



Compartment Review Presentation

Sault Ste. Marie Forest Management Unit

Compartment 45198

Entry Year 2023

Acreage: 1,651

County Mackinac

Management Area: Battydoe Deer Yard

Stand Examiner: Andrew Krugh

Legal Description:

T41N R11W Sec 5 W1/2NE, SENE, N1/2N1/2SE, N1/2N1/2SW, E1/2NW, Sec 6 S1/2NE, N1/2SE, N1/2SW, W1/2NW, SENW
T42N R11W Sec 31 NE, N1/2SE, W1/2NE, SENE Sec 32 NE, N1/2SE, SESE W1/2SWSE, SW, NW

Identified Planning Goals:

Soil and topography:

The topography of the compartment is relatively level ground. Low-lying wet ground mixed with higher dry ground. The soils present are as follows: Kalkaska sand, Guardlake fine sandy loam, Paquin sand, Markey and Carbondale mucks, Spot-Finch Complex, Springlake, Solona loam, losco sand, Heinz sandy loam, Battydoe fine sandy loam, Mattix sandy loam, Angellica muck, Amadon-Rockoutcrop, Markey-Spot-Finch, Paquin-Finch, Leafriver mucky peat, Bowers silt, Superior fine sandy loam, Histosols and Aquents, ponded, and Pits, sand and gravel.

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

Most of the land within the compartment boundaries is State of Michigan land. There is a block of private land along the Leveille Road comprised of numerous land owners along with a couple other 40 acre private parcels with the compartment. The compartment is bordered on the north by Mead Corporation land, with State of Michigan land bordering to the south, east, and west.

Unique Natural Features:

An active eagle's nest is located in the Mead Corporation land adjacent to the compartment. Stand 26 in Section 32 is comprised of a corridor buffering an intermittent stream. This stream shows evidence of an underground flow and possible unique Karst Features. Wooded Dune and Swale Complex in southern half of Section 6. Potential for Osprey ranging into the compartment. Red Shouldered and Red Tailed hawk activity within the compartment.

Archeological, Historical, and Cultural Features:

The Newton Township Cemetery is located along Leveille Road in Section 32 (approx. 12 acres).

Special Management Designations or Considerations:

Watershed and Fisheries Considerations:

This compartment contains Bruders Lake, an unnamed waterbody, Point Patterson Creek, and Hudson Creek. Bruders Lake and the unnamed waterbody are inland lakes. 100' plus 5' per 1% increase in slope; buffers are recommended for Bruders Lake and the unnamed waterbody to protect riparian areas in accordance with Best Management Practices. Point Patterson Creek and Hudson Creek are designated Type 1 trout streams less than 50' width. 300' buffers are recommended for Point Patterson Creek and Hudson Creek 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.

Wildlife Habitat Considerations:

This compartment is part of the Battydoe Deer Yard Management Area where featured wildlife species include red-shouldered hawk, ruffed grouse, snowshoe hare, and white-tailed deer. Northern hardwoods dominate much of the eastern side. The southwest consists of cedar and other lowland types as well mixed types, while the northwest contains through aspen mixed upland deciduous between the northern hardwoods further east and cedar swamp to the northwest. The area is used heavily by wintering deer. Lowland conifers provide important cover from winter conditions. Northern hardwoods provide habitat for red-shouldered hawks and other birds. Beech bark disease caused most beech to die out. Oak were planted in parts of a larger northern hardwood stand to provide another source of hard mast. Hudson Creek flows through the southwest, and Bruders Lake is located in the southeast.

Wildlife objectives will focus on protecting lowland conifer areas that provide suitable cover for wintering white-tailed deer, maintaining diversity in northern hardwood stands, and protecting riparian habitats. Northern hardwoods have been treated in the past and will generally be left to mature this entry, providing habitat for hawks and other species. Conifer stands, particularly cedar, will generally be left to provide cover for deer and habitat for other species. Other types will also generally be left. The few treatments that take place will occur during the winter months to provide an additional source of browse to deer during the critical winter months.

Mineral Resource and Development Concerns and/or Restrictions

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 known active mineral production sites occur in the area. There may be some sand & gravel potential within the compartment. High-purity bedrock dolomite is at or very near the surface here and the north half of the compartment has been extensively drilled and sampled to explore mineral potential. Wetlands and a shallow water table in the area could make surface mining more costly. The State does not own all the mineral rights within the compartment and may or may not own the rights to the non-metallic minerals depending on deed language. Because the mineral estate is the dominant estate, reasonable access to the surface must be provided to private owners if they choose to explore or develop their mineral rights.

Vehicle Access:

Access to the compartment is primarily from South Gould City Road (paved county road) on the eastern border, and also the Leveille Road (gravel county road), which runs east and west through the center of the compartment. Other access points are via trail roads running into various parts of the compartment from the South Gould City and Leveille Roads. Any new roads constructed for harvesting purposes will be blocked to vehicle traffic once the sale is complete.

Survey Needs:

Recreational Facilities and Opportunities:

e primary form of recreation is hunting, both deer and small game, along with some trapping and berry picking. ORV use is fairly prevalent along the trail roads in the compartment. Snowmobile use is limited. Evidence of illegal ORV activity relating to deer hunting/deer blinds.

Fire Protection:

Fire protection is not a major concern with the low ground related timber types and high component of hardwoods in the compartment. The only concern for access in a fire situation would be in southern part of Section 6. All other portions of the compartment have reasonable access for fire protection. Prescribed burning could be used as an option for opening maintenance. Newton Township VFDs are responsible for mutual aid in this compartment.

Additional Compartment Information:

The following reports from the Inventory are attached:

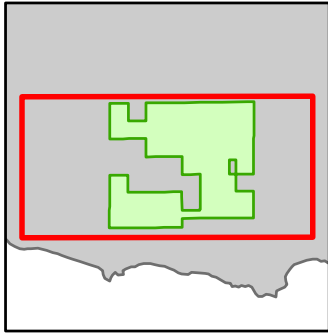
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

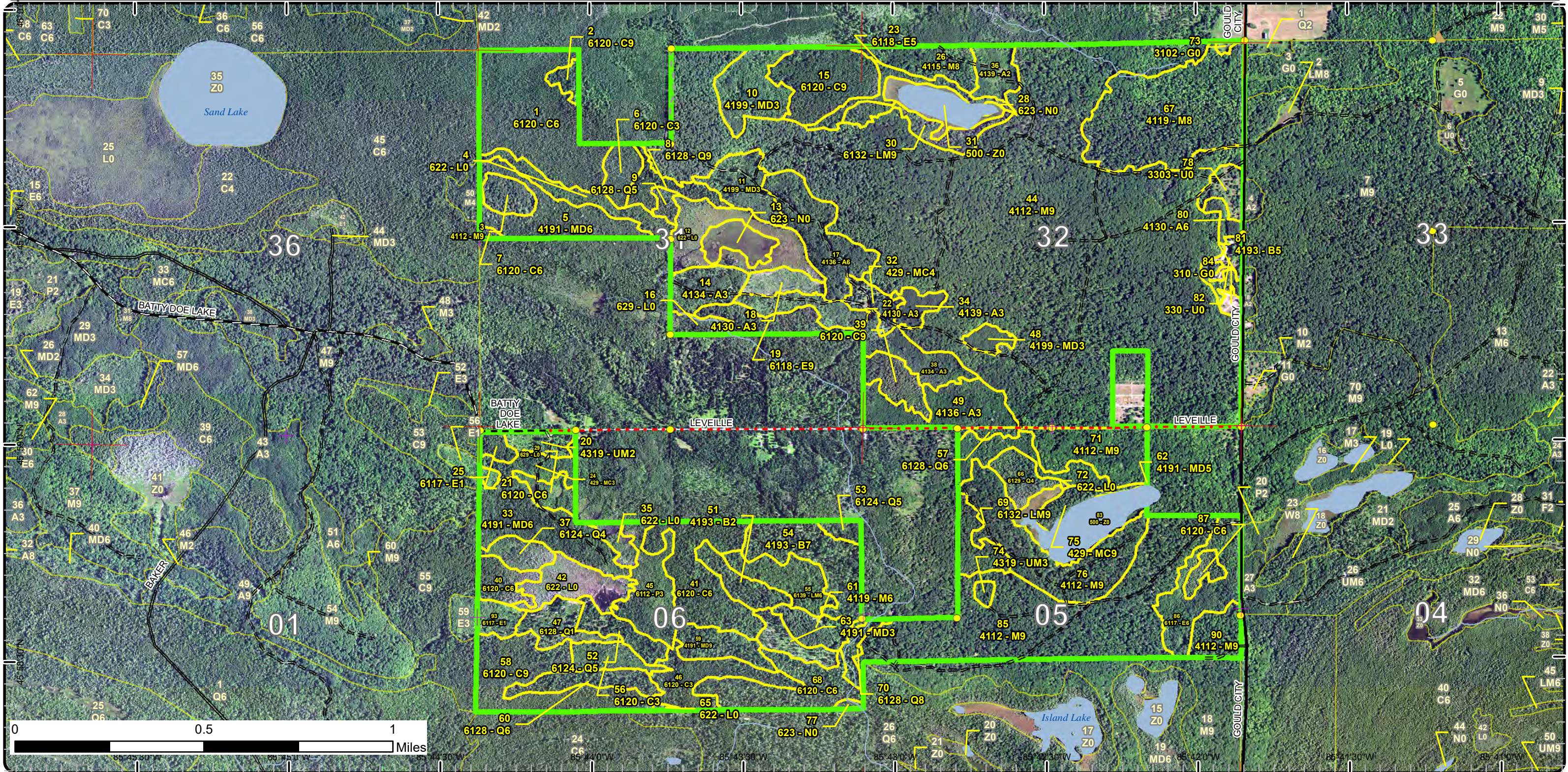
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

Stand Boundary Map

Compartment: 198
 T42N, R11W, Sec: 31, 32
 T41N, R11W, Sec: 5, 6
 County: Mackinac
 Unit: Sault Ste. Marie
 Mgmt Area: Battydoe Deer Yard
 YOE: 2023
 Acres: 1650.7 GIS Calculated
 Examiner: Andrew Krugh
 Map Revised: 1/28/2022
 Map Phase: Post Review



- Miris Corners
- + Remonumented Section Corners
- Survey Grade Corners
- Counties
- DNR - Primary Forest Road
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Federal / State / County - Paved Road
- Federal / State - Dirt / Gravel Road
- County - Gravel Road
- Private - Dirt / Gravel Road
- ▲ Berms
- ⊕ Cemetery
- Intermittent Stream
- Island in Lake or River
- Lake/Pond
- Perennial River
- Lakes and Rivers
- Compartment Boundary
- Stand Boundaries
- 330 - Low Density Trees
- 500 - Water
- 622 - Lowland Shrub
- 623 - Emergent Wetland
- 629 - Mixed Non-forested Wetland
- 411 - Northern Hardwood
- 413 - Aspen
- 419 - Mixed Upland Deciduous
- 429 - Mixed Upland Conifers
- 430 - Upland Mixed Forest
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 613 - Lowland Mixed Forest
- 310 - Herbaceous Openland



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	8	21	33	54	0	0	0	0	0	0	0	0	0	0	0	0	0	116
Cedar	0	0	0	0	0	9	0	0	0	0	67	5	23	79	59	0	0	0	242
Herbaceous Openland	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
Low-Density Trees	11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	11
Lowland Aspen/Balsam Poplar	0	0	0	0	0	20	0	0	0	0	0	0	0	0	0	0	0	0	20
Lowland Conifers	0	0	12	0	0	18	0	3	0	0	18	12	0	2	9	0	0	0	74
Lowland Deciduous	0	0	8	0	0	0	0	0	0	0	46	0	0	0	0	0	0	0	54
Lowland Mixed Forest	0	0	0	0	0	0	0	0	0	0	27	10	0	0	0	0	0	0	37
Lowland Shrub	78	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	78
Marsh	20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	20
Mixed Upland Deciduous	0	8	19	20	40	29	0	0	0	0	0	12	0	0	0	0	0	0	128
Northern Hardwood	0	0	0	0	10	0	0	0	0	48	694	25	0	0	0	0	0	0	777
Paper Birch	0	10	0	0	4	0	0	0	0	0	26	0	0	0	0	0	0	0	40
Upland Conifers	0	0	7	0	9	0	0	0	0	7	0	0	0	0	0	0	0	0	23
Upland Mixed Forest	0	0	6	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8
Water	22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	22
Total	134	26	73	55	117	76	0	3	0	55	878	64	23	81	68	0	0	0	1653



Report 2 – Treatment Summary

Sault Ste. Marie Mgt. Unit
Year of Entry: 2023

Acres of Harvest

Compartment 198
Total Compartment Acres: 1,651

Commercial Harvest - 54
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	4	0	0	0	0	0	0	0	0	4
Lowland Conifers	3	0	0	0	0	0	0	0	0	3
Lowland Deciduous	32	0	0	0	0	0	0	0	0	32
Lowland Mixed Forest	15	0	0	0	0	0	0	0	0	15
Total	54	0	0	0	0	0	0	0	0	54

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	54	0	0	0	0	0	0	0	0	54
Next Step	0	0	0	0	0	54	0	0	0	54
Total	54	0	0	0	0	54	0	0	0	108



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:

19	45198019-Cut	7.2	6118 - Lowland Deciduous with Cedar	Sawtimber Well	98	81-110	Harvest	Clearcut with Retention	611 - Lowland Deciduous Forest	Even-Aged	No
<p><u>Prescription</u> Cut all species 2 inches and greater except do not cut cedar and hemlock where present. Leave 3 to 10 percent retention and cut in winter. <u>Specs:</u> Acreage may change depending on conditions when set up. <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u> <u>Acceptable Regen:</u> Moderate to fully stocked Maple, Aspen, Birch, Fir, Spruce, cedar. <u>Other Comment:</u> Retention is already within stand for trout stream protection. <u>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /2022</p>											

42	45198042-Spray	0.3	622 - Lowland Shrub	Nonstocked			Pesticide	Hand Application	622 - Lowland Shrub		No
<p><u>Prescription</u> Treat phragmites for removal. <u>Specs:</u> <u>Next Step</u> Monitoring, Invasive Species <u>Treatments:</u> <u>Acceptable Regen:</u> <u>Other Comment:</u> <u>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /2022</p>											

53	45198053-Cut	3.3	6124 - Lowland Spruce-Fir	Poletimber Medium	64	51-80	Harvest	Clearcut	612 - Lowland Coniferous Forest	Even-Aged	No
<p><u>Prescription</u> Cut all species down to 4 inches in DBH. Leave all cedar. No retention due to small size. <u>Specs:</u> <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u> <u>Acceptable Regen:</u> Moderate to fully stocked Spruce, aspen, maple, fir, and cedar. <u>Other Comment:</u> Bridge will be needed. <u>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /2022</p>											



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
55	45198055-Cut	15.3	6139 - Mixed Lowland Forest	Poletimber Well	94	81-110	Harvest	Clearcut	613 - Lowland Mixed Forest	Even-Aged	No
<p><u>Prescription</u> Cut all species down to 4 inches in DBH. Leave all cedar. No retention due to small size.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Moderate to fully stocked Aspen, Maple, Birch, Pine, Fir, and Cedar.</p> <p><u>Regen:</u></p> <p><u>Other</u> Bridge will be needed.</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2022</p>											
80	45198080-Cut	3.6	4130 - Aspen	Poletimber Well	36	141- 170	Harvest	Clearcut	413 - Aspen	Even-Aged	No
<p><u>Prescription</u> Cut all species 2 inches and greater in dbh. Don't cut any white pine under 6 inches 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</u> Moderate to fully stocked aspen, maple, beech, fir and paper birch.</p> <p><u>Regen:</u></p> <p><u>Other</u> No retention due to small size.</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2022</p>											
86	45198086-Cut	24.3	6117 - Lowland Deciduous, Mixed Coniferous	Poletimber Well	99	111- 140	Harvest	Clearcut with Retention	613 - Lowland Mixed Forest	Even-Aged	No
<p><u>Prescription</u> Cut all deciduous 2 inches and greater at DBH. Cut all Conifer 4 inches and greater. Do not cut any cedar or hemlock where present. Leave some cherry. Cut in dry summer or winter because of ground conditions. Leave 3-10% retention where deemed best by person setting up the stand. Acreage may change depending on ground conditions when set up.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Moderate to fully stocked Aspen, Maple, Fir, Pine, Birch, and Cedar</p> <p><u>Regen:</u></p> <p><u>Other</u> Recommend access from north west off road in stand 85.</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2022</p>											

Total Treatment 54
Acreage Proposed:

Report 4 – Site Conditions

Sault Ste. Marie Mgt. Unit

Andrew Krugh : Examiner

Compartment: 198

Year of Entry: 2023

Availability for Management

Total Acres	Acres Available	Acres Avail		Acres Not Available		Dominant Site Conditions									
		With Condition				5B	5C	2G	2H	3A	3H	3J	3L		
116	116	0		0	Aspen										
238	6	0		232	Cedar					87	145				
3	3	0		0	Herbaceous Openland										
11	11	0		0	Low-Density Trees										
20	16	0		4	Lowland Aspen/Balsam Poplar					4					
73	21	0		53	Lowland Conifers			19		31		3			
53	38	0		15	Lowland Deciduous			9		1		5	0		
37	25	0		12	Lowland Mixed Forest			0							12
78	78	0		1	Lowland Shrub					1		0			
20	19	0		1	Marsh					1					0
128	64	29		34	Mixed Upland Deciduous		29	0	25	9					
778	771	0		8	Northern Hardwood			0	8	0					
40	14	26		0	Paper Birch	26									
23	23	0		0	Upland Conifers			0							
8	8	0		0	Upland Mixed Forest										
22	22	0		0	Water										
1,648	1,234	56		358	Total Forested Acres	26	29	28	32	133	145	8	12		
	75%	3%		22%	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	3H: Deer Wintering Area - habitat is incompatible with harvest at this time	9	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Sault Ste. Marie Mgt. Unit

Andrew Krugh : Examiner

Compartment: 198

Year of Entry: 2023

2	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	8	2B: Unknown if access through adjacent landowner(s) is possible	Unspecified	Unspecified	Unspecified
Comments:							
3	Unavailable	3A: Conservation Values incompatible with harvest at this time	134	Unspecified	Unspecified	Unspecified	Unspecified
Comments: WDS ERA, DHA for pileated woodpecker, blackburnian warbler, northern parula.							
4	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	25	2B: Unknown if access through adjacent landowner(s) is possible	Unspecified	Unspecified	Unspecified
Comments:							
5	Unavailable	3H: Deer Wintering Area - habitat is incompatible with harvest at this time	4	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
6	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	9	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Sault Ste. Marie Mgt. Unit

Andrew Krugh : Examiner

Compartment: 198

Year of Entry: 2023

7	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	10	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
8	Unavailable	3L: Other wildlife concerns	12	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
9	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	29	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
10	Available	5B: Maintain for regeneration purposes	26	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
11	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	9	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
13	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Sault Ste. Marie Mgt. Unit

Andrew Krugh : Examiner

Compartment: 198

Year of Entry: 2023

15	Unavailable	3H: Deer Wintering Area - habitat is incompatible with harvest at this time	11	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
16	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	5	3L: Other wildlife concerns	5E: Long-Term Retention	Unspecified	Unspecified
Comments: 300 foot buffer for trout steam.							
17	Unavailable	3H: Deer Wintering Area - habitat is incompatible with harvest at this time	55	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
18	Unavailable	3H: Deer Wintering Area - habitat is incompatible with harvest at this time	8	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
19	Unavailable	3H: Deer Wintering Area - habitat is incompatible with harvest at this time	27	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
20	Unavailable	3H: Deer Wintering Area - habitat is incompatible with harvest at this time	4	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Sault Ste. Marie Mgt. Unit

Andrew Krugh : Examiner

Compartment: 198

Year of Entry: 2023

21	Unavailable	3H: Deer Wintering Area - habitat is incompatible with harvest at this time	33	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

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



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 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.
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	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
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1	6120 - Lowland Cedar	Poletimber Well	54.5	98	111-140	N/A	Lots of blowdown and dead cedar in understory. Difficult to walk through.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Northern White Cedar	90	Pole/Sapling	6	98	Tag Alder	Medium	5 - 10 feet	Tall Shrub
Tamarack	2	Sapling	4		Balsam Fir	Low	< 5 feet	Sapling
White Pine	3	Pole	6					
Black Spruce	5	Sapling	4					

2	6120 - Lowland Cedar	Sawtimber Well	3.7	103	111-140	N/A	Mostly cedar with some large yellow birch and red maple, but they look unhealthy. More open understory than adjacent stand. Lots of tag alder and smaller cedar at edges.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Paper Birch	5	Pole	6		Tag Alder	Low	10 - 20 feet	Tall Shrub
Balsam Fir	10	Pole	6		Red Maple	Medium	< 5 feet	Sapling
Red Maple	10	Log/Pole	12		Balsam Fir	Medium	< 5 feet	Sapling
Black Spruce	5	Pole	5					
Yellow Birch	15	XLog/Log	18					
Northern White Cedar	55	Log/Pole	10	103				

3	4112 - Maple, Beech, Cherry Association	Sawtimber Well	7.7	86	81-110	N/A	Poor quality northern hardwood stand. Beech has BBD. OI (M6): limiting factored (inadequate volume due to small acreage, too wet, existing bridge out or unsafe).
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Yellow Birch	18	Pole	8		Red Maple	Low	10 - 20 feet	Sapling
Beech	40	Pole/Log	8	86	Beech	Medium	< 5 feet	Sapling
Sugar Maple	25	Log/Pole	10		Sugar Maple	Low	>20 feet	Sapling
Black Cherry	7	Log/Pole	10		Black Cherry	Low	>20 feet	Sapling
Red Maple	10	Log/Pole	10		Balsam Fir	Medium	5 - 10 feet	Sapling

4	622 - Lowland Shrub	Nonstocked	13.0			No	
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5	4191 - Mixed Upland Deciduous with Conifer	Poletimber Well	24.6	35	111-140	N/A	Poor quality stand. Beech has BBD. Heavy browse on understory saplings.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Paper Birch	15	Pole/Sapling	6		Red Maple	Medium	< 5 feet	Sapling
Pin Cherry	30	Sapling/Pole	4	35	Balsam Fir	Medium	< 5 feet	Sapling
Yellow Birch	5	Pole/Sapling	5					
White Spruce	2	Sapling	2					
Red Maple	10	Pole/Sapling	5					
Balsam Fir	20	Pole/Sapling	5					
Beech	8	Pole/Sapling	6					
Black Cherry	10	Sapling	3					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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6	6120 - Lowland Cedar	Sapling Well	8.0	96		N/A	Dense cedar saplings/poles and tag alder. Very wet. Contains headwaters tributary of Hudson Creek.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Northern White Cedar		85	Sapling/Pole	4	96	Tag Alder		Medium	5 - 10 feet	Tall Shrub
Tamarack		5	Sapling	4		Balsam Fir		Low	< 5 feet	Sapling
White Pine		5	Log/XLog	16						
Black Spruce		5	Sapling	4						

7	6120 - Lowland Cedar	Poletimber Well	1.0	108	Unspecified	N/A				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Northern White Cedar		88	Pole/Sapling	6	108	Tag Alder		Low	5 - 10 feet	Tall Shrub
Tamarack		2	Sapling	3		Balsam Fir		Low	< 5 feet	Sapling
Red Maple		5	Sapling	4						
Black Spruce		5	Sapling	3						

8	6128 - Lowland Coniferous, Mixed Deciduous	Sawtimber Well	9.4	133	111-140	N/A				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Balsam Fir		5	Pole/Log	8		Tag Alder		Medium	10 - 20 feet	Tall Shrub
Red Maple		20	Log/Pole	10		Balsam Fir		High	5 - 10 feet	Sapling
Northern White Cedar		40	Log/Pole	12	133					
Paper Birch		20	Log/Pole	12						
Tamarack		10	Pole/Log	8						
White Spruce		5	Pole/Log	8						

9	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Medium	3.0	93	81-110	N/A	Stand contains tributary of Hudson Creek.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Tamarack		40	Pole/Sapling	6	93	Paper Birch		Low	10 - 20 feet	Sapling
Northern White Cedar		35	Pole	8		Balsam Fir		Medium	5 - 10 feet	Sapling
Black Ash		20	Sapling	4		Tag Alder		Medium	10 - 20 feet	Tall Shrub
Balsam Fir		5	Sapling	4						



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																										
10	4199 - Other Mixed Upland Deciduous	Sapling Well	19.7	24	Immature	N/A	Lost Radiator sale, cut in 1997. WLD planted 200-300 white pine in areas where regeneration is not as thick and these are present in subcanopy. Overall upland but with some areas of standing water. Aspen regeneration is patchy.																																																										
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11	4199 - Other Mixed Upland Deciduous	Sapling Well	14.6	16	Immature	N/A	Regenerating clearcut (saplings) with overstory paper birch. Part of Hawk Hardwood Sale, 45-129-04-01, Unit 9. B6. Finished cutting ~12/2005.																																																										
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12	622 - Lowland Shrub	Nonstocked	24.6			No	Shrubby vegetation including tag alder and with a buffer of sapling/pole sized trees along outer edge. Tree species include balsam fir, paper birch, black cherry, red maple, and white spruce.																																																										
13	623 - Emergent Wetland	Nonstocked	9.6			No	Old notes suggest waterfowl work possible around edges (JT 2001). Probably bog vegetation but there was too much snow to observe(KA 2011)																																																										
14	4134 - Aspen, Spruce/Fir	Sapling Well	12.8	23	Immature	N/A	Part of Lost Radiator sale, cut in 1998. Includes small areas of poor regen that are either grassy openings or contain more spruce than aspen. Part of stand south of road contains patches of tag alder. White pine canopy includes saplings and supercanopy white pine in Log/XL class (~8%).																																																										
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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15 6120 - Lowland Cedar Sawtimber Well 26.6 131 141-170 N/A High BA cedar with relatively open understory.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Black Spruce	5	Pole	6		Black Ash	Low	10 - 20 feet	Sapling
Northern White Cedar	80	Log/Pole	10	131	Tag Alder	Low	5 - 10 feet	Tall Shrub
Paper Birch	15	Pole/Log	8		Balsam Fir	Medium	5 - 10 feet	Sapling

16 629 - Mixed non-forested wetland Nonstocked 4.9 No

17 4136 - Aspen, Mixed Conifer Poletimber Well 26.1 35 141-170 N/A Stand was cut in 1/1986. Looks to be originally choppers choice (Dean). Aspen is mostly sapling-sized with occasional pole-size tree.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Bigtooth Aspen	30	Pole/Sapling	5	35	White Spruce	Low	5 - 10 feet	Sapling
Paper Birch	10	Pole/Sapling	6		Balsam Fir	Medium	< 5 feet	Sapling
White Spruce	5	Pole	6		Beech	Low	< 5 feet	Sapling
Quaking Aspen	20	Pole/Sapling	5					
White Pine	10	Pole/Log	8					
Red Maple	20	Pole/Sapling	5					
Balsam Fir	5	Sapling/Pole	4					

18 4130 - Aspen Sapling Well 7.7 8 Immature N/A Cut in 2014.

Canopy Species	% Cover	Size Class	DBH	Age
Bigtooth Aspen	15	Sapling	1	
Balsam Fir	10	Sapling	1	
Quaking Aspen	50	Sapling	1	8
Red Maple	25	Sapling	1	

19 6118 - Lowland Deciduous with Cedar Sawtimber Well 12.6 98 81-110 N/A West half of stand is more hardwood (especially yellow birch) and drier, east half is more cedar and wetter.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	5	Pole	7		Tag Alder	Low	5 - 10 feet	Tall Shrub
Black Ash	2	Pole/Sapling	7		Red Maple	Low	< 5 feet	Sapling
Yellow Birch	19	Log/Pole	10		Balsam Fir	Medium	5 - 10 feet	Sapling
Northern White Cedar	20	Pole	8					
Red Maple	22	Log/Pole	10	98				
White Spruce	10	Pole/Log	9					
Paper Birch	20	Log/Pole	10	98				
Tamarack	2	Pole	7					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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20	4319 - Mixed Upland Forest	Sapling Medium	6.4	13	201+	N/A	Part of Lost Radiator II sale, 45-130-04-01, Unit 1 (B6). Clearcut. Finished 3/2008. Regenerating clearcut with overstory retention scattered and in clumps. Includes some recent large blow-downs. Contains turnaround at end of county-plowed section of Leveille Road.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Beech	2	Sapling	1		Blackberry/Raspberry	Medium	< 5 feet	Tall Shrub
White Spruce	5	Sapling/Pole	4					
Hemlock	5	Log	16					
Paper Birch	24	Sapling/Pole	2	13				
Northern White Cedar	12	Pole/Log	8					
Red Maple	20	Sapling	1					
Quaking Aspen	5	Sapling/Pole	4					
Tamarack	2	Pole	8					
Yellow Birch	2	Sapling/Pole	4					
Balsam Fir	5	Sapling	4					
White Pine	18	XLog/Log	18					

21	6120 - Lowland Cedar	Poletimber Well	3.6	114		N/A	Overall upland but with some wet spots (sphagnum).
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Northern White Cedar	60	Pole/Log	8	114	Tag Alder	Low	10 - 20 feet	Tall Shrub
Red Maple	10	Log	12		Balsam Fir	Medium	5 - 10 feet	Sapling
White Pine	5	XLog/Log	18		Red Maple	Low	5 - 10 feet	Sapling
Paper Birch	20	Pole/Log	8					
Black Ash	3	Sapling	4					
White Spruce	2	Pole	6					

22	4130 - Aspen	Sapling Well	11.4	14	Immature	N/A	Part of Hawk Hardwood Sale, 45-129-04-01, Unit 12. F6 clearcut. Finished cutting 5/2007.
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Canopy Species	% Cover	Size Class	DBH	Age
Bigtooth Aspen	25	Sapling	1	
Paper Birch	10	Sapling	1	
Black Cherry	5	Sapling	1	
Red Maple	10	Sapling	1	
Balsam Fir	10	Sapling	1	
Quaking Aspen	40	Sapling	1	14

23	6118 - Lowland Deciduous with Cedar	Poletimber Medium	8.9	94	81-110	N/A	Tall trees at mostly at (drier) edges. Interior is mostly smaller cedar.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Paper Birch	10	Pole	6		Balsam Fir	Medium	5 - 10 feet	Sapling
Red Maple	25	Pole	8		Red Maple	Low	10 - 20 feet	Sapling
Northern White Cedar	35	Log/Pole/Sap	10	94				
Balsam Fir	5	Pole/Sapling	5					
Yellow Birch	15	Log/Pole	10					
Black Ash	10	Pole/Sapling	5					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																							
24	429 - Mixed Upland Conifers	Sapling Well	9.0	33	81-110	N/A	Very dense spruce/fir but small diameter trees.																																																							
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25	6117 - Lowland Deciduous, Mixed Coniferous	Sapling Poor	1.4	13	171-200	N/A	Heavy browse on regen.																																																							
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Blackberry/Raspberry	High	< 5 feet	Tall Shrub																																																											
26	4115 - Y.Birch, Hemlock NH	Sawtimber Medium	14.3	106	51-80	N/A	Hawk Hardwood Sale, 45-129-04-01, Unit 2. M6 thinning. Finished cutting 2/15/07.																																																							
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28	623 - Emergent Wetland	Nonstocked	9.3			No																																																								
29	629 - Mixed non-forested wetland	Nonstocked	6.4			No	Interior is wet shrubby vegetation including tag alder and cattails. Edges are somewhat forested: balsam poplar, paper birch, cedar. Shows signs of beaver activity in multiple locations along stream.																																																							
30	6132 - Mixed Lowland Forest with Cedar	Sawtimber Well	11.9	98	81-110	N/A	Hemlock is dying.																																																							
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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31 500 - Water Nonstocked 5.7 Unspecified No

32 429 - Mixed Upland Conifers Poletimber Poor 7.2 18 51-80 N/A

Canopy Species	% Cover	Size Class	DBH	Age
White Spruce	15	Sapling/Pole	4	
Quaking Aspen	25	Sapling/Pole	3	
White Pine	55	Pole/Sapling	5	18
Balsam Fir	5	Sapling/Pole	4	

33 4191 - Mixed Upland Deciduous with Conifer Poletimber Well 29.4 43 111-140 N/A

Contains some slash and blowdowns. Look at cutting next entry or one after. Cut in 1978

Canopy Species	% Cover	Size Class	DBH	Age
Yellow Birch	10	Pole	8	
Balsam Poplar	10	Pole/Sapling	7	
Quaking Aspen	10	Pole	8	
White Spruce	10	Pole	9	
Red Maple	15	Pole	8	
Bigtooth Aspen	15	Pole	8	43
Paper Birch	15	Pole	8	
Balsam Fir	15	Pole	7	

Sub-Canopy Species	Density	Avg. Height	Size
Pin Cherry	Low	10 - 20 feet	Sapling
Balsam Fir	Low	< 5 feet	Sapling

34 4139 - Aspen, Mixed Deciduous Sapling Well 6.0 24 Immature N/A

Nicely regenerating aspen. A few scattered large white pine in overstory. Stand was cut in 1997.

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	20	Sapling	2	
White Pine	10	XLog/Log	18	
Sugar Maple	5	Pole/Sapling	6	
Bigtooth Aspen	25	Sapling	2	
Beech	3	Sapling	2	
Black Cherry	5	Sapling	1	
Quaking Aspen	30	Sapling	2	24
Striped Maple	2	Sapling	2	

35 622 - Lowland Shrub Nonstocked 4.8 No

Appears to be flooded by beavers. Lots of tag alder, cattails, and standing dead trees. Some living cedar and spruce.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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36 4139 - Aspen, Mixed Deciduous Sapling Medium 9.5 14 Immature N/A Hawk Hardwood Sale, 45-129-04-01, Unit 1. A6 clearcut. Finished cutting 3/1/07.

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	20	Sapling	1	
Black Cherry	20	Sapling	1	
Balsam Fir	5	Sapling	2	
Quaking Aspen	50	Sapling	1	14
Paper Birch	5	Sapling	1	

37 6124 - Lowland Spruce-Fir Poletimber Poor 7.5 43 1-50 N/A tall stumps, patchy canopy

Canopy Species	% Cover	Size Class	DBH	Age
White Spruce	20	Pole/Sapling	6	
Balsam Fir	20	Pole/Sapling	6	43
Tamarack	15	Pole	6	
Paper Birch	10	Sapling	3	
Northern White Cedar	5	Pole/Sap/Log	6	
Red Maple	15	Sapling	2	
Black Spruce	15	Sapling/Pole	4	

Sub-Canopy Species	Density	Avg. Height	Size
Red Osier Dogwood	Low	< 5 feet	Tall Shrub
Balsam Fir	Medium	5 - 10 feet	Sapling
Labrador Tea	Low	< 5 feet	Tall Shrub
Northern White Cedar	Low	< 5 feet	Sapling
Tag Alder	Medium	5 - 10 feet	Tall Shrub

38 4134 - Aspen, Spruce/Fir Sapling Well 14.3 24 201+ N/A Stand contains open areas with sparse regen. Stand was cut in 1997.

Canopy Species	% Cover	Size Class	DBH	Age
Balsam Fir	15	Sapling/Pole	4	
Quaking Aspen	20	Sapling	3	24
White Pine	10	Pole/Log	8	
Red Maple	20	Sapling	2	24
White Spruce	10	Sapling/Pole	4	
Bigtooth Aspen	20	Sapling	3	24
Black Cherry	5	Sapling	2	

Sub-Canopy Species	Density	Avg. Height	Size
Beech	Low	< 5 feet	Sapling
Red Maple	Low	< 5 feet	Sapling

39 6120 - Lowland Cedar Sawtimber Well 10.5 112 81-110 N/A

Canopy Species	% Cover	Size Class	DBH	Age
Balsam Fir	8	Pole/Sapling	6	
Paper Birch	15	Pole	8	
Northern White Cedar	50	Log/Pole	10	112
Red Maple	7	Pole	6	
Black Spruce	5	Sapling/Pole	4	
Balsam Poplar	5	Pole/Sapling	6	
White Pine	10	Log	14	

Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	High	10 - 20 feet	Sapling
Black Spruce	Low	10 - 20 feet	Sapling
Tag Alder	Low	10 - 20 feet	Tall Shrub



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																	
40	6120 - Lowland Cedar	Poletimber Well	9.2	118	81-110	N/A																																																		
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41	6120 - Lowland Cedar	Poletimber Well	32.5	130	111-140	N/A	Southeastern tail of stand contains clumps of large hemlock. North end is mostly cedar with some pockets of Q types.																																																	
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42	622 - Lowland Shrub	Nonstocked	16.6			No	Lots of tag alder, some living conifers. Flooded by beavers. Stumps from last cut are very evident. At least one visible beaver lodge. There is a patch of Phragmites (point in IFMAP Field Notes). It's probably native but is worth checking during the growing season.																																																	
44	4112 - Maple, Beech, Cherry Association	Sawtimber Well	502.5	99	81-110	N/A	Portions of the stand was thinned in 2014. An area was beech salvaged and an area was normal selection. Red oak planted around the cemetery by the Engadine Science class. Oak was under planted in 2015 by wildlife division. Portions of this stand was cut in 1983. BA for majority of the stand is around 90.																																																	
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45	6112 - Lowland Aspen	Sapling Well	20.2	43	171-200	N/A	Stand was cut in 1978																																																	
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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46	6120 - Lowland Cedar	Sapling Well	18.6	128	201+	N/A	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
White Spruce		5	Pole/Sapling	5		Balsam Fir	
Northern White Cedar		85	Sapling	3	128	Tag Alder	
Balsam Fir		10	Sapling	4		Density	
						Avg. Height	
						Size	

47	6128 - Lowland Coniferous, Mixed Deciduous	Sapling Poor	11.5	13	Immature	N/A	At least part is ridge and swale. White pine growing on ridges. Wetter in between.
Canopy Species		% Cover	Size Class	DBH	Age		
Red Maple		15	Sapling	1			
White Pine		30	Log/XLog/Pole	14	110		
Paper Birch		10	Sapling/Pole	4			
Black Ash		5	Sapling	3			
Balsam Fir		33	Sapling	1	13		
Yellow Birch		2	Sapling	2			
Hemlock		5	Log	12			

48	4199 - Other Mixed Upland Deciduous	Sapling Well	4.2	17	201+	N/A	Part of Hawk Hardwood Sale, 45-129-04-01, Unit 5. Finished cutting ~2005. Regenerating clearcut.
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Beech		10	Sapling	1		Blackberry/Raspberry	
Black Cherry		10	Sapling	1		Density	
Quaking Aspen		25	Sapling	1	17	Avg. Height	
Paper Birch		20	Sapling	1		Size	
Red Maple		25	Sapling	1	17		
Bigtooth Aspen		10	Sapling	1			

49	4136 - Aspen, Mixed Conifer	Sapling Well	24.2	34	201+	N/A	Contains overstory white pine and hemlock. Stand was cut in 1987
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Bigtooth Aspen		10	Sapling	2		Beech	
Black Cherry		5	Sapling	1		Density	
Red Maple		20	Sapling/Pole	2		Avg. Height	
White Pine		10	Log	12		Size	
Quaking Aspen		30	Sapling	2	34	Balsam Fir	
Hemlock		10	Log/Pole	12		Density	
Sugar Maple		5	Sapling	3		Avg. Height	
Balsam Fir		10	Sapling/Pole	4		Size	



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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51 4193 - Birch, Aspen Sapling Medium 10.0 9 Immature N/A Leveille Road Birch, sale 45-107-10-01 (part 2 of 2)

Canopy Species	% Cover	Size Class	DBH	Age
Yellow Birch	5	Sapling	1	
Red Maple	20	Sapling	1	
Hemlock	5	Log	12	
Sugar Maple	10	Sapling	1	
Northern White Cedar	5	Log	10	
Paper Birch	55	Sapling	1	9

52 6124 - Lowland Spruce-Fir Poletimber Medium 10.0 43 171-200 N/A Scattered openings (where ground is wetter?). Part of ridge and swale complex. Stumps from last cut are very evident. Cut in 1978

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Paper Birch	10	Pole/Sapling	5		Balsam Fir	Low	< 5 feet	Sapling
White Pine	25	Pole	7		White Pine	Low	< 5 feet	Sapling
Balsam Fir	30	Pole/Sapling	5	43	Tag Alder	Low	5 - 10 feet	Tall Shrub
Red Maple	5	Sapling	4		Balsam Poplar	Low	5 - 10 feet	Sapling
White Spruce	20	Pole/Sapling	5					
Balsam Poplar	10	Sapling	4					

53 6124 - Lowland Spruce-Fir Poletimber Medium 3.3 64 51-80 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Spruce	10	Pole	5		Balsam Fir	Low	Variable	Sapling
Northern White Cedar	25	Pole	9					
Black Spruce	45	Pole	6	64				
Red Maple	10	Pole	7					
Balsam Fir	10	Pole/Sapling	5					

54 4193 - Birch, Aspen Sawtimber Poor 26.3 96 1-50 N/A Leveille Road Birch, sale 45-107-10-01 (part 1 of 2)

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen	15	Log/XLog	13		Quaking Aspen	Medium	Variable	Sapling
Paper Birch	45	Log	10	96	Sugar Maple	Low	Variable	Sapling
Red Maple	35	Log	12		Red Maple	Medium	Variable	Sapling
Sugar Maple	5	Log/Pole	10		White Spruce	Trace	Variable	Sapling
					Paper Birch	High	Variable	Sapling
					Balsam Fir	Low	Variable	Sapling



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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55 6139 - Mixed Lowland Forest Poletimber Well 15.3 94 81-110 N/A Areas with more cedar but not really thermal cover for deer (JT 01)

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	30	Pole	8	94	Balsam Fir	High	Variable	Sapling
Northern White Cedar	10	Log/Pole	10		White Spruce	Medium	Variable	Sapling
Quaking Aspen	5	Pole/Sapling	7					
Paper Birch	15	Pole	6					
Balsam Fir	15	Pole	7					
White Spruce	25	Pole	7	94				

56 6120 - Lowland Cedar Sapling Well 8.7 43 201+ N/A Short (~15ft tall) and dense trees. Forest cover is patchy. Scattered wet areas contain cattails. Tag alder is part of canopy in many places. Cedar appears to have successfully regenerated after clearcut.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	8	Sapling	1		Tag Alder	Low	5 - 10 feet	Tall Shrub
White Pine	10	Sapling	3					
Paper Birch	7	Sapling	2					
Black Spruce	20	Sapling	2					
Northern White Cedar	55	Sapling	2	43				

57 6128 - Lowland Coniferous, Mixed Deciduous Poletimber Well 2.3 121 81-110 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Paper Birch	25	Pole	6		Striped Maple	Low	5 - 10 feet	Sapling
Hemlock	30	Pole/Log/Sap	8	121	Balsam Fir	Low	< 5 feet	Sapling
Balsam Fir	10	Pole	6					
Yellow Birch	5	Log/Pole	10					
Northern White Cedar	5	Pole	6					
Red Maple	10	Log/Pole	10					
White Spruce	15	Pole	8					

58 6120 - Lowland Cedar Sawtimber Well 35.1 126 171-200 N/A Dense cedar. Part of ridge and swale complex.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Northern White Cedar	75	Log/Pole	10	126	Labrador Tea	Medium	< 5 feet	Tall Shrub
Tamarack	5	Pole/Sapling	5		Tag Alder	Low	5 - 10 feet	Tall Shrub
Black Spruce	5	Pole/Sapling	6		Balsam Fir	Low	< 5 feet	Sapling
Paper Birch	5	Pole	9					
White Pine	10	Log	10					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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59 4191 - Mixed Upland Deciduous with Conifer Sawtimber Well 11.8 103 141-170 N/A

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	15	Pole/Log	8	
White Spruce	10	Pole	8	
Balsam Fir	5	Pole	6	
Hemlock	3	Pole	6	
Bigtooth Aspen	25	Log/Pole/XLog	12	
White Pine	7	Log	14	
Paper Birch	30	Log/Pole	10	103
Northern White Cedar	5	Pole	6	

Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	High	5 - 10 feet	Sapling

60 6128 - Lowland Coniferous, Mixed Deciduous Poletimber Well 11.7 103 201+ N/A Dense, low volume.

Canopy Species	% Cover	Size Class	DBH	Age
Northern White Cedar	28	Pole/Log/Sap	6	103
Red Maple	15	Sapling	4	
Tamarack	2	Pole/Sapling	5	
Paper Birch	10	Pole/Sapling	6	
White Pine	15	Log	12	
Black Spruce	25	Sapling	4	
Hemlock	5	Log/Pole	10	

Sub-Canopy Species	Density	Avg. Height	Size
Labrador Tea	Low	< 5 feet	Tall Shrub
Balsam Fir	Medium	5 - 10 feet	Sapling
Tag Alder	Low	5 - 10 feet	Tall Shrub

61 4119 - Mixed Northern Hardwoods Poletimber Well 10.0 33 51-80 N/A

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	15	Pole/Sapling	6	
Yellow Birch	10	Sapling	4	
Sugar Maple	35	Pole/Sapling	6	33
Pin Cherry	25	Sapling	4	
Black Cherry	15	Pole/Sapling	6	

Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	Low	5 - 10 feet	Sapling
Pin Cherry	Medium	10 - 20 feet	Sapling

62 4191 - Mixed Upland Deciduous with Conifer Poletimber Medium 14.8 36 81-110 N/A Cut winter of 2013

Canopy Species	% Cover	Size Class	DBH	Age
Paper Birch	12	Log/Pole	10	
Hemlock	3	Log/Pole	10	
White Spruce	5	Pole	7	
Black Ash	10	Pole	6	
Red Maple	40	Pole/Log	9	36
White Pine	20	Log	12	

Sub-Canopy Species	Density	Avg. Height	Size
Tag Alder	Low	5 - 10 feet	Tall Shrub
Serviceberry (Juneberry)	Low	10 - 20 feet	Sapling
Balsam Fir	High	5 - 10 feet	Sapling

Cut winter of 1984-85 (47-83A) Scattered white pine, hemlock, cedar, saved. about 20BA. (JT 2001)



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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63 4191 - Mixed Upland Deciduous with Conifer Sapling Well 8.4 9 Immature N/A Stand was cut in 2013.

Canopy Species	% Cover	Size Class	DBH	Age
Paper Birch	35	Sapling	1	9
White Pine	8	Log	14	
Red Maple	20	Sapling	1	
Balsam Fir	10	Sapling	1	
Yellow Birch	2	Sapling	1	
White Spruce	5	Sapling	1	
Bigtooth Aspen	10	Sapling	1	
Hemlock	10	Log/Pole	10	

65 622 - Lowland Shrub Nonstocked 0.7 No

66 6129 - Mixed Coniferous Lowland Forest Poletimber Poor 9.6 97 81-110 N/A Interesting mix of lowland and upland species but stand is definitely wet. Open and bog-like in many areas. Dense cedar in others.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Northern White Cedar	25	Pole	6	97	Black Spruce	Low	< 5 feet	Sapling
Black Spruce	15	Sapling/Pole	3		Labrador Tea	High	< 5 feet	Tall Shrub
Hemlock	10	Log/Pole/XLog	12		Red Maple	Low	10 - 20 feet	Sapling
Red Maple	15	Pole/Sapling	6		Tag Alder	Low	5 - 10 feet	Tall Shrub
White Pine	10	Log/Pole	10					
Tamarack	25	Sapling/Pole	4					

67 4119 - Mixed Northern Hardwoods Sawtimber Medium 65.6 95 51-80 N/A Intermittent stream along north edge, outside of sale area. Northern portion of stand is wetter and throughout the rest of the stand it could almost be typed as lowland with upland.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	30	Log/Pole	10	95	Balsam Fir	Low	< 5 feet	Sapling
Black Cherry	5	Pole	6		Red Maple	Low	5 - 10 feet	Sapling
Beech	15	Log/Pole	12		Striped Maple	Low	< 5 feet	Sapling
Sugar Maple	20	Log/Pole	10	95	Beech	High	5 - 10 feet	Sapling
Paper Birch	5	Log/Pole	10		Blackberry/Raspberry	Medium	< 5 feet	Tall Shrub
Yellow Birch	10	Pole/Log	8		Sugar Maple	Low	< 5 feet	Sapling
Northern White Cedar	15	Log	12		Black Cherry	Low	< 5 feet	Sapling

Part of Lone Track Hardwood Sale, 45-109-03-01, Units 1, 2, 3. M6 or M9 thinning. Finished cutting ~1/2007. BBD is heavy and beech snap has started. (KA 2011)

68 6120 - Lowland Cedar Poletimber Well 25.1 128 111-140 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Spruce	5	Pole	7		Tag Alder	Low	Variable	Tall Shrub
Northern White Cedar	85	Pole/Log	8	128	Balsam Fir	High	Variable	Sapling
Balsam Fir	10	Pole	7					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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69 6132 - Mixed Lowland Forest with Cedar Sawtimber Well 9.9 102 81-110 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Northern White Cedar	25	Log/Pole	12	102	Red Maple	Low	10 - 20 feet	Sapling
Paper Birch	10	Pole/Log	8		White Spruce	Low	< 5 feet	Sapling
Yellow Birch	20	Log	12		Balsam Fir	Low	< 5 feet	Sapling
Hemlock	15	Log/XLog	14					
Red Maple	20	Log	12					
White Pine	10	XLog/Log	18					

70 6128 - Lowland Coniferous, Mixed Deciduous Sawtimber Medium 4.9 94 81-110 N/A Hudson Creek runs through stand. could use portable bridge to cross if needed (JT 01)

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	10	Pole/Sapling	6		Hemlock	Low	10 - 20 feet	Sapling
White Spruce	10	Pole/Sapling	6		Tag Alder	Low	5 - 10 feet	Tall Shrub
Yellow Birch	6	Pole	8		Red Maple	Low	5 - 10 feet	Sapling
Northern White Cedar	20	Log	12		Balsam Fir	Low	Variable	Sapling
Balsam Fir	10	Pole	8					
Black Ash	5	Pole	7					
Paper Birch	15	Pole	6					
Hemlock	24	Log/XLog	14	94				

71 4112 - Maple, Beech, Cherry Association Sawtimber Well 23.6 98 81-110 N/A Stand was thinned in 2014. Still sitting around 90 BA

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Yellow Birch	10	Pole/Log	8		Striped Maple	Low	10 - 20 feet	Sapling
Red Maple	25	Log/Pole	10		Beech	Medium	5 - 10 feet	Sapling
Beech	5	Log/Pole	10	98	Sugar Maple	Low	>20 feet	Sapling
Sugar Maple	55	Log/Pole	10	98				
Black Cherry	5	Log/Pole	10					

72 622 - Lowland Shrub Nonstocked 7.2 No High density of tag alder and an unknown shrub.

Sub-Canopy Species	Density	Avg. Height	Size
Tag Alder	High		Tall Shrub

73 3102 - Grass Nonstocked 0.9 Unspecified No



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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74	4319 - Mixed Upland Forest	Sapling Well	1.9	23	201+	N/A	Poor quality stand.
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Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	20	Sapling/Pole	4	
White Pine	5	Pole	5	
Quaking Aspen	10	Sapling	2	
Black Cherry	10	Sapling/Pole	4	
Balsam Fir	25	Sapling/Pole	4	23
Sugar Maple	10	Sapling	1	
White Spruce	20	Pole	8	

Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	Medium	5 - 10 feet	Sapling
Beech	Low	< 5 feet	Sapling
Sugar Maple	Medium	< 5 feet	Sapling

75	429 - Mixed Upland Conifers	Sawtimber Well	6.6	83	81-110	N/A	Red maple in understory is stump sprouts and poor quality. Stand was cut in 84-85. Stand was originally part of stand to NE and separated out because of residual white pine and hemlock ba. (JT 01)
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Canopy Species	% Cover	Size Class	DBH	Age
White Pine	55	XLog/Log	20	83
Red Maple	13	Pole	6	
Hemlock	15	Log/XLog	14	
White Spruce	8	Log/Pole	10	
Paper Birch	7	Pole	6	
Black Cherry	2	Pole	6	

Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	High	10 - 20 feet	Sapling
Red Maple	Medium	>20 feet	Sapling

76	4112 - Maple, Beech, Cherry Association	Sawtimber Well	40.4	89	51-80	N/A	Stand was thinned in 2015. BA is on higher end of range.
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Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	30	Log	10	
Sugar Maple	50	Log/Pole/XLog	12	89
Paper Birch	5	Log	12	
Beech	5	Log/Pole/XLog	12	89
Yellow Birch	10	Log/Pole	10	

Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	Low	10 - 20 feet	Sapling
Sugar Maple	Low	10 - 20 feet	Sapling
Striped Maple	Low	10 - 20 feet	Sapling
White Spruce	Low	5 - 10 feet	Sapling
Beech	Medium	5 - 10 feet	Sapling

77	623 - Emergent Wetland	Nonstocked	1.0			No	
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78	3303 - Mixed Low Density Trees	Nonstocked	7.1			No	
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80	4130 - Aspen	Poletimber Well	3.6	36	141-170	N/A	Strange stand. Only a very small portion is log-sized aspen. Some is dense sapling-sized.
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Canopy Species	% Cover	Size Class	DBH	Age
Black Cherry	10	Pole	6	
Bigtooth Aspen	55	Pole	8	36
White Spruce	5	Pole	6	
Quaking Aspen	30	Pole	8	

Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple	High	10 - 20 feet	Sapling
Balsam Fir	Low	< 5 feet	Sapling



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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81 4193 - Birch, Aspen Poletimber Medium 3.9 36 81-110 N/A Poor quality mixture of aspen and hardwood.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Bigtooth Aspen	15	Pole/Sapling	6	36	Red Maple	Low	10 - 20 feet	Sapling
Quaking Aspen	20	Pole/Sapling	6		Balsam Fir	Low	< 5 feet	Sapling
Red Maple	25	Sapling/Pole	4		Beech	Low	< 5 feet	Sapling
Balsam Fir	5	Pole/Sapling	6					
Paper Birch	30	Pole/Sapling	6	36				
White Pine	5	Pole/Sapling	6					

Cut by firewooders in mid 1980s to provide brush edge to hardwood stand (Dean)

82 330 - Low-Density Trees Nonstocked 4.1 No

83 500 - Water Nonstocked 16.1 No Aerial photo shows floating aquatic vegetation, but field survey was snow-limited. Lake has at least 1 beaver lodge.

84 310 - Herbaceous Openland Nonstocked 2.1 No

85 4112 - Maple, Beech, Cherry Association Sawtimber Well 102.2 92 51-80 N/A Stand was thinned in 1998 (1-22/98 Bruders lake Hdwd) and 2015

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Yellow Birch	10	Log/Pole	10		Red Maple	Medium	< 5 feet	Sapling
Red Maple	20	Log/Pole	10		Sugar Maple	Medium	< 5 feet	Sapling
Black Cherry	5	Pole/Log	8		Black Cherry	Low	5 - 10 feet	Sapling
Sugar Maple	55	Log/Pole	10	92	Beech	High	5 - 10 feet	Sapling
Paper Birch	5	Log	10		Balsam Fir	Low	Variable	Pole
Beech	5	Log/Pole	10					

86 6117 - Lowland Deciduous, Mixed Coniferous Poletimber Well 24.3 99 111-140 N/A Not a bad stand next to the road on the north end. The further you go south the worse the quality and size gets.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Northern White Cedar	15	Log/Pole	10		Balsam Fir	Low	5 - 10 feet	Sapling
Quaking Aspen	28	Pole/Log	9	99	White Spruce	Low	< 5 feet	Sapling
Red Maple	25	Log/Pole	10		Striped Maple	Low	>20 feet	Sapling
Hemlock	10	Log/Pole	12		Red Maple	Low	5 - 10 feet	Sapling
Yellow Birch	10	Pole/Log/Sap	8	99				
Black Ash	5	Sapling/Pole	4					
Balsam Fir	5	Pole	6					
Black Cherry	2	Pole	6					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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87 6120 - Lowland Cedar Poletimber Well 4.2 91 111-140 N/A

Canopy Species	% Cover	Size Class	DBH	Age
Northern White Cedar	55	Pole/Sapling	6	91
Black Spruce	5	Sapling	4	
Tamarack	40	Pole/Sapling	6	

90 4112 - Maple, Beech, Cherry Association Sawtimber Well 10.6 106 81-110 N/A Stand was thinned in 2015. BA is on lower end of range.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Yellow Birch	10	Log	12		Black Cherry	Low	< 5 feet	Sapling
Red Maple	20	Log	12		Red Maple	Medium	5 - 10 feet	Sapling
Sugar Maple	55	Log	12	106	Sugar Maple	High	< 5 feet	Sapling
Black Cherry	10	Log/Pole	10		Striped Maple	Medium	10 - 20 feet	Sapling
Beech	5	Log	12		Beech	High	5 - 10 feet	Sapling

93 6117 - Lowland Deciduous, Mixed Coniferous Sapling Poor 6.2 14 Immature N/A

Canopy Species	% Cover	Size Class	DBH	Age
Yellow Birch	2	Sapling	2	
Black Ash	5	Sapling	3	
Paper Birch	10	Sapling/Pole	4	
Black Spruce	20	Sapling	3	
Red Maple	45	Sapling	1	14
Hemlock	5	Log	12	
Balsam Fir	13	Sapling	4	