be treated commercially.							
3	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	2	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
4	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	16	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
5	Unavailable	3J: Water quality/BMPs (stream, river, or lake)	19	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
6	Unavailable	3J: Water quality/BMPs (stream, river, or lake)	43	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
7	Unavailable	2F: Too steep	5	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							

# Report 4 – Site Conditions

Cadillac Mgt. Unit  
Joe Ventimiglia: Examiner

Compartment: 119  
Year of Entry: 2027



8	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	20	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
9	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	15	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	5A: Not able to obtain desirable regeneration	Unspecified	Unspecified
Comments:							
10	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	12	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
11	Unavailable	3J: Water quality/BMPs (stream, river, or lake)	24	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	Unspecified	Unspecified	Unspecified
Comments: Between proximity to creek and small creek that blocks access to southern half of stand.							
12	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	3	3J: Water quality/BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
Comments:							

# Report 4 – Site Conditions

Cadillac Mgt. Unit  
Joe Ventimiglia: Examiner

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Year of Entry: 2027



13	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	6	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
14	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	3	3J: Water quality/BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
Comments:							
16	Available	5B: Maintain for regeneration purposes	9	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Stand was cut last entry only mature cedar and hemlock were left. Aspen and maple regeneration coming in good. Leave long lived conifer over story.							
17	Unavailable	5A: Not able to obtain desirable regeneration	42	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Leave at this time, stand has potential for lowland management in the future but major concerns over wet nature and regeneration concerns post harvest.							
19	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	139	5A: Not able to obtain desirable regeneration	3H: Deer Wintering Area - habitat is incompatible with harvest at this time	Unspecified	Unspecified
Comments: Large complex stand, in general large commercial management of this stand may not be warranted do to above site conditions.							
20	Unavailable	3J: Water quality/BMPs (stream, river, or lake)	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Natural River guidance - native vegetation buffer for tributaries. 21-32% slope - 135 feet. (Stand 21). 33+% slope - 155 feet (stand 26).							



# Report 4 – Site Conditions

Cadillac Mgt. Unit  
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21	Available	5B: Maintain for regeneration purposes	198	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Stand has been recently treated. Scattered large oak left for regeneration purposes. Do not enter stand, as a result of damage to oak understory. Stand can be entered in 40 plus years once oak gets more mature.							
23	Unavailable	3J: Water quality/BMPs (stream, river, or lake)	57	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
25	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	3	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
26	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	21	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
27	Unavailable	3D: Recreational/scenic values	13	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Hopkins Creek campground. Only management that will take place is removal of hazard trees as Parks division sees fit over time.							
28	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	43	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							

# Report 4 – Site Conditions

Cadillac Mgt. Unit  
Joe Ventimiglia: Examiner

Compartment: 119  
Year of Entry: 2027



29	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	38	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Cut next YOE, allow stand to put on a little more growth and will keep a chunk of aspen for next YOE.							
30	Unavailable	5E: Long-Term Retention	3	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Long term retention of Hopkins burn area. Trees will be left in these pockets to give some structure and refuge in this burn area.							
31	Unavailable	3A: Conservation values incompatible with harvest at this time	550	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> This is the Hopkins creek SCA prescribed burn area that is being managed for wildlife.							
32	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	4	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Cut next YOE, allow stand to put on a little more growth and will keep a chunk of aspen for next YOE.							
33	Unavailable	5E: Long-Term Retention	2	3J: Water quality/BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Combination of long term retention for aspen cut to south and river buffer.							
36	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Long term retention for stand 50.							

## Report 4 – Site Conditions

Cadillac Mgt. Unit  
Joe Ventimiglia: Examiner

Compartment: 119  
Year of Entry: 2027



37	Unavailable	5E: Long-Term Retention	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
38	Unavailable	2F: Too steep	3	3J: Water quality/BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
Comments:							
39	Unavailable	5E: Long-Term Retention	0	Unspecified	Unspecified	Unspecified	Unspecified
Comments: LTR for stand 43							
58	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	5	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

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
Hopkins Creek	Habitat Area or Habitat Corridor	Other Habitat Area	SCA	575
Comments				



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																																				
1	6128 - Lowland Coniferous, Mixed Deciduous	Sawtimber Well	21.2	150	81-110	N/A	Lowland conifer dominated by cedar along the Manistee River. Boat access managed site in the southeast corner of stand. Many seeps running in stand.																																																																				
<table><tr><th>Canopy Species</th><th>% Cover</th><th>Size Class</th><th>DBH</th><th>Age</th></tr><tr><td>Quaking Aspen</td><td>10</td><td></td><td>8</td><td></td></tr><tr><td>Northern White Cedar</td><td>41</td><td></td><td>11</td><td>150</td></tr><tr><td>Hemlock</td><td>5</td><td></td><td>8</td><td></td></tr><tr><td>Balsam Poplar</td><td>5</td><td>Seedling</td><td>8</td><td></td></tr><tr><td>White Pine</td><td>2</td><td></td><td>15</td><td></td></tr><tr><td>Balsam Fir</td><td>30</td><td></td><td>8</td><td></td></tr><tr><td>Basswood</td><td>5</td><td></td><td>12</td><td></td></tr><tr><td>Sugar Maple</td><td>2</td><td></td><td>15</td><td></td></tr></table>		Canopy Species	% Cover	Size Class	DBH	Age		Quaking Aspen	10		8		Northern White Cedar	41		11	150	Hemlock	5		8		Balsam Poplar	5	Seedling	8		White Pine	2		15		Balsam Fir	30		8		Basswood	5		12		Sugar Maple	2		15		<table><tr><th>Sub-Canopy Species</th><th>Density</th><th>Avg. Height</th><th>Size</th></tr><tr><td>White Oak</td><td>Low</td><td>10 - 20 feet</td><td>10 - 20 feet</td></tr><tr><td>Balsam Fir</td><td>Low</td><td>&lt; 5 feet</td><td>&lt; 5 feet</td></tr><tr><td>White Pine</td><td>Low</td><td>&lt; 5 feet</td><td>&lt; 5 feet</td></tr><tr><td>Quaking Aspen</td><td>Low</td><td>5 - 10 feet</td><td>5 - 10 feet</td></tr><tr><td>Red Maple</td><td>Medium</td><td>5 - 10 feet</td><td>5 - 10 feet</td></tr></table>		Sub-Canopy Species	Density	Avg. Height	Size	White Oak	Low	10 - 20 feet	10 - 20 feet	Balsam Fir	Low	< 5 feet	< 5 feet	White Pine	Low	< 5 feet	< 5 feet	Quaking Aspen	Low	5 - 10 feet	5 - 10 feet	Red Maple	Medium	5 - 10 feet	5 - 10 feet		
Canopy Species	% Cover	Size Class	DBH	Age																																																																							
Quaking Aspen	10		8																																																																								
Northern White Cedar	41		11	150																																																																							
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2	4110 - Sugar Maple Association	Sawtimber Well	12.3	112	51-80	N/A	Side slope of hardwood, very steep terrain. Private corn field to west and lowland cedar swamp to east. Too steep to manage commercially.																																																																				
<table><tr><th>Canopy Species</th><th>% Cover</th><th>Size Class</th><th>DBH</th><th>Age</th></tr><tr><td>Sugar Maple</td><td>69</td><td></td><td>10</td><td>112</td></tr><tr><td>Red Maple</td><td>5</td><td></td><td>12</td><td></td></tr><tr><td>Basswood</td><td>20</td><td></td><td>13</td><td></td></tr><tr><td>White Pine</td><td>2</td><td></td><td>15</td><td></td></tr><tr><td>Beech</td><td>2</td><td></td><td>13</td><td></td></tr><tr><td>Hemlock</td><td>2</td><td></td><td>10</td><td></td></tr></table>		Canopy Species	% Cover	Size Class	DBH	Age		Sugar Maple	69		10	112	Red Maple	5		12		Basswood	20		13		White Pine	2		15		Beech	2		13		Hemlock	2		10		<table><tr><th>Sub-Canopy Species</th><th>Density</th><th>Avg. Height</th><th>Size</th></tr><tr><td>Sugar Maple</td><td>Low</td><td>Variable</td><td>Variable</td></tr><tr><td>Ironwood</td><td>Medium</td><td>Variable</td><td>Variable</td></tr><tr><td>Beech</td><td>Medium</td><td>Variable</td><td>Variable</td></tr></table>		Sub-Canopy Species	Density	Avg. Height	Size	Sugar Maple	Low	Variable	Variable	Ironwood	Medium	Variable	Variable	Beech	Medium	Variable	Variable																				
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3	6119 - Mixed Lowland Deciduous Forest	Poletimber Well	3.7	99	81-110	N/A	Floodplain of lowland hardwood and aspen.																																																																				
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4	6117 - Lowland Deciduous, Mixed Coniferous	Sawtimber Well	13.0	112	51-80	N/A	Lowland land locked sliver of lowland hardwood and conifer along river.																																																																				
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Stand	Level 4 Cover Type	Size Density			Acres	Stand Age	BA Range	Managed Site	General Comments		
5	6128 - Lowland Coniferous, Mixed Deciduous				36.0	109	51-80	N/A	Lowland conifer complex with pockets of upland aspen and a few openings along the river. Road goes all the way along west border of stand. Old consumers lease cabin has been removed in 2013.		
		Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
		Balsam Fir	30	Seedling	8		Black Ash	Low		5 - 10 feet	5 - 10 feet
		Quaking Aspen	5		10		Red Maple	Low		< 5 feet	< 5 feet
		Red Maple	8		13		Tag Alder	Low		5 - 10 feet	5 - 10 feet
		Paper Birch	3		9		Balsam Poplar	Low		5 - 10 feet	5 - 10 feet
		Red Pine	2		12		White Pine	Low		5 - 10 feet	5 - 10 feet
		Northern White Cedar	32		11	109					
		Hemlock	9		12						
		Balsam Poplar	3		8						
		White Pine	5		12						
		Black Cherry	3		9						
6	500 - Water	Unspecified			15.1			No		Manistee River.	
7	4130 - Aspen				8.9	15	Immature	N/A	Stand was final harvested in 2010 with green ringed trees left as well as any cedar and hemlock. Came back well to aspen.		
		Canopy Species	% Cover	Size Class	DBH	Age					
		Red Maple	8	Log	1	15					
		White Pine	5		12						
		Northern White Cedar	2	Seedling	8						
		Quaking Aspen	85	Log	2	15					
8	6120 - Lowland Cedar	Poletimber Medium			6.3	112	51-80	N/A	Stand was cut in 2010, with all cedar and hemlock left as well as some green marked trees. Cedar in hemlock with aspen in understory.		
		Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
		Northern White Cedar	60		8	112	Quaking Aspen	Full		5 - 10 feet	5 - 10 feet
		Hemlock	40		8		Ash (spp.)	Low		5 - 10 feet	5 - 10 feet
							Balsam Poplar	Low		5 - 10 feet	5 - 10 feet
							Balsam Fir	Low		< 5 feet	< 5 feet
9	42110 - Planted Red Pine				5.7	70	111-140	N/A	Stand third row thinned two entrys ago and second thinned in 2010. Stand thinned again in summer of 2018. Good quality stand. Average BA 120-130. Moderate amount of red pine seedling in understory.		
		Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
		Red Pine	100		12	70	Red Pine	Medium		< 5 feet	< 5 feet
							Balsam Fir	Low		< 5 feet	< 5 feet
							Beech	Trace		< 5 feet	< 5 feet
10	42110 - Planted Red Pine	Poletimber Well			2.6	51	171-200	N/A	Small never thinned red pine plantation overtopped by maple in spots. Red pine is dense at approximately 210-220 BA. This stand is planted however planting records do not exist.		
		Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
		Red Maple	10		15		Balsam Fir	Medium		< 5 feet	< 5 feet
		White Pine	5	Seedling	7						
		Red Pine	85	Seedling	7	51					

Stand	Level 4 Cover Type	Size Density			Acres	Stand Age	BA Range	Managed Site	General Comments																																																												
11	4111 - S.Maple, Hard Mast Association				5.1	105	81-110	N/A	Stand was marked thinning in 2010. Small sliver of hardwood. Decent quality hardwoods with a high quantity of sugar maple. Sugar maple regen is low to moderate, though its experiencing browse.																																																												
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12	4130 - Aspen				4.8	59	81-110	N/A	Small stand of pole- log aspen with red maple, low quantity of sugar maples log and log to x-log white pine.																																																												
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14	6128 - Lowland Coniferous, Mixed Deciduous				25.3	112	171-200	N/A	Variable lowland conifer stand although pockets of aspen and red maple scattered throughout as well. Very mixed stand. Low wet pockets throughout.																																																												
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15	4130 - Aspen				4.1	62	81-110	N/A	Small pocket of mature aspen and mixed conifer. Aspen to east was cut last YOE.																																																												
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16	4130 - Aspen		36.6	15	Immature	N/A	Stand was final harvested in 2010, with all cedar and hemlock left as well as some green marked trees. Buffer strip of mature aspen and pine left along Lucas road.																																																																																	
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17	6225 - Bog	Unspecified	1.3			No																																																																																		
18	6129 - Mixed Coniferous Lowland Forest	Poletimber Medium	8.7	109	1-50	N/A	Stand was cut in 2010, with all cedar and hemlock left as well as some green marked trees. Two aged stand with hemlock and cedar scattered in over story and aspen flush from 2010 sale in understory.																																																																																	
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19	4131 - Aspen, Oak	Sapling Well	3.6	30	Immature	N/A	Small aspen stand with mix of oak. Some larger oak on the edges were left.																																																																																	
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20	42110 - Planted Red Pine	Sawtimber Well	9.5	69	111-140	N/A	Good quality stand that can mature one more inventory cycle to add girth and volume. Stand was 3rd row thinned between 1989-92, and was marked second thinning in 2010. Third entry thinning took place in summer of 2018.																																																																																	
<table><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><tr><td>Red Pine</td><td>100</td><td></td><td>12</td><td>69</td><td>Red Maple</td><td>Low</td><td>&lt; 5 feet</td><td>&lt; 5 feet</td></tr><tr><td></td><td></td><td></td><td></td><td></td><td>Balsam Fir</td><td>Low</td><td>5 - 10 feet</td><td>5 - 10 feet</td></tr><tr><td></td><td></td><td></td><td></td><td></td><td>Beech</td><td>Trace</td><td>&lt; 5 feet</td><td>&lt; 5 feet</td></tr><tr><td></td><td></td><td></td><td></td><td></td><td>White Pine</td><td>Low</td><td>5 - 10 feet</td><td>5 - 10 feet</td></tr><tr><td></td><td></td><td></td><td></td><td></td><td>Black Cherry</td><td>Low</td><td>5 - 10 feet</td><td>5 - 10 feet</td></tr><tr><td></td><td></td><td></td><td></td><td></td><td>Red Pine</td><td>Low</td><td>&lt; 5 feet</td><td>&lt; 5 feet</td></tr></table>								Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size	Red Pine	100		12	69	Red Maple	Low	< 5 feet	< 5 feet						Balsam Fir	Low	5 - 10 feet	5 - 10 feet						Beech	Trace	< 5 feet	< 5 feet						White Pine	Low	5 - 10 feet	5 - 10 feet						Black Cherry	Low	5 - 10 feet	5 - 10 feet						Red Pine	Low	< 5 feet	< 5 feet																		
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					Black Cherry	Low	5 - 10 feet	5 - 10 feet																																																																																
					Red Pine	Low	< 5 feet	< 5 feet																																																																																
21	4112 - Maple, Beech, Cherry Association		6.9	62	81-110	N/A	Stand is composed heavily of red maple clumps and black cherry. Beech is present but falling out. A drainage runs along boundary on the southern border. Access for harvest of the stand will be from the north.																																																																																	
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Stand	Level 4 Cover Type	Size	Density	Acres	Stand Age	BA Range	Managed Site	General Comments			
22	4191 - Mixed Upland Deciduous with Conifer			8.2	62	81-110	N/A	Stand is composed of red maple, black cherry, white pine, red pine, aspen. The eastern half of the stand is dominated by red maple with cherry and beech present and the occasional red pine. Moving west the stand becomes more open, pine shows a larger presents and aspen fingers work in from adjacent stands. Overall A relatively mixed stands of conifers and deciduous. The stand is delineated by adjacent geographic features and cover types.			
		Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
		Red Pine	5	Seedling	8		Ironwood		Low	10 - 20 feet	10 - 20 feet
		Red Maple	35		8	62	Red Maple		Low	Variable	Variable
		Bigtooth Aspen	20		9		White Pine		Low	5 - 10 feet	5 - 10 feet
		White Pine	5	Seedling	5		Balsam Fir		Medium	Variable	Variable
		White Pine	20		24						
23	4130 - Aspen	Poletimber Well		1.9	50	81-110	N/A	Small stand of pole aspen.			
		Canopy Species	% Cover	Size Class	DBH	Age					
		Red Maple	5	Sapling	7						
		Quaking Aspen	95	Sapling	7	50					
24	6128 - Lowland Coniferous, Mixed Deciduous	Sawtimber Well		8.1	112	81-110	N/A	Two separate lowland stands off the bluff and within the natural rivers buffers. Cedar along the edges of the river.			
		Canopy Species	% Cover	Size Class	DBH	Age					
		Red Maple	35		11						
		Balsam Fir	5		7						
		Northern White Cedar	40		8	112					
		Hemlock	10		12						
		Basswood	5		12						
		White Pine	5		10						
26	429 - Mixed Upland Conifers	Poletimber Well		13.4	65	81-110	N/A	Variable mixed upland stand with red pine, white pine, red maple, oak and aspen. Red pine is planted in rows in low to moderate density. However no planting record exists for this section (PLSS) the land was purchased from consumers in 1997. The stands understory stocking level is low with minimal regeneration present. The north edge of the stand is the crest of a bluff sloping steeply to the Manistee River. The south west edge of the stand is deeply cut ravine feeding the river.			
		Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
		Balsam Fir	5	Seedling	8		White Oak		Low	10 - 20 feet	10 - 20 feet
		Red Pine	35		8	65	Balsam Fir		Low	< 5 feet	< 5 feet
		Red Oak	5		12						
		Quaking Aspen	10		8						
		White Pine	20		12						
		Black Cherry	5		9						
		Red Maple	15		10	65					
		Paper Birch	5	Seedling	8						

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																								
27	42210 - Natural Red Pine	Sawtimber Medium	5.5	83	51-80	N/A	Natural red pine stand on isolated upland pocket. Variable size class pine but mostly log red pine. Open to west end of stand.																																																								
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28	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Well	43.4	75	141-170	N/A	Large lowland conifer complex, with some lowland hardwood and aspen on the north and west edges.																																																								
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29	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Well	41.5	113	51-80	N/A	Cedar mixed with balsam red maple, black spruce, and tamarack to the west. Black ash fall out with cedar to the east. Small upland pockets with Aspen are present as well.																																																								
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30	6118 - Lowland Deciduous with Cedar		10.6	15	1-50	N/A	Stand was habitat cut by wildlife division in winter of 2010. Stand was cut and left, timber was not utilized. Cedar was left. FTP# W63-689. Cedar is patchy with occasional pockets being wide open with aspen and maple regeneration.																																																								
<table><tr><th>Canopy Species</th><th>% Cover</th><th>Size Class</th><th>DBH</th><th>Age</th></tr><tr><td>Black Ash</td><td>5</td><td>Sapling</td><td>5</td><td></td></tr><tr><td>Quaking Aspen</td><td>25</td><td>Log</td><td>2</td><td>15</td></tr><tr><td>Northern White Cedar</td><td>20</td><td></td><td>8</td><td>110</td></tr><tr><td>Hemlock</td><td>10</td><td></td><td>8</td><td></td></tr><tr><td>Red Maple</td><td>40</td><td>Log</td><td>3</td><td>15</td></tr></table> <table><tr><th>Sub-Canopy Species</th><th>Density</th><th>Avg. Height</th><th>Size</th></tr><tr><td>Ash (spp.)</td><td>Medium</td><td>&lt; 5 feet</td><td>&lt; 5 feet</td></tr><tr><td>Red Maple</td><td>Low</td><td>&lt; 5 feet</td><td>&lt; 5 feet</td></tr><tr><td>Tag Alder</td><td>Low</td><td>5 - 10 feet</td><td>5 - 10 feet</td></tr></table>								Canopy Species	% Cover	Size Class	DBH	Age	Black Ash	5	Sapling	5		Quaking Aspen	25	Log	2	15	Northern White Cedar	20		8	110	Hemlock	10		8		Red Maple	40	Log	3	15	Sub-Canopy Species	Density	Avg. Height	Size	Ash (spp.)	Medium	< 5 feet	< 5 feet	Red Maple	Low	< 5 feet	< 5 feet	Tag Alder	Low	5 - 10 feet	5 - 10 feet										
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																			
32	4130 - Aspen	Sapling Well	17.1	8	Immature	N/A	Good quality aspen on south side of Lucas road. Small sliver of red pine in northwest border. Stand is two level topography Also steep creek drainage splits stand north and south. STAND was final harvested in 2018.																																			
<table><tr><th>Canopy Species</th><th>% Cover</th><th>Size Class</th><th>DBH</th><th>Age</th></tr><tr><td>White Pine</td><td>5</td><td>Sapling</td><td>5</td><td></td></tr><tr><td>Red Pine</td><td>2</td><td>Log</td><td>1</td><td></td></tr><tr><td>Red Oak</td><td>2</td><td>Log</td><td>1</td><td></td></tr><tr><td>Balsam Fir</td><td>2</td><td>Log</td><td>4</td><td></td></tr><tr><td>Red Maple</td><td>5</td><td>Log</td><td>1</td><td></td></tr><tr><td>Bigtooth Aspen</td><td>84</td><td>Log</td><td>1</td><td>8</td></tr></table>								Canopy Species	% Cover	Size Class	DBH	Age	White Pine	5	Sapling	5		Red Pine	2	Log	1		Red Oak	2	Log	1		Balsam Fir	2	Log	4		Red Maple	5	Log	1		Bigtooth Aspen	84	Log	1	8
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Balsam Fir	2	Log	4																																							
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Bigtooth Aspen	84	Log	1	8																																						
33	4130 - Aspen	Sapling Medium	9.2	8	Immature	N/A	Stand was final harvested in 2018, short wood operation.																																			
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Witch Hazel	Medium	5 - 10 feet	5 - 10 feet																																							
34	6128 - Lowland Coniferous, Mixed Deciduous	Sawtimber Well	68.1	112	51-80	N/A	Transitions from a white pine stand upslope into a mixed cedar, balsam, black ash etc. Q-type near river. All of it is off the slope and within the Manistee river buffer. Upslope portions of the stand are upland with all bottom slope portions being lowland near river.																																			
<table><tr><th>Canopy Species</th><th>% Cover</th><th>Size Class</th><th>DBH</th><th>Age</th></tr><tr><td>Quaking Aspen</td><td>5</td><td></td><td>12</td><td></td></tr><tr><td>Red Maple</td><td>10</td><td></td><td>12</td><td></td></tr><tr><td>Balsam Fir</td><td>5</td><td>Seedling</td><td>6</td><td></td></tr><tr><td>Black Ash</td><td>10</td><td>Seedling</td><td>8</td><td></td></tr><tr><td>White Pine</td><td>25</td><td></td><td>10</td><td></td></tr><tr><td>Northern White Cedar</td><td>40</td><td></td><td>10</td><td>112</td></tr></table>								Canopy Species	% Cover	Size Class	DBH	Age	Quaking Aspen	5		12		Red Maple	10		12		Balsam Fir	5	Seedling	6		Black Ash	10	Seedling	8		White Pine	25		10		Northern White Cedar	40		10	112
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35	710 - Sand, Soil	Unspecifed	2.2			No																																				
36	4130 - Aspen	Sapling Well	2.1	17	Immature	N/A	Stand was final harvested in 2008.																																			
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Bigtooth Aspen	100	Log	2	17																																						
38	4199 - Other Mixed Upland Deciduous	Poletimber Well	85.4	63	51-80	N/A	Variable mostly pole aspen stand with pockets of larger diameter log aspen. Low to medium quality aspen for the most part. Large stand with mostly level terrain. Stump sprouted maple. Converting to white oak and white pine.																																			
<table><tr><th>Canopy Species</th><th>% Cover</th><th>Size Class</th><th>DBH</th><th>Age</th></tr><tr><td>White Pine</td><td>10</td><td></td><td>8</td><td></td></tr><tr><td>White Oak</td><td>18</td><td>Seedling</td><td>5</td><td></td></tr><tr><td>Red Oak</td><td>2</td><td></td><td>15</td><td></td></tr><tr><td>Red Maple</td><td>35</td><td></td><td>9</td><td>63</td></tr><tr><td>Bigtooth Aspen</td><td>35</td><td></td><td>9</td><td>63</td></tr></table>								Canopy Species	% Cover	Size Class	DBH	Age	White Pine	10		8		White Oak	18	Seedling	5		Red Oak	2		15		Red Maple	35		9	63	Bigtooth Aspen	35		9	63					
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Red Maple	35		9	63																																						
Bigtooth Aspen	35		9	63																																						
<table><tr><th>Sub-Canopy Species</th><th>Density</th><th>Avg. Height</th><th>Size</th></tr><tr><td>White Pine</td><td>Medium</td><td>Variable</td><td>Variable</td></tr><tr><td>White Oak</td><td>Low</td><td>5 - 10 feet</td><td>5 - 10 feet</td></tr></table>							Sub-Canopy Species	Density	Avg. Height	Size	White Pine	Medium	Variable	Variable	White Oak	Low	5 - 10 feet	5 - 10 feet																								
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																				
39	4130 - Aspen	Sapling Well	7.4	17	Immature	N/A	Stand was final harvested in 2008, with all oak left.																																				
<table><tr><th>Canopy Species</th><th>% Cover</th><th>Size Class</th><th>DBH</th><th>Age</th></tr><tr><td>Bigtooth Aspen</td><td>95</td><td>Log</td><td>1</td><td>17</td></tr><tr><td>Red Oak</td><td>5</td><td></td><td>8</td><td></td></tr></table>								Canopy Species	% Cover	Size Class	DBH	Age	Bigtooth Aspen	95	Log	1	17	Red Oak	5		8																						
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Red Oak	5		8																																								
40	42110 - Planted Red Pine	Sawtimber Well	28.5	68	111-140	N/A	Stand was marked second thinning in 2008 and was third row thinned some years before that. Good quality and height for the most part. Scattered pockets of red maple. STAND thinned again in 2018, marked.																																				
<table><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><tr><td>Red Pine</td><td>100</td><td></td><td>12</td><td>68</td><td>Red Maple</td><td>Medium</td><td>5 - 10 feet</td><td>5 - 10 feet</td></tr></table>								Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size	Red Pine	100		12	68	Red Maple	Medium	5 - 10 feet	5 - 10 feet																		
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Red Pine	100		12	68	Red Maple	Medium	5 - 10 feet	5 - 10 feet																																			
41	4130 - Aspen	Sapling Well	6.8	15	Immature	N/A	Stand was final harvested in 2010, with all white pine under 4 inches dbh left at a time. Came back well to aspen and red maple.																																				
<table><tr><th>Canopy Species</th><th>% Cover</th><th>Size Class</th><th>DBH</th><th>Age</th></tr><tr><td>Red Maple</td><td>20</td><td>Log</td><td>2</td><td>15</td></tr><tr><td>White Pine</td><td>15</td><td>Sapling</td><td>5</td><td></td></tr><tr><td>Red Oak</td><td>5</td><td>Log</td><td>2</td><td></td></tr><tr><td>Quaking Aspen</td><td>60</td><td>Log</td><td>2</td><td>15</td></tr></table>								Canopy Species	% Cover	Size Class	DBH	Age	Red Maple	20	Log	2	15	White Pine	15	Sapling	5		Red Oak	5	Log	2		Quaking Aspen	60	Log	2	15											
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42	4130 - Aspen	Poletimber Well	2.3	31	Immature	N/A	Young pole aspen stand, with a few pine mixed in.																																				
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Bigtooth Aspen	95	Sapling	5	31																																							
43	4130 - Aspen	Sapling Well	12.9	8	Immature	N/A	Stand was final harvested in 2018, small island retention left as well as small pine.																																				
<table><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><tr><td>Red Maple</td><td>5</td><td>Log</td><td>1</td><td></td><td>White Pine</td><td>Medium</td><td>Variable</td><td>Variable</td></tr><tr><td>Quaking Aspen</td><td>80</td><td>Log</td><td>1</td><td>8</td><td></td><td></td><td></td><td></td></tr><tr><td>White Pine</td><td>15</td><td>Pole</td><td>4</td><td></td><td></td><td></td><td></td><td></td></tr></table>								Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size	Red Maple	5	Log	1		White Pine	Medium	Variable	Variable	Quaking Aspen	80	Log	1	8					White Pine	15	Pole	4					
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Quaking Aspen	80	Log	1	8																																							
White Pine	15	Pole	4																																								
44	42210 - Natural Red Pine	Sawtimber Well	21.1	85	111-140	N/A	Nice natural red pine stand with pockets of white pine as well. Stand was marked thinning in 2007, with all maple, aspen, jack pine, and fir spec cut. Pockets of aspen regeneration were created from this cut with limited understory under the heavy pine cover.																																				
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Red Pine	85		14	85	Aspen (spp.)	Medium	5 - 10 feet	5 - 10 feet																																			
					White Pine	Low	5 - 10 feet	5 - 10 feet																																			
45	4130 - Aspen	Sapling Well	1.0	29	Immature	N/A	Small clone of solid aspen.																																				
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Bigtooth Aspen	100	Sapling	5	29																																							
47	4130 - Aspen	Sapling Well	3.7	22	Immature	N/A	Two separate aspen stands, with some oak and white pine mixed in. Nearly blend in as a result of all the recent cutting in this area.																																				
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
<b>49</b>	42110 - Planted Red Pine	Sawtimber Well	30.1	69	111-140	N/A	Stand was third row thinned in 2008, all other trees besides oak mixed in the plantation were also cut at this time. Stand thinned again in 2018, marked job.
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>		
Red Pine		100		11	69		
<b>50</b>	42110 - Planted Red Pine	Sapling Well	103.5	4	Immature	N/A	9/14/2020 Stand Site Prep Sprayed with Weyerhaeuser Mix 5/1/2021- Stand was planted. Fall 2021- Stand had 1 year regeneration survey. Stand is Fully stocked and FTG. Stand was third row thinned in 2010. Winter Storm in 2012 causes significant snow load damage and resulted in a small percentage of the plantation being damaged. Pine short and small in diameter for age, likely the result of the sandy limited soils. Very large stand. STAND was final harvested in summer 2018 and was chipped. 2019 site was trenched.
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>		
Red Pine		100	Log	1	4		
<b>51</b>	42200 - Natural White Pine	Sawtimber Medium	51.3	95	1-50	N/A	Stand was thinned in 2010, with all aspen, maple, and jack pine cut as well. Was part of sale 630040801. White pine over story with full aspen and maple flush of growth in understory from 2010 cut.
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	<b>Density</b>
White Pine		95		11	95	Red Maple	Low
Red Pine		5		10		Aspen (spp.)	Full
						Balsam Fir	Low
						Avg. Height	Size
						5 - 10 feet	5 - 10 feet
						10 - 20 feet	10 - 20 feet
						< 5 feet	< 5 feet
<b>52</b>	4130 - Aspen	Sapling Well	12.5	15	Immature	N/A	Stand was final harvested with reserves in 2010. All cedar, oak, hemlock and cherry were left along with white pine under 10 inches dbh. Sale continues north into Kalkaska unit, was all part of the same sale. Continue to manage together in future rotation.
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>		
Red Maple		5	Log	1			
Quaking Aspen		80	Log	1	15		
White Pine		15		10			
<b>53</b>	42110 - Planted Red Pine	Sawtimber Well	1.7	65	111-140	N/A	Stand was 3rd row thin and cut all trees <6" dbh in remaining two rows. T-sale should include two stands to the north in Kalkaska Unit. Portion of stand was in Kalkaska unit, manage our of the Manton office. East part of stand has a dead pocket that appears to be weakening the trees around it.
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>		
Red Pine		100		11	65		
<b>54</b>	4131 - Aspen, Oak	Sapling Well	6.5	22	Immature	N/A	Young aspen with some oak mixed in. In two different locations. Almost blends in with recent cuts in the last 5 years.
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>		
Bigtooth Aspen		70	Log	2	22		
White Pine		10	Log	2			
White Oak		20	Pole	3			
<b>55</b>	310 - Herbaceous Openland	Unspecified	0.2				Above ground oil and gas in fenced area.
<b>57</b>	6224 - Treed Bog	Unspecified	47.7			No	

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
58	6122 - Black Spruce	Poletimber Well	5.4	95	51-80	N/A	Small 4 acre and 2 acre isolated pockets of spruce. Has F1, S1, alder understory.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Red Maple	5		12		Black Spruce	Low		Variable	Variable
Black Spruce	80	Seedling	8	95	Balsam Fir	Medium		Variable	Variable
Balsam Fir	15	Seedling	6		Alder	Low		5 - 10 feet	5 - 10 feet
59	6124 - Lowland Spruce-Fir	Poletimber Well	14.8	84	51-80	N/A	Stand is one small part of a larger swamp complex that goes into the adjacent compartment and into Kalkaska county. Too wet and isolated for commercial management.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Red Maple	10	Seedling	6		Red Maple	Medium		Variable	Variable
Balsam Fir	20	Seedling	5		Balsam Fir	Medium		< 5 feet	< 5 feet
Balsam Poplar	10	Seedling	5						
White Pine	2		16						
Black Ash	3	Seedling	5						
Black Spruce	30	Seedling	6	84					
Northern White Cedar	25		5						
60	429 - Mixed Upland Conifers	Sawtimber Well	23.6	105	51-80	N/A		Stand contains the upland portions of the bog and a portion bordering Ham Crk. The upland portions of the bog contain a mix of red maple, balsam, and aspen with scattered oak. Beaver activity has removed some of the aspen component, but a few areas are regenerating. The portion of the stand to the north contains a heavier white pine component. White pine component concentrated in northwest. Small creek cuts access off to southern half of stand.	
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height		Size
Quaking Aspen	10	Seedling	6		White Pine	Medium	Variable		Variable
Red Oak	5	Seedling	8		Balsam Fir	Medium	Variable		Variable
White Spruce	10	Seedling	6						
Red Maple	15	Seedling	7						
Balsam Fir	25	Seedling	6						
White Pine	35		17	105					
61	6120 - Lowland Cedar	Poletimber Medium	7.0	109	51-80	N/A	Northern part of stand contain some upland islands of a mix of fir and red maple. Mostly sparsely grown stagnant cedar on the south edge mixed with birch. No accessible with for commercial harvest.		
Canopy Species	% Cover	Size Class	DBH	Age					
Red Maple	30		9						
Northern White Cedar	55	Seedling	8	109					
Balsam Fir	15	Seedling	5						
62	429 - Mixed Upland Conifers	Sawtimber Medium	2.8	105	51-80	N/A	FMD: contains scattered supercanopy red pine, log sized red maple, and pockets of thick balsam poles. Isolated stand.		
Canopy Species	% Cover	Size Class	DBH	Age					
Red Maple	35		12	105					
Balsam Fir	35	Seedling	6						
Red Pine	30		12						
63	622 - Lowland Shrub	Unspecified	177.3			No	Large beaver flooding with scattered pockets of dead cedar and lowland grasses. Creek runs through stand.		

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																		
64	6123 - Lowland Fir	Poletimber Well	5.8	81	81-110	N/A	Isolated lowland conifer stands with some red maple. Few open spots in stand and wet but still higher then stands all around.																																																		
<table><tr><th>Canopy Species</th><th>% Cover</th><th>Size Class</th><th>DBH</th><th>Age</th></tr><tr><td>Black Spruce</td><td>30</td><td>Seedling</td><td>7</td><td>81</td></tr><tr><td>Red Maple</td><td>10</td><td></td><td>9</td><td></td></tr><tr><td>Balsam Fir</td><td>60</td><td>Seedling</td><td>8</td><td>81</td></tr></table>								Canopy Species	% Cover	Size Class	DBH	Age	Black Spruce	30	Seedling	7	81	Red Maple	10		9		Balsam Fir	60	Seedling	8	81																														
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66	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Well	138.5	105	111-140	N/A	FMD: Large conifer swamp complex. Has a few more upland portions but on the whole is a very wet hummocky stand. Has variable density and has a mix of swamp aspen and balsam toward the northeast quarter that was cut between 1944-1948.																																																		
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White Pine	5		15																																																						
Red Maple	5		12																																																						
67	4191 - Mixed Upland Deciduous with Conifer	Poletimber Well	28.0	62	51-80	N/A	Mix of aspen, red maple and white pine. Upland stand although has some lowland character in middle portion of stand. Large super canopy white pine scattered in stand as well. Old opening filling in in north portion of stand, appears to be from old landing.																																																		
<table><tr><th>Canopy Species</th><th>% Cover</th><th>Size Class</th><th>DBH</th><th>Age</th></tr><tr><td>Quaking Aspen</td><td>35</td><td></td><td>11</td><td>62</td></tr><tr><td>Red Pine</td><td>2</td><td></td><td>12</td><td></td></tr><tr><td>White Pine</td><td>10</td><td></td><td>12</td><td></td></tr><tr><td>White Pine</td><td>5</td><td></td><td>18</td><td></td></tr><tr><td>Black Cherry</td><td>5</td><td>Seedling</td><td>8</td><td></td></tr><tr><td>Balsam Fir</td><td>8</td><td>Seedling</td><td>6</td><td></td></tr><tr><td>Red Maple</td><td>30</td><td></td><td>10</td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td></tr></table>								Canopy Species	% Cover	Size Class	DBH	Age	Quaking Aspen	35		11	62	Red Pine	2		12		White Pine	10		12		White Pine	5		18		Black Cherry	5	Seedling	8		Balsam Fir	8	Seedling	6		Red Maple	30		10											
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White Pine	Medium	Variable	Variable																																																						
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68	42210 - Natural Red Pine	Sawtimber Medium	4.8	75	51-80	N/A	Small natural red pine stand. Stand thinned in 2007, with all aspen, maple, jack pine, and fir spec cut. Currently scattered log red pine with mix of aspen, red maple, fir and white pine in understory.																																																		
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69	4133 - Aspen, Mixed Pine	Sapling Medium	14.5	8	Immature	N/A	Stand was final harvested in 2018. Was low quality aspen. Small pine was worked around where possible.																																																		
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																			
70	4130 - Aspen	Sapling Well	6.5	31	Immature	N/A	Stand was final harvested in 1994. Came back well to aspen.																																																			
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71	4130 - Aspen	Sawtimber Medium	12.8	55	51-80	N/A	Stand of lower quality aspen which becomes more of a lowland hardwood stand on east border of stand.																																																			
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73	4130 - Aspen	Sapling Well	26.0	17	Immature	N/A	Stand was final harvested in 2008, with all oak left. Came back well to aspen, with some oak mixed in.																																																			
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74	42210 - Natural Red Pine	Sawtimber Well	13.7	96	81-110	N/A	Stand of natural red pine, with some aspen and white pine filling in between the red pine. Hummocky ground with leather leaf.																																																			
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76	4133 - Aspen, Mixed Pine	Sapling Poor	10.5	12	1-50	N/A	Stand was final harvested in 2014, with all white pine, red pine and cedar left. Chipping operation, Heavy deer browse has set back the maple and aspen regeneration. May be a low stocked stand as a result of the deer pressure. (Likely a result of small size and proximity to swamp) Log white and red pine scattered in stand.																																																			
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																									
79	6124 - Lowland Spruce-Fir	Poletimber Medium	20.1	78	1-50	N/A	Lowland conifer complex with open flooded pockets of just alder.																																																									
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81	42290 - Natural Mixed Pine	Sawtimber Well	2.8	86	81-110	N/A	Good quality jack pine pocket with mix of white pine, red maple and red pine.																																																									
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Jack Pine	Low	Variable	Variable																																																													
84	6239 - Mixed Emergent Wetland	Unspecifed	2.1			No																																																										
86	4130 - Aspen	Poletimber Medium	22.1	59	51-80	N/A	Low quality rough looking aspen with some hardwood and pine mixed in. Two track goes through both stand. Low density and quality aspen.																																																									
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White Pine	Low	Variable	Variable																																																													
88	310 - Herbaceous Openland	Unspecified	29.9			No	Utility Line. Wet in pockets.																																																									
91	4126 - White, Black, N. Pin Oak	Sawtimber Medium	198.0	112	1-50	N/A	Stand was modified shelter wood in 1999, with most of the red maple and aspen cut at that time and what appears to have been most of the red oak. Mostly open grown white oak in the over story. Open grown white oak over story has variable size class oak, maple, aspen, white pine and witch hazel in understory. A few opens pockets of clump red maple with the rest being more of a oak mix. Good mix of size classes. ORV trail and snowmobile trail run through stand.																																																									
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
93	42110 - Planted Red Pine	Poletimber Well	49.3	64	1-50	N/A	Odd third row thinning in which stand was third row thinned with all trees less than 7.5 inches dbh at stump cut as well regardless of row. Open plantation with hardwood/ aspen understory. Pine will be lost at this site. Sale took place in 2009.
<div>Canopy Species% CoverSize ClassDBH Age</div>			<div>Sub-Canopy SpeciesDensityAvg. HeightSize</div>				
Red Pine100			Red MapleFull>20 feet>20 feet				
			White OakMedium>20 feet>20 feet				
			Aspen (spp.)Medium>20 feet>20 feet				
97	4112 - Maple, Beech, Cherry Association	Poletimber Medium	6.8	69	51-80	N/A	Small stand of low quality clump red maple and scattered log oak.
<div>Canopy Species% CoverSize ClassDBH Age</div>			<div>Sub-Canopy SpeciesDensityAvg. HeightSize</div>				
Red Maple80Seedling769			Witch HazelMedium5 - 10 feet5 - 10 feet				
White Oak20			White OakMediumVariableVariable				
			Red MapleHigh10 - 20 feet10 - 20 feet				
99	42110 - Planted Red Pine	Poletimber Well	48.9	69	111-140	N/A	Stand was third row thinned in 2009, with all aspen and maple cut at that time too that was mixed in plantation. Very short spindly trees. Very low site index. Stand thinned again in winter 2018.
<div>Canopy Species% CoverSize ClassDBH Age</div>							
Red Pine100Seedling869							
101	42110 - Planted Red Pine	Poletimber Well	49.6	69	111-140	N/A	Stand was third row thinned in 2008, with all aspen, maple, white pine, and cherry cut where present. Lots of doubles in stand, fairly short pine although one of the better stand in the area. Stand thinned in 2018, very poor form at that time be curious to see if this thinning helps trees put on some growth.
<div>Canopy Species% CoverSize ClassDBH Age</div>							
Red Pine100			969				
103	6229 - Mixed Lowland Shrub	Unspecifed	5.3			No	Leather leaf bog.
104	42110 - Planted Red Pine	Poletimber Well	176.4	69	141-170	N/A	Stand was third row thinned in 2010. Winter Storm in 2012 causes significant snow load damage and resulted in a small percentage of the plantation being damaged. Pine short and small in diameter for age, likely the result of the sandy limited soils. Very large stand.
<div>Canopy Species% CoverSize ClassDBH Age</div>			<div>Sub-Canopy SpeciesDensityAvg. HeightSize</div>				
Red Pine100			Red MapleLow5 - 10 feet5 - 10 feet				
			White OakTrace5 - 10 feet5 - 10 feet				
116	42111 - Planted Red Pine, Mixed Deciduous	Sapling Well	32.1	15	Immature	N/A	Stand treated by Sale #63-080-10-01 following wildfire that destroyed portion of stand. Stand was final harvested in 2010. Stand was trenched in 2010 and planted in 2011. East half of stand was where wildfire had occurred.
<div>Canopy Species% CoverSize ClassDBH Age</div>							
Black Cherry20Log1							
118	42110 - Planted Red Pine	Poletimber Well	25.7	64	111-140	N/A	Stand was third row thinned in 2010, with all red pine less then 7.5 inches dbh also cut. Any aspen, maple was also cut out of the plantation. Stand is over 1/3 live crown. Eastern portion of the stand is a lower BA average with about half live crown ratio.
<div>Canopy Species% CoverSize ClassDBH Age</div>			<div>Sub-Canopy SpeciesDensityAvg. HeightSize</div>				
Red Pine90			Red MapleLow5 - 10 feet5 - 10 feet				
White Oak10			Quaking AspenLow5 - 10 feet5 - 10 feet				
			White OakMedium5 - 10 feet5 - 10 feet				



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																																																										
120	4199 - Other Mixed Upland Deciduous	Sawtimber Well	12.7	95	81-110	N/A	Stand is part of the Hopkins creek campground, used by heavily by horse campers. Mix of maple and oak with some aspen. Hazard trees have been cut over the years and will continue to be. Parks division primarily maintains the site. Open in spots but mostly well shaded campsites.																																																																																										
<table><tr><th>Canopy Species</th><th>% Cover</th><th>Size Class</th><th>DBH</th><th>Age</th></tr><tr><td>Red Maple</td><td>50</td><td></td><td>11</td><td>95</td></tr><tr><td>Red Oak</td><td>30</td><td></td><td>15</td><td></td></tr><tr><td>Quaking Aspen</td><td>10</td><td></td><td>11</td><td></td></tr><tr><td>White Oak</td><td>5</td><td></td><td>15</td><td></td></tr><tr><td>White Pine</td><td>5</td><td></td><td>11</td><td></td></tr></table>								Canopy Species	% Cover	Size Class	DBH	Age	Red Maple	50		11	95	Red Oak	30		15		Quaking Aspen	10		11		White Oak	5		15		White Pine	5		11																																																													
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White Pine	5		11																																																																																														
121	4199 - Other Mixed Upland Deciduous	Sapling Medium	28.2	14	Immature	N/A	Stand was final harvested in 2011, with some reserve trees left (Green marked). Scattered big oak were left. Came back to mix of red maple, oak and aspen. Mostly stump sprouts.																																																																																										
<table><tr><th>Canopy Species</th><th>% Cover</th><th>Size Class</th><th>DBH</th><th>Age</th></tr><tr><td>Red Maple</td><td>50</td><td>Log</td><td>1</td><td>14</td></tr><tr><td>White Pine</td><td>2</td><td>Pole</td><td>4</td><td></td></tr><tr><td>White Oak</td><td>30</td><td>Log</td><td>1</td><td>14</td></tr><tr><td>Quaking Aspen</td><td>18</td><td>Log</td><td>1</td><td>14</td></tr></table>								Canopy Species	% Cover	Size Class	DBH	Age	Red Maple	50	Log	1	14	White Pine	2	Pole	4		White Oak	30	Log	1	14	Quaking Aspen	18	Log	1	14																																																																	
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122	4199 - Other Mixed Upland Deciduous	Sawtimber Well	13.2	60	51-80	N/A	Mix of aspen, red maple and oak. Some pockets of over mature log aspen but mostly pole size aspen .																																																																																										
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130	429 - Mixed Upland Conifers	Sawtimber Well	94.0	95	141-170	N/A	Buffer Complex along Hopkins Creek. Lowland conifer along the creek edge with more upland species on the side slope. Not suitable for commercial management. Acts as vegetative buffer to trout stream. Are a few areas on some of the edges that could be cut but not nearly large enough to make a sale. Again acts as a buffer to Hopkins.																																																																																										
<table><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><tr><td>Red Pine</td><td>2</td><td></td><td>11</td><td></td><td>Tag Alder</td><td>Low</td><td>5 - 10 feet</td><td>5 - 10 feet</td></tr><tr><td>White Oak</td><td>5</td><td></td><td>12</td><td></td><td>Balsam Fir</td><td>Medium</td><td>Variable</td><td>Variable</td></tr><tr><td>Balsam Fir</td><td>10</td><td>Seedling</td><td>6</td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>Beech</td><td>5</td><td></td><td>12</td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>Northern White Cedar</td><td>13</td><td></td><td>10</td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>Hemlock</td><td>5</td><td></td><td>8</td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>Red Maple</td><td>15</td><td></td><td>12</td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>Bigtooth Aspen</td><td>10</td><td></td><td>15</td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>White Pine</td><td>35</td><td></td><td>15</td><td>95</td><td></td><td></td><td></td><td></td></tr></table>								Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size	Red Pine	2		11		Tag Alder	Low	5 - 10 feet	5 - 10 feet	White Oak	5		12		Balsam Fir	Medium	Variable	Variable	Balsam Fir	10	Seedling	6						Beech	5		12						Northern White Cedar	13		10						Hemlock	5		8						Red Maple	15		12						Bigtooth Aspen	10		15						White Pine	35		15	95				
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White Pine	35		15	95																																																																																													
131	6229 - Mixed Lowland Shrub	Unspecifed	27.5			No	FMD: alder along Hopkins Crk. HCVA - Natural River corridor.																																																																																										
132	4131 - Aspen, Oak	Sawtimber Well	9.2	55	81-110	N/A	Small less then 10 acre chunk of mature aspen with some pine mixed in. Hummocky ground, with all the aspen and oak just cut to the west.																																																																																										
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
<b>133</b>	42110 - Planted Red Pine	Poletimber Well	10.3	69	81-110	N/A	Pruned in 1980 and third row thinned in 1998. Ready to be second thinned. Good spot for landing and road already in place. Stand thinned again in 2018, marked job.
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>		
Red Pine		100		10	69		
<b>134</b>	4130 - Aspen	Poletimber Well	28.0	36	81-110	N/A	Stand was final harvested in 1989. All pine was left. Aspen came back well with pine scattered. Aspen a little rough looking in spots.
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>		
White Pine		5		12			
Red Pine		10		13			
Bigtooth Aspen		85	Sapling	5	36		
<b>135</b>	4121 - Oak, Aspen	Sawtimber Medium	55.5	97	51-80	N/A	Log oak stand with mix of pole aspen, aspen concentrated in north end of stand. Large stand to west was just clear-cut with reserves 2014.
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	<b>Density</b>
Quaking Aspen		32	Seedling	7	53	White Pine	Low
Red Pine		3		10		White Oak	Medium
Red Oak		55		15	97		
White Oak		5		15			
White Pine		5		9			
						<b>Avg. Height</b>	<b>Size</b>
						< 5 feet	< 5 feet
						Variable	Variable
<b>136</b>	4123 - Red Oak	Sawtimber Well	43.8	98	51-80	N/A	Stand was thinned in 2010, with all aspen and maple spec cut as well. Very limited understory as a result of deer browse. Some red maple and oak regeneration on the hillside in east side of stand.
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	<b>Density</b>
Red Oak		100		16	98	Red Maple	Medium
						Red Oak	Low
						<b>Avg. Height</b>	<b>Size</b>
						5 - 10 feet	5 - 10 feet
						< 5 feet	< 5 feet
<b>137</b>	4130 - Aspen	Poletimber Well	75.3	36	111-140	N/A	Stand was final harvested in 1989. Small pole stand, still sapling size in pockets.
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>		
Red Oak		5	Sapling	5			
Red Maple		5	Sapling	5			
Bigtooth Aspen		90	Sapling	6	36		
<b>138</b>	4124 - Red with White Oak	Sawtimber Medium	42.8	97	1-50	N/A	Harvested in 1999, Oak over story was left at 30 to 60 BA. Oak, aspen, and red maple have taken up the understory.
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	<b>Density</b>
White Oak		20		17	97	Red Maple	Medium
Red Oak		80		16	97	White Pine	Low
						Quaking Aspen	Medium
						White Oak	Medium
						<b>Avg. Height</b>	<b>Size</b>
						10 - 20 feet	10 - 20 feet
						5 - 10 feet	5 - 10 feet
						10 - 20 feet	10 - 20 feet
						10 - 20 feet	10 - 20 feet
<b>140</b>	4199 - Other Mixed Upland Deciduous	Sapling Medium	88.7	15	Immature	N/A	Stand was final harvested in 2010, with all oak less then 6 inches in dbh left as well as scattered green ringed mature oak. Aspen , red maple and oak have regenerated from the harvest. Good mix of all three with all the advanced oak scattered throughout. Snowmobile and ORV trail in the stand and on the edge.
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>		
White Oak		35	Pole	1	15		
Red Oak		5		20			
Red Maple		35	Log	1	15		
Bigtooth Aspen		25	Log	1	15		



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
<b>143</b>	42110 - Planted Red Pine	Sawtimber Well	38.3	69	81-110	N/A	Pruned in 1980 and third row thinned in 2000. All maple and aspen was cut out of plantation at that time as well. Stand thinned again in 2019, all maple was cut at that time too.
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>		
Red Pine		100		10	69		
<b>144</b>	4130 - Aspen	Sapling Well	35.4	26	Immature	N/A	Stand was final harvested came back to mostly aspen with some oak and white pine mixed in. ORV trail goes through stand.
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>		
White Pine		5	Sapling	5			
White Oak		10	Sapling	5			
Quaking Aspen		85	Pole	3	26		
<b>145</b>	42110 - Planted Red Pine	Sawtimber Well	12.4	69	111-140	N/A	Pruned in 1980 and third row thinned in 2000. Stand is in good shape, limited understory. Snowmobile trail goes through stand. Stand is of better quality on east end. old two track or fire break on west unit.(Good spot for landing) Stand thinned again in 2018.
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	<b>Density</b>
Red Pine		100		10	69	Red Oak	Low
						<b>Avg. Height</b>	<b>Size</b>
						< 5 feet	< 5 feet
<b>146</b>	4130 - Aspen	Sapling Poor	7.3	15	Immature	N/A	Stand was final harvested in 2010, with all oak less then 6 inches dbh and scattered green ringed mature oak left as well. Regenerated well to aspen, maple and oak mix. Oak left mostly small pole, snowmobile trail goes though stand as well as ORV trail. Stand is separated by power line ROW.
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>		
Red Oak		10		8			
White Pine		3	Log	1	15		
Red Maple		10	Log	1	15		
Bigtooth Aspen		77	Log	1	15		
<b>150</b>	4130 - Aspen	Poletimber Well	8.7	37	111-140	N/A	Stand was final harvested in 1988. Call back well to aspen, with some oak mixed in. A few large oak were left by the road. Leave for at least one more rotation.
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>		
Red Oak		10	Pole	3	37		
Bigtooth Aspen		90	Sapling	5	37		
<b>151</b>	4199 - Other Mixed Upland Deciduous	Sapling Well	165.7	12	Immature	N/A	Stand was treated on two separate occasions between 2013 and 2014. In 2013 PCA cut and chipped all of the wood with the exception of the log oak.(PCA had no market for big oak at that time) Log oak was then cut a year later in winter of 2014 by subcontracted producer. Widely scattered green ringed oak were left as well as all oak under 4 inches dbh.
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	<b>Density</b>
Red Maple		55	Pole	1	12	Witch Hazel	Medium
White Oak		5	Log	4		<b>Avg. Height</b>	<b>Size</b>
White Pine		5	Log	2		5 - 10 feet	5 - 10 feet
Quaking Aspen		5	Log	1	12		
Red Oak		10		16			
Red Oak		20	Log	4	45		
<b>152</b>	4199 - Other Mixed Upland Deciduous	Poletimber Poor	23.0	114	1-50	N/A	Burned in 1998 and in 2001. Scheduled to burn again in 2009, but never happened. Open grown red maple clumps and oak with oak and maple understory. Variable stand with evidence of old fire scars from previous prescribed burns.
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	<b>Density</b>
Red Maple		50		8		Red Maple	Medium
White Oak		50		17	114	Black Cherry	Medium
						White Oak	Low
						<b>Avg. Height</b>	<b>Size</b>
						>20 feet	>20 feet
						>20 feet	>20 feet
						>20 feet	>20 feet

Stand	Level 4 Cover Type	Size Density		Acres	Stand Age	BA Range	Managed Site	General Comments								
153	4199 - Other Mixed Upland Deciduous	Sawtimber Medium	24.3	163	81-110	N/A	Variable stand of clump red maple and large open grown oak. White pine component as well.									
								Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
								Red Maple	38		8		Witch Hazel	Medium	5 - 10 feet	5 - 10 feet
								White Pine	19		11		White Oak	Medium	Variable	Variable
								White Oak	43		18	163	White Pine	Medium	Variable	Variable
157	3301 - Low Density Deciduous Trees	Unspecified	552.3			Yes	Last burned in 1996 and 2001. Stand was burned again in 2014. Stand was burned in Fall of 2024									
								Sub-Canopy Species	Density	Avg. Height	Size					
								Black Cherry	High	10 - 20 feet	10 - 20 feet					
201	122 - Road/Parking Lot	Unspecified	27.7			No	Lucas Rd.									
291	500 - Water	Unspecified	2.5			No	FMD: small section of Manistee River									
404	310 - Herbaceous Openland		1.0			No										
								Sub-Canopy Species	Density	Avg. Height	Size					
								Bracken Fern	Full	Not Applicable	Not Applicable					
								White Pine	Trace	>20 feet	>20 feet					
								Black Cherry	Trace	5 - 10 feet	5 - 10 feet					