



# Compartment Review Presentation

**Cadillac Forest Management Unit**

**Compartment 63087**

**Entry Year 2022**

**Acreage: 2,422**

**County Missaukee**

**Management Area: Manistee River Valley**

**Revision Date:** 2020-06-10

**Stand Examiner:** Blair Tweedale

**Legal Description:**

T24N, R6W, Sections 4,5,6,8,9.

**Identified Planning Goals:**

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

**Soil and topography:**

Roscommon muck sand poorly drained. Rubicon, Graycalm well drained.

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

Mostly continuous state ownership within compartment, with small private in holdings. Adjacent land of the compartment to the North, East and West is mostly state ownership, with the Southern boundary almost entirely private land.

**Unique Natural Features:**

There are no unique natural features listed in the MNFI inventory.

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

No historical features are listed with the Bureau of History, Department of State.

**Special Management Designations or Considerations:**

**Watershed and Fisheries Considerations:**

**Wildlife Habitat Considerations:**

Featured wildlife species in this Management Area are diverse reflecting the wide range of habitat types present. Featured Species of wildlife include american bittern, american woodcock, beaver, black bear, eastern massasuga rattlesnake, golden-winged warbler, mallard, pileated woodpecker, ruffed grouse, snowshoe hare, white-tailed deer, and wood duck. Most of these species benefit from young forest and open types while some require some old trees for foraging and nest/den sites. Maintaining the opening types and balancing harvests with a diverse assortment of age classes in the timber types will meet the goals for these species.

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

**Vehicle Access:**

**Survey Needs:**

**Recreational Facilities and Opportunities:**

The Miss Kal Snowmobile Trail runs east west through the northern portion of sections 4,5,6. The North Missaukee ORV Trail also runs through the compartment south of the snowmobile trail. There is evidence of hunting activity throughout the compartment.

**Fire Protection:**

Most of this compartment has good access and soil types will sustain access to wheeled fire equipment. ORV trail is within the compartment. ORV use and dispersed camping could cause wildfires ignitions.

**Additional Compartment Information:**

**The following reports from the Inventory are attached:**

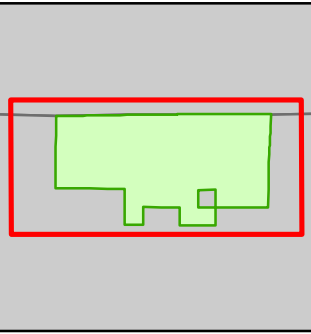
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

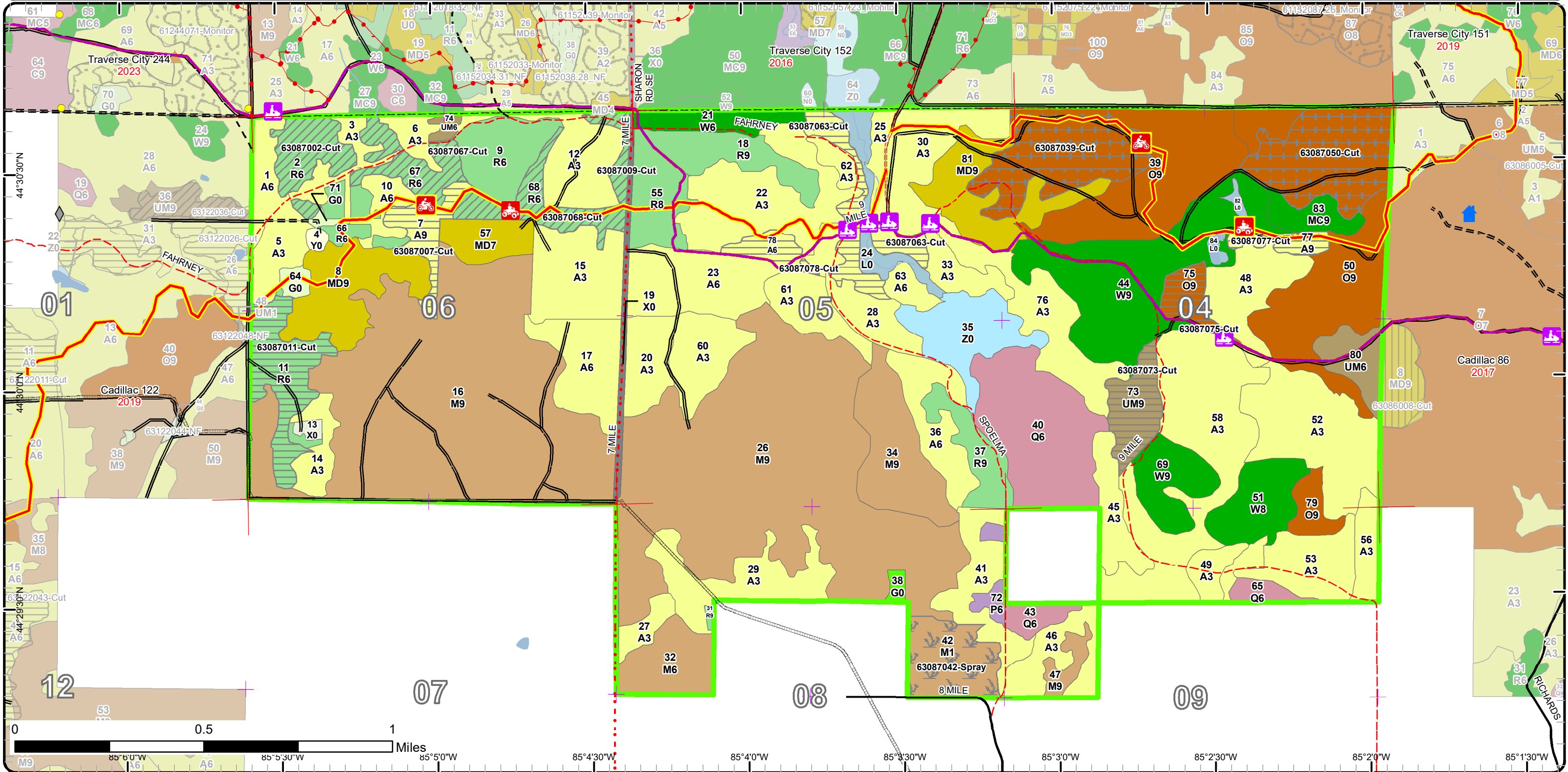
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

# Cover Type & Treatments Map

Compartment: 87  
 T. 24N R. 06W Sec. 04-06,08, 09  
 County: Missaukee  
 Unit: Cadillac  
 Mgmt Area: Manistee River Valley  
 YOE: 2022  
 Acres: 2,422 GIS Calculated  
 Examiner: Blair Tweedale  
 Map Revised: 6/23/2020  
 Map Phase: Pre-Review



- Miris Corners
- + Remonumented Section Corners
- Survey Grade Corners
- ◆ Field Grade Corners
- Counties
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Federal / State / County - Paved Road
- Federal / State - Dirt / Gravel Road
- County - Gravel Road
- County - Dirt Road (Seasonal)
- MCCCT Trails
- ORV Trails
- ORV Routes
- Snowmobile Trails
- ORV License & Trail Permit
- Designated ATV Trails
- Designated ORV Route
- Designated Snowmobile Trails
- Michigan Cross Country Cycle Trail (MCCCT)
- House
- Berms
- Lake/Pond
- Perennial River
- Lakes and Rivers
- Pipeline
- Compartment Boundary
- Pesticide
- Clearcut (w/Reserves)
- Harvest, Overstory Removal
- Thinning (Crown, Low, Systematic)
- 411 - Northern Hardwood
- 412 - Oak Types
- 413 - Aspen
- 419 - Mixed Upland Deciduous
- 421 - Planted Pines
- 422 - Natural Pines
- 430 - Upland Mixed Forest
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 122 - Roads/Parking Lot
- 211 - Cropland
- 310 - Herbaceous Openland
- 500 - Water
- 622 - Lowland Shrub
- 710 - Sand/Soil
- 790 - Other Bare/Sparsely Vegetated

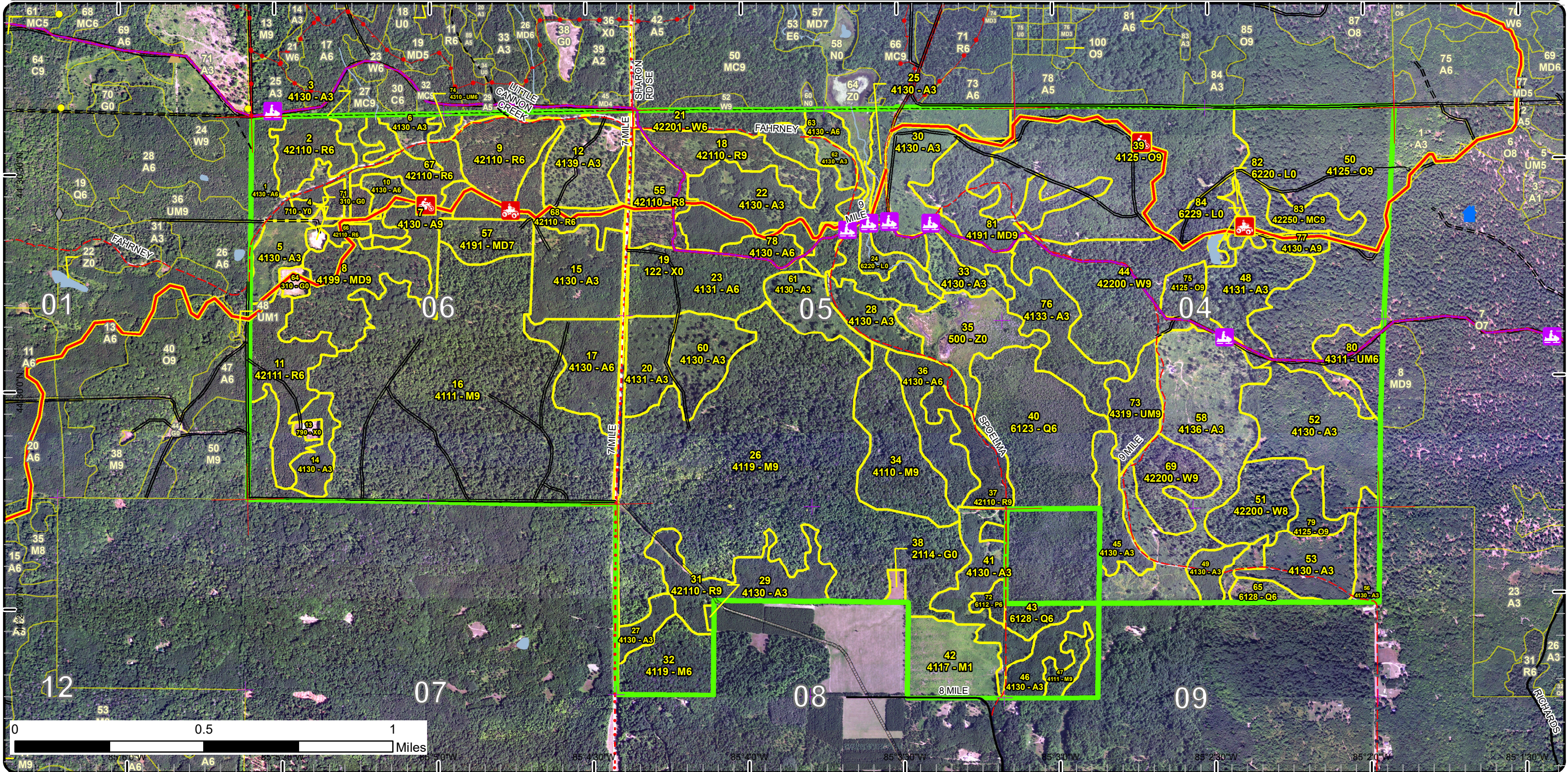


# Stand Boundary Map

Compartment: 87  
 T. 24N R. 06W Sec. 04-06,08, 09  
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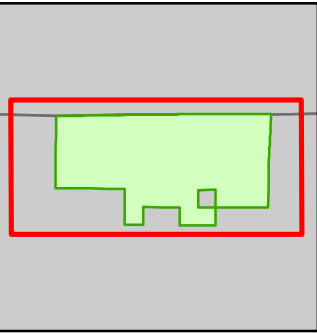


- Miris Corners
- + Remonumented Section Corners
- Survey Grade Corners
- ◆ Field Grade Corners
- Counties
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Federal / State / County - Paved Road
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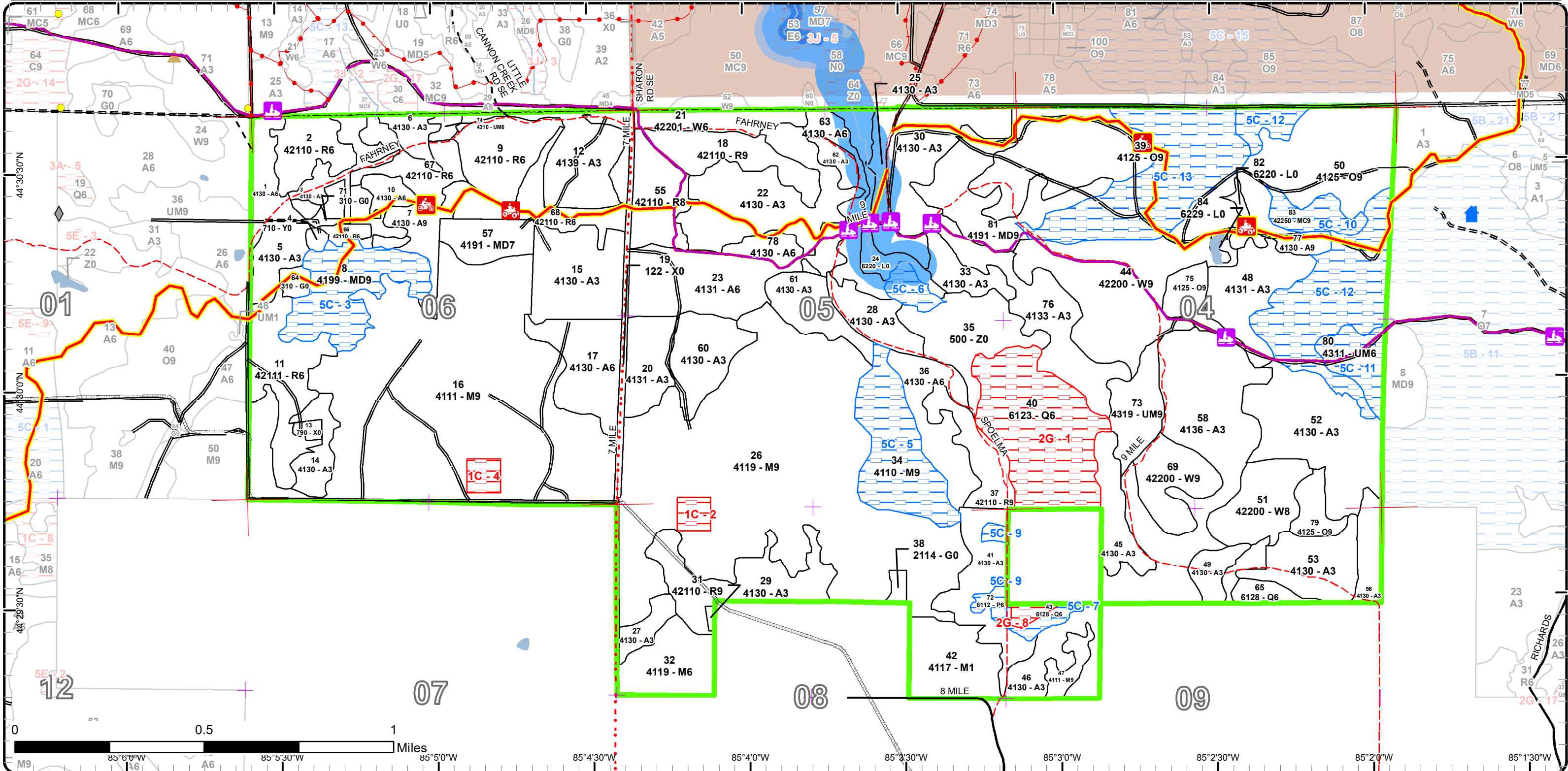


# Special Conservation Areas

Compartment: 87  
 T. 24N R. 06W Sec. 04-06,08, 09  
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- Snowmobile Trails
- ORV License & Trail Permit
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- Designated ORV Route
- Designated Snowmobile Trails
- Michigan Cross Country Cycle Trail (MCCCT)
- House
- Berms
- Lake/Pond
- Perennial River
- Lakes and Rivers
- Pipeline
- Compartment Boundary
- Available w/ Constraints
- Unavailable
- 5C: Delay treatment for age/size class diversity or exceptional site quality
- 1C: Other dept or div proc/practices
- 2G: Too wet (sensitive soils, does not include access issues)
- Stand Boundaries
- Natural Rivers Vegetative Buffer
- Natural Rivers Zoning District
- High Priority Trout Stream Buffer
- Research, Development, and Military Lands





Age Class

	Non-Forest	0-9	10-19	20-29	30-39	40-49	50-59	60-69	70-79	80-89	90-99	100-109	110-119	120-129	130-139	140-149	150+	Uneven-Aged	Total
Aspen	0	232	144	223	107	46	54	7	0	0	0	0	0	0	0	0	0	55	868
Bare/Sparsely Vegetated	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
Cropland	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
Herbaceous Openland	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6
Lowland Aspen/Balsam Poplar	0	0	0	0	0	0	6	0	0	0	0	0	0	0	0	0	0	0	6
Lowland Conifers	0	0	0	0	0	6	67	0	0	8	0	0	0	0	0	0	0	0	81
Lowland Shrub	19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	19
Mixed Upland Deciduous	0	0	0	0	0	0	16	0	0	40	0	0	0	0	0	0	0	38	94
Natural Mixed Pines	0	0	0	0	0	0	0	0	12	0	0	0	0	0	0	0	0	0	12
Northern Hardwood	0	30	0	0	0	0	0	0	43	299	252	0	0	0	0	0	0	0	623
Oak	0	0	0	0	0	0	0	0	10	133	0	0	0	0	0	0	0	121	263
Red Pine	0	0	0	0	0	0	208	1	0	0	0	0	0	0	0	0	0	0	209
Sand, Soil	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
Upland Mixed Forest	0	0	0	0	0	0	23	0	16	0	0	0	0	0	0	0	0	0	39
Urban	13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12
Water	33	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	33
White Pine	0	0	0	0	0	0	0	125	0	0	0	0	0	0	0	0	0	26	151
<b>Total</b>	<b>77</b>	<b>262</b>	<b>144</b>	<b>223</b>	<b>107</b>	<b>52</b>	<b>374</b>	<b>133</b>	<b>69</b>	<b>492</b>	<b>252</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>240</b>	<b>2422</b>



## Report 2 – Treatment Summary

Cadillac Mgt. Unit

Year of Entry: 2022

Acres of Harvest

Compartment 87

Total Compartment Acres: 2,422

Commercial Harvest - 293  
 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	55	0	0	0	0	0	0	0	0	55
Oak	12	0	0	0	0	105	0	0	0	117
Red Pine	33	0	0	0	68	0	0	0	0	101
Upland Mixed Forest	20	0	0	0	0	0	0	0	0	20
<b>Total</b>	<b>119</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>68</b>	<b>105</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>293</b>

### Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	293	0	0	0	0	30	0	0	0	323
Next Step	0	0	30	0	0	0	119	0	0	149
<b>Total</b>	<b>293</b>	<b>0</b>	<b>30</b>	<b>0</b>	<b>0</b>	<b>30</b>	<b>119</b>	<b>0</b>	<b>0</b>	<b>471</b>



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

<b>2</b>	<b>63087002-Cut</b>	20.8	42110 - Planted Red Pine	Poletimber Well	59	171- 200	Harvest	Systematic Thinning	4211 - Planted Red Pine	Even-Aged	No
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Prescription Third row thin. Remove deciduous trees where possible.

Specs:

Next Step

Treatments:

Acceptable

Regen:

Other If rows are hard to follow in areas, systematically remove 1/3 of the volume. This can be accomplished by removing a 16 ft wide swath,  
Comment: leaving 32 ft in between the "take" rows. When taking

Site Condition

Proposed Start Date: 10/1 /2021

<b>7</b>	<b>63087007-Cut</b>	14.9	4130 - Aspen	Sawtimber Well	56	111- 140	Harvest	Clearcut	413 - Aspen	Even-Aged	No
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Prescription Final harvest. No retention.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable aspen and mixed deciduous

Regen:

Other No retention due to size, shape and diversity of adjacent timber types.

Comment:

Site Condition

Proposed Start Date: 10/1 /2021

<b>9</b>	<b>63087009-Cut</b>	6.6	42110 - Planted Red Pine	Poletimber Well	59	141- 170	Harvest	Low Thinning	4211 - Planted Red Pine	Even-Aged	No
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Prescription Thin pine to an average residual BA of 110.

Specs:

Next Step

Treatments:

Acceptable

Regen:

Other

Comment:

Site Condition

Proposed Start Date: 6 /23/2020



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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
11	63087011-Cut	33.0	42111 - Planted Red Pine, Mixed Deciduous	Poletimber Well	59	171- 200	Harvest	Clearcut	413 - Aspen	Even-Aged	No
<p><u>Prescription</u> Final harvest. Leave larger scattered red pine where aspen is dominate.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> aspen, maple, mixed deciduous along with pine.</p> <p><u>Regen:</u></p> <p><u>Other</u> There should be sufficient deciduous regeneration in the pine dominated areas, along with a flush of aspen sprouts to regenerated the entire stand.</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2021</p>											
39	63087039-Cut	53.1	4125 - Black, N. Pin Oak	Sawtimber Well	86	81-110	Harvest	Overstory Removal	412 - Oak Types	Even-Aged	No
<p><u>Prescription</u> Overstory removal.</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> mixed deciduous and mixed pine</p> <p><u>Regen:</u></p> <p><u>Other</u> Treatment shapes are approximate and can be adjusted as needed (topography). Treatment represents % of acreage to be treated more than exact location on the landscape.</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 1 /29/2020</p>											
50	63087050-Cut	52.3	4125 - Black, N. Pin Oak	Sawtimber Well	88	51-80	Harvest	Overstory Removal	412 - Oak Types	Even-Aged	No
<p><u>Prescription</u> Overstory removal.</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> oak, mixed deciduous and mixed pine</p> <p><u>Regen:</u></p> <p><u>Other</u> Treatment shapes are approximate and can be adjusted as needed (topography). Treatment represents % of acreage to be treated more than exact location on the landscape.</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2021</p>											
63	63087063-Cut	23.8	4130 - Aspen	Poletimber Well	58	81-110	Harvest	Clearcut	413 - Aspen	Even-Aged	No
<p><u>Prescription</u> Final harvest. Leave scattered white pine and trees along the lowland area to the East.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> aspen, pine, mixed deciduous</p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2021</p>											



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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
<b>67 63087067-Cut</b>	19.5	42110 - Planted Red Pine	Poletimber Well	59	171-200	Harvest	Systematic Thinning	4211 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> Third row thin.  <u>Specs:</u>  <u>Next Step</u>  <u>Treatments:</u>  <u>Acceptable</u>  <u>Regen:</u>  <u>Other</u> If rows are hard to follow in areas, systematically remove 1/3 of the volume. This can be accomplished by removing a 16 ft wide swath,  <u>Comment:</u> leaving 32 ft in between the "take" rows. When taking  <u>Site Condition</u>  <u>Proposed Start Date:</u> 10/1 /2021</p>										
<b>68 63087068-Cut</b>	21.5	42110 - Planted Red Pine	Poletimber Well	59	171-200	Harvest	Systematic Thinning	4211 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> Third row thin.  <u>Specs:</u>  <u>Next Step</u>  <u>Treatments:</u>  <u>Acceptable</u>  <u>Regen:</u>  <u>Other</u> Protect ORV trail.  <u>Comment:</u> If rows are hard to follow in areas, systematically remove 1/3 of the volume. This can be accomplished by removing a 16 ft wide swath, leaving 32 ft in between the "take" rows.  <u>Site Condition</u>  <u>Proposed Start Date:</u> 10/1 /2021</p>										
<b>73 63087073-Cut</b>	19.9	4319 - Mixed Upland Forest	Sawtimber Well	52	81-110	Harvest	Clearcut with Retention	4319 - Mixed Upland Forest	Even-Aged	No
<p><u>Prescription</u> Final harvest. Avoid harvest in wet areas. Leave large white pine when available. Do not leave more than 5 BA of overstory white pine.  <u>Specs:</u>  <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)  <u>Treatments:</u>  <u>Acceptable</u> mixed deciduous and mixed conifer  <u>Regen:</u>  <u>Other</u>  <u>Comment:</u>  <u>Site Condition</u>  <u>Proposed Start Date:</u> 10/1 /2021</p>										
<b>75 63087075-Cut</b>	11.5	4125 - Black, N. Pin Oak	Sawtimber Well	85	81-110	Harvest	Clearcut	4319 - Mixed Upland Forest	Even-Aged	No
<p><u>Prescription</u> Final harvest. Leave scattered pine, not to exceed 10 BA.  <u>Specs:</u>  <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)  <u>Treatments:</u>  <u>Acceptable</u> oak, mixed deciduous and mixed conifer  <u>Regen:</u>  <u>Other</u>  <u>Comment:</u>  <u>Site Condition</u>  <u>Proposed Start Date:</u> 10/1 /2021</p>										



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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
77 63087077-Cut	7.2	4130 - Aspen	Sawtimber Well	61	Unspecified	Harvest	Clearcut	413 - Aspen	Even-Aged	No
<p><u>Prescription</u> Final Harvest. avoid wet areas.  <u>Specs:</u>  <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)  <u>Treatments:</u>  <u>Acceptable</u> aspen with mixed deciduous  <u>Regen:</u>  <u>Other</u>  <u>Comment:</u>  <u>Site Condition</u>  <u>Proposed Start Date:</u> 10/1 /2021</p>										
78 63087078-Cut	8.6	4130 - Aspen	Poletimber Well	51	81-110	Harvest	Clearcut	413 - Aspen	Even-Aged	No
<p><u>Prescription</u> Final harvest. No retention due to small acreage.  <u>Specs:</u>  <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)  <u>Treatments:</u>  <u>Acceptable</u> mixed deciduous  <u>Regen:</u>  <u>Other</u> May leave a few super canopy pines  <u>Comment:</u>  <u>Site Condition</u>  <u>Proposed Start Date:</u> 10/1 /2021</p>										

**Approved Treatments:**

42 63087042-Spray	29.6	4117 - Mixed N. Hardwood - Pine	Sapling Poor	5	Immature	Pesticide	ERROR	4211 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> spray  <u>Specs:</u>  <u>Next Step</u> Planting, Replant  <u>Treatments:</u>  <u>Acceptable</u> planted  <u>Regen:</u>  <u>Other</u> Percent to Treat = 100%  <u>Comment:</u>  <u>Site Condition</u>  <u>Proposed Start Date:</u> 1 /1 /2020</p>										

**Total Treatment Acreage Proposed: 322.3**

## Report 4 – Site Conditions

Cadillac Mgt. Unit  
Blair Tweedale : Examiner

Compartment: 87  
Year of Entry: 2022

### Availability for Management

Total Acres	Acres Available	Acres Avail		Dominant Site Conditions	Dominant Site Conditions				
		With Condition	Not Available		5B	5C	1C	2G	3J
870	863	7	0	Aspen	0	7			0
2	2	0	0	Bare/Sparsely Vegetated					
2	2	0	0	Cropland					
5	5	0	0	Herbaceous Openland					
6	0	6	0	Lowland Aspen/Balsam Poplar		6			
81	6	5	70	Lowland Conifers		5		70	
19	19	0	0	Lowland Shrub					
94	54	40	0	Mixed Upland Deciduous		40			
12	0	12	0	Natural Mixed Pines		12			
623	570	43	10	Northern Hardwood		43	10		
262	126	136	0	Oak		136			
209	209	0	0	Red Pine					
2	2	0	0	Sand, Soil					
39	23	16	0	Upland Mixed Forest		16			
13	13	0	0	Urban					
33	33	0	0	Water					
150	150	0	0	White Pine					
2,422	2,077	265	80	Total Forested Acres	0	265	10	70	0
	86%	11%	3%	Relative Percent					

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

Site No.	Dominant Site Cond Availability	Dominant Site Condition	Acres	Other Site Condition	Other Site Condition	Other Site Condition	Other Site Condition
1	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	67	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
Stand is a mix of lowland species and contains an unnamed stream that flow into a beaver flooding to the north toward the Manistee River							

Report 4 – Site Conditions

Cadillac Mgt. Unit  
Blair Tweedale : Examiner

Compartment: 87  
Year of Entry: 2022

2	Unavailable	1C: Other dept or div proc/practices	5	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Walters Research Project: Long-term beech regeneration monitoring, up to 20 years (through 2039)							
3	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	40	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
4	Unavailable	1C: Other dept or div proc/practices	5	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Walters Research Project: Long-term beech regeneration monitoring, up to 20 years (through 2039)							
5	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	43	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
6	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	7	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
7	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	5	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							

Report 4 – Site Conditions

Cadillac Mgt. Unit  
Blair Tweedale : Examiner

Compartment: 87  
Year of Entry: 2022

8	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
9	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	6	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
10	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	12	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
11	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	16	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
12	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	68	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

**Report 4 – Site Conditions**

**Cadillac Mgt. Unit**  
**Blair Tweedale : Examiner**

**Compartment: 87**  
**Year of Entry: 2022**

13	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	68	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							

Mgt. Unit

Compartment: #Type!

Year of Entry:



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

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

SCA Name	SCA Category	Detail Type	Recommendation	Acres
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Comments

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**Report 6 – EXISTING SPECIAL CONSERVATION AREA DETAILS**

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

<b>Conservation Area</b>	<b>Type</b>	<b>Description</b>
SCA	Research and Military Areas	These areas provide facilities and lands specifically dedicated for research, or other purposes. They include the 5,847 acre Forest Fire Experiment Station, the 12,000 acre Houghton Lake Wildlife Research Area, the Beaver Islands Archipelago Wildlife Research Area (that includes most of Garden Island, all of High and Hog Islands, all state owned land on Beaver, South Fox and North Fox Islands), the Cusino Wildlife Research Area, the 3,000 acre Hunt Creek Fisheries Research Station, the 125 acre Wyman Nursery, and over 144,000 acres of Military Lands.
SCA	Riparian Area	A transitional area between aquatic and terrestrial ecosystems in which the terrestrial ecosystem influences the aquatic ecosystem and vice-versa. Because of the unique conditions adjacent to lakes, streams and open water wetlands, riparian areas harbor a high diversity of plants and wildlife. Riparian communities are ecologically and socially significant in their effects on water quality and quantity, as well as aesthetics, habitat, bank stability, timber production, and their contribution to overall biodiversity.
HCVA	Natural Rivers	There are two Natural Rivers datasets which are derived from spatial buffers set from an established and approved distance from the river centerlines. The Natural Rivers Zoning District is a 400 foot buffer for most Natural Rivers. The Vegetative Buffer ranges from 25 to 100 feet. To view specific Zoning Districts and Vegetative Buffers for each Natural River see the table located on the I:\Documentation\GDSE data folder.

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



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
1	4130 - Aspen	Poletimber Well	15.8	45		N/A	mostly small diameter aspen with scattered pine throughout stand.
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	
Red Maple		15	Sapling/Pole	4		Red Maple	
Red Oak		3	Pole	6		Medium	
Quaking Aspen		30	Pole/Sapling	7	45	10 - 20 feet	
White Pine		12	Log/Pole	10		Sapling	
Bigtooth Aspen		40	Pole	8	45		
2	42110 - Planted Red Pine	Poletimber Well	20.8	59	171-200	N/A	Planted red pine.
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>		
White Pine		3	Pole	7			
Red Pine		90	Pole	8	59		
Red Maple		3	Pole	6			
Red Oak		2	Pole/Log	9			
Quaking Aspen		2	Pole	6			
3	4130 - Aspen	Sapling Well	12.4	17	Immature	N/A	
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	
Red Maple		5	Sapling/Pole	4		White Pine	
Red Oak		5	Log	13		Low	
Bigtooth Aspen		85	Sapling/Pole	3	17	5 - 10 feet	
Red Pine		5	Sapling/Pole	4		Sapling	
4	710 - Sand, Soil	Nonstocked	1.9		Immature	No	former well site. sand and ferns.
<b>Sub-Canopy Species</b>		<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>			
Bracken Fern		High		Non-Wood			
5	4130 - Aspen	Sapling Well	14.5	7	Immature	N/A	Stand was final harvested in winter of 2013, chipped.
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>		
Red Maple		30	Sapling	1	7		
Quaking Aspen		70	Sapling	2	7		
6	4130 - Aspen	Sapling Well	8.0	27	Immature	N/A	stand was cut in previous entry.
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	
Red Maple		10	Sapling	2		White Pine	
White Oak		10	Sapling/Pole	3		Low	
Quaking Aspen		75	Sapling/Pole	3	27	< 5 feet	
Black Cherry		5	Sapling	2		Seeding	



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																						
7	4130 - Aspen	Sawtimber Well	14.9	56	111-140	N/A																																																							
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8	4199 - Other Mixed Upland Deciduous	Sawtimber Well	40.0	83	81-110	N/A	Stand was thinned in 2015, was a marked thinning. Was cut in Feb and March.																																																						
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9	42110 - Planted Red Pine	Poletimber Well	33.4	59	141-170	N/A	Stand was third row thinned early 2000's. Portion along 7 mile rd has not been thinned. Small pocket of stand along 7 mile rd is dominated by white pine, but feature was too small to meet mapping standards.																																																						
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11	42111 - Planted Red Pine, Mixed Deciduous	Poletimber Well	34.7	59	171-200	N/A																																																							
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																						
12	4139 - Aspen, Mixed Deciduous	Sapling Well	30.4	6	1-50	N/A	Stand was final harvested in 2014, chipping operation. Scattered pine and oak were left. North end of stand is popular unofficial horse camping area.																																																						
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13	790 - Other Bare/Sparsely Vegetated	Nonstocked	2.2		Unspecified		old gas well. poison gas signs posted.																																																						
14	4130 - Aspen	Sapling Well	12.1	38	51-80	N/A	small diameter stand.																																																						
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16	4111 - S.Maple, Hard Mast Association	Sawtimber Well	252.1	97	51-80	N/A	Western portion of stand was not thinned last entry. Higher BA.																																																						
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Red Oak	16	Log/XLog	15																																																										
17	4130 - Aspen	Poletimber Well	30.6	46	141-170	N/A	mix of maple, aspen and beech. Trace of sugar maple.																																																						
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18	42110 - Planted Red Pine	Sawtimber Well	24.5	58	81-110	N/A	Stand is a mix of red pine and white pine plantation. Red pine was thinned with all aspen and white pine being final harvested within plantation. Sale occurred in winter 2013.																																		
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19	122 - Road/Parking Lot	Nonstocked	12.5			No																																			
20	4131 - Aspen, Oak	Sapling Well	18.9	17	Immature	N/A	Recent Aspen Cut with scattered overstory oaks																																		
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21	42201 - Natural White Pine, Mixed Deciduous	Poletimber Well	15.6	63	81-110	N/A	1/10/20: Diameters and densities of white pine vary greatly throughout stand.																																		
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24	6220 - Alder/willow	Nonstocked	15.2		Unspecified	No	aspen and tag alder surrounding beaver ponds.																																		
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33	4130 - Aspen	Sapling Well	12.5	26	Immature	N/A	Young aspen mixed with scattered pine. Lowland wet pocket located within stand boundaries.																																																																								
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34	4110 - Sugar Maple Association	Sawtimber Well	42.9	77	111-140	N/A	Areas are hilly. Thinned in 2000.																																																																								
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																
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38	2114 - Other Cropland	Nonstocked	2.4			No	open field. looks to be hay or alfala																																																
39	4125 - Black, N. Pin Oak	Sawtimber Well	120.8	86	81-110	N/A	poor quality oak with multiple aged white pine, maple and young aspen clones.																																																
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42	4117 - Mixed N. Hardwood - Pine	Sapling Poor	29.6	5	Immature	N/A	Stand was final harvested in Dec 2012. Stand was chipped. FTP created in replant red pine.  Stand was trenched and 2013 and planted in 2015. Hardwood overtook seedlings. Regen check performed in 2016. Stand was sprayed in summer 2017.																																																
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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**43** 6128 - Lowland Coniferous, Mixed Deciduous Poletimber Well 8.1 89 81-110 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen	10	Pole/Log	9	55	Balsam Fir	Medium	10 - 20 feet	Sapling
Balsam Fir	25	Pole	8	55	Red Maple	Low	10 - 20 feet	Sapling
Northern White Cedar	35	Pole	9	89				
Paper Birch	5	Pole	6					
Red Maple	15	Pole	8					
White Pine	10	XLog/Log	18					

**44** 42200 - Natural White Pine Sawtimber Well 85.2 64 111-140 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	10	Pole/Log	8		Balsam Fir	Low	10 - 20 feet	Sapling
Paper Birch	3	Pole/Sapling	5					
Bigtooth Aspen	10	Log/Pole	10					
Balsam Fir	5	Pole	7					
White Pine	72	Log/Pole	11	64				

**45** 4130 - Aspen Sapling Well 17.9 15 Immature N/A

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	5	Sapling	1	
Bigtooth Aspen	85	Sapling	1	15
White Pine	5	Pole/Sapling	6	
Balsam Fir	5	Sapling	3	

**46** 4130 - Aspen Sapling Well 21.1 27 Immature N/A

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	15	Sapling	3	
Bigtooth Aspen	75	Sapling	4	27
Black Cherry	5	Sapling	4	
Red Oak	5	Sapling	4	

**47** 4111 - S.Maple, Hard Mast Association Sawtimber Well 7.1 88 81-110 N/A Small hardwood stand. East portion is on a slope.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple	40	Log/Pole	11	88	Red Maple	Low	Variable	Sapling
Red Maple	15	Log/Pole	10		Ironwood	Low	Variable	Sapling
Basswood	30	Log/Pole	12		Sugar Maple	Low	Variable	Sapling
Red Oak	5	Log/Pole	10					
Beech	5	Pole/Log	9					
Bigtooth Aspen	5	Log	14					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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**48**      4131 - Aspen, Oak      Sapling Well      29.1      12      Immature      N/A      Stand had aspen, maple and some oak removed in the past. Overall a regenerating stand with overstory oak scattered. Some pockets may have 40 BA.

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	15	Sapling	2	
Quaking Aspen	30	Sapling	2	12
Bigtooth Aspen	20	Sapling	2	
Black/Red (Hybrid) Oak	28	Log	11	
White Pine	4	Log	12	
White Pine	3	Sapling	2	

**49**      4130 - Aspen      Sapling Well      8.7      15           N/A

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	7	Sapling	2	
Red Oak	3	Pole	4	
Quaking Aspen	75	Sapling	2	15
Bigtooth Aspen	15	Sapling	2	

**50**      4125 - Black, N. Pin Oak      Sawtimber Well      120.5      88      51-80      N/A      stand was cut early 2000s. all aspen was removed. overstory oak. Some areas have a fair amount of advanced aspen and maple regeneration, others are sparse. Some areas have a nice white pine understory.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	15	Pole/Log/Sap	7		White Pine	Medium	10 - 20 feet	Sapling
Black/Red (Hybrid) Oak	75	Log/Pole	11	88	Red Maple	Low	10 - 20 feet	Sapling
White Pine	5	Pole/Log	8		Bigtooth Aspen	Medium	10 - 20 feet	Sapling
White Oak	5	Log/Pole	10					

**51**      42200 - Natural White Pine      Sawtimber Medium      26.1      79      51-80      N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Black/Red (Hybrid) Oak	15	Log/Pole	10		White Pine	Medium	5 - 10 feet	Sapling
White Pine	75	Log/Pole	11	79	Red Maple	Low	>20 feet	Sapling
Red Pine	10	Log	11		Quaking Aspen	Medium	>20 feet	Sapling

**52**      4130 - Aspen      Sapling Well      56.0      27      Immature      N/A

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	10	Sapling	3	
Bigtooth Aspen	70	Sapling	3	27
White Pine	10	Log/Pole	16	
Red Oak	10	Sapling	3	

**53**      4130 - Aspen      Sapling Well      26.4      15      Immature      N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	10	Sapling	2		Red Maple	Medium	Variable	Sapling
Red Oak	5	Pole/Log	9		Beech	Low	5 - 10 feet	Sapling
Bigtooth Aspen	85	Sapling	2	15				



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																														
<b>55</b>	42110 - Planted Red Pine	Sawtimber Medium	23.1	58	51-80	N/A	stand was a mix of red pine and white pine plantation. All white pine, aspen, and maple was final harvested with red pine being thinned. Red pine was not contiguous throughout. Sale occurred in winter 2013, and was shortwooded.																																														
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<b>56</b>	4130 - Aspen	Sapling Well	11.8	7	1-50	N/A																																															
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<b>57</b>	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Poor	16.0	59	1-50	N/A	Mixed stand. Property was acquired in 2012.																																														
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Quaking Aspen	Medium	>20 feet	Sapling																																																		
<b>58</b>	4136 - Aspen, Mixed Conifer	Sapling Well	92.5	7	Immature	N/A																																															
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<b>60</b>	4130 - Aspen	Sapling Well	23.7	7	Immature	N/A	sale cut in 2013.																																														
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White Pine	5	Pole/Log	8																																																		



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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<b>61</b>	4130 - Aspen	Sapling Well	18.7	7	1-50	N/A	sale cut 2013.
Canopy Species		% Cover	Size Class	DBH	Age		
Red Maple		20	Sapling	1	7		
Red Oak		3	Log	11			
Bigtooth Aspen		65	Sapling	1	7		
Black/Red (Hybrid) Oak		7	Log	13			
White Pine		5	Pole/Log	8			

<b>62</b>	4130 - Aspen	Sapling Well	5.7	7	1-50	N/A	harvested in 2013
Canopy Species		% Cover	Size Class	DBH	Age		
Red Maple		20	Sapling	1	7		
Bigtooth Aspen		65	Sapling	1	7		
Black/Red (Hybrid) Oak		10	Log	12			
White Pine		5	Pole/Sap/Log	7			

<b>63</b>	4130 - Aspen	Poletimber Well	30.8	58	81-110	N/A	
Canopy Species		% Cover	Size Class	DBH	Age		
Red Maple		10	Pole	8			
Bigtooth Aspen		75	Log/Pole	10	58		
Red Oak		10	Pole	8			
White Pine		5	Pole	8			
Sub-Canopy Species		Density	Avg. Height	Size			
White Pine		Low	< 5 feet	Sapling			

<b>64</b>	310 - Herbaceous Openland	Nonstocked	3.8	0		No	old well site. Rehabilitation has taken place. Planted trees.
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<b>65</b>	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Well	6.2	47	81-110	N/A	
Canopy Species		% Cover	Size Class	DBH	Age		
Red Maple		15	Pole	7			
Paper Birch		5	Pole	7			
Bigtooth Aspen		15	Log/Pole	11	62		
Balsam Fir		30	Pole	7	47		
White Pine		15	Log	16			
Northern White Cedar		15	Pole	9			
Hemlock		5	Pole	8			
Sub-Canopy Species		Density	Avg. Height	Size			
Balsam Fir		High	>20 feet	Sapling			

<b>66</b>	42110 - Planted Red Pine	Poletimber Well	11.4	59	141-170	N/A	
Canopy Species		% Cover	Size Class	DBH	Age		
Red Maple		5	Pole/Log	7			
White Oak		2	Log/Pole	11			
Bigtooth Aspen		3	Pole/Sapling	5			
Red Pine		90	Pole	8	59		
Sub-Canopy Species		Density	Avg. Height	Size			
White Oak		Low	< 5 feet	Seeding			



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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**67** 42110 - Planted Red Pine Poletimber Well 19.5 59 171-200 N/A stand is a mix of red pine and white pine plantation with scattered small aspen clones and oaks.

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	5	Pole/Log	7	
White Oak	2	Log/Pole	11	
Bigtooth Aspen	3	Pole/Sapling	5	
White Pine	5	Pole	6	
Red Pine	85	Pole	8	59

**68** 42110 - Planted Red Pine Poletimber Well 21.5 59 171-200 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	5	Pole/Log	7		White Oak	Low	Variable	Sapling
White Oak	2	Log/Pole	11		Red Maple	Low	5 - 10 feet	Sapling
Bigtooth Aspen	3	Pole/Sapling	5					
White Pine	3	Pole/Sap/Log	6					
Red Pine	87	Pole	8	59				

**69** 42200 - Natural White Pine Sawtimber Well 23.4 67 51-80 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Pine	100	Log/Pole	11	67	Quaking Aspen	High	5 - 10 feet	Sapling

**71** 310 - Herbaceous Openland Nonstocked 1.7 0 No

**72** 6112 - Lowland Aspen Poletimber Well 6.1 55 111-140 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen	60	Pole/Log	9	55	Balsam Fir	Medium	10 - 20 feet	Sapling
Balsam Fir	40	Pole	8	55	Red Maple	Low	10 - 20 feet	Sapling

**73** 4319 - Mixed Upland Forest Sawtimber Well 19.9 52 81-110 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	2	Pole/Log	8		Balsam Fir	Medium	10 - 20 feet	Sapling
Red Pine	3	Log/Pole	14					
Quaking Aspen	37	Pole/Log	8	52				
Balsam Fir	30	Pole/Sapling	7					
White Pine	25	Log/Pole	12	52				
Red Oak	3	Pole	8					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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**74** 4310 - Pine, Oak Mix Poletimber Well 3.0 59 111-140 N/A Natural mixed stand.

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	5	Pole/Log	7	
White Oak	5	Pole/Log	9	
Black/Red (Hybrid) Oak	40	Pole/Sap/Log	8	59
White Pine	40	Log/Pole	10	59
Red Pine	10	Pole	8	59

**75** 4125 - Black, N. Pin Oak Sawtimber Well 11.5 85 81-110 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Black/Red (Hybrid) Oak	40	Pole/Log	8	85	Balsam Fir	Low	10 - 20 feet	Sapling
White Pine	15	Pole/Log	8	64				
White Oak	15	Pole/Log	9					
Red Oak	15	Pole/Log	9					
Quaking Aspen	15	Pole/Log	9					

**76** 4133 - Aspen, Mixed Pine Sapling Well 38.7 38 81-110 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Bigtooth Aspen	45	Pole/Sapling	5	38	Red Maple	Low	5 - 10 feet	Sapling
Quaking Aspen	20	Pole/Sapling	5		Bigtooth Aspen	Low	10 - 20 feet	Sapling
White Pine	25	Pole/Log	8		Black/Red (Hybrid) Oak	Low	10 - 20 feet	Sapling
Black/Red (Hybrid) Oak	10	Pole	7					

**77** 4130 - Aspen Sawtimber Well 7.2 61 Unspecified N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	8	Pole/Log	8		Balsam Fir	Low	10 - 20 feet	Sapling
Quaking Aspen	10	Log/Pole	10	61	Red Maple	Low	10 - 20 feet	Sapling
Bigtooth Aspen	65	Log/Pole	10	61	Black Cherry	Low	10 - 20 feet	Sapling
Black/Red (Hybrid) Oak	12	Log	11					
Balsam Fir	5	Pole/Sapling	5					

**78** 4130 - Aspen Poletimber Well 8.6 51 81-110 N/A

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	5	Pole	5	
Red Oak	3	Log/Pole	11	
Bigtooth Aspen	77	Log/Pole	11	51
Black/Red (Hybrid) Oak	5	Pole/Log	8	
White Pine	10	Log/Pole	12	



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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**79** 4125 - Black, N. Pin Oak Sawtimber Well 9.7 73 51-80 N/A Steep ridge dominated by oak.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	5	Pole/Sapling	6		Red Maple	Low	10 - 20 feet	Sapling
White Oak	5	Log	13					
Black/Red (Hybrid) Oak	80	Pole/Log	9	73				
White Pine	10	Log/Pole	16					

**80** 4311 - Pine, Aspen Mix Poletimber Well 16.1 78 1-50 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Black/Red (Hybrid) Oak	10	Log/Pole	11	77	White Pine	Low	10 - 20 feet	Sapling
White Pine	35	Pole/Log	8	78	Red Maple	Low	10 - 20 feet	Sapling
White Oak	5	Pole	8		Bigtooth Aspen	Medium	10 - 20 feet	Sapling
Red Pine	10	Pole/Sap/Log	9					
Bigtooth Aspen	30	Sapling	3					
Red Maple	10	Sapling	3					

**81** 4191 - Mixed Upland Deciduous with Conifer Sawtimber Well 37.6 86 51-80 N/A p

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	5	Pole/Log/Sap	5		Red Maple	Low	5 - 10 feet	Sapling
Black/Red (Hybrid) Oak	30	Log/Pole	11	86	Bigtooth Aspen	Low	10 - 20 feet	Sapling
Quaking Aspen	25	Pole/Sapling	5		Black/Red (Hybrid) Oak	Low	10 - 20 feet	Sapling
White Pine	40	Log/Pole	11	86	White Pine	Medium	5 - 10 feet	Sapling

**82** 6220 - Alder/willow Nonstocked 1.9 0 Unspecified No

**83** 42250 - Pine, Oak Sawtimber Well 12.1 88 51-80 N/A Overstory oak and white pine.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Black/Red (Hybrid) Oak	40	Log/Pole	11	88	White Pine	High	10 - 20 feet	Sapling
White Pine	60	Log/Pole	10	88	Red Maple	Low	10 - 20 feet	Sapling
					Bigtooth Aspen	Medium	10 - 20 feet	Sapling

**84** 6229 - Mixed lowland shrub Nonstocked 1.6 0 Unspecified No