



# Compartment Review Presentation

Sault Ste. Marie Forest Management Unit

Compartment 45194

Entry Year 2024

Acreage: 1,619

County Mackinac

Management Area: St. Ignace Lake Plain

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**Stand Examiner:** Jennifer Burnham

## Legal Description:

T42N-R12W, Section 28, 33 and 34 and T41N-R12W, Sections 3 & 4

## Identified Planning Goals:

The management of this compartment will be to improve the timber quality and regeneration within the compartment while providing ample wildlife cover and wildlife favorable timber species. The compartment lies within the center of a high deer use winter yarding area (Batty Doe Lake Deeryard). A conifer component will be maintained in hardwood stands that are managed. Wildlife favorable species such as yellow birch and black cherry will also be retained within these hardwood stands.

## Soil and topography:

The topography of the compartment is primarily level ground. Low-lying wet ground with slightly higher dry ground. The southern most portion of the compartment lies below the "bluff" created by the Niagra escarpment. The soils present within the compartment are as follows: Markey and Carbondale Mucks, Springlake, Heinz sandy loam, Angellica Muck, Greylock sandy loam, Mattix sandy loam, Guardlake fine sandy loam, Spot-Finch complex, Leafriver mucky peat, Kalkaska sand, Iosco sand, Paquin-Finch, and Eastport-Leafriver.

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

The entire land base within the compartment boundaries is under State of Michigan ownership. Bordering the west side of the compartment is a private hunt club. To the north of Section 34 is a private 40 used as a camp. The remaining adjacent land surrounding the compartment is under the ownership of the State of Michigan. Within the vicinity of the compartment are large parcels of land owned by Mead Westvaco which are managed for timber production.

## Unique Natural Features:

Potential for Red Shouldered Hawk and Goshawk in mature northern hardwoods. Potential for various T&E plant species. Swan Marsh lies within the compartment.

## Archeological, Historical, and Cultural Features:

Some of the grass openings within the compartment show evidence of old building foundations.

## Special Management Designations or Considerations:

Cedar stands will be left alone due to the location of the compartment in a deeryard area. A conifer component will be maintained within the hardwood stands that are managed.

## Watershed and Fisheries Considerations:

This compartment contains Swan Marsh, Swan Creek, and Seiners Creek. Swan Creek and Seiners Creek are non-designated streams less than 50' width. 100' plus 5' per 1% increase in slope; buffers are recommended for Swan Lake, Swan Creek, and Seiners Creek to protect shoreline and riparian areas in accordance with Best Management Practices.

## Wildlife Habitat Considerations:

Compartment 194 lies within the Battydoe Deer Yard Management Area where featured wildlife species include red-shouldered hawk, ruffed grouse, snowshoe hare, and white-tailed deer. It is part of the Battydoe deer wintering complex for white-tailed deer. Forest types are dominated by northern hardwoods in uplands and lowland conifers, particularly cedar swamp, in low areas. Management has focused on diversifying hardwood stands through thinnings and related treatments that encourage young growth, and maintaining cover in cedar swamps. Swan Lake is located in the southwest corner less than a mile from the Lake Michigan shoreline. This compartment will continue to be managed to provide the important wintering complex components necessary for deer as well as other wildlife. Critical wintering cover provided by cedar and other lowland conifer stands will be maintained or promoted. Species, age class, and structural diversity will be promoted in northern hardwood stands by treating some stands to encourage new growth for deer and ruffed grouse. Sugar maple is not recruiting well here following normal thinnings and a special treatment is planned to attempt to improve maple recruitment to maintain diversity. Harvests will take place during the winter months, allowing tops to be available as browse. Other stands will be left this entry, encouraging use by red-shouldered hawks and other wildlife favoring more closed canopy structure. Conifers are limited in most hardwood stands and will be maintained where limited to encourage

diversity; cedar and hemlock will be left where they occur in stands. Species diversity will also be maintained by leaving under-represented species in the stands where possible. Additional species benefitting from management here include snowshoe hare, black bear, bobcat, coyote, and numerous bird species.

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

Sections 28 & 33-34, T42N-R12W, Mackinac County. No known potential exists for commercial oil & gas production in this part of the state, and there is no known metallic mineral potential in this area. No active sand/gravel pits occur in the area, and potential for development of sand & gravel within the compartment may be limited. Bedrock is near the surface in this area. High-purity dolomite is currently mined at Carmeuse's southern Port Inland Quarry approximately three miles to the southwest. An area three miles east of the compartment was also tested for limestone/dolostone potential by Bethlehem Steel in the past. While there is potential for this same mineral resource beneath the compartment, development of a new quarry here in the near future is unlikely.

### **Vehicle Access:**

Primary access is now MacDonald Lake Road in Schoolcraft County due to increased ownership of Limestone company and the expansion of the quarry. Batty Doe Lake Road which runs east and west through the middle of the compartment can still be accessed from Gould City Road on the east side. The Buckeye Road begins in Section 34 and runs north out of the compartment. Other access to the compartment is via trail roads running into various parts of the compartment from the Batty Doe Lake Road. Any new roads constructed for management purposes will be blocked to vehicle traffic once the sale is complete.

### **Survey Needs:**

No new survey projects are required for this compartment with adequate corners present.

### **Recreational Facilities and Opportunities:**

The primary form of recreation is hunting for a variety of animals, primarily deer, bear, and small game. Some trapping and berry picking also occurs within the compartment. ORV use is fairly prevalent along the trail roads in the compartment. There is some evidence of illegal ORV use relating to deer hunting. Snowmobile use is limited.

### **Fire Protection:**

Fire protection is not a major concern due to the amount of low ground timber types and the high component of hardwoods stands in the compartment. Most areas of the compartment have reasonable access for fire protection.

### **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**

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

Sault Ste. Marie Mgt. Unit  
Jennifer Burnham : Examiner

Compartment 194 Year of Entry 2024



## 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	0	16	32	17	0	0	12	0	0	0	0	0	0	0	0	0	0	77
Cedar	0	0	0	0	0	0	0	0	0	0	0	25	0	8	139	64	90	0	326
Herbaceous Openland	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8
Low-Density Trees	63	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	63
Lowland Conifers	0	0	42	0	36	0	0	0	0	0	0	0	0	0	0	0	0	0	78
Lowland Deciduous	0	0	0	0	16	0	0	0	0	0	0	0	0	0	0	0	0	0	16
Lowland Mixed Forest	0	0	0	0	0	0	0	0	0	0	0	35	0	0	0	0	0	0	35
Lowland Shrub	38	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	38
Mixed Upland Deciduous	0	0	24	0	49	0	0	0	36	0	7	0	0	0	0	0	0	0	116
Northern Hardwood	0	0	49	0	15	12	0	22	47	83	460	45	0	0	0	32	0	0	764
Paper Birch	0	0	13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	13
Sand, Soil	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Upland Mixed Forest	0	0	0	0	0	23	0	0	0	30	0	0	0	0	0	0	0	0	52
Upland Spruce/Fir	0	0	0	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	4
Water	31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	31
<b>Total</b>	<b>141</b>	<b>0</b>	<b>144</b>	<b>32</b>	<b>133</b>	<b>39</b>	<b>0</b>	<b>34</b>	<b>83</b>	<b>113</b>	<b>467</b>	<b>105</b>	<b>0</b>	<b>8</b>	<b>139</b>	<b>96</b>	<b>90</b>	<b>0</b>	<b>1622</b>



## Report 2 – Treatment Summary

Sault Ste. Marie Mgt. Unit  
Year of Entry: 2024

Acres of Harvest

Compartment 194  
Total Compartment Acres: 1,619

Commercial Harvest - 120  
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	12	0	0	0	0	0	0	0	0	12
Mixed Upland Deciduous	36	0	0	0	0	0	0	0	0	36
Northern Hardwood	0	0	0	0	73	0	0	0	0	73
<b>Total</b>	<b>47</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>73</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>121</b>

### Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	121	0	0	16	0	6	175	0	0	317
Next Step	0	0	16	0	0	0	248	0	0	264
<b>Total</b>	<b>121</b>	<b>0</b>	<b>16</b>	<b>16</b>	<b>0</b>	<b>6</b>	<b>422</b>	<b>0</b>	<b>0</b>	<b>580</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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**Approved Treatments:**

<b>6</b>	<b>45194006-Seed</b>	16.0	4139 - Aspen, Mixed Deciduous	Sapling Medium	16	1-50	Seeding	Machine Seed	429 - Mixed Upland Conifers	Even-Aged	No
<p><u>Prescription</u> Use ATV or snowmobile to spread seed.  <u>Specs:</u>  <u>Next Step</u> Monitoring, Natural Regen (Intermediate); Monitoring, Natural Regen (Intermediate); Planting, Unfurrowed; Monitoring, Artificial  <u>Treatments:</u> Regen(1yr)  <u>Acceptable</u> Jack pine, white spruce aspen, maple, other deciduous and conifer species.  <u>Regen:</u>  <u>Other</u> Percent to Treat = 100%  <u>Comment:</u>  <u>Site Condition</u>  <u>Proposed Start Date:</u> 10/1 /2022</p>											
<b>13</b>	<b>45194013-Cut</b>	25.4	4110 - Sugar Maple Association	Sawtimber Well	82	81-110	Harvest	Shelterwood	411 - Northern Hardwood	Uneven-Aged	No
<p><u>Prescription</u> Use the MWR Shelterwood method leaving unmerchantable tops. Do not allow harvesting equipment to run over the tops. Tops are to be used to keep deer browse down.  <u>Specs:</u>  <u>Next Step</u> Monitoring, Natural Regen (Intermediate); Monitoring, Natural Regen (Re-Inventory)  <u>Treatments:</u>  <u>Acceptable</u> Hardwood species.  <u>Regen:</u>  <u>Other</u> Cut type is to help with regeneration due to heavy deer browse in the area and lack of regeneration from previous cuts in the last 10 years.  <u>Comment:</u>  <u>Site Condition</u>  <u>Proposed Start Date:</u> 10/1 /2023</p>											
<b>20</b>	<b>45194020-Monitor</b>	62.6	3303 - Mixed Low Density Trees	Nonstocked	0	Unspecified	Monitoring	Natural Regen (Re-Inventory)	4199 - Other Mixed Upland Deciduous	Even-Aged	No
<p><u>Prescription</u> Regeneration check in 2032  <u>Specs:</u>  <u>Next Step</u>  <u>Treatments:</u>  <u>Acceptable</u> Mix deciduous.  <u>Regen:</u>  <u>Other</u>  <u>Comment:</u>  <u>Site Condition</u>  <u>Proposed Start Date:</u> 10/1 /2023</p>											



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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
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<b>21</b>	<b>45194021-Spray</b>	5.8	310 - Herbaceous Openland	Nonstocked		Unspecified	Pesticide	Hand Application	3102 - Grass	No
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Prescription Hand application of pesticide for wild parsnip.

Specs:

Next Step Monitoring, Artificial Regen(1yr)

Treatments:

Acceptable

Regen:

Other Any mechanical treatments need to be discussed with the unit due to the sensitivity of the stand.

Comment:

Site Condition

Proposed Start Date: 10/1 /2023

<b>23</b>	<b>45194023-Cut</b>	47.8	4110 - Sugar Maple Association	Sawtimber Well	99	81-110	Harvest	Shelterwood	411 - Northern Hardwood	Uneven-Aged	No
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Prescription Use the MWR Shelterwood method leaving unmerchantable tops. Do not allow harvesting equipment to run over the tops. Tops are to be used to keep deer browse down.

Specs:

Next Step Monitoring, Natural Regen (Intermediate); Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Hardwood species

Regen:

Other Cut type is to help with regeneraiton due to heavy deer browse in the area and lack of regeneration from previous cuts in the last 10 years.

Comment:

Site Condition

Proposed Start Date: 10/1 /2023

<b>43</b>	<b>45194043-Monitor</b>	59.7	4111 - S.Maple, Hard Mast Association	Sawtimber Well	96	51-80	Monitoring	Natural Regen (Re-Inventory)	411 - Northern Hardwood	Uneven-Aged	No
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Prescription Monitor for acceptable regen and severity of deer browse.

Specs:

Next Step

Treatments:

Acceptable Northern Hardwood spp

Regen:

Other

Comment:

Site Condition

Proposed Start Date: 10/1 /2023

<b>46</b>	<b>45194046-Cut</b>	11.7	4139 - Aspen, Mixed Deciduous	Poletimber Well	69	81-110	Harvest	Clearcut	4199 - Other Mixed Upland Deciduous	Even-Aged	No
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Prescription Final harvest with no retention due to regeneration issues and small stand acreage.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Species that are present, Mackinaw mix, heavier to aspen.

Regen:

Other

Comment:

Site Condition

Proposed Start Date: 10/1 /2023



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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>50 45194050-Cut</b>	35.6	4199 - Other Mixed Upland Deciduous	Poletimber Well	75	81-110	Harvest	Clearcut with Retention	4199 - Other Mixed Upland Deciduous	Even-Aged	No
<p><u>Prescription</u> Final harvest, leaving cedar and 100 ft retention buffer around vernal pool.  <u>Specs:</u>  <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)  <u>Treatments:</u>  <u>Acceptable</u> Regeneration will be the species that are currently present.  <u>Regen:</u>  <u>Other Comment:</u>  <u>Site Condition</u>  <u>Proposed Start Date:</u> 10/1 /2023</p>										
<b>53 45194053-Monitor</b>	26.2	4112 - Maple, Beech, Cherry Association	Poletimber Well	96	81-110	Monitoring	Natural Regen (Re-Inventory)	411 - Northern Hardwood	Uneven-Aged	No
<p><u>Prescription</u> Monitor for acceptable regen and severity of deer browse.  <u>Specs:</u>  <u>Next Step</u>  <u>Treatments:</u>  <u>Acceptable</u> Northern hardwood spp  <u>Regen:</u>  <u>Other Comment:</u>  <u>Site Condition</u>  <u>Proposed Start Date:</u> 10/1 /2023</p>										
<b>63 45194063-Monitor</b>	26.0	4110 - Sugar Maple Association	Sawtimber Well	96	81-110	Monitoring	Natural Regen (Re-Inventory)	411 - Northern Hardwood	Uneven-Aged	No
<p><u>Prescription</u> Monitor for acceptable regen and severity of deer browse.  <u>Specs:</u>  <u>Next Step</u>  <u>Treatments:</u>  <u>Acceptable</u> Northern hardwood spp  <u>Regen:</u>  <u>Other Comment:</u>  <u>Site Condition</u>  <u>Proposed Start Date:</u> 10/1 /2023</p>										

**Total Treatment Acreage Proposed: 316.8**

## Report 4 – Site Conditions

Sault Ste. Marie Mgt. Unit  
Jennifer Burnham : Examiner

Compartment: 194  
Year of Entry: 2024

### Availability for Management

Total Acres	Acres Available	Acres Avail		Acres Not Available		Dominant Site Conditions							
		With Condition				5B	5C	3A	3B	3H	5E		
77	77	0		0	Aspen								
325	0	0		325	Cedar			0			324	2	
8	8	0		0	Herbaceous Openland								
63	63	0		0	Low-Density Trees								
78	49	0		29	Lowland Conifers					29			
16	16	0		0	Lowland Deciduous								
35	0	35		0	Lowland Mixed Forest		35						
38	38	0		0	Lowland Shrub								
115	108	7		0	Mixed Upland Deciduous		7	0					
764	358	391		14	Northern Hardwood	391		0	14				
13	13	0		0	Paper Birch								
1	1	0		0	Sand, Soil								
52	22	30		0	Upland Mixed Forest	30							
4	4	0		0	Upland Spruce/Fir								
31	31	0		0	Water								
1,619	787	463		369	Total Forested Acres	421	42	0	43	324	2		
	49%	29%		23%	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	5E: Long-Term Retention	2	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Retention from timber sale in stand 20.							
2	Unavailable	3H: Deer Wintering Area - habitat is incompatible with harvest at this time	324	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							



## Report 4 – Site Conditions

Sault Ste. Marie Mgt. Unit  
Jennifer Burnham : Examiner

Compartment: 194  
Year of Entry: 2024

3	<b>Available</b>	<b>5B: Maintain for regeneration purposes</b>	29	Unspecified	Unspecified	Unspecified	Unspecified
<p><b>Comments:</b> Stand needs a regeneration harvest but due to heavy deer browse issues in the area, harvests will be delayed until deer numbers decrease or experimental cutting can take place.</p>							
4	<b>Available</b>	<b>5B: Maintain for regeneration purposes</b>	50	Unspecified	Unspecified	Unspecified	Unspecified
<p><b>Comments:</b> Stand needs a regeneration harvest but due to heavy deer browse issues in the area, harvests will be delayed until deer numbers decrease or experimental cutting can take place.</p>							
5	<b>Available</b>	<b>5B: Maintain for regeneration purposes</b>	29	Unspecified	Unspecified	Unspecified	Unspecified
<p><b>Comments:</b> Stand needs a regeneration harvest but due to heavy deer browse issues in the area, harvests will be delayed until deer numbers decrease or experimental cutting can take place.</p>							
6	<b>Available</b>	<b>5B: Maintain for regeneration purposes</b>	26	Unspecified	Unspecified	Unspecified	Unspecified
<p><b>Comments:</b> Stand needs a regeneration harvest but due to heavy deer browse issues in the area, harvests will be delayed until deer numbers decrease or experimental cutting can take place.</p>							
7	<b>Available</b>	<b>5B: Maintain for regeneration purposes</b>	71	Unspecified	Unspecified	Unspecified	Unspecified
<p><b>Comments:</b> Stand needs a regeneration harvest but due to heavy deer browse issues in the area, harvests will be delayed until deer numbers decrease or experimental cutting can take place.</p>							
8	<b>Available</b>	<b>5B: Maintain for regeneration purposes</b>	32	Unspecified	Unspecified	Unspecified	Unspecified
<p><b>Comments:</b> Stand needs a regeneration harvest but due to heavy deer browse issues in the area, harvests will be delayed until deer numbers decrease or experimental cutting can take place.</p>							

## Report 4 – Site Conditions

Sault Ste. Marie Mgt. Unit  
Jennifer Burnham : Examiner

Compartment: 194  
Year of Entry: 2024

9	<b>Available</b>	<b>5B: Maintain for regeneration purposes</b>	45	Unspecified	Unspecified	Unspecified	Unspecified
<p><b>Comments:</b> Stand needs a regeneration harvest but due to heavy deer browse issues in the area, harvests will be delayed until deer numbers decrease or experimental cutting can take place.</p>							
10	<b>Available</b>	<b>5B: Maintain for regeneration purposes</b>	28	Unspecified	Unspecified	Unspecified	Unspecified
<p><b>Comments:</b> Stand needs a regeneration harvest but due to heavy deer browse issues in the area, harvests will be delayed until deer numbers decrease or experimental cutting can take place.</p>							
11	<b>Available</b>	<b>5B: Maintain for regeneration purposes</b>	22	Unspecified	Unspecified	Unspecified	Unspecified
<p><b>Comments:</b> Stand needs a regeneration harvest but due to heavy deer browse issues in the area, harvests will be delayed until deer numbers decrease or experimental cutting can take place.</p>							
12	<b>Unavailable</b>	<b>3B: Threatened, endangered, and special concern species</b>	44	Unspecified	Unspecified	Unspecified	Unspecified
<p><b>Comments:</b></p>							
13	<b>Available</b>	<b>5B: Maintain for regeneration purposes</b>	30	Unspecified	Unspecified	Unspecified	Unspecified
<p><b>Comments:</b> Stand needs a regeneration harvest but due to heavy deer browse issues in the area, harvests will be delayed until deer numbers decrease or experimental cutting can take place.</p>							
14	<b>Available</b>	<b>5B: Maintain for regeneration purposes</b>	22	Unspecified	Unspecified	Unspecified	Unspecified
<p><b>Comments:</b> Stand needs a regeneration harvest but due to heavy deer browse issues in the area, harvests will be delayed until deer numbers decrease or experimental cutting can take place.</p>							

## Report 4 – Site Conditions

Sault Ste. Marie Mgt. Unit  
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Compartment: 194  
Year of Entry: 2024

15	<b>Available</b>	<b>5C: Delay treatment for age/size class diversity or exceptional site quality</b>	7	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
16	<b>Available</b>	<b>5B: Maintain for regeneration purposes</b>	6	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
17	<b>Available</b>	<b>5C: Delay treatment for age/size class diversity or exceptional site quality</b>	35	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
18	<b>Available</b>	<b>5B: Maintain for regeneration purposes</b>	32	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.

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

Conservation Area	Type	Description
SCA	Habitat Area	An area that provide some specific need for the life cycle of wildlife species, including State Wildlife Areas and Waterfowl Production Areas, deer wintering complexes in lowland conifer communities, grassland openings and savannas. Habitat areas are distinct from critical habitat designated for recovery of endangered or threatened species (such as Kirtland's warbler or piping plover areas) in that they are more general in nature, are not primarily associated with threatened or endangered species, and are not covered by species recovery plans that are developed in cooperation with Federal agencies.
SCA	Non-Dedicated Natural Areas and National Natural Landmarks	This category is comprised of those Natural, Wilderness and Wild Areas that have been nominated or proposed for legal dedication, but for which legal dedication by legislature has not occurred. The nomination process is defined by Part 351, Wilderness and Natural Areas, of the Natural Resources and Environmental Protection Act, 1994 PA 451. The program is administered by the DNR. Nominations require the submittal of a Natural Areas Nomination Packet to the DNR. This is an active program, with proposed sites in various stages of review. Final dedication of nominated Natural, Wilderness and Wild Areas is accomplished through legislative action.
SCA	Type 1 and Type 2 Old Growth	Old-Growth forest (also termed primary forest, ancient forest, virgin forest, or primeval forest) is an area of forest that has few or no signs of human disturbance and that exhibits unique ecological features related to age, composition and associated structure. Old growth forests are of natural origin. They may be dominated by late successional forest species (i.e. sugar maple and American beech), or may be a very old example of a stand dominated by long-lived early- or mid-seral species (i.e. oak, or red pine).
HCVA	Designated Critical Habitat	Critical habitat areas are established via a consultative and cooperative process between the DNR and the U.S. Fish and Wildlife service for the recovery of threatened and endangered species, as governed by Part 365, Endangered Species Protection, of the Natural Resources and Environmental Protection Act, 1994 PA 451, and the Federal Endangered Species Act of 1973. This is an active program, with proposed species plans in various stages of review. As of now only two exist, Kirtland Warbler Habitat and Piping Plover Habitat.
HCVA	Legally dedicated Natural Areas, Wilderness or Wild Areas	The nomination process is defined by Part 351, Wilderness and Natural Areas, of the Natural Resources and Environmental Protection Act, 1994 PA 451. The program is administered by the DNR. Nominations require the submittal of a Natural Areas Nomination Packet to the DNR. This is an active program, with proposed sites in various stages of review. Final dedication of nominated Natural, Wilderness and Wild Areas is accomplished through legislative action.
ERA	Ecological Reference Areas	Ecological Reference Areas (ERAs) are high quality examples of natural communities that have been identified as Element Occurrences (EOs) by the Michigan Natural Features Inventory (MNFI) within the context of their natural community classification system. Element Occurrences with viability ranks of A (Excellent) or B (Good) and a Global (G) or State (S) element (rarity) ranking of endangered (1), threatened (2), or rare (3) serve as an initial base of ERAs. They may be located upon any ownership in the State. The system is comprised of individual or associations of natural community types that are managed for restoration and maintenance of natural ecological processes and values. The public may submit recommendations for lands as ERAs using the DNR Conservation Area Recommendation Form.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																			
<b>1</b>	4134 - Aspen, Spruce/Fir	Sapling Well	11.1	26	Unspecified	N/A	Nice aspen regeneration.																																			
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<b>2</b>	4134 - Aspen, Spruce/Fir	Poletimber Well	16.9	38	1-50	N/A	2022- Stand is now an A6 with diameters moving all to merchantable diameter class. 2014 -Real nice Aspen stand. Fairly thick conifer understory.																																			
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<b>3</b>	6120 - Lowland Cedar	Sawtimber Well	64.3	131	81-110	N/A	Some areas have more soft maple, mortality in the fir. Shallow soils allowing for blow down through out the stand. No understory through stand.																																			
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<b>4</b>	6120 - Lowland Cedar	Poletimber Well	24.7	106	81-110	N/A	A more pure cedar stand than the stand around. Some windfall in areas.																																			
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5	4119 - Mixed Northern Hardwoods	Sawtimber Well	15.0	91	51-80	N/A	2022- Beech is dead and down. Stand is almost two-aged with good diversity between the over story and the regeneration from the harvest in '84. Cut in 84 and was picked through back in the 60's with the cedar cuts. Trace amount of cedar along the east edge. 2014 - A young, upland Mackinac mix stand. Heavier towards maple and cherry.																																																				
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6	4139 - Aspen, Mixed Deciduous	Sapling Medium	16.0	16	1-50	N/A	Stand is regenerating very poorly. Scattered aspen and red maple with lots of raspberry brush. Roller chopped December 5-7 2022.																																																				
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7	4191 - Mixed Upland Deciduous with Conifer	Sapling Well	19.5	18	1-50	N/A	Stand was cut in 2005. Scatter white pine, hemlock and cedar were left.																																																				
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8	4110 - Sugar Maple Association	Sawtimber Well	5.9	71	81-110	N/A	Not sure if this stand has had treatment. No regeneration in stand but with lack of regen in other stands hesitant to thin. BA is not very high either.																																																				
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9	3102 - Grass	Nonstocked	2.2			No	Make forested and merge into stand 10? Replant with strands 10?																																																				



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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<b>10</b>	4112 - Maple, Beech, Cherry Association	Sapling Medium	13.6	16	Immature	N/A	Stand is regenerating very poorly. Scattered aspen and red maple with a high percentage of raspberry. Thinned in '82 and final harvested in 2007.			
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>		<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>
Red Maple		10	Sapling	3		Blackberry/Raspberry		High	5 - 10 feet	Tall Shrub
Black Cherry		75	Sapling	3	16					
Beech		10	Sapling	3						
Bigtooth Aspen		5	Sapling	3						

<b>11</b>	42320 - Upland Spruce	Poletimber Medium	3.9	46	1-50	N/A				
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>		<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>
White Spruce		90	Pole	8	46	Beech		Low	5 - 10 feet	Sapling
White Pine		10	Log/Pole	10		Red Maple		Low	< 5 feet	Sapling

<b>12</b>	4191 - Mixed Upland Deciduous with Conifer	Poletimber Well	19.8	39	1-50	N/A	Primarily red maple and balsam. There is a small 2 acre patch of nice aspen on the south end.		
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>				
White Spruce		10	Pole/Sapling	5					
Bigtooth Aspen		5	Pole/Sapling	5					
Ironwood		5	Sapling	4					
Red Maple		20	Sapling/Pole	4	39				
Yellow Birch		5	Sapling/Pole	4					
Black Cherry		5	Sapling/Pole	4					
Paper Birch		10	Sapling	3					
Quaking Aspen		15	Pole/Sapling	5					
Balsam Fir		25	Pole/Sapling	5	39				

<b>13</b>	4110 - Sugar Maple Association	Sawtimber Well	25.4	82	81-110	N/A	Stand was thinned in 2008. Very little regen. Lots of raspberry.			
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>		<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>
Sugar Maple		80	Log/Pole	12	82	Blackberry/Raspberry		Medium	5 - 10 feet	Tall Shrub
Balsam Fir		10	Pole	7						
Balsam Fir		5	Log/Pole	10						
Ironwood		5	Pole	7						

<b>14</b>	6120 - Lowland Cedar	Poletimber Well	63.9	144	81-110	N/A	There are areas where the cedar are 6-8 DBH and the quality is good. The larger DBH cedar is of poor quality and not as dense. Areas of more tag alder has the wet ground and lower BA. Stand was harvested through in the 60's and 70's. All species, except for cedar are in decline.(2012) Nice, dense cedar stand. Looks to be pretty wet at times. Not much deer sign now but pretty heavily browsed in the past.			
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>		<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>
Paper Birch		5	Pole	8		Tag Alder		Low	Variable	Tall Shrub
Black Spruce		5	Pole	7		Balsam Fir		Low	5 - 10 feet	Sapling
Northern White Cedar		75	Pole	9	144					
Black Ash		5	Pole/Sapling	6						
Balsam Fir		10	Pole	6						





Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																
15	4116 - Mixed N. Hardwood - Aspen	Sapling Well	6.2	15	1-50	N/A	Stand was cut in 2008. There is regeneration but could be better. Should become fully stocked by next rotation.																																																
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16	4110 - Sugar Maple Association	Poletimber Well	19.0	73	51-80	N/A	(2012) Poorer quality sugar maple stand. Heavily browsed. Look at cutting in ten years.																																																
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17	4119 - Mixed Northern Hardwoods	Poletimber Well	22.1	77	81-110	N/A	Beech is almost completely gone from the stand. A poorer quality sugar maple stand. Balsam understory quite heavy in places.																																																
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18	4191 - Mixed Upland Deciduous with Conifer	Poletimber Well	7.3	90	51-80	N/A	Wait 10 years to harvest, when adjacent stands have regenerated.																																																
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19	4110 - Sugar Maple Association	Poletimber Well	32.3	92	81-110	N/A	Stand is very open and lacks regeneration. Harvest to promote stand species and age diversity.																																																
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20	3303 - Mixed Low Density Trees	Nonstocked	62.6	0	Unspecified	4319 - Mixed Upland Forest	Harvest completed in late winter. Old Oil Can Mix-45-114-14. Some cedar remains as leave trees. Will need to check for regeneration during next inventory cycle.																																																



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																					
21	310 - Herbaceous Openland	Nonstocked	5.8		Unspecified	No																																						
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22	4140 - Other Upland Deciduous	Sapling Medium	12.8	16	Unspecified	N/A	2014- Stand was cut in 2007. Regen is not doing as good as expected. Heavy deer activity. Tons of raspberry.																																					
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23	4110 - Sugar Maple Association	Sawtimber Well	47.8	99	81-110	N/A	2014- Stand was cut in 1998. Look at harvesting again in ten years. Not much regen. Heavy raspberry in places.																																					
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24	4319 - Mixed Upland Forest	Sapling Well	22.5	48	1-50	N/A	(2012) Mackinac mix stand. Right on the verge between sapling and pole. More conifer in the eastern part of the stand.																																					
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25	4319 - Mixed Upland Forest	Poletimber Well	29.6	82	51-80	N/A	Harvest to promote regeneration. If no harvest occurs, stand will continue with poor quality and declining basal area. Conifer looking area on the aerial photo contains the majority of the balsam fir. There are some cedar, mainly along the edge that follows stand 14.																																					
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments	
<b>26</b>	4112 - Maple, Beech, Cherry Association	Sawtimber Well	73.4	96	111-140	N/A	This is part of stand 43 that was not thinned. (2012) Portion of this stand were thinned last entry. They are not regenerating very good. Lots of raspberry and some beech. Thin the areas that weren't last time.	
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>		
Paper Birch		5	Pole	6		Beech		
Balsam Fir		2	Pole	6		Red Maple		
Hemlock		3	Log	12		Sugar Maple		
Sugar Maple		65	Log/Pole	10	96			
Beech		5	Log	12				
Black Cherry		5	Pole	9				
Red Maple		10	Log/Pole	10				
Bigtooth Aspen		5	Log/Pole	12				
<b>27</b>	4119 - Mixed Northern Hardwoods	Poletimber Well	22.0	64	51-80	N/A	Stand is not old but mortality and blow down are reducing the BA. Beech has died out and saplings are of poor quality fir and maple.	
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>		
Paper Birch		10	Pole	5		Maple (spp.)		
Balsam Fir		10	Pole/Sapling	5		Balsam Fir		
White Spruce		5	Log	10				
Ironwood		5	Pole/Sapling	7				
Sugar Maple		25	Log/Pole	10				
Red Maple		45	Pole/Log	9	64			
<b>28</b>	6120 - Lowland Cedar	Poletimber Well	42.6	138	81-110	N/A	(2012) Very wet cedar stand, signs of heavy deer use.	
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>		
Paper Birch		5	Pole	8		Tag Alder		
Northern White Cedar		75	Pole	8	138	Balsam Fir		
Balsam Fir		5	Pole	6				
Yellow Birch		5	Pole	8				
Red Maple		10	Pole	8				
<b>30</b>	6124 - Lowland Spruce-Fir	Sapling Well	35.7	38		N/A	(2012) Younger Mackinac mix stand. It was cut in 1985. Some larger cedar and pockets of cedar were left. Stand shows signs of heavy deer use.	
<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	3		Balsam Fir		
Paper Birch		10	Sapling	3				
Balsam Fir		30	Sapling	3	38			
White Spruce		25	Sapling	3				
Northern White Cedar		20	Pole	7				



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<b>31</b>	4119 - Mixed Northern Hardwoods	Poletimber Well	27.5	97	81-110	N/A	(2012) Stand was thinned in 1998. What remains is a mix of poorer quality red maple, sugar maple, yellow birch and balsam. Look at thinning again in ten years. Heavy deer use.																																		
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<b>32</b>	6120 - Lowland Cedar	Poletimber Well	37.3	165	81-110	N/A	(2012) More of pure cedar stand than the stand to the west. Extremely wet.																																		
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<b>33</b>	4119 - Mixed Northern Hardwoods	Poletimber Well	11.8	46	1-50	N/A	(2022) Stand is starting to have some merchantable stems. (2012) Young Mackinac mix stand. Mainly balsam and sugar maple.																																		
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<b>34</b>	500 - Water	Nonstocked	30.7			No																																			
<b>35</b>	622 - Lowland Shrub	Nonstocked	38.1		Unspecified	No	Low surrounding Swan Marsh.																																		
<b>36</b>	4110 - Sugar Maple Association	Sawtimber Well	44.5	102	81-110	N/A	(2012) Stand was thinned in 1998. Not much regen, Still heavy raspberry and beech in places. Signs of heavy deer use. Look at thinning again in ten years.																																		
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<b>37</b>	4115 - Y.Birch, Hemlock NH	Sawtimber Well	32.2	147	111-140	N/A	(2012) Large hemlock, beech, yellow birch, red maple and sugar maple. Lots of deer use. Most of the beech is dead. Diverse stand compared to others in the area.																																																			
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<b>38</b>	4112 - Maple, Beech, Cherry Association	Sapling Poor	19.9	17	1-50	N/A	(2012) Stand was cut in 2006. It is regenerating very poorly. Tons of raspberry.																																																			
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<b>39</b>	6120 - Lowland Cedar	Poletimber Well	8.2	126	Unspecified	N/A	Stand drops off to a cedar riparian zone. Contains a drain that flows into Seiners Creek.																																																			
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<b>40</b>	6124 - Lowland Spruce-Fir	Sapling Medium	42.3	16	51-80	N/A	(2012) Stand was cut in the winter of 2007. Slowly regenerating. Should be doing a lot better. Signs of heavy deer use.																																																			
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<b>41</b>	4130 - Aspen	Sapling Well	21.1	25	1-50	N/A	South end is good but a little shorter than to the north. Scattered cedar, spruce, and white pine especially on the edge of stand. (2012) Stand is regenerating quite nicely. Lots better than some in the area. Some smaller wet patches with very little regen.																																																			
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<b>42</b>	6120 - Lowland Cedar	Poletimber Well	33.1	155	81-110	N/A	(2012) Wet cedar stand with creek running through it. Some bigger patches of birch.																																																						
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<b>43</b>	4111 - S.Maple, Hard Mast Association	Sawtimber Well	59.7	96	51-80	N/A	2022 Poor recruitment of regeneration due to high deer numbers.																																																						
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<b>44</b>	4111 - S.Maple, Hard Mast Association	Sawtimber Well	57.4	88	51-80	N/A	(2012) Stand was thinned last entry. Look at thinning again in ten years. Not that much regen. Heavy deer sign.																																																						
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<b>45</b>	4191 - Mixed Upland Deciduous with Conifer	Sapling Medium	4.3	14	1-50	N/A	Some areas in the middle still filling in and should be a fully stocked stand in a couple more years. Stand is a unit of One and One Mix Sale #451190501. Cut in 2009.																																																						
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<b>46</b>	4139 - Aspen, Mixed Deciduous	Poletimber Well	11.8	69	81-110	N/A	2022-Beech and fir are dying out of the stand. Final harvest to promote good regeneration and diversity.																																																						
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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**47** 4112 - Maple, Beech, Cherry Association Sawtimber Well 49.9 96 111-140 N/A

This is part of stand 43 that was not thinned.  
(2012) Portion of this stand were thinned last entry. They are not regenerating very good. Lots of raspberry and some beech. Thin the areas that weren't last time.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
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Bigtooth Aspen	5	Log/Pole	12		Red Maple	Low	< 5 feet	Sapling
Black Cherry	5	Pole	9		Beech	Low	Variable	Sapling
Sugar Maple	65	Log/Pole	10	96				
Red Maple	10	Log/Pole	10					
Beech	5	Log	12					
Balsam Fir	2	Pole	6					
Paper Birch	5	Pole	6					

**48** 6117 - Lowland Deciduous, Mixed Coniferous Sapling Well 16.2 37 1-50 N/A

(2012) Young, wet Mackinac Mix stand, next entry it will make pole size. Part of 3 Blind sale 52-84-01.

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	10	Sapling	3	
Balsam Fir	20	Sapling	4	
White Spruce	20	Sapling	4	
Quaking Aspen	35	Sapling	3	37
Paper Birch	15	Sapling	3	

**49** 4112 - Maple, Beech, Cherry Association Sapling Well 8.6 19 1-50 N/A

(2012) Stand was cut in 2004. Lots of red maple regen.

Canopy Species	% Cover	Size Class	DBH	Age
Balsam Fir	10	Sapling	3	
Red Maple	80	Sapling	3	19
Quaking Aspen	10	Sapling	3	

**50** 4199 - Other Mixed Upland Deciduous Poletimber Well 35.6 75 81-110 N/A

2022- Low end of basal area. Timber is of poor quality with mortality in fir and beech.  
(2012) Variable stand, pretty heavy balsam understory. Look at thinning in ten years.

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	15	Pole	9	
Beech	5	Pole	7	
Ironwood	5	Pole/Sapling	7	
Balsam Fir	10	Pole/Sapling	7	
Yellow Birch	10	Pole	7	
Sugar Maple	20	Pole/Log	9	75
White Spruce	5	Log	12	
Bigtooth Aspen	10	Log/Pole	12	
Paper Birch	20	Pole	9	



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																															
<b>51</b>	6120 - Lowland Cedar	Poletimber Well	31.8	134	111-140	N/A	2024 Wet near the south end of the stand, where the strips were cut. North 1/2 is higher ground. (2012) Wet cedar stand. There are some old strip clearcuts within stand but not big enough to type out. Very little cedar regen within the strips.																																															
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<b>52</b>	6132 - Mixed Lowland Forest with Cedar	Poletimber Well	34.9	107	81-110	N/A	Seasonal drainage in center of the stand.																																															
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<b>53</b>	4112 - Maple, Beech, Cherry Association	Poletimber Well	32.2	96	81-110	N/A	2022- Regeneration is not very good due to high deer numbers.  (2012) The stand south of Batty Doe Lake Road was thinned last entry. Could thin the north part now. Poor regen on the south, tons of raspberry.  Thinned in fall of 2020 as part of Old Oil Can Mix-45-114-14.																																															
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<b>54</b>	4199 - Other Mixed Upland Deciduous	Sapling Well	28.9	37	1-50	N/A	(2012) Stand was cut in 1986. Birch and cherry are quite thick. Lots of conifer in the understory.																																															
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<b>55</b>	6120 - Lowland Cedar	Poletimber Well	19.3	155	111-140	N/A	(2012) Wet cedar stand, wet maple and yellow birch towards the north. Tons of deer use.																																															
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56	4111 - S.Maple, Hard Mast Association	Sawtimber Well	25.7	96	111-140	N/A	(2012) West half of the stand was thinned last entry, thin the east this time. Regen is sparse in the western part. Lots of raspberry.																																																												
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57	4112 - Maple, Beech, Cherry Association	Sapling Well	15.3	37	1-50	N/A	(2012) Very thick maple, cherry, and beech regen. A fair amount of balsam too.																																																												
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58	710 - Sand, Soil	Nonstocked	0.6		Unspecified	No	Old gravel pit area that extends into the compartment 195 to the north.																																																												
59	4112 - Maple, Beech, Cherry Association	Sawtimber Well	41.2	96	111-140	N/A	This is part of stand 43 that was not thinned.  (2012) Portion of this stand were thinned last entry. They are not regenerating very good. Lots of raspberry and some beech. Thin the areas that weren't last time.																																																												
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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<b>63</b>	4110 - Sugar Maple Association	Sawtimber Well	26.0	96	81-110	N/A	Poor regeneration due to high deer numbers.
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Canopy Species	% Cover	Size Class	DBH	Age
Sugar Maple	80	Log/Pole	12	96
Red Maple	10	Log/Pole	10	
Beech	5	Log	12	
Yellow Birch	5	Log	12	

Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple	Medium	>20 feet	Sapling
Beech	Medium	>20 feet	Sapling

Thinned in fall of 2020 as part of Old Oil Can Mix-45-114-14.