



# Compartment Review Presentation

## Cadillac Forest Management Unit

Compartment 62

Entry Year 2016

Acreage: 2,007

County Wexford

Management Area: Benzie Moraines

**Revision Date:** 03/20/2014

**Stand Examiner:** Joe Ventimiglia

### **Legal Description:**

T24N R12W: Sections 6-8, 16-18.

### **Identified Planning Goals:**

Vegetative management in the Benzie Moraines management area (MA) will produce various forest products; maintain or enhance biodiversity conservation and wildlife habitat; protect areas of unique character and threatened, endangered and special concern species; provide for forest-based recreational uses; and Native American non-commercial use of forest products. Timber management for this 10-year planning period includes improving the age-class structure of aspen and red pine and continued selection harvesting in high-quality northern hardwoods to achieve an all-age structure. Wildlife management objectives include increasing the structural complexity of northern hardwood communities for interior forest species and perpetuating early-successional communities for species adapted to young forests. Expected trends within this 10-year planning period are forest pest issues, particularly beech bark disease and emerald ash borer and an increase in recreational trail use.

### **Soil and topography:**

Soils include Kalkaska and Roscommon types. Terrain is mostly flat in the Harlan Swamp with several upland ridges at the headwaters of Fletcher Creek. Topography becomes more rolling with some steep slopes in the central part of Section 8, and to the southeast in Section 16 adjacent to Fletcher Creek.

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

The Compartment is surrounded mostly by private land, with some state land bordering to the south and west. There is a matrix of private lands within the compartment boundary, including a portion of the Mesick School Forest. Consumers Power owns a 330' wide swath of land that cuts across Section 6. This includes the cleared right-of-way, as well as a portion of the forested area to the north and west.

### **Unique Natural Features:**

There is potential for Woodland Vole to the northwest of this Compartment. Other features include the Harlan Swamp and the headwaters of Fletcher Creek.

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

No Archeological, Historical, or Cultural Features known.

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

Maintain vegetated buffers along all water courses and lowland sensitive sites.

### **Watershed and Fisheries Considerations:**

Fletcher Creek, a tributary to the Manistee River, originates in Compartment 62. Fletcher Creek is a Designated Trout Stream, holding mostly brook trout, along with a few brown trout and rainbow trout. The Natural Rivers plan for the Manistee River calls for a 50' natural vegetation buffer along all tributaries, so any timber management should take place outside of that zone.

### **Wildlife Habitat Considerations:**

Greater emphasis should be placed on promoting larger stands of older age and mixed age classes to provide diversity in vertical and horizontal structure in this compartment. In addition, this compartment contains a portion of Harlan Swamp, an important wildlife area. Generally, wildlife cover type goals are no net loss in aspen or oak acres, to protect mast bearing shrubs, to create brush piles adjacent to wetlands, to preferably leave retention in the form of islands or corridors, and to provide coarse woody debris. Featured species of special interest are marten, bear, deer, red-shouldered hawk, black-throated blue warbler, and wood thrush. (E. Victory 7/18/14)

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

Surface sediments consist of an end moraine of coarse-textured glacial till and minor glacial outwash sand and gravel and

postglacial alluvium. The glacial drift thickness varies between 600 and 800 feet. Beneath the glacial drift is the Mississippian Coldwater Shale. The Coldwater does not have an economic use. A gravel pit is located one mile to the south and potential is good. This area is located in the prolific Silurian Niagaran reef trend. Several reefs are producing and additional wells are permitted to be drilled. Approximately half of the State lands are leased for oil and gas exploration. (Tom Hoane 4/26/2004).

**Vehicle Access:**

A forest road access plan is detailed on the compartment map. Identified are state and county roads as well as forest roads and trails under the jurisdiction of the DNR. Also indicated are forest roads and trails under the jurisdiction of the DNR that are proposed for abandonment. These roads were determined to be in excess of the access needs in the area, are a threat to the resources, or are a concern environmentally.

**Survey Needs:**

Adequate corners at this time.

**Recreational Facilities and Opportunities:**

There are no developed recreational facilities within this compartment. There are numerous opportunities for dispersed camping, hunting, and fishing (Fletcher Creek). (T.M.N. 3/14).

**Fire Protection:**

Much of the area in this compartment has poor access and low fire potential. The areas of pine could provide for more intense fires. The gas wells within the compartment and deer enclosures on adjacent private land could be a problem for fire suppression. BET5-14

**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**

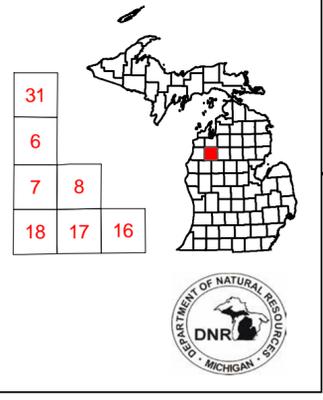
**The following information is displayed, where pertinent, on the attached compartment maps:**

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

# Cover Type & Treatment Map

Compartment: 062  
 T24N R12W  
 05 06 07 08 09 16 17 18  
 T25N R12W  
 31  
 County: Wexford  
 Unit: Cadillac  
 Management Area: Benzie Moraines  
 YOE: 2016  
 Acres: 2,007 GIS Calculated  
 Examiner: Joe Ventimiglia  
 Map Revised: 06/23/2014  
 Map Phase: Pre-Review

Stand #  
 23  
 Stocking  
 Density  
 (412)0 - A7  
 Level 3  
 Level 4  
 OI  
 Code  
 Cover Type Code



### Legend

- Miris Corners
- Gate
- Highway
- County Paved Roads
- Paved Roads
- County Gravel Roads
- Gravel Roads
- Poor Dirt Roads
- County Poor Dirt Roads
- Trail (Non-Recreation)
- Stream
- Intermittent Stream
- Lakes and Rivers

### Non-Forest Regeneration

Planned Regeneration

- Natural
- Planted

### Treatments

- Clearcut (w/Reserves, Patch/Strip)
- Thinning (Crown, Low, Systematic)
- Selection (Group, Single Tree)
- Treatments w/ Site Condition

### Forest Stands

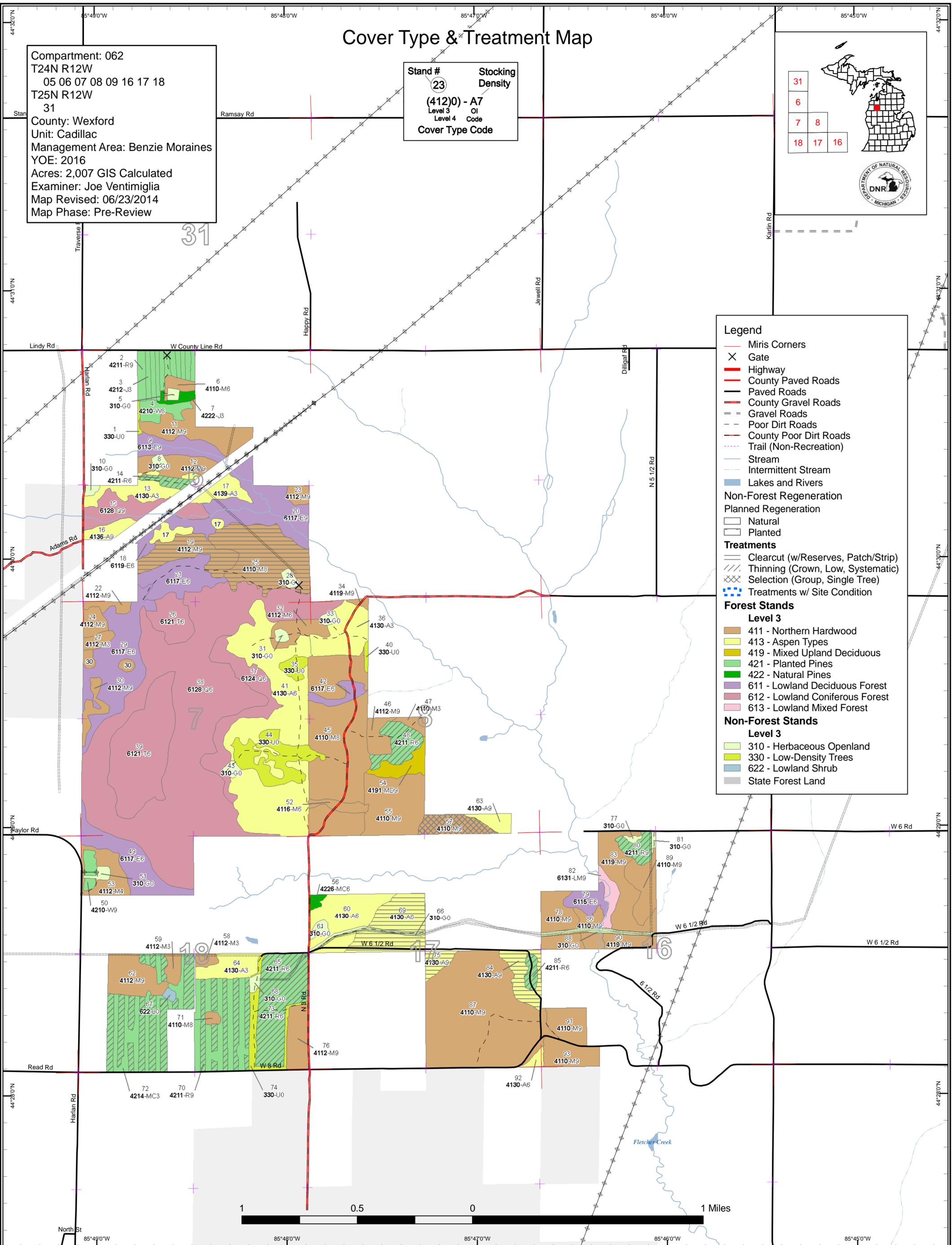
#### Level 3

- 411 - Northern Hardwood
- 413 - Aspen Types
- 419 - Mixed Upland Deciduous
- 421 - Planted Pines
- 422 - Natural Pines
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 613 - Lowland Mixed Forest

#### Non-Forest Stands

##### Level 3

- 310 - Herbaceous Openland
- 330 - Low-Density Trees
- 622 - Lowland Shrub
- State Forest Land



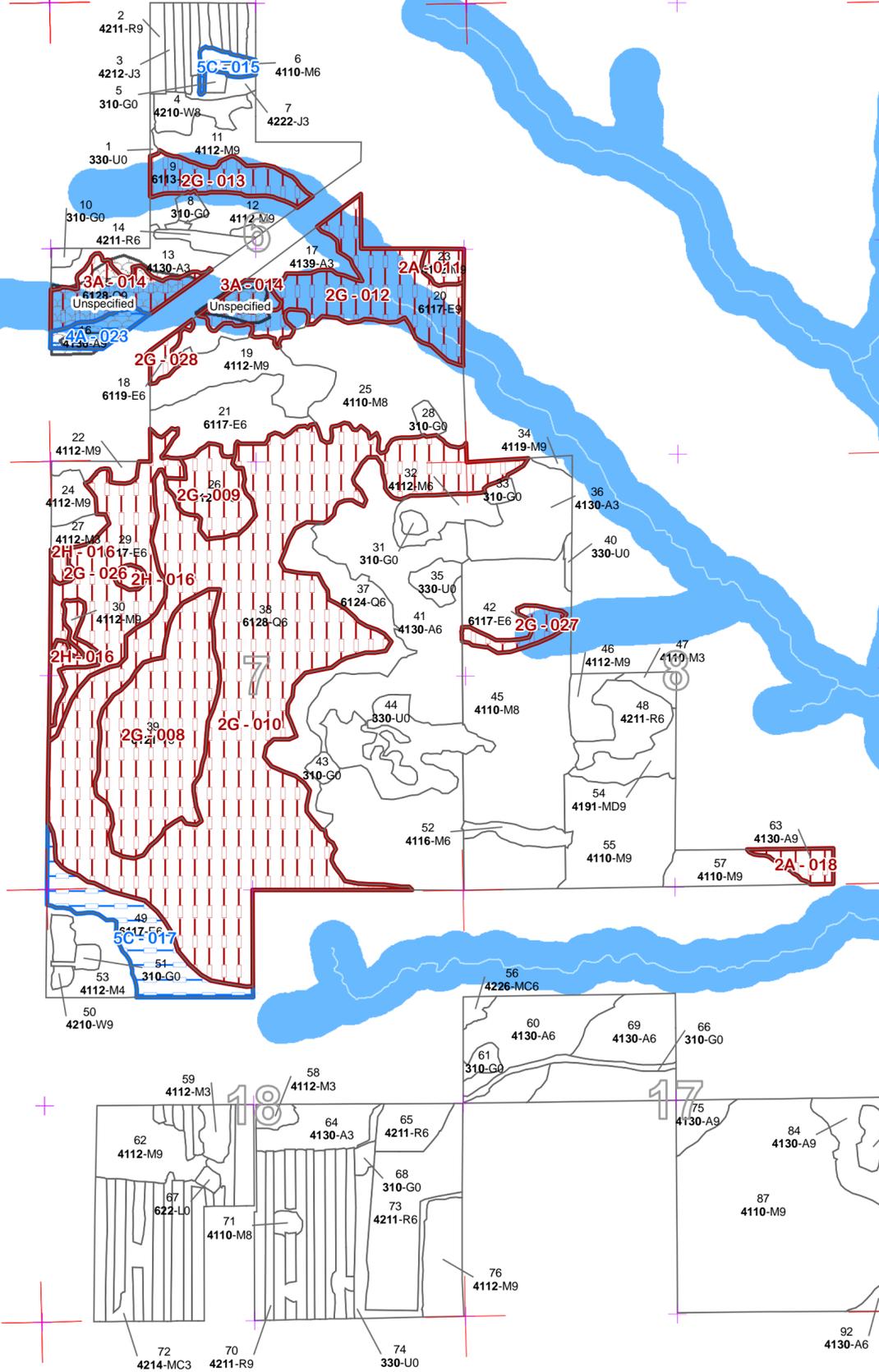
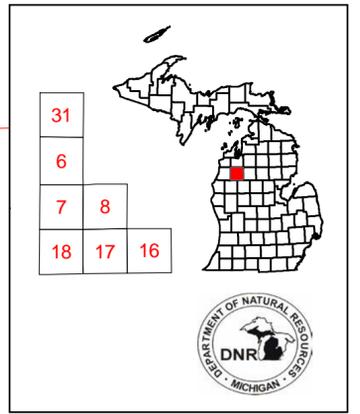
North St 85°49'0"W 85°48'0"W 85°47'0"W 85°46'0"W 85°45'0"W



# Special Conservation Areas & Site Conditions Map

Compartment: 062  
 T24N R12W  
 05 06 07 08 09 16 17 18  
 T25N R12W  
 31  
 County: Wexford  
 Unit: Cadillac  
 Management Area: Benzie Moraines  
 YOE: 2016  
 Acres: 2,007 GIS Calculated  
 Examiner: Joe Ventimiglia  
 Map Revised: 06/23/2014  
 Map Phase: Pre-Review

Stand # 23  
 Stacking Density  
 (412)0 - A7  
 Level 3 OI  
 Level 4 Code  
 Cover Type Code



**Legend**

- Miris Corners
- Stand Boundaries

**Site Condition Available**

- Available w/ Constraints (Factor - Number)
- Unavailable (Factor - Number)

**Site Condition Type**

**Available Factors W/ Constraints**

- 4A: No merchantable products (see product standards)
- 5C: Delay treatment for age/size class diversity or exceptional site quality
- 2B: Unknown if access through adjacent landowner(s) is possible

**Unavailable Factors**

- 2A: Adjacent landowner denied access
- 2F: Too steep
- 2G: Too wet (sensitive soils, does not include access issues)
- 2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)
- 3A: Potential old growth / biodiversity

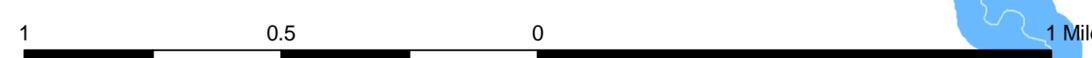
**Reviewable SCAs**

**Proposed SCA's**

- Proposed SCA
- SCA Removal

**Dedicated Special Conservation Areas**

- Cold Water Streams
- High Priority Trout Stream Buffer



44°31'0"N  
44°30'0"N  
44°29'0"N  
44°28'0"N

44°31'0"N  
44°30'0"N  
44°29'0"N  
44°28'0"N

85°49'0"W 85°48'0"W 85°47'0"W 85°46'0"W 85°45'0"W

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

Cadillac Mgt. Unit

Compartment 062 Year of Entry 2016

Joe VENTIMIGLIA : Examiner



	Age Class														Total
	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 +	Uneven Age	
Aspen	33	41	0	163	0	37	30	7	0	0	0	0	0	0	311
Herbaceous Openland	34	0	0	0	0	0	0	0	0	0	0	0	0	0	34
Jack Pine	0	14	0	0	0	0	0	0	0	0	0	0	0	0	14
Low-Density Trees	49	0	0	0	0	0	0	0	0	0	0	0	0	0	49
Lowland Conifers	0	0	0	0	0	0	35	0	0	0	0	301	25	0	361
Lowland Deciduous	0	0	0	0	0	0	14	35	32	70	0	0	0	55	205
Lowland Mixed Forest	0	0	0	0	0	0	0	0	0	0	0	0	7	0	7
Lowland Shrub	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Mixed Upland Deciduous	0	0	0	0	0	0	0	11	0	0	0	0	0	0	11
Natural Mixed Pines	0	0	0	2	0	0	0	0	0	0	0	0	0	0	2
Northern Hardwood	14	3	0	0	0	0	22	12	121	495	0	9	0	0	677
Planted Mixed Pines	0	62	0	0	0	0	0	0	0	0	0	0	0	0	62
Red Pine	0	0	0	0	0	167	0	0	0	0	0	0	0	0	167
Tamarack	0	0	0	0	0	0	73	0	19	0	0	0	0	0	91
White Pine	0	0	0	0	0	5	9	0	0	0	0	0	0	0	14
<b>Total</b>	<b>132</b>	<b>119</b>	<b>0</b>	<b>166</b>	<b>0</b>	<b>209</b>	<b>183</b>	<b>63</b>	<b>171</b>	<b>565</b>	<b>0</b>	<b>311</b>	<b>32</b>	<b>55</b>	<b>2007</b>



## Report 2 – Proposed Treatment Summaries

**Cadillac Mgt. Unit**  
**Year of Entry 2016**

**Compartment 062**  
**Total Compartment Acres: 2,007**

### Acres by Treatment Type

Commercial Harvest - 252    Tree Planting - 0    Other - 0  
 Habitat Cut - 56    Opening Maintenance - 0

### Cover Type by Harvest Method

	<i>Clearcut</i>	<i>Selection</i>	<i>Seed Tree</i>	<i>Shelterwood</i>	<i>Thinning</i>	<i>Other - Specify</i>	<i>Total Acres</i>
<b>(Habitat Cut)Northern Hardwood</b>	56	0	0	0	0	0	<b>56</b>
<b>Aspen Types</b>	59	0	0	0	0	0	<b>59</b>
<b>Northern Hardwood</b>	26	15	0	0	0	0	<b>41</b>
<b>Planted Pines</b>	0	0	0	0	152	0	<b>152</b>
<b>Total</b>	<b>141</b>	<b>15</b>	<b>0</b>	<b>0</b>	<b>152</b>	<b>0</b>	<b>308</b>

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Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
14 63062014-Cut	4.9	42110 - Planted Red Pine	High Density Pole	52	141-170	Harvest	Low Thinning	4211 - Planted Red Pine	Cmpt. Review Proposal

Prescription Second thin. Mark for quality leaving the best stems behind. Remove poor form and at risk stems. Refer to silvicultural guidelines for tree selection.  
Specs:

Other Comments: Access from two track to west, may need permission from private. Two track is on edge of private and state.

Next Steps:

Proposed Start Date: 10/01/2015

19 63062019-Cut	26.3	4112 - Maple, Beech, Cherry Association	High Density Log	85	111-140	Harvest	Clearcut with Reserves	4112 - Maple, Beech, Cherry Association	Cmpt. Review Proposal
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Prescription Final harvest, leave one green ringed island 3 to 10 percent of acreage to meet retention guidelines.  
Specs:

Other Comments: Even aged management appears to regenerate this covertype well in this area. Stand 27 is a good example of how even aged management had worked well in the past. Lump in with sale to east. Access from oil well pad to east.

Next Steps: Monitor Regen.

Proposed Start Date: 10/01/2015

25 63062025-Cut	55.5	4110 - Sugar Maple Association	Medium Density Log	88	51-80	Harvest	Clearcut	4112 - Maple, Beech, Cherry Association	Cmpt. Review Proposal
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Prescription Final harvest. Leave scattered hemlock and all beech. Beech will be left as future snags and den trees. Green ring a few cherry as future snags and structure. (this will be the retention)  
Specs:

Other Comments: Complete shelterwood prep treatment. Remove cherry overstory. Objective of red maple and cherry regeneration. 4 inch spec to ensure as much of the current advanced regen is protected. Re-use old landing next to oil pad.

Next Steps: Monitor regen.

Proposed Start Date: 10/01/2015

48 63062048-Cut	16.1	42110 - Planted Red Pine	High Density Pole	52	141-170	Harvest	Low Thinning	4211 - Planted Red Pine	Cmpt. Review Proposal
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Prescription Second Thin. Mark for quality leaving the best to remain to grow into logs. Refer to red pine silvicultural guidelines if needed.  
Specs:

Other Comments: Easy access.

Next Steps:

Proposed Start Date: 10/01/2015

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Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
<b>57 63062057-Cut</b>	14.7	4110 - Sugar Maple Association	High Density Log	95	111-140	Harvest	Single Tree Selection	411 - Northern Hardwood	Cmpt. Review Proposal

Prescription Thin stand down to no lower than 80 BA. Refer to "complete DNR hardwood marking guidelines for crop tree selection and other marking  
Specs: information". Leave some of the large aspen as snags. Salvage ash and beech.

Other Access will need to come from state and some road work will be needed. Landing will need to be back toward the red pine plantation. Stay off  
Comments: the bluff and leave most of the mature aspen as future snags.

Next  
Steps:

Proposed  
Start Date: 10/01/2015

<b>65 63062065-Cut</b>	10.7	42110 - Planted Red Pine	High Density Pole	52	141-170	Harvest	Systematic Thinning	42110 - Planted Red Pine	Cmpt. Review Proposal
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Prescription Third row thin. Producer will need to use best judgement and make rows in more open failed spots. Leave any cherry.  
Specs:

Other Note presence of underground power cables. -Cherryland Electric Cooperative-  
Comments:

Next  
Steps:

Proposed  
Start Date: 10/01/2015

<b>69 63062069-Cut</b>	36.9	4130 - Aspen	High Density Pole	51		Harvest	Clearcut with Reserves	413 - Aspen	Cmpt. Review Proposal
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Prescription Final Harvest. Leave all white pine and a few green ringed aspen as retention.  
Specs:

Other May need a survey. Old fence on east end. Apply Grouse Spec. Brush piles and/or drumming logs. (Work with Wildlife on Grouse Spec)  
Comments:

Next  
Steps:

Proposed  
Start Date: 10/01/2015

<b>70 63062070-Cut</b>	68.6	42110 - Planted Red Pine	High Density Log	58	141-170	Harvest	Low Thinning	4211 - Planted Red Pine	Cmpt. Review Proposal
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Prescription Thin stand for third time. Mark for quality leaving the best stems behind. Remove poor form and at risk stems. Refer to silvicultural guidelines for  
Specs: tree selection.

Other Barely a log stand overall. Mix of small log and poles. Third thin to improve growth on highest quality stems. Thin no lower than 90 BA. Refer to  
Comments: silvicultural guidelines. This will likely be last thinning before stand is final harvested and replanted to pine. (This should be done when stems average 14 to 18 dbh) Economic maturity.

Next  
Steps:

Proposed  
Start Date: 10/01/2015



S t a n d	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
73	63062073-Cut	38.5	42110 - Planted Red Pine	High Density Pole	52	141-170	Harvest	Low Thinning	4211 - Planted Red Pine	Cmpt. Review Proposal
<u>Prescription</u> Second thin. Refer to red pine silviculture guidelines for marking guidelines . Mark leaving quality trees behind. Stand should respond well to <u>Specs:</u> thinning. Take out poor form and suppressed . <u>Other</u> Good access. <u>Comments:</u> <u>Next</u> <u>Steps:</u> <u>Proposed</u> <u>Start Date:</u> 10/01/2015										
75	63062075-Cut	6.9	4130 - Aspen	High Density Log	68		Harvest	Clearcut with Reserves	413 - Aspen	Cmpt. Review Proposal
<u>Prescription</u> Final harvest to two inch spec. Manage for aspen. Leave all white pine and green ring a few aspen and maple as retention. <u>Specs:</u> <u>Other</u> Manage for aspen, 2 inch spec to fight hardwood regen and give aspen a better chance over the hardwood. Private line will be needed. <u>Comments:</u> <u>Next</u> <u>Steps:</u> <u>Proposed</u> <u>Start Date:</u> 10/01/2015										
80	63062080-Cut	8.6	42110 - Planted Red Pine	High Density Log	54	171-200	Harvest	Low Thinning	4211 - Planted Red Pine	Cmpt. Review Proposal
<u>Prescription</u> Third Thin. Mark down to residual BA no lower then 90 to 120. Mark for quality leaving the best stems to remain. <u>Specs:</u> <u>Other</u> Last thinning before final harvest likley. <u>Comments:</u> <u>Next</u> <u>Steps:</u> <u>Proposed</u> <u>Start Date:</u> 10/01/2015										
84	63062084-Cut	15.6	4130 - Aspen	High Density Log	63		Harvest	Clearcut with Reserves	413 - Aspen	Cmpt. Review Proposal
<u>Prescription</u> Final harvest to 2 inch spec to allow aspen to regenerate better. Leave a few green marked aspen as future snags as well as a handful of good <u>Specs:</u> quality sugar maple as a little structural diversity. This will meet retention. <u>Other</u> Management objective of aspen. Sale should not need a blue line as a result of the limited aspen along the private boundary, makes most sense <u>Comments:</u> in this case to buffer off with red. (Nothing to really cut along private boundary, failry open) Lump in with red pine thinning. Grouse Spec. <u>Next</u> <u>Steps:</u> <u>Proposed</u> <u>Start Date:</u> 10/01/2015										
85	63062085-Cut	4.6	42110 - Planted Red Pine	High Density Pole	52	141-170	Harvest	Low Thinning	4211 - Planted Red Pine	Cmpt. Review Proposal
<u>Prescription</u> Second thin.Refer to red pine silviculture guidelines for more guidance if needed. Mark for quality leaving quality stems remaining. <u>Specs:</u> <u>Other</u> Will need to be lumped with larger sale. Likely lump in with adjacent aspen. <u>Comments:</u> <u>Next</u> <u>Steps:</u> <u>Proposed</u> <u>Start Date:</u> 10/01/2015										

**Report 3 -- Treatments Prescribed  
with No Limiting Factor**



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Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
Total Treatment Acreage Proposed:		308.0							



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Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
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#Type! #Type!

Prescription  
Specs:

Other  
Comment:

Next  
Steps:

Proposed  
Start Date: #Type!

Limiting Factor

**Total Treatment**  
**Acreage Proposed: 0.0**

## Report 5 – Site Conditions

Cadillac Mgt. Unit

Joe Ventimiglia : Examiner

Compartment 062

Year of Entry 2016

### Availability for Management

Total Acres	Acres		Dominant Site Conditions	Dominant Site Conditions							
	Available	Not Available		No	5C	4A	3A	2H	2G	2B	2A
311	305	7	<b>Aspen</b>	260	37	8					7
14	14		<b>Jack Pine</b>	14							
361	35	326	<b>Lowland Conifers</b>	35			25		301		
205	135	70	<b>Lowland Deciduous</b>	103	32				70		
7		7	<b>Lowland Mixed Forest</b>				7				
11	11		<b>Mixed Upland Deciduous</b>	11							
2	2		<b>Natural Mixed Pines</b>	2							
677	660	17	<b>Northern Hardwood</b>	631	20			12		9	5
62	62		<b>Planted Mixed Pines</b>	62							
167	167		<b>Red Pine</b>	167							
91		91	<b>Tamarack</b>						91		
14	14		<b>White Pine</b>	14							
1,922	1,404	518	Total Forested Acres	1,299	88	8	32	12	463	9	11
	73%	27%	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
008	Not Available	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	73	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)			
<b>Comments:</b> Very difficult access and concern over getting tamarack regen back.							
009	Not Available	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	19	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)			
<b>Comments:</b> Very Difficult access and concern over getting tamarack regen.							

## Report 5 – Site Conditions

Cadillac Mgt. Unit  
Joe Ventimiglia : Examiner

Compartment 062  
Year of Entry 2016

010	<b>Not Available</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	301	5D: Unproductive Forest Land	3J: Water quality / BMPs (stream, river, or lake)	4A: No merchantable products (see product standards)
<b>Comments:</b>						
011	<b>Not Available</b>	<b>2A: Adjacent landowner denied access</b>	5	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)		
<b>Comments:</b> Stand was checked by limit factor forester and determined to be too small acreage to go after considering the difficult access.						
012	<b>Not Available</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	53	No Limiting Factor		
<b>Comments:</b>						
013	<b>Not Available</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	18	3J: Water quality / BMPs (stream, river, or lake)		
<b>Comments:</b>						
014	<b>Not Available</b>	<b>3A: Potential old growth / biodiversity</b>	25	2G: Too wet (sensitive soils, does not include access issues)	3J: Water quality / BMPs (stream, river, or lake)	
<b>Comments:</b>						
015	<b>Available</b>	<b>5C: Delay treatment for age/size class diversity or exceptional site quality</b>	5			
<b>Comments:</b>						

## Report 5 – Site Conditions

Cadillac Mgt. Unit  
Joe Ventimiglia : Examiner

Compartment 062  
Year of Entry 2016

016	Not Available	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	12			
<b>Comments:</b>						
017	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	32			
<b>Comments:</b>						
018	Not Available	2A: Adjacent landowner denied access	7	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	5B: Maintain for regeneration purposes	2D: Portable Bridge Needed (Dept. bridge will be adequate)
<b>Comments:</b> Falling apart overmature aspen, filling in with pole-sap maple. Let stand convert to maple.						
019	Not Available	3A: Potential old growth / biodiversity	7	3J: Water quality / BMPs (stream, river, or lake)	2G: Too wet (sensitive soils, does not include access issues)	
<b>Comments:</b>						
020	Available	2B: Unknown if access through adjacent landowner(s) is possible	9	3J: Water quality / BMPs (stream, river, or lake)		
<b>Comments:</b>						
022	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	15			
<b>Comments:</b>						

## Report 5 – Site Conditions

Cadillac Mgt. Unit  
Joe Ventimiglia : Examiner

Compartment 062  
Year of Entry 2016

023	Available	4A: No merchantable products (see product standards)	8		
<b>Comments:</b> Too small acreage to go after at this point. Hold for now.					
024	Not Available	2F: Too steep	9	2G: Too wet (sensitive soils, does not include access issues)	3J: Water quality / BMPs (stream, river, or lake)
<b>Comments:</b>					
025	Not Available	2G: Too wet (sensitive soils, does not include access issues)	10		
<b>Comments:</b>					
026	Not Available	2G: Too wet (sensitive soils, does not include access issues)	55		
<b>Comments:</b>					
027	Not Available	2G: Too wet (sensitive soils, does not include access issues)	7		
<b>Comments:</b>					
028	Not Available	2G: Too wet (sensitive soils, does not include access issues)	4		
<b>Comments:</b>					



### Report 6 – 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
Unspecified Comments	Other SCA		SCA Removal	



**Report 7 – EXISTING SPECIAL CONSERVATION AREA DETAILS**

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

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

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



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
2	42110 - Planted Red Pine	High Density Log	15.0	58	111-140	Stand was first thinned in 1997. (Every third row) Stand was then second thinned in 2008.
3	42120 - Planted Jack Pine	High Density Sapling	10.4	16		Stand was final harvested in 1997. And was planted to red pine in 1998. Similar to most jack pine strips which were planted to red in this area...Jack pine volunteers have taken a superior role over the much of the planted red at this time anyways. Some variability with some pockets of mostly red pine, but on the whole it appears jack pine is overtopping the red. Some hardwood regen also mixed in.
4	42100 - Planted White Pine	Medium Density Log	9.2	63	51-80	White pine was row thinned in 2008 -take two leave two-with most of the hardwood cut as well. White pine overstory very scattered with a mixture of hardwood wood breaking up the pine success. Mostly hardwood regen with little to no pine regen. White pine mix of pole and logs. Pockets of dieback in pine as well. As stand matures much of the suppressed white pine will fall out and will hardly reconizable as a plantation.
6	4110 - Sugar Maple Association	High Density Pole	4.5	82	111-140	Hardwood was thinned in 2008, was a tree length skidding job. Small ridge of average quality maple. Close to log stand overall, but still a lot of poles.
7	42220 - Natural Jack Pine	High Density Sapling	3.3	17		Stand was final harvested in 1997. Was trenched to be planted but was never planted. Came back thick to jack pine and mixed hardwood.
9	6113 - Lowland Maple	High Density Log	17.5	94	51-80	Lowland hardwood with thick hemlock-cedar and balsam pole-sap understory. Drainage runs through stand. Hummucky ground with canopy gaps created from windthrow. Variable diameters and ages as a result of decades of windthrow. Some pockets are heavier to logs and others are more close to poles. Good stand for thermal cover.
11	4112 - Maple, Beech, Cherry Association	High Density Log	27.2	95	81-110	Stand was thinned in 2008, was a tree length skidding job. Good quality red maple dominant hardwood with scattered sugar maple throughout. Fir and hemlock understory in south end. Hummucky ground. Quality increases and density on east half. West tip of stand has much lower BA.
12	4112 - Maple, Beech, Cherry Association	High Density Log	13.9	92	81-110	Stand was thinned in 2008, was a tree length skidding job. Good quality red maple- cherry stand mixed with hard maple. Some steep slopes on north border.
13	4130 - Aspen	High Density Sapling	16.4	7		Stand was final harvested in 2007. All cedar and hemlock was left. Mix of red maple/cherry and aspen has come back. (Heavier to aspen) Small less then a acre of log maple-cherry was in the north border of stand.
14	42110 - Planted Red Pine	High Density Pole	4.9	52	141-170	Pine was third row thinned in 2008. Decent quality red pine. Limited to no understory, except for a few beech and balsam fir.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
15	6128 - Lowland Coniferous, Mixed Deciduous	High Density Log	24.7	135	111-140	Variable mixed lowland hardwood and aspen with very thick hemlock and cedar understory/overstory. Some areas the hardwood is more in the overstory and others hemlock and cedar are primarily in the overstory. Overtime conifer component will increase. Blowdown has created some gaps and pockets of new growth. Significant creek runs through stand. Unique stand as a result of the amount and quality of the hemlock.
16	4136 - Aspen, Mixed Conifer	High Density Log	7.7	65	51-80	Variable semi upland mix of red maple, fir, and aspen. Variable diameters. Hummucky ground which is close to lowland in spots. Blowdown throughout. Thick fir understory. Some overmature aspen likely hollow. Very mixed stand.
17	4139 - Aspen, Mixed Deciduous	High Density Sapling	16.9	5		Stand was final harvested in winter of 2009. Any Hemlock was left. (2 inch spec cut) Stand is in three separate spots. Regenerated back to aspen hardwood mix. Scattered hemlock still standing. Some spots are heavier to aspen, while others are cherry and red maple.
18	6119 - Mixed Lowland Deciduous Forest	High Density Pole	4.0	69		Small lowland complex. Seasonally flooded with much of the ash flooded out.
19	4112 - Maple, Beech, Cherry Association	High Density Log	26.3	85	111-140	Central portion of stand was marked thinning in 2009. Mixed red maple cherry mix. Similar composition hardwood are found in this region, unique to see this much cherry, Semi lowland in spots although mostly upland ridge, Very hummucky ground.
20	6117 - Lowland Deciduous, Mixed Coniferous	High Density Log	52.6	97	51-80	Lowland hardwood complex, with hemlock and cedar component. Small drainages and seeps run through stand. Significant stream in portions of stand.
21	6117 - Lowland Deciduous, Mixed Coniferous	High Density Pole	27.4	75	81-110	Lowland hardwood with mix of conifer and scattered log white pine. Mostly lowland but some areas likely dry up in the summer in this stand. Variable diameters,
22	4112 - Maple, Beech, Cherry Association	High Density Log	4.5	98	81-110	Small ridge of large log red maple. Balsam fir mixed in on south end. Private to north, Wet pocket far west end as well,
23	4112 - Maple, Beech, Cherry Association	High Density Log	4.8	95	141-170	Small sliver of hardwood landlocked by private. Stand has been reviewed by Site Condition Forester on 1-6-11 and determined to be too small and not commercial desired for management as a result of difficult access.
24	4112 - Maple, Beech, Cherry Association	High Density Log	6.9	95	81-110	Stand was marked thinning in 2006. Sale was sold out of TC office and majority of sale was in Manistee County. Good red maple- cherry upland stand.
25	4110 - Sugar Maple Association	Medium Density Log	55.5	88	51-80	Stand was originally thinned in 1999. (Orange marked) Over a long stretch of 2009 all Maple and Balsam was cut 4 inches and up. South of pipeline was cut a few months before north of pipeline. Very unique stand. Left with mature log cherry overstory some of which is dieing. Red maple, beech, cherry and some balsam filling in understory. Hemlock scattered in by well pad. A few low spots on edge of stand.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
26	6121 - Tamarack	High Density Pole	18.6	81	51-80	Mix of pole- log tamarack with red maple, cedar, and a few spruce. Balsam fir and cedar understory. Wet hummucky ground, with some blowdown. Better quality and larger diameter then tamarack to south.
27	4112 - Maple, Beech, Cherry Association	High Density Sapling	4.7	8		Stand was final harvested in 2006. All yelow birch and hemlock were left. Came back well to red maple and cherry well. A couple beech as well. Red maple sprouts and cherry filled into the gaps.
29	6117 - Lowland Deciduous, Mixed Coniferous	High Density Pole	54.5	Uneven Age	1-50	Larger lowland hardwood complex, with cedar. Variable red maple with mix of cedar, fir, birch, ash, hemlock and scattered white pine. Variable with variable densitys and structure. Some pockets of suprising cedar regen. No sign of deer at all in the winter.
30	4112 - Maple, Beech, Cherry Association	High Density Log	12.0	94	111-140	Ridge of red maple with beech, balsam, white pine understory. A few hemlock and cedar. Mostly upland although lowland on edges. Isolated ridge. One of the ridges is a isloated island in the middle of the lowland complex.
32	4112 - Maple, Beech, Cherry Association	High Density Pole	11.5	76	81-110	Small sliver of pole-log hardwood left among older final harvests on either end. Small aspen clone in stand. Heavy to red maple with many stump sprout origin stems. Beech does not have scale.
34	4119 - Mixed Northern Hardwoods	High Density Log	1.6	88	81-110	Small side slope of mature hardwood and a few aspen. Stand was missed from beeing cut in stand to south as a result of slope. A few hemlock in stand.
36	4130 - Aspen	High Density Sapling	25.6	16		Stand was final harvested in 1998. Regenerated well back to aspen and maple. County road goes though stand. A couple sugar maple were left from 98 cut scattered. Appears stand was a hardwood stand prior to cut in 1998.
37	6124 - Lowland Spruce- Fir	High Density Pole	35.2	68		Mixed spruce/ fir stand with scattered white pine, cedar, red maple. Hummucky ground.
38	6128 - Lowland Coniferous, Mixed Deciduous	High Density Pole	301.2	110		Large variable mixed lowland complex. Pockets of dense cedar. Followed by lowland hardwood pole with cedar component. Very mixed lowland stand. Wet hummucky ground . Variable diameters and density. Windthrow other the years has created pockets of regen in some areas. Very wet ground which does not appear to support larger trees. Creek runs through southern end of stand, seeps and standing water can be found throughout stand.
39	6121 - Tamarack	High Density Pole	72.7	69	51-80	Lowland tamarack with cedar understory. Hummucky ground with significant blowdown. Scattered log white pine. Small mix of red maple and black ash. Pole size timber. Tag, cedar and fir understory.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
41	4130 - Aspen	High Density Pole	127.1	36		Stand was final harvested in 1978. Somewhat variable but aspen dominates stand with some pockets of hardwood scattered in stand. Mostly upland although west borders a swamp and has some lowland character. Two small seasonal drainages also cross the stand from east to west. In the north spot it has made the old logging road too wet to cross. Balsam fir also mixed in along the swamp edge and in the low seasonal drainages. Some hardwood coming in under the aspen. Not the best quality aspen.
42	6117 - Lowland Deciduous, Mixed Coniferous	High Density Pole	7.2	75	51-80	Mixed semi lowerland drainage that splits hardwood stand. Mix of aspen, fir, lowland hardwood and some hemlock. Seasonally flooded.
45	4110 - Sugar Maple Association	Medium Density Log	109.6	93	51-80	Stand was just acquired since the last time the compartment was inventoried. Hardwood was last thinned in the early 2000's. At this time small and larger canopy gaps were created to encourage aspen regen, while other portions of the stand was thinned more traditionally. The result is a two aged stand created from when the stand was last thinned. Rolling terrain. Southern end is lower quality and where much of the gaps were created. North end is where the better quality and larger diameter hardwood is present.
46	4112 - Maple, Beech, Cherry Association	High Density Log	9.1	89	51-80	Stand was marked thinning in 2012, shortwood operation with all aspen and ironwood also cut. Mix of poles and logs. Medium to poor quality hardwood. Better quality on north end.
47	4110 - Sugar Maple Association	High Density Sapling	3.8	2		Hardwood stand was final harvested in 2012 along with the hardwood thinning. Widely scattered white ash and basswood were left. Will serve as future snags. Still a little early to monitor regen.
48	42110 - Planted Red Pine	High Density Pole	16.1	52	141-170	Stand was first thinned in 2007. (Third row thinning). Fairly good quality plantation.
49	6117 - Lowland Deciduous, Mixed Coniferous	High Density Pole	31.6	86	81-110	Lowland hardwood with cedar hemlock component mostly in understory. Some fir mixed in as well as black ash which is mostly dead. Pole-log hardwood.
50	42100 - Planted White Pine	High Density Log	5.2	52	111-140	Plantation white pine. Variable density, with a few huge maple scattered in. Limited to no understory. Open grown limy pine for most part. Rows are not really visible at this point.
52	4116 - Mixed N. Hardwood - Aspen	High Density Pole	6.0	62	51-80	Semi lowerland stand which has been avoided in recent hardwood thinnings. Stand is in a small valley between the hardwood. Standing water in the spring in spots, appears to dry out in summer. Overmature aspen scattered which is being replaced by better quality pole red maple. Scattered cherry, white pine and ash.
53	4112 - Maple, Beech, Cherry Association	Low Density Pole	16.3	65	1-50	Old opening which has slowly filled in with cherry, maple, fir and a few hemlock. Scattered white pine, witch hazel, and cherry in understory. Open stand. Has filled in enough to be called forested stand at this point,



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
54	4191 - Mixed Upland Deciduous with Conifer	High Density Log	10.6	75	51-80	Mix of hardwood, aspen and planted white pine. Portion of stand was thinned in 2007, with the white pine being row thinned (take two leave two) and all aspen, cherry and red maple was spec cut. Small portion of west was missed with this treatment. As a result small mature aspen clone was left in west end (2 acres). Too small now to go after commercially. Log-Pole mix overall, close to pole stand.
55	4110 - Sugar Maple Association	High Density Log	41.4	95	51-80	Stand was last thinned in 2012, all aspen and ironwood was spec cut as well as marked trees. Decent quality hardwood with quality increasing on the south end. Hilly Terrain. Limited understory at this time.
56	42260 - Natural Pine, Mixed Deciduous	High Density Pole	2.3	36	51-80	Stand was final harvested in 1978 along with the aspen. This stand came back to mostly white pine naturally.
57	4110 - Sugar Maple Association	High Density Log	14.7	95	111-140	Newly acquired by State of Michigan since the last inventory. Medium to lower quality hardwoods with "Game Ranch" fence surrounding most of the stand. Nothside of stand is fairly steep down to fence, with scattered overmature aspen scattered in stand.
58	4112 - Maple, Beech, Cherry Association	High Density Sapling	3.2	17		Stand was final harvested in 1997. Regenerated to cherry with some red maple mixed in. Scattered pine and balsam fir were left. Hummucky ground. Was a small piece of hardwood prior to harvest from looking at the old notes.
59	4112 - Maple, Beech, Cherry Association	High Density Sapling	5.3	7		Stand was final harvested in 2007. A few white pine were left along with all maple less than 4 dbh. Results in two aged stand. Advanced regen and recent growth from 2007 cut. Came back to mostly red maple with a little aspen and cherry.
60	4130 - Aspen	High Density Pole	33.6	36		Stand was final harvested in 1978, by Pugsley Immatures. (Appears all white pine logs were cut at this time.) Came back to mostly aspen with a few hardwood and a few scattered white pine. Some older aspen clones scattered in.
62	4112 - Maple, Beech, Cherry Association	High Density Log	22.8	95	81-110	Stand was last thinned in 1997. (Orange Marked) Medium to good quality hardwood. Mostly log stems left, not too much poles left. Thick understory from last cut. Hemlock component in east end. Mostly upland although it gets a little wet by the east border. Good rich site.
63	4130 - Aspen	High Density Log	6.5	75		Isolated stand of over mature log aspen, with maple poles and saps filling in the understory. West border of stand is separated by the hardwood with wet drainage. (Drainage about 50 to 70 feet across) Aspen is already falling apart and likely not sound at this point. Stand will slowly convert to hardwood.
64	4130 - Aspen	High Density Sapling	15.1	17		Stand was final harvested in 1997. Came back well to aspen with some cherry and red maple. A few pine left scattered. Small buffer was left along the pine in the southeast border of stand.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
65	42110 - Planted Red Pine	High Density Pole	10.7	52	141-170	Records indicate this portion of the plantation failed for some reason. As a result rows are difficult to see in spots (mostly in the northwestern portion). Stand has not yet been thinned. Mostly stubby red pine where it failed.
69	4130 - Aspen	High Density Pole	36.9	51		Variable aspen stand. With some older clones scattered in. Thick hardwood understory throughout most of stand. Scattered log maple as well as scattered log white pine. Close to log stand.
70	42110 - Planted Red Pine	High Density Log	68.6	58	141-170	Red pine strips which were row thinned in 1997. (Every Third Row) Strips were then second thinned in 2007. Good height and quality for the most part. One pocket of dieback less than an acre. No understory.
71	4110 - Sugar Maple Association	Medium Density Log	2.1	99	51-80	Small piece of log hardwood that was planted around over the years and avoided.
72	42140 - Planted Mixed Pine	High Density Sapling	61.6	16		Jack Pine strips were final harvested in 1997. They were then planted to red pine in 1998. Jack pine volunteers came up with the red pine seedlings. A few spots of hardwood regen were planted around as well. Some cherry was left standing when stand was final harvested. Stand is currently a variable mix of jack and red. Jack appears to have the upper hand and has overtopped red in most spots. A handful of sugar maple legacy type trees are also present.
73	42110 - Planted Red Pine	High Density Pole	38.5	52	141-170	Red pine plantation was third row thinned in 1997. Good overall quality. Stand appears in good health.
75	4130 - Aspen	High Density Log	6.9	68		Aspen stand with hardwood and white pine component. Fairly thick hardwood understory. Aspen will convert to hardwood without management on this site. Private on north and west border.
76	4112 - Maple, Beech, Cherry Association	High Density Log	16.2	98	81-110	Stand was thinned in 1997. (Orange Marked) Scattered aspen in the north border of stand. (was left out of thinning) Decent quality with thick regeneration from 1997 thinning. Crowns still have a good amount of spacing.
78	4110 - Sugar Maple Association	High Density Log	22.5	98	81-110	Stand was marked thinning in 2012, was a shortwood operation. Pipeline splits stand. Hilly terrain. Significant ash component which has EAB and is dead and dying. Still sound in spring of 2014. Mostly upland although a few seeps and wet pockets are scattered in north end. A few areas were too steep for equipment. Pocket of hemlock in north end, was avoided with last sale.
79	6115 - Lowland Ash	High Density Pole	9.9	62	51-80	Lowland small pole ash with mix of hardwood and hemlock. Very wet stand with many seeps and standing water. Private to north. Too wet to grow larger diameter trees.
80	42110 - Planted Red Pine	High Density Log	8.6	54	171-200	Red pine plantation was third row thinned in 1997. Stand was second thinned in 2007. (Marked thinning)



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
82	6131 - Hemlock, White Pine, Maple, Birch	High Density Log	7.4	140	141-170	Mixed buffer of hemlock and large log hardwood along mostly the east edge of Fletcher creek. Some very nice hemlock stems scattered in. Feeder stream also cuts through stand. Unique stand not suitable for management based on proximity to stream and old growth character.
83	4119 - Mixed Northern Hardwoods	High Density Log	29.9	93	81-110	Mixed variable hardwood with small creeks and seeps throughout. A upland stand, but seeps give it lowland character in spots. Lowland seeps come and go, with larger creek valley in the middle of stand. (These are feeder creeks that lead to Fletcher Creek) North end of stand is more of a pole stand while southern end is heavy to logs. Far north end is a small aspen clone too small to map.
84	4130 - Aspen	High Density Log	15.6	63		Log aspen stand with thick hardwood understory. Some hardwood also mixed in overstory. East border of stand along private is more open with a couple large sugar maple scattered.
85	42110 - Planted Red Pine	High Density Pole	4.6	52	141-170	Small pine plantation was third row thinned in 2007. Could use thinning to remove poor formed stems.
86	4110 - Sugar Maple Association	High Density Log	9.4	110	81-110	Small area of large Maple and Cherry which has been unable to be logged in recent decades it appears. Stand has some old growth character. Very nice maple and cherry logs. The west end of stand is on the steep side slope, while the east is on the flat before Flecher Creek. Flecher creek runs on the east border of stand.
87	4110 - Sugar Maple Association	High Density Log	133.8	95	81-110	Large hardwood stand was thinned at separate times in 1998 and 1999. No records of stand being thinned prior to that. A few scattered mature aspen clones in stand. Significant variability in pockets, with a few areas which appear to have been opened up as regen gaps years ago prior to the late 90's cuts. Decent quality sugar maple for area. Most of the quality in stand is found in the north and west. Old two tracks and logging roads throughout. Mostly level terrain although a few valleys and small hills,
89	4110 - Sugar Maple Association	High Density Log	17.1	92	81-110	Stand was thinned in 1996. (Orange marked thinning)Hilly rolling terrain. Ash all dead or dieing at this point. Two aged hardwood with even age overstory and sapling understory created from 1996 cut.
90	4119 - Mixed Northern Hardwoods	High Density Log	8.9	88	111-140	Middle quality to lower end log-pole hardwood with small creek running through the middle of stand. Log aspen clone in stand as well. Variable log overstory with pole- sap hardwood filling in the old gaps.
91	4110 - Sugar Maple Association	High Density Log	15.1	84	111-140	Log-pole medium quality hardwood. Was recently aquired as state land. Hilly on south border of stand otherwise flat. Ash has EAB and is dead or dieing. West border of stand is lower density and quality. If stand is thinned this west portion of lower quality and density should be left out of sale.
92	4130 - Aspen	High Density Pole	2.7	33		Stand was final harvested in 1981. Came back well to aspen. Small stand. Private on south border.

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Cadillac Mgt. Unit

Report 8 – Forested Stands

Compartment: 062  
Year of Entry: 2016



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
93	4110 - Sugar Maple Association	High Density Log	16.0	94	81-110	Hardwood was recently acquired by State. Stand was thinned heavily within that last ten years or so it appears. Hilly on the north border of the stand down to 8 road. Old skid roads throughout with a thick understory created from last thinning. Plenty of room for remaining crop trees, limited crown competition.



Stand	Cover Type	Acres	Managed Site	Management Priority (Objective)	General Comments:
1	330 - Low-Density Trees	1.0	Unspecified	Unspecified	
5	310 - Herbaceous Openland	1.6	No	Unspecified	
8	310 - Herbaceous Openland	2.4	Unspecified	Unspecified	
10	310 - Herbaceous Openland	1.7	No	Unspecified	
28	310 - Herbaceous Openland	2.7	No	Unspecified	Well Site. Active with some infrastructure.
31	310 - Herbaceous Openland	1.9	No	Unspecified	Unactive well, no infrastructure on pad. Appears nothing is taking place here any longer.
33	310 - Herbaceous Openland	2.1	Unspecified	Unspecified	Unactive well, no infrastructure on pad. Appears nothing is taking place here any longer.
35	330 - Low-Density Trees	5.7	Unspecified	Unspecified	Opening with a few scattered cherry.
40	330 - Low-Density Trees	1.4	Unspecified	Unspecified	
43	310 - Herbaceous Openland	2.4	Unspecified	Unspecified	Unactive well, no infrastructure on pad. Appears nothing is taking place here any longer.
44	330 - Low-Density Trees	28.9	No	Unspecified	Stand was final harvested in 1978, and came back to a open cover type. Mostly cherry although a few small clones of aspen as well. Filling in over time.
51	310 - Herbaceous Openland	2.5	No	Unspecified	Old well site , old powerline leads from road to this location for unknown reason.
61	310 - Herbaceous Openland	3.1	Unspecified	Unspecified	Active Well Site
66	310 - Herbaceous Openland	4.6	No	Unspecified	Underground pipeline.
67	622 - Lowland Shrub	1.5	Unspecified	Unspecified	
68	310 - Herbaceous Openland	2.0	Unspecified	Unspecified	Active Well Site. Infrastructure on pad. Strong smell by pad.
74	330 - Low-Density Trees	12.2	No	Unspecified	Scattered white/jack pine and cherry. Clumps of pine slowly filling in this opening. Scattered pockets of natural red pine regen as well. One small pole aspen clone as well.



Stand	Cover Type	Acres	Managed Site	Management Priority (Objective)	General Comments:
77	310 - Herbaceous Openland	1.0	Unspecified	Unspecified	
81	310 - Herbaceous Openland	0.9	No	Unspecified	Small opening. Good spot for future landing.
88	310 - Herbaceous Openland	5.2	No	Unspecified	Pipeline Line. Flecher creek cuts through stand. Is wet in spots.