



# Compartment Review Presentation

Sault Ste. Marie Forest Management Unit

Compartment 45177

Entry Year 2024

Acreage: 2,304

County Mackinac

Management Area: St. Ignace Lake Plain

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**Stand Examiner:** Cody Flatt

## Legal Description:

T43N R10W, Sections 29 – 32 and T43N R11W, Section 36

## Identified Planning Goals:

This entry period management will be focused on thinning of the Northern Hardwood in need and final harvest of mature Aspen and Spruce/Fir stands in need. Visual management will be a consideration during all operations within the compartment and within all stands that may have a potential effect on the travel influence zone associated with Big Knob Road.

## Soil and topography:

Topography within the compartment is generally flat to slightly rolling. There are some ridge areas within the low lying areas. Soils vary from shallow soil with extensive rock outcroppings (Amadon rock outcrop complex) dominated by Northern hardwood and Aspen cover types, to Markey-Carbondale Muck and associated soils that are dominated by cedar and other lowland associated cover types. Other main soils present within the compartment are Amadon Longrie Sandy Loam and Leafriver Mucky Peat.

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

There is approximately 360 acres of private holdings within the compartment boundaries. A 40 acre parcel is located in the NW most corner of the compartment. This 40 acres is used as agricultural land as is the private land adjacent to it bordering the compartment in section 30. The remaining approximate 320 acres of private land is located in the north central part of the compartment immediately south and adjacent to US-2. This land ranges from open to wooded and is used primarily as hunting and recreational land. There are some permanently established hunting camps on this land. There is 5 acres in the northwest section of this large area of private holdings (NWNE Sec 30) that is owned to Garfield Township and has a refuse transfer station in place. The land surrounding the compartment is entirely private to the west. This land is undeveloped and used for hunting/ recreation land. To the north US-2 borders the compartment. To the east is predominantly State owned land as are the entire adjacent lands to the South.

## Unique Natural Features:

From MNFI- There are many Osprey and Loon records to the west and east of the compartment. There is a recorded area of Alvar located within the compartment. There is potential within the compartment for numerous Alvar associated plants and other threatened or endangered plants. The potential for wood turtle is present along the Rock River. Potential for T & E species in section 29.

## Archeological, Historical, and Cultural Features:

Archeological site in compartment in Section 30

## Special Management Designations or Considerations:

There is a Limestone Bedrock Glade (Alvar Glade) which management is restricted within and immediately surrounding ERA.

## Watershed and Fisheries Considerations:

This compartment contains the Rock River and Mud Lake. The Rock River is a designated Type 1 trout stream less than 50' width and has a predicted mean July temperature of 62.6 °F (cold stream). 300' buffers are recommended for the Rock River in riparian areas susceptible to Aspen regeneration. For areas not susceptible to Aspen regeneration, 100' plus 5' per 1% increase in slope; buffers are recommended to protect these areas in accordance with Best Management Practices.

100' plus 5' per 1% increase in slope; buffers are recommended for Mud Lake to protect shoreline areas in accordance with Best Management Practices.

## Wildlife Habitat Considerations:

Compartment 177 is part of the Mackinac Mix Management Area where featured wildlife species include black bear, pileated woodpecker, ruffed grouse, and white-tailed deer. Aspen is a dominant type and this type has been managed in

this area to benefit ruffed grouse, deer, and other wildlife. Other common types include northern hardwoods, spruce/fir and lowland spruce, and cedar particularly on the eastern side of the compartment. The eastern side of the compartment is part of a deer wintering complex.

Wildlife objectives include maintaining aspen where it exists while managing for age class diversity between stands and retaining some mature aspen, promoting diversity within hardwoods including maintaining mast producing species where they exist, maintaining the cedar wintering cover for deer and other species, and protecting rare species and community types. Species benefitting from management in this compartment include deer, ruffed grouse, snowshoe hare, coyote, black bear, bobcat, and numerous migratory birds.

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

Surface sediments consist of peak and muck and thin to discontinuous coarse-textured glacial till over bedrock. There is insufficient data to determine the glacial drift thickness. The Silurian Engadine Group subgroups below the glacial drift. The Engadine is quarried for stone/limestone twelve miles to the west. Gravel pits are located in the compartment and potential appears to be good in the west half. There is no economic oil and gas production in the UP.

### **Vehicle Access:**

Vehicle access into this compartment is via Big Knob Road from highway US-2. Big Knob Road is a seasonal (summer) DNR maintained, good quality dirt road. A private landowner of property located on Rock River Road (south of Compartment 177) has been plowing Big Knob Road himself during the winter months. Big Knob Road runs through the entire compartment in a north/ south direction. Further vehicle access to areas beyond Big Knob Road is limited to numerous two tracks and roads that remain from past timber harvests. The main limiting factor to accessing these more remote areas off Big Knob Road is the type of vehicle driven. Four wheel drive may be necessary to access some areas.

### **Survey Needs:**

Some corner work and blue line may be required for treatments this entry.

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

There are abundant opportunities for hunting and trapping of numerous wildlife species within this compartment. Big Knob State Forest Campground is located at the south end of Big Knob Road along the Lake Michigan shoreline. Other recreation opportunities that are accessed through this compartment via Big Knob Road are the Big Knob and Crow Lake pathways.

### **Fire Protection:**

There is limited potential for large wildfires within this compartment due to cover type and soil types. There is potential for smaller scale wildfires within the compartments grass openings and surrounding stands due to the high level of human activity (ignition source potential). Any fires in the remote or low lying areas of the compartment could be difficult to access and result in extensive mop-up problems due to heavy soil types. Water sources within the compartment are limited to the Rock River if there is a good enough flow. Knob Lake and Marsh Lake are located just to the south of the compartment, but have virtually no vehicle access. Lake Michigan is located within 3 miles from the south edge of the compartment. Garfield Township Volunteer Fire Department is located approximately 2.5 miles from the compartment.

### **Additional Compartment Information:**

Fragmites found in compartment

### **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



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	127	246	261	306	71	16	0	0	0	0	0	0	0	0	0	0	0	1027
Bare/Sparsely Vegetated	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8
Cedar	0	0	0	0	0	0	0	0	18	0	20	19	130	323	0	0	0	0	510
Herbaceous Openland	19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	19
Lowland Aspen/Balsam Poplar	0	17	0	49	0	54	0	0	0	26	0	0	0	0	0	0	0	0	146
Lowland Deciduous	0	0	0	0	0	0	0	24	0	0	0	0	0	0	0	0	0	0	24
Lowland Mixed Forest	0	0	0	11	13	0	0	0	0	6	0	0	0	0	0	0	0	0	30
Lowland Shrub	127	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	127
Lowland Spruce/Fir	0	0	0	0	0	0	0	0	0	36	29	0	0	0	0	0	0	0	65
Northern Hardwood	0	0	7	0	0	0	0	0	156	0	0	0	0	0	0	0	0	29	191
Upland Mixed Forest	0	0	0	19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	19
Upland Spruce/Fir	0	0	0	0	0	37	61	0	0	0	0	0	0	0	0	0	0	0	97
Water	30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	29
White Pine	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	11	0	11
<b>Total</b>	<b>184</b>	<b>144</b>	<b>253</b>	<b>340</b>	<b>319</b>	<b>162</b>	<b>77</b>	<b>24</b>	<b>174</b>	<b>68</b>	<b>49</b>	<b>19</b>	<b>130</b>	<b>323</b>	<b>0</b>	<b>0</b>	<b>11</b>	<b>29</b>	<b>2303</b>



## Report 2 – Treatment Summary

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

Acres of Harvest

Compartment 177  
Total Compartment Acres: 2,304

Commercial Harvest - 218  
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	44	0	0	0	0	0	0	0	0	44
Lowland Aspen/Balsam Poplar	30	0	0	0	0	0	0	0	0	30
Lowland Mixed Forest	6	0	0	0	0	0	0	0	0	6
Northern Hardwood	0	87	0	0	0	0	0	0	0	87
Upland Spruce/Fir	51	0	0	0	0	0	0	0	0	51
<b>Total</b>	<b>131</b>	<b>87</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>218</b>

### Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	218	0	0	0	0	0	7	0	0	225
Next Step	0	0	0	0	0	7	218	0	0	225
<b>Total</b>	<b>218</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>7</b>	<b>225</b>	<b>0</b>	<b>0</b>	<b>450</b>



Stand Name	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>2</b>	<b>45177002-Cut</b>	14.4	4134 - Aspen, Spruce/Fir	Poletimber Well	50	111-140	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
<p><u>Prescription</u> Cut all trees down to 2" in DBH.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u> Acceptable regen includes aspen, birch, maple, spruce, fir, and pine.</p> <p><u>Other Comment:</u> Sale area may vary due to Rock River buffer area, wet areas, and areas of rock outcroppings. Possibly leave some standing mature trees along private line near neighbor's house. Any large boulders found within treatment area need to be checked for T&amp;E species and/or characteristics of T&amp;E species habitat, to assess if retention is needed around them</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2023</p>											

<b>3</b>	<b>45177003-Cut</b>	41.4	4112 - Maple, Beech, Cherry Association	Sawtimber Well	77	81-110	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven-Aged	No
<p><u>Prescription</u> Mark stand to 70-80 BA. Leave healthy beech if they are present and maintain species diversity. Create gaps to promote hardwood regeneration and consider expanding existing gaps where good regeneration already exists.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u> Sugar maple, red maple, ash, yellow birch, basswood, and cherry.</p> <p><u>Other Comment:</u> Sale area may vary due to Rock River flood plain exclusion and rock outcroppings. Any large boulders found within treatment area need to be checked for T&amp;E species and/or characteristics of T&amp;E species habitat, to assess if retention is needed around them</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2023</p>											

<b>11</b>	<b>45177011-Cut</b>	17.7	42340 - Upland Spruce/Fir	Poletimber Well	55	111-140	Harvest	Clearcut with Retention	4319 - Mixed Upland Forest	Even-Aged	No
<p><u>Prescription</u> Cut all deciduous trees down to 2" in DBH and conifer trees down to 4" DBH, except leave some yellow birch, cedar, pine, and hemlock when possible. Leave pockets of sub-merchantable spruce/fir as retention. Leave some standing spruce/fir in red line along adjacent aspen stands.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u> Acceptable regen includes aspen, birch, maple, spruce, fir, and cedar.</p> <p><u>Other Comment:</u> Sale area may vary due to Rock River buffer or pockets of sub-merchantable timber. Any large boulders found within treatment area need to be checked for T&amp;E species and/or characteristics of T&amp;E species habitat, to assess if retention is needed around them</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2023</p>											



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Stand	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
34	45177034-Cut	30.8	4112 - Maple, Beech, Cherry Association	Poletimber Well	75	111-140	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven-Aged	No
<p><u>Prescription Specs:</u> Mark stand to 70-80 BA and cut all aspen that are 2" and up. Leave healthy beech if they are present and maintain species diversity. Create gaps to promote hardwood regeneration and consider expanding existing gaps where good regeneration already exists.</p> <p><u>Next Step Treatments:</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Acceptable Regen:</u> Sugar maple, red maple, yellow birch, basswood, and cherry.</p> <p><u>Other Comment:</u> Any large boulders found within treatment area need to be checked for T&amp;E species and/or characteristics of T&amp;E species habitat, to assess if retention is needed around them</p> <p><u>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /2023</p>											
38	45177038-Cut	33.4	42340 - Upland Spruce/Fir	Poletimber Well	49	111-140	Harvest	Clearcut with Retention	4319 - Mixed Upland Forest	Even-Aged	No
<p><u>Prescription Specs:</u> Cut all deciduous trees down to 2" in DBH and conifer trees down to 4" DBH except for cedar, pine, and hemlock. Leave closed canopy cedar along wetland edge and pockets of sub-merchantable spruce/fir as retention.</p> <p><u>Next Step Treatments:</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Acceptable Regen:</u> Acceptable regen includes aspen, birch, maple, spruce, fir, and cedar.</p> <p><u>Other Comment:</u> Sale area may vary due to wet areas or closed canopy cedar near wetland edge. Any large boulders found within treatment area need to be checked for T&amp;E species and/or characteristics of T&amp;E species habitat, to assess if retention is needed around them</p> <p><u>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /2023</p>											
40	45177040-Cut	8.8	6112 - Lowland Aspen	Poletimber Well	40	81-110	Harvest	Clearcut with Retention	6112 - Lowland Aspen	Even-Aged	No
<p><u>Prescription Specs:</u> Cut all deciduous trees down to 2" in DBH and conifer trees down to 4" DBH. Leave some white pine, hemlock, cedar or yellow birch when possible.</p> <p><u>Next Step Treatments:</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Acceptable Regen:</u> Acceptable regen includes aspen, birch, maple, spruce, fir, tamarack, pine and cedar.</p> <p><u>Other Comment:</u> Should be cut during frozen winter or dry summer Sale area may vary due to areas that are too wet or pockets of nonmerchantable spruce/fir Any large boulders found within treatment area need to be checked for T&amp;E species and/or characteristics of T&amp;E species habitat, to assess if retention is needed around them</p> <p><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
<b>47 45177047-Cut</b>	5.7	6139 - Mixed Lowland Forest	Poletimber Well	82	81-110	Harvest	Clearcut	613 - Lowland Mixed Forest	Even-Aged	No
<p><u>Prescription</u> Cut all deciduous trees down to 2" in DBH and conifer trees down to 4" DBH. No retention due to small acreage.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u> Acceptable regen includes aspen, birch, maple, spruce, fir, and cedar.</p> <p><u>Other Comment:</u> Sale area may vary due to wet areas, closed canopy cedar near wetland edge, or areas of low volume. Access may be needed through private to the west  Any large boulders found within treatment area need to be checked for T&amp;E species and/or characteristics of T&amp;E species habitat, to assess if retention is needed around them</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2023</p>										
<b>59 45177059-Cut</b>	14.7	4112 - Maple, Beech, Cherry Association	Sawtimber Well	69	111-140	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven-Aged	No
<p><u>Prescription</u> Mark stand to 70-80 BA. Leave healthy beech if they are present and maintain species diversity. Create gaps to promote hardwood regeneration and consider expanding existing gaps where good regeneration already exists.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u> Sugar maple, red maple, yellow birch, basswood, and cherry.</p> <p><u>Other Comment:</u> Any large boulders found within treatment area need to be checked for T&amp;E species and/or characteristics of T&amp;E species habitat, to assess if retention is needed around them</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2023</p>										
<b>71 45177071-Cut</b>	29.6	4134 - Aspen, Spruce/Fir	Poletimber Well	38	81-110	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
<p><u>Prescription</u> Cut all deciduous trees down to 2" in DBH and conifer trees down to 4" DBH. Leave some white pine, hemlock, cedar or yellow birch when possible. Leave areas of closed canopy cedar and pockets of sub-merchantable spruce/fir as retention.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u> Acceptable regen includes aspen, birch, maple, spruce, fir, pine and cedar.</p> <p><u>Other Comment:</u> Should be cut during frozen winter or dry summer Sale area may vary due to areas that are too wet or pockets of nonmerchantable spruce/fir  Any large boulders found within treatment area need to be checked for T&amp;E species and/or characteristics of T&amp;E species habitat, to assess if retention is needed around them</p> <p><u>Site Condition</u></p> <p><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
<b>75 45177075-Monitor</b>	7.1	500 - Water	Nonstocked		Unspecified	Monitoring	Invasive Species	500 - Water		No
<p><u>Prescription</u> Spray invasive species of phragmites found in wetland. Choose appropriate herbicide based on site, work instructions, and manufactures recommendations.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Pesticide, Other - Specify</p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u></p> <p><u>Other Comment:</u> Phragmites patches found in wetland.</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2023</p>										
<b>80 45177080-Cut</b>	21.3	6112 - Lowland Aspen	Poletimber Well	84	81-110	Harvest	Clearcut with Retention	6112 - Lowland Aspen	Even-Aged	No
<p><u>Prescription</u> Cut all deciduous trees down to 2" in DBH and conifer trees down to 4" DBH. Leave some white pine, hemlock, cedar and yellow birch when possible. Retention will be pockets of sub-merchantable spruce/fir as well as wetter area in south part of stand.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u> Acceptable regen includes aspen, birch, maple, spruce, fir, tamarack, pine and cedar.</p> <p><u>Other Comment:</u> Should be cut during frozen winter or dry summer</p> <p>Sale area may vary due to areas that are too wet or pockets of nonmerchantable spruce/fir</p> <p>Any large boulders found within treatment area need to be checked for T&amp;E species and/or characteristics of T&amp;E species habitat, to assess if retention is needed around them</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2023</p>										

**Total Treatment Acreage Proposed: 224.9**



## Report 4 – Site Conditions

Sault Ste. Marie Mgt. Unit

Cody Flatt : Examiner

Compartment: 177

Year of Entry: 2024

### Availability for Management

Total Acres	Acres Available	Acres Avail With Condition	Acres Not Available
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### Dominant Site Conditions

	Total Acres	Acres Available	Acres Avail With Condition	Acres Not Available	Dominant Site Conditions									
					5B	5C	1C	2G	2H	3A	3H	3J	5E	
1025	1006	0	19	Aspen						17		2		
9	9	0	0	Bare/Sparsely Vegetated										
510	37	0	473	Cedar				76			397			
19	10	0	9	Herbaceous Openland						9				
146	142	0	5	Lowland Aspen/Balsam Poplar										5
24	0	24	0	Lowland Deciduous		24								
30	30	0	0	Lowland Mixed Forest										
127	127	0	0	Lowland Shrub	0									
65	0	65	0	Lowland Spruce/Fir		65								
191	191	0	1	Northern Hardwood		0				1				
19	19	0	0	Upland Mixed Forest										
97	70	0	28	Upland Spruce/Fir			9		12	2		1	3	
30	30	0	0	Water	0									
11	0	10	0	White Pine	10									
2,304	1,670	99	534	Total Forested Acres	11	89	9	76	12	29	397	3	8	
	72%	4%	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	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	24	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
2	Unavailable	3A: Conservation Values incompatible with harvest at this time	29	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Limestone bedrock glade ERA							

## Report 4 – Site Conditions

Sault Ste. Marie Mgt. Unit

Compartment: 177

Cody Flatt : Examiner

Year of Entry: 2024

3	<b>Available</b>	<b>5C: Delay treatment for age/size class diversity or exceptional site quality</b>	29	4A: No Markets Available for these Forest Products	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Poor quality site and very limited volume and merchantability.							
4	<b>Available</b>	<b>5B: Maintain for regeneration purposes</b>	11	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Harvested last entry. Nice regen coming in. Leave overstory for another 10 years to allow for regeneration to establish even more.							
5	<b>Unavailable</b>	<b>3H: Deer Wintering Area - habitat is incompatible with harvest at this time</b>	211	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
6	<b>Unavailable</b>	<b>3H: Deer Wintering Area - habitat is incompatible with harvest at this time</b>	130	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
7	<b>Unavailable</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	57	3H: Deer Wintering Area - habitat is incompatible with harvest at this time	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							

## Report 4 – Site Conditions

Sault Ste. Marie Mgt. Unit

Cody Flatt : Examiner

Compartment: 177

Year of Entry: 2024

8	<b>Unavailable</b>	<b>3H: Deer Wintering Area - habitat is incompatible with harvest at this time</b>	55	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
9	<b>Unavailable</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	19	3H: Deer Wintering Area - habitat is incompatible with harvest at this time	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
10	<b>Available</b>	<b>5C: Delay treatment for age/size class diversity or exceptional site quality</b>	36	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
11	<b>Unavailable</b>	<b>2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)</b>	6	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Stand to be left as buffer to Limestone Glade ERA							
12	<b>Unavailable</b>	<b>2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)</b>	6	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							

## Report 4 – Site Conditions

Sault Ste. Marie Mgt. Unit

Cody Flatt : Examiner

Compartment: 177

Year of Entry: 2024

13	<b>Unavailable</b>	<b>1C: Other dept or div proc/practices</b>	9	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Rock River emerges from ground, also near Alvar glade							
15	<b>Unavailable</b>	<b>5E: Long-Term Retention</b>	5	2G: Too wet (sensitive soils, does not include access issues)	Unspecified	Unspecified	Unspecified
<b>Comments:</b> This area should be left as retention for treatment 45177080-Cut							
16	<b>Unavailable</b>	<b>5E: Long-Term Retention</b>	3	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> This area should be left as retention for treatment 45177038-Cut							
17	<b>Unavailable</b>	<b>3J: Water quality / BMPs (stream, river, or lake)</b>	2	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> 300' buffer of Rock River							
18	<b>Unavailable</b>	<b>3J: Water quality / BMPs (stream, river, or lake)</b>	2	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> 300' buffer of Rock River							

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	Cold Water Lake	A coldwater lake has temperature and dissolved oxygen conditions that allow naturally-reproduced or stocked trout populations and those of other coldwater fish species to persist from year to year. Suitable conditions for coldwater fishes may occur in Michigan lakes if they are relatively deep, have substantial groundwater inflows, or are located in colder (northern) areas of the state. Such lakes are established by Director's action and designated as trout resources by Fisheries Order 200.
SCA	Cold Water Stream	A coldwater stream has temperature and dissolved oxygen conditions that allow naturally-reproduced or stocked trout populations and those of other coldwater fish species (e.g., slimy sculpin) to persist from year to year. Coldwater streams in Michigan typically provide these conditions due to substantial contributions of groundwater to their stream flows. Such streams are established by Director's action and designated as trout resources by Fisheries Order 210.
SCA	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.
HCVA	Dedicated Management Areas	Such areas are dedicated by the DNR Director for specific management uses through the promulgation of rules, as governed by Part 5, Department of Natural Resources, of the NREPA (MCL 324.502(2) and 324.504). Section 38 of the Administrative Procedures Act (MCL 24.238) provides for public requests for the promulgation of rules. This is an active program, with one proposed site currently under review by the DNR.
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																																																															
1	4134 - Aspen, Spruce/Fir	Poletimber Well	9.9	37		N/A	Cut in 1985. More pure aspen in center of stand with spruce and fir around edges. Mix of larger and small poles 4"-8". Look at possible harvest in 10 years																																																															
<table border="1"> <thead> <tr> <th>Canopy Species</th> <th>% Cover</th> <th>Size Class</th> <th>DBH</th> <th>Age</th> </tr> </thead> <tbody> <tr> <td>Sugar Maple</td> <td>10</td> <td>Sapling</td> <td>3</td> <td></td> </tr> <tr> <td>Quaking Aspen</td> <td>50</td> <td>Pole/Sapling</td> <td>5</td> <td>37</td> </tr> <tr> <td>Balsam Fir</td> <td>20</td> <td>Sapling/Pole</td> <td>4</td> <td></td> </tr> <tr> <td>White Spruce</td> <td>20</td> <td>Sapling/Pole</td> <td>4</td> <td></td> </tr> </tbody> </table>								Canopy Species	% Cover	Size Class	DBH	Age	Sugar Maple	10	Sapling	3		Quaking Aspen	50	Pole/Sapling	5	37	Balsam Fir	20	Sapling/Pole	4		White Spruce	20	Sapling/Pole	4																																							
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2	4134 - Aspen, Spruce/Fir	Poletimber Well	16.3	50	111-140	N/A	Small stand of medium diameter aspen mixed with mix of spruce and balsam.																																																															
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3	4112 - Maple, Beech, Cherry Association	Sawtimber Well	124.8	77	81-110	N/A	Maple dominated hardwoods on shallow soil and limestone. Good regen in most areas, moderately heavy deer browse. Part of stand was thinned in the Summer of 2016.																																																															
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4	4134 - Aspen, Spruce/Fir	Sapling Well	11.5	36		N/A	Stand was cut in 1986. Aspen is growing nicely																																																															
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5	310 - Herbaceous Openland	Nonstocked	2.0			No																																																																
6	4130 - Aspen	Poletimber Well	7.4	36		N/A	Stand was cut in 1986.																																																															
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7	310 - Herbaceous Openland	Nonstocked	1.3		Immature	No																																																																



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																														
8	4130 - Aspen	Sapling Medium	7.5	19	Immature	N/A	Grass opening that was cut, a lot of aspen and cherry brush coming in clumps. Still open in areas, slow growing stems																														
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9	4130 - Aspen	Sapling Well	23.7	38		N/A	Stand was cut in 1985. Aspen regen with mix of spruce and balsam. Not very productive, still somewhat small in size																														
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Quaking Aspen	70	Sapling/Pole	4	38																																	
10	310 - Herbaceous Openland	Nonstocked	8.3			No	Open limestone bedrock in many places																														
11	42340 - Upland Spruce/Fir	Poletimber Well	34.1	55	111-140	N/A	Variable diameter stand of balsam and spruce with mix of aspen. Very shallow bed rock...poor productivity. Rock River emerges from below ground in this stand.																														
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12	42340 - Upland Spruce/Fir	Poletimber Well	8.1	55	51-80	N/A	Previously listed as good quality Alvar.																														
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Paper Birch	20	Pole	7																																		
13	310 - Herbaceous Openland	Nonstocked	2.4			No																															
14	4130 - Aspen	Sapling Well	42.7	33	Immature	N/A	Stand of Aspen regen with mix of paper birch and fir. Some overstory birch remains from previous harvest, but mostly dying out.																														
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
15	4130 - Aspen	Sapling Well	23.3	24	Immature	N/A	Cut in 1999. Good aspen regen
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>		
Quaking Aspen		60	Sapling	3	24		
Bigtooth Aspen		10	Sapling	3			
Balsam Fir		5	Sapling	2			
Black Cherry		5	Sapling	2			
Paper Birch		15	Sapling	2			
White Spruce		5	Sapling	2			
16	6112 - Lowland Aspen	Sapling Well	17.1	8	Immature	N/A	Cut in 2015. Old Dent Mix. #45-109-14-01
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>		
Bigtooth Aspen		30	Sapling	2	8		
Balsam Poplar		15	Sapling	2			
Quaking Aspen		30	Sapling	2			
Balsam Fir		20	Sapling	1			
Paper Birch		5	Sapling	1			
<b>Sub-Canopy Species</b>		<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>			
Tag Alder		Low	5 - 10 feet	Tall Shrub			
17	310 - Herbaceous Openland	Nonstocked	5.3			No	A few scattered maple in grass opening
18	629 - Mixed non-forested wetland	Nonstocked	39.5			No	
19	4130 - Aspen	Sapling Well	12.9	20	Immature	N/A	Cut in 2003.
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>		
White Spruce		5	Sapling	2			
Quaking Aspen		65	Sapling	3	20		
Bigtooth Aspen		10	Sapling	3			
Black Cherry		5	Sapling	2			
Balsam Fir		10	Sapling	2			
Paper Birch		5	Pole	8			
<b>Sub-Canopy Species</b>		<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>			
Beech		Trace	5 - 10 feet	Sapling			
20	6111 - Lowland Balsam Poplar	Poletimber Medium	7.8	43	1-50	N/A	Very sparse lowland aspen with mix of spruce and balsam. Low productivity throughout. Not much harvest potential
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>		
Balsam Poplar		40	Pole	8	43		
Quaking Aspen		35	Pole	7			
Balsam Fir		15	Pole/Sapling	5			
Red Maple		5	Sapling/Pole	4			
Paper Birch		5	Pole/Sapling	5			
<b>Sub-Canopy Species</b>		<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>			
Quaking Aspen		Low	10 - 20 feet	Sapling			
Black Ash		Low	5 - 10 feet	Sapling			
Balsam Poplar		Low	10 - 20 feet	Sapling			



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																										
21	6117 - Lowland Deciduous, Mixed Coniferous	Poletimber Medium	23.8	62	51-80	N/A	Very wet, variable stand of mixed cedar, conifer, and lowland deciduous types. Beavers have flooded out area near road. Tag alder where wettest, scattered throughout. Aspen and paper birch are dying out of stand, red maple saplings and poles replacing beneath in areas.																																																										
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23	4130 - Aspen	Poletimber Well	15.2	33	Immature	N/A	Stand was cut in 1989. Mix of aspen with spruce and balsam.																																																										
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24	790 - Other Bare/Sparsely Vegetated	Nonstocked	1.4		Unspecified	No																																																											
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26	6120 - Lowland Cedar	Poletimber Well	19.5	93	111-140	N/A	Dense stand of small diameter cedar mixed with some paper birch and balsam and spruce. Not much harvest potential here. Best left for cover.																																																										
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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>27</b>	6122 - Black Spruce	Poletimber Medium	36.2	84	51-80	N/A	Stand of small diameter black spruce mixed with balsam and white spruce where slightly higher ground. A few scattered cedar throughout. Wet ground, low productivity.
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	
Tamarack		10	Sapling/Pole	4		Conifers	
Paper Birch		10	Sapling/Pole	4		Low	
Balsam Fir		10	Sapling/Pole	4		Variable	
Black Spruce		60	Pole/Sapling	5	84	Sapling	
Northern White Cedar		10	Pole/Sapling	5			

<b>28</b>	629 - Mixed non-forested wetland	Nonstocked	14.2			No	
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<b>29</b>	6122 - Black Spruce	Poletimber Well	28.8	93	51-80	N/A	Very wet ground. Small diameter, poor quality black spruce, mixed with balsam. Some birch on high areas and fringed. Larger patches of cedar throughout as well as scattered
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	
Paper Birch		6	Pole	6		Tag Alder	
Black Spruce		50	Pole	6	93	Low	
Tamarack		5	Pole	5		5 - 10 feet	
Northern White Cedar		25	Log	12		Tall Shrub	
Balsam Fir		14	Pole	6			

<b>30</b>	4134 - Aspen, Spruce/Fir	Poletimber Well	70.6	44	111-140	N/A	Stand was cut in 1979. Aspen is pole size but balsam fir is still somewhat small diameter. Check in 10 years
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	
Quaking Aspen		50	Pole	8	44	Balsam Fir	
Bigtooth Aspen		10	Pole	7		Medium	
Balsam Fir		40	Pole/Sapling	5		10 - 20 feet	
						Sapling	

<b>31</b>	4130 - Aspen	Sapling Well	30.2	5	Immature	N/A	Stand is narrow and runs along both sides of Big Knob road to campground. Stand was cut in 2018. Mostly aspen regen
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>		
Balsam Poplar		10	Sapling	1			
Paper Birch		5	Sapling	1			
Quaking Aspen		2	Log/Pole	10			
Black Cherry		5	Sapling	1			
Sugar Maple		2	Pole	8			
Balsam Fir		5	Sapling	1			
White Spruce		2	Log/Pole	13			
Northern White Cedar		2	Pole	8			
Quaking Aspen		60	Sapling	1	5		
Paper Birch		2	Log/Pole	10			
Red Maple		5	Sapling	1			



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																															
<b>32</b>	4130 - Aspen	Sapling Well	126.3	19	Immature	N/A																																																
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<b>33</b>	6120 - Lowland Cedar	Poletimber Well	130.3	113		N/A	Cedar stand with variable density a composition in places. Very wet in some areas. Some mix of paper birch and low quality red maple scattered. Not much even merchantable here.																																															
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<b>34</b>	4112 - Maple, Beech, Cherry Association	Poletimber Well	30.8	75	111-140	N/A	Maple stand of poles with some logs. Mostly sugar maple, but a few red. Good mix of birch and aspen in some areas.																																															
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<b>36</b>	6120 - Lowland Cedar	Poletimber Well	57.0	123		N/A	Stand of wet ground cedar mixed with other, some areas of tag alder where stand is wettest. Rock river corridor passes through stand. Good buffer stand with little merchantability.																																															
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<b>37</b>	790 - Other Bare/Sparsely Vegetated	Nonstocked	3.1		Unspecified	No	Some pole sized aspen and fir trees along edges of opening from adjacent stands																																															



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments	
<b>38</b>	42340 - Upland Spruce/Fir	Poletimber Well	36.5	49	111-140	N/A	Very dense spruce and balsam poles with some aspen in east part of stand. Larger spruce with balsam poplar and aspen in north/west part of stand	
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>		
Quaking Aspen		15	Pole	8		Balsam Fir		
Balsam Poplar		5	Log/Pole	10		Low		
White Spruce		30	Pole	9		< 5 feet		
Balsam Fir		45	Pole	7	49	Sapling		
Northern White Cedar		5	Log/Pole	10				
<b>39</b>	4134 - Aspen, Spruce/Fir	Sapling Well	127.8	24	Immature	N/A	Good looking aspen with mix of spruce and balsam. Cut in 1997-99.	
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>			
White Spruce		5	Sapling	3				
Quaking Aspen		60	Sapling/Pole	4	24			
Bigtooth Aspen		20	Sapling/Pole	4				
Balsam Fir		15	Sapling	3				
<b>40</b>	6112 - Lowland Aspen	Poletimber Well	9.5	40	81-110	N/A	Variable stand of aspen/bam and balsam fir in low wet ground. Larger pole sized aspen/bam in west part of stand that is starting to die or decline in health, east part of stand is smaller sub-merchantable aspen/bam.	
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>			
Quaking Aspen		40	Pole	7	40			
Balsam Poplar		30	Pole	7				
Balsam Fir		25	Pole/Sapling	5				
White Spruce		5	Sapling/Pole	4				
<b>41</b>	4112 - Maple, Beech, Cherry Association	Sawtimber Well	13.8	71	51-80	N/A	Thinned in 2016. Rainy Mix #45-116-14-01. Many beech left after harvest have died due to BBD.	
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>		
Red Maple		20	Log/Pole	10		Beech		
Beech		5	Log	12		Medium		
Sugar Maple		70	Log/Pole	10	71	5 - 10 feet		
Paper Birch		5	Pole	8		Sapling		
						Maple (spp.)		
						Medium		
						Variable		
						Sapling		
<b>42</b>	4130 - Aspen	Sapling Well	59.4	14	Immature	N/A	Stand was cut in 2009. Good looking aspen regen.	
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>			
Paper Birch		10	Sapling	2				
Quaking Aspen		65	Sapling	3	14			
Balsam Fir		15	Sapling	2				
Black Cherry		10	Sapling	2				



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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**43**      4130 - Aspen      Sapling Well      34.5      36      81-110      N/A      Good young aspen with paper birch and balsam/spruce

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen	75	Sapling/Pole	4	36	Maple (spp.)	Low	Variable	Sapling
Paper Birch	10	Sapling/Pole	4		Balsam Fir	Low	5 - 10 feet	Sapling
Balsam Fir	5	Sapling/Pole	4					
White Spruce	5	Sapling/Pole	4					
Bigtooth Aspen	5	Sapling/Pole	4					

**44**      4130 - Aspen      Poletimber Well      36.2      34      81-110      N/A      Stand was cut in 1979. Tall aspen in most places. Look at cutting in 10 years

Canopy Species	% Cover	Size Class	DBH	Age
Paper Birch	10	Pole	5	
Quaking Aspen	55	Pole	7	34
Balsam Fir	10	Sapling/Pole	4	
Bigtooth Aspen	15	Pole	7	
Red Maple	10	Pole	5	

**45**      629 - Mixed non-forested wetland      Nonstocked      23.1                     No

**46**      42340 - Upland Spruce/Fir      Sapling Well      18.8      51      51-80      N/A      Very dense stand of sapling/pole balsam and spruce. Not much merchantability yet

Canopy Species	% Cover	Size Class	DBH	Age
Balsam Fir	50	Sapling/Pole	4	51
White Spruce	35	Sapling/Pole	4	
Quaking Aspen	15	Sapling/Pole	4	

**47**      6139 - Mixed Lowland Forest      Poletimber Well      5.7      82      81-110      N/A      Log and pole sized spruce, aspen, fir. Paper birch and aspen are beginning to die out of stand. Red maple regen in subcanopy

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Paper Birch	10	Pole	9		Red Maple	Medium	5 - 10 feet	Sapling
Red Maple	5	Log/Pole	10		Quaking Aspen	Low	5 - 10 feet	Sapling
Balsam Fir	10	Pole	8		Conifers	Low	< 5 feet	Sapling
Quaking Aspen	25	Log	13					
Balsam Poplar	10	Log/Pole	10					
Black Spruce	5	Pole	9					
White Spruce	30	Log/Pole	11	82				
Northern White Cedar	5	Pole	8					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																														
<b>48</b>	4134 - Aspen, Spruce/Fir	Poletimber Well	21.5	38	51-80	N/A	Stand was cut in 1985. Mix of aspen with spruce and balsam. Wet areas have less cover. Aspen poles look decent and have finally established more fully, basing from last inventory notes																														
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Balsam Fir	15	Sapling/Pole	4																																		
Red Maple	5	Sapling	2																																		
<b>49</b>	6112 - Lowland Aspen	Sapling Well	7.3	40	51-80	N/A	Stand is smaller sub-merchantable aspen/bam on wet ground.																														
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Balsam Poplar	30	Sapling/Pole	4																																		
<b>50</b>	629 - Mixed non-forested wetland	Nonstocked	20.4			No																															
<b>51</b>	500 - Water	Nonstocked	15.4			No																															
<b>52</b>	4130 - Aspen	Sapling Well	41.5	8	Immature	N/A	Stand was cut in 2015. Good looking aspen regen																														
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Bigtooth Aspen	15	Sapling	2																																		
<b>53</b>	6130 - Fir, Aspen, Maple	Sapling Well	13.4	38	51-80	N/A	Stand was cut in 1985. Regeneration is mix of aspen with spruce and balsam. Poor site and trees are small diameter. Some pretty wet ground in some areas.																														
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																															
<b>54</b>	4130 - Aspen	Sapling Well	28.7	14	Immature	N/A	Aspen regen with balsam. Cut in 2009.																																																															
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<b>55</b>	629 - Mixed non-forested wetland	Nonstocked	5.5			No																																																																
<b>56</b>	4135 - Aspen, Cedar	Sapling Well	9.4	7	Immature	N/A	Cut in 2016. White Pine, Hemlock, and Cedar left. Rainy Mix #45-116-14-01. Wet, cedar retention left in middle of stand. Good aspen regen																																																															
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<b>57</b>	4130 - Aspen	Sapling Well	48.6	27	Immature	N/A	Cut in '96. Good looking aspen. Sapling stand with some poles																																																															
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Bigtooth Aspen	15	Sapling/Pole	4																																																																			
Quaking Aspen	60	Sapling/Pole	4	27																																																																		
<b>58</b>	6120 - Lowland Cedar	Poletimber Well	55.1	126		N/A	Variable stand of small diameter cedar mixed with some areas of spruce and balsam. Very wet in some areas with low basal areas and poor quality.																																																															
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
59	4112 - Maple, Beech, Cherry Association	Sawtimber Well	14.7	69	111-140	N/A	Maple dominated hardwood stand. Uneven aged with logs, poles, advanced regen and a good seedling layer
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	
Sugar Maple		55	Log/Pole	10	69	Maple (spp.)	
Beech		10	Log/Pole	11		High	
Red Maple		35	Log/Pole	10		Medium	
						Avg. Height	
						< 5 feet	
						Size	
						Seeding	
						Sapling	
60	4134 - Aspen, Spruce/Fir	Sapling Well	26.2	21	Immature	N/A	Stand is mix of aspen regen with residual paper birch that remains. Looks good so far, some birch dying out. Cut in 2002
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>		
Paper Birch		20	Pole	9			
Quaking Aspen		55	Sapling	2	21		
White Spruce		10	Pole/Sapling	5			
Balsam Fir		15	Sapling	3			
61	4134 - Aspen, Spruce/Fir	Poletimber Well	9.8	37	51-80	N/A	Stand was cut in 1986. Aspen mixed with some balsam. Not much merchantable yet.
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>		
Balsam Fir		20	Sapling/Pole	4			
Quaking Aspen		80	Pole/Sapling	5	37		
62	4130 - Aspen	Sapling Well	23.2	14	Immature	N/A	Nice aspen regen with mix of spruce and balsam. Cut in 2009.
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>		
Balsam Fir		10	Sapling	3			
White Spruce		5	Sapling	2			
Quaking Aspen		60	Sapling	3	14		
Bigtooth Aspen		25	Sapling	3			
63	4130 - Aspen	Sapling Well	46.3	7	Immature	N/A	Cut in 2016. White Pine, Cedar, and Hemlock left with some birch, spruce, and aspen as scattered reserves. Rainy Mix #45-114-14-01. Good aspen regeneration
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>		
Northern White Cedar		3	Pole	7			
Quaking Aspen		60	Sapling	2	7		
Quaking Aspen		1	Log	12			
Bigtooth Aspen		15	Sapling	2			
Black Cherry		5	Sapling	1			
Paper Birch		5	Sapling	1			
Red Maple		5	Sapling	1			
Balsam Fir		5	Sapling	1			
White Pine		1	Log	14			



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
<b>64</b>	4134 - Aspen, Spruce/Fir	Sapling Well	32.3	31	Immature	N/A	Aspen regen with mix of spruce and balsam. Cut in 1992. Has not grown much in past 10 years
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>		
White Spruce		20	Sapling	3			
Balsam Fir		20	Sapling	3			
Quaking Aspen		60	Sapling	3	31		
<b>65</b>	500 - Water	Nonstocked	1.6			No	
<b>66</b>	6120 - Lowland Cedar	Sapling Medium	18.9	106		N/A	Very wet conditions in this stand. Poor productivity throughout due to water. Short, sparse, poor quality cedar.
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>		
Northern White Cedar		90	Sapling/Pole	4	106		
Tamarack		5	Sapling	3			
Black Spruce		5	Sapling/Pole	3			
<b>67</b>	6120 - Lowland Cedar	Poletimber Well	211.2	126		N/A	Stand is large and variable in composition and ground. Very wet in some areas with tag alder and lower basal areas. Overall, it is cedar mixed with balsam, spruce, paper birch, and some mixed hardwoods. Lowland type with good wildlife qualities. No real merchantability in this stand.
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>		
Black Spruce		10	Pole/Sapling	6			
Paper Birch		10	Sapling/Pole	4			
Balsam Poplar		5	Pole/Sapling	5			
Northern White Cedar		70	Pole/Sapling	6	126		
Red Maple		5	Pole/Sapling	5			
<b>Sub-Canopy Species</b>		<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>			
Tag Alder		Low	5 - 10 feet	Tall Shrub			
Black Spruce		Low	5 - 10 feet	Sapling			
<b>68</b>	629 - Mixed non-forested wetland	Nonstocked	14.1		Immature	No	
<b>69</b>	500 - Water	Nonstocked	5.5			No	
<b>70</b>	42200 - Natural White Pine	Sawtimber Well	10.9	162	81-110	N/A	Stand was thinned last entry as part of sale in adjacent compartment. Nice ridge of natural Red and white pine supercanopy. Some natural regeneration coming in nicely.
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>		
Red Pine		30	Log	14			
White Pine		70	Log	15	162		
<b>Sub-Canopy Species</b>		<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>			
White Pine		Low	5 - 10 feet	Sapling			
Conifers		Low	Variable	Sapling			
<b>71</b>	4134 - Aspen, Spruce/Fir	Poletimber Well	29.6	38	81-110	N/A	Stand is left from harvest to adjacent stand. Stand of variable composition and quality. Areas of big aspen/ bam and fir. Some lower wet areas with smaller diameter
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>		
Quaking Aspen		45	Pole	9	38		
Balsam Fir		25	Pole/Sapling	6			
Northern White Cedar		10	Pole	6			
Balsam Poplar		15	Pole	7			
Paper Birch		5	Pole	6			



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																
<b>72</b>	6130 - Fir, Aspen, Maple	Sapling Well	11.3	23	51-80	N/A	Variable composition stand of younger aspen with older spruce/fir. Similar to stand 76. Only access is from private to the west or through compartment 45201																																																
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<b>73</b>	6120 - Lowland Cedar	Poletimber Well	17.6	77	141-170	N/A	Almost pure cedar stand. Some balsam poplar, black spruce, and paper birch near southern end of stand. Stand is almost completely saturated and flooded during spring break up.																																																
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<b>74</b>	790 - Other Bare/Sparsely Vegetated	Nonstocked	2.2			No	Appears to be an old food plot/field from previous owner. A few planted red and white pine saplings growing on edge. 2 planted red oak saplings also.																																																
<b>75</b>	500 - Water	Nonstocked	7.1		Unspecified	No																																																	
<b>76</b>	4319 - Mixed Upland Forest	Sapling Well	18.8	23	51-80	N/A	Stand looks to have been cut around 22-23 years ago, young aspen growing where overstory was cut, older spruce/fir left that were not cut. Cedar along edge near wetland																																																
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																									
77	4119 - Mixed Northern Hardwoods	Sapling Well	7.2	18	Immature	N/A	Cut as part of Broken Buck Hardwood 45-102-04																																																									
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78	6112 - Lowland Aspen	Sapling Well	49.1	23	Immature	N/A	Young aspen with fir. Mostly wet ground with tag alder growing in wettest areas																																																									
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79	6112 - Lowland Aspen	Sapling Medium	8.3	40	1-50	N/A	Stand is sparse aspen and mix of conifer. Very low ground and poor quality trees. Not much merchantability here.																																																									
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80	6112 - Lowland Aspen	Poletimber Well	26.1	84	81-110	N/A	Variable composition and density stand of aspen/bam with spruce and fir, low wet ground. Areas of large aspen with spruce/fir regen, pockets of spruce/fir poles, and areas of almost pure medium pole sized aspen and bam																																																									
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81	6229 - Mixed lowland shrub	Nonstocked	10.1			No	Cattails and tag alder																																																									



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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**82**      6111 - Lowland Balsam Poplar      Poletimber Poor      12.9      41      1-50      N/A

Wet stand of small diameter, poor quality aspen mix. Fringed of wetland area. Little merchantability here. Much of stand has flooded, many overstory trees are dead, aspen regen establishing where dry.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen	20	Log	13		Balsam Poplar	Low	5 - 10 feet	Sapling
Black Spruce	10	Sapling/Pole	4		Quaking Aspen	Low	5 - 10 feet	Sapling
Balsam Poplar	60	Pole/Sapling	5	41				
Tamarack	10	Sapling/Pole	4					

**83**      6111 - Lowland Balsam Poplar      Poletimber Medium      8.1      41      Unspecified      N/A

Used to be part of stand 47 and 82. Stand is cut off from rest of compartment by wetland. Only possible access is through adjacent compartments to the south, if any access at all. Species data is from old inventory.

Canopy Species	% Cover	Size Class	DBH	Age
Quaking Aspen	20	Sapling/Pole	4	
Black Spruce	10	Sapling/Pole	4	
Tamarack	10	Sapling/Pole	4	
Balsam Poplar	60	Pole/Sapling	5	41