

# **Compartment Review Presentation**

Sault Ste. Marie Forest Management Unit

Compartment 45030
Entry Year 2021
Acreage: 1,817
County Mackinac

Management Area: Huron Patterned Outcrop

Revision Date: 2019-07-26

Stand Examiner: Josh Brinks

**Legal Description:** 

Clark Township:T42N R1W Sections 1, 2, 11, 12,13, 14; Marquette

Township: T43N R1W Section. 35

# **Identified Planning Goals:**

The compartment is within the Huron Patterned Outcrop Management Area. Management goals include developing an optimal age class distribution of aspen stands for sustainable forestry and wildlife values. Rotating hardwood treatments for optimal regeneration and stocking of all age classes. Maintain current openings as needed for diversity and enhancement of wildlife benefits. Provide public access for multiple use benefits such as hunting, gathering, snowmobile riding and camping while protecting the natural resources.

## Soil and topography:

Very deep hydric soils are prevalent in this compartment, the exception being the extreme north ownership which is Kalkaska sand. The hydric soils are generally Markey, Carbondale, and Beavertail mucks. These soils are interrupted by pockets of Paquin sand which generally support the grass openings. The topography of this compartment can best be described as very flat with slight rises which support aspen, northern hardwood and grass.

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

Mostly a contiguous block of state land with only limited access from the east. Private land surrounds this compartment on 3 sides. The disjoined 80 acre parcel to the north has good access via. a seasonal county road.

#### **Unique Natural Features:**

No MNFI occurrences in the compartment at this time.

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

None known at this time.

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

The southern portion of this compartment is within the obligate deer winter range.

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

This compartment contains the headwaters area of Flower creek, a cold-transitional stream. A buffer of 200 feet should maintained adjacent to this stream to discourage beaver populations.

#### Wildlife Habitat Considerations:

This compartment is part of the Huron Patterned Outcrop MA where featured wildlife species include pileated woodpecker, ruffed grouse, snowshoe hare, and white-tailed deer. The compartment is dominated by lowland stands, particularly cedar. Lowland deciduous types where aspen is common are also relatively common in the northern and middle portions of the compartment. The far north disjunct portion is dominated by red pine plantation and a northern hardwood stand. The southern portion of the compartment is part of a deer wintering complex.

Wildlife objectives here include retaining the lowland conifer for cover, retaining hemlock where it is present, maintaining diversity in northern hardwood stands, and retaining both young and mature early successional habitat. The cover retained and young deciduous habitat that results from harvests will provide food and cover for deer, ruffed grouse, and hare. Where harvests occur, mature pockets will remain to offer some mature trees for pileated woodpeckers and ruffed grouse. Lowland deciduous harvests now will provide greater age class diversity between stands in the compartment for the future. Other species including black bear, bobcat, coyote, and numerous migratory birds are expected to benefit from the management here.

## Mineral Resource and Development Concerns and/or Restrictions

The compartment is surrounded by numerous active sand & gravel and limestone production operations. There should be good non-metallic mineral potential within the compartment, but there appears to be many wetlands in the compartment, which could inhibit surface mining endeavors. There is no known metallic mineral potential in this area. There is no known

potential for economic hydrocarbon production in the UP.

#### **Vehicle Access:**

The Everleigh Road accesses the north 80 acres of the compartment. The remainder of the compartment is accessed via. the Flower Creek Road which is located on the East side of the compartment off of highway M-129.

## **Survey Needs:**

There is no record of a survey along the north line of Sections 1 and 2. A survey will be needed in this area before the lowland hardwood stand can be prepared for a timber sale.

## **Recreational Facilities and Opportunities:**

Several miles of snowmobile trail run along the western edge of this compartment. Other types of recreation are generally limited to hunting, gathering and snowmobile trail riding.

## **Fire Protection:**

A large portion of this compartment is swamp and therefore access is difficult. A dry summer could pose issues for fire fighting access.

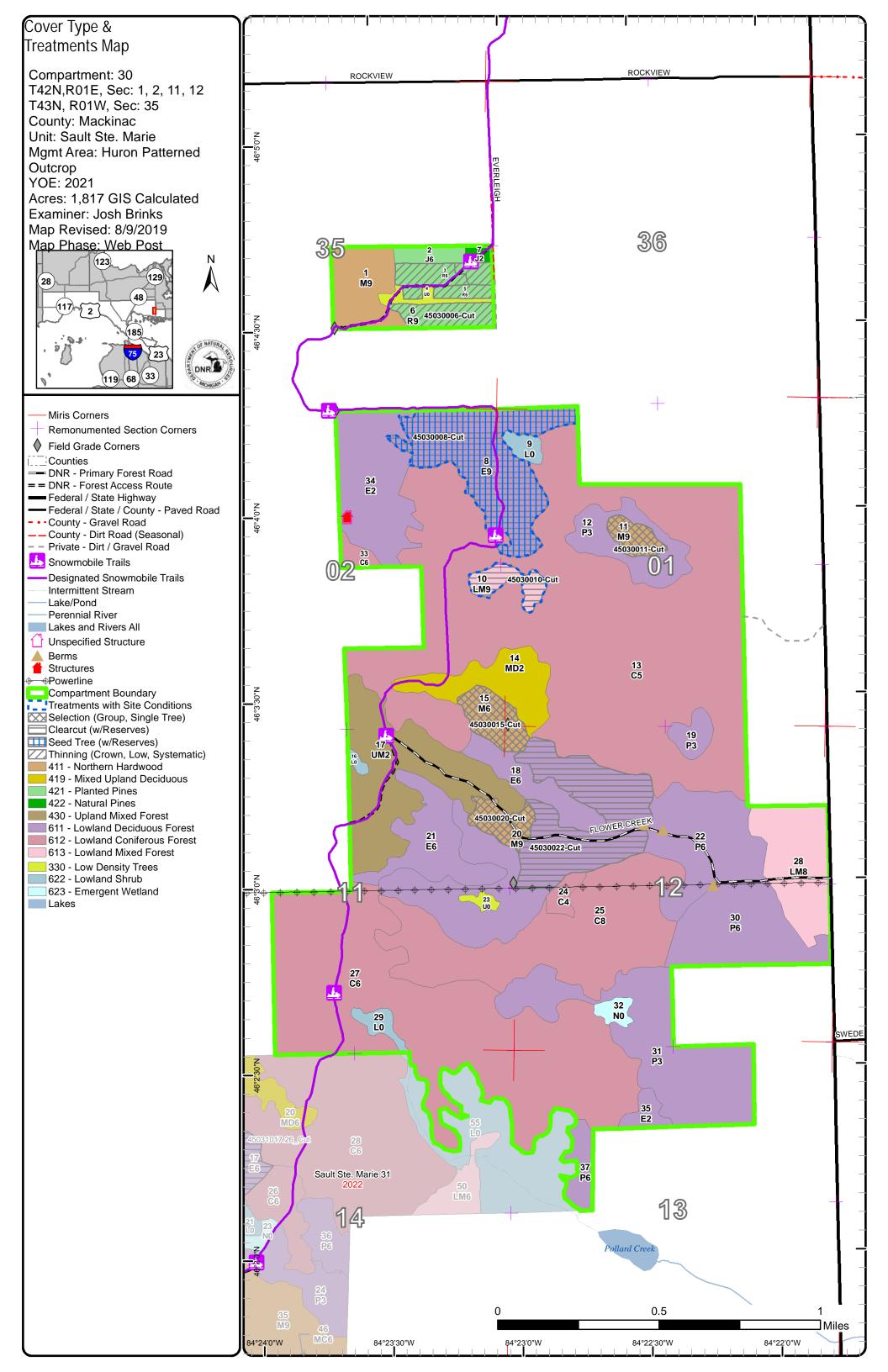
#### **Additional Compartment Information:**

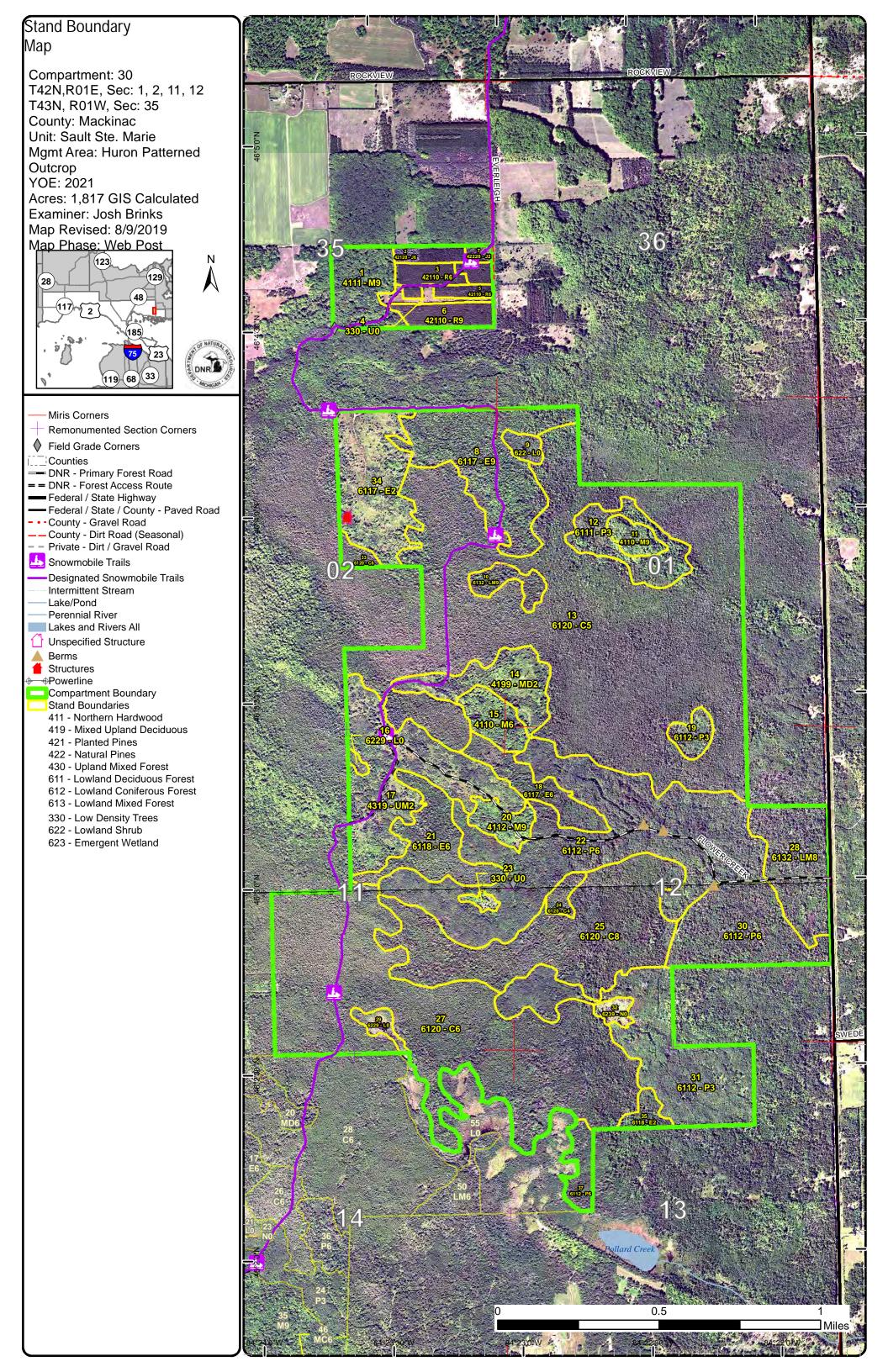
The following reports from the Inventory are attached:

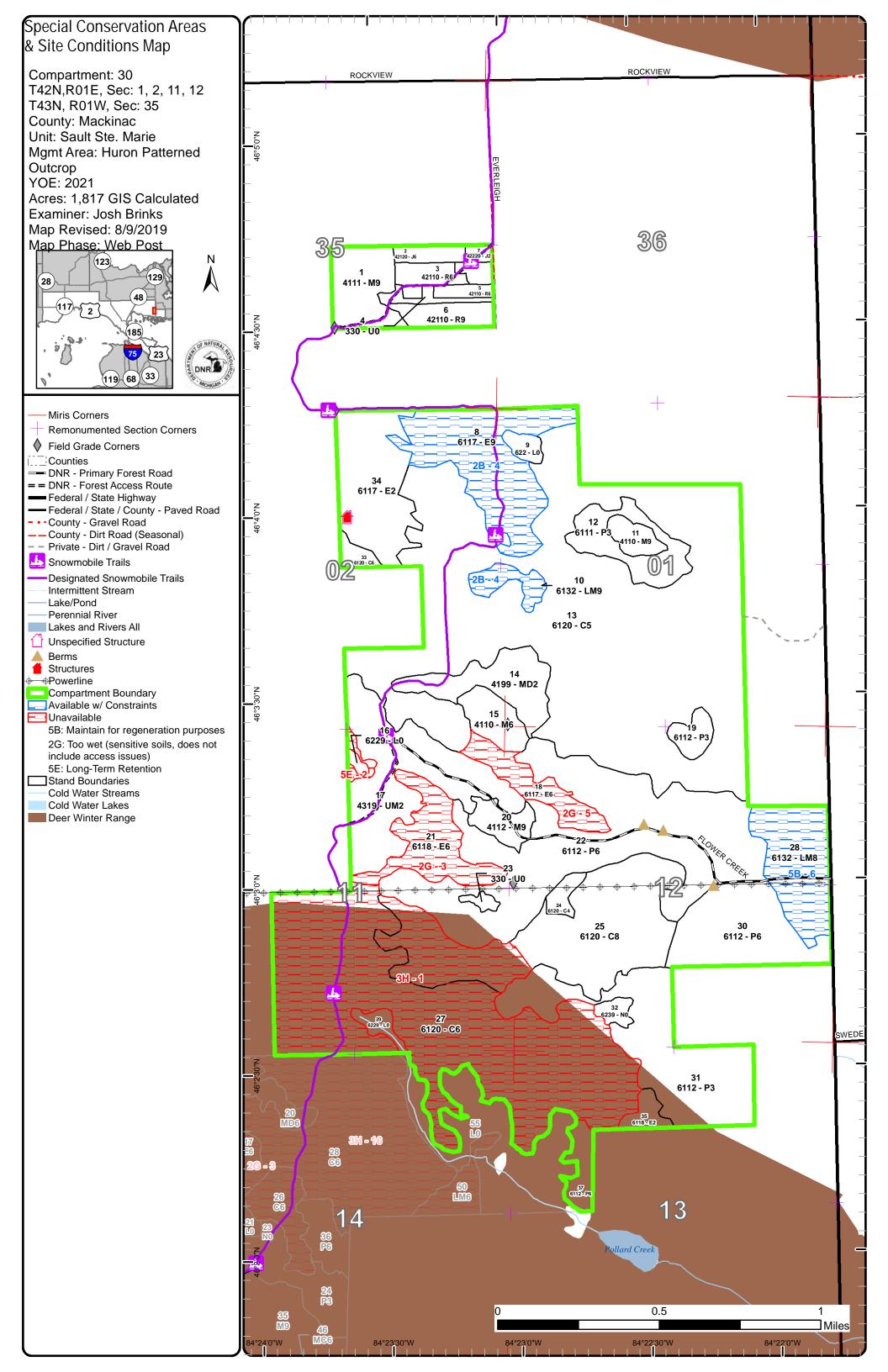
Total Acres by Cover Type and Age Class
Cover Type by Harvest Method
Proposed Treatments – No Limiting Factors
Proposed Treatments – With Limiting Factors
Stand Details (Forested and Nonforested)
Dedicated and Proposed Special Conservation Areas
Site Condition Details

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







Compartment 30 Year of Entry 2021



Josh Brinks: Examiner

## Age Class

	No.	do C	3 / 2	\$ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	\$ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\	8 / W	No. 10	) 8 / 8		,		\$ /6	70.7	8, /5, E	N. S. S.	\$ 13°	ZE Z	A Jue	A LOS
Cedar	0	0	0	0	0	0	0	0	0	0	0	6	403	0	0	477	0	0	886
Jack Pine	0	0	3	0	0	0	7	0	0	0	0	0	0	0	0	0	0	0	10
Low-Density Trees	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8
Lowland Aspen/Balsam Poplar	0	0	9	126	263	0	0	0	0	0	0	0	0	0	0	0	0	0	398
Lowland Deciduous	0	61	0	0	7	24	0	78	39	0	0	0	0	0	0	0	0	0	208
Lowland Mixed Forest	0	0	0	0	0	0	0	0	49	0	0	11	0	0	0	0	0	0	60
Lowland Shrub	13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	13
Marsh	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5
Mixed Upland Deciduous	0	0	35	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	35
Northern Hardwood	0	0	0	0	0	0	0	30	40	0	0	0	0	0	0	0	0	0	70
Red Pine	0	0	0	0	0	16	18	0	0	0	0	0	0	0	0	0	0	0	34
Upland Mixed Forest	0	0	88	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	88
Total	26	61	135	126	270	40	25	108	128	0	0	17	403	0	0	477	0	0	1815



# **Report 2 – Treatment Summary**

Sault Ste. Marie Mgt. Unit Year of Entry: 2021

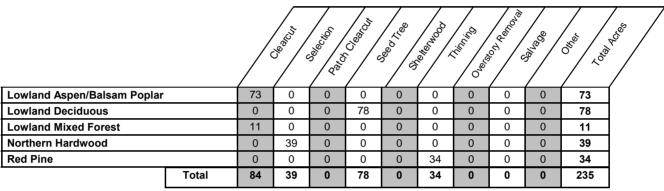
#### **Acres of Harvest**

Compartment 30
Total Compartment Acres: 1,817

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Commercial Harvest - 146 Harvests with Site Condition - 89 Next Step Harvest - 0 Habitat Cut - 0

# **Cover Type by Harvest Method**



# **Proposed and Next Step Treatments by Method**

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Current		235	0	0	0	0	0	0	0	0	235	
Next Step		0	0	0	0	0	0	201	0	0	201	
	Total	235	0	0	0	0	0	201	0	0	436	

Next Step Treatments:

<u>Acceptable</u> Regen:

Other Comment:

Proposed Start Date: 10/1 /2020

45030005-Cut 42110 - Planted 47 171-6.5 Poletimber Harvest Crown Thinning 4211 - Planted Even-Aged Proposal Red Pine Well 200 Red Pine

**Habitat Cut: No** Site Condition:

Prescription Thin to 120-140 BA. Some rows are too tight to fit equipment down. Consider third row thinning or forth row thinning and thinning in between the 3 rows that are left. Specs:

Next Step **Treatments:** 

Acceptable Regen:

Other Comment:

Proposed Start Date: 10/1 /2020

45030006-Cut 18.4 42110 - Planted Sawtimber 56 171-Harvest Crown Thinning 4211 - Planted Even-Aged Proposal Red Pine Well 200 Red Pine

**Habitat Cut: No** Site Condition:

Prescription Thin to 120-140 BA. Do not take more than 1\3 of the volume in any area.

Specs:

Next Step **Treatments:** 

Acceptable Regen:

Other Comment:

**Proposed Start Date:** 10/1 /2020

45030008-Cut 77.6 6117 - Lowland Sawtimber 111-Harvest Seed Tree with 6117 - Lowland Two-Aged Proposal Deciduous, Mixed Well 140 Retention Deciduous, Coniferous Mixed Coniferous

Site Condition: Unknown Access **Habitat Cut: No** 

Prescription Leave areas of thick hemlock, like that in the NW corner of the stand, as retention. Leave a retention area between this stand and stand 34 where the ground is too wet to operate. Outside of these patches leave white pine, yellow birch and hemlock. Cut all trees down to 2". Create Specs:

some brush piles near lowland conifer edges during normal processing operations if possible to benefit hare.

Next Step Monitoring, Natural Regen (Intermediate)

**Treatments:** 

Acceptable Acceptable regeneration includes maple, yellow birch, hemlock, spruce, fir, birch, aspen, ash, pine and cedar.

Regen:

This will likely be a winter harvest because of access and ground conditions. Best access to this stand would be the snowmobile trail to the **Other** north. It is likely that treatment boundaries will differ once the sale is laid out.

Comment:

10/1 /2020 **Proposed Start Date:** 

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**Treatment** BA **Treatment Treatment Cover Type** Acres Stand Size Stand Age **Approval** Method Objective Status d Name CoverType Density Age Range Type Structure 45030010-Cut 11.0 6132 - Mixed Sawtimber 104 141-Harvest Clearcut with 613 - Lowland Even-Aged Proposal 10 Lowland Forest with Well 170 Retention Mixed Forest Cedar

**Habitat Cut: No** Site Condition: Unknown Access

Prescription Cut all trees down to 2" in DBH. Do not cut any pine, hemlock or yellow birch. Put in 2 retention pockets focused on areas of thick

Specs: cedar/hemlock.

Monitoring, Natural Regen (Intermediate) Next Step

Treatments:

Acceptable Acceptable regen includes maple, spruce, fir, cedar, birch, pine, aspen.

Regen:

Other A skid trail will have to be matted either up to the north into the other treatment or to the trail to the west. Stay away from the old beaver dam.

Comment

**Proposed Start Date:** 10/1 /2020

45030011-Cut 9.2 4110 - Sugar Maple Sawtimber 79 111-Harvest Single Tree 411 - Northern Uneven-Proposal Association 140 Selection Hardwood Aged

**Habitat Cut: No** Site Condition:

Prescription Thin to 70-80 BA. Remove balsam fir of merchantable size. Put in a few canopy gaps to encourage hardwood regen. Leave a few large wolfy

trees and maintain tree species diversity in the stand. Specs:

Next Step Monitoring, Natural Regen (Intermediate)

Treatments:

Acceptable Acceptable regen includes maple, birch, pine, cedar, oak.

Regen:

Other There is a road into this stand through the PVT to the east. Landowner was agreeable as long as road was improved.

Comment:

Proposed Start Date: 10/1 /2020

45030015-Cut 17.1 4110 - Sugar Maple Poletimber 81-110 Harvest Single Tree 411 - Northern Uneven-Proposal Association Well Selection Hardwood Aged

**Habitat Cut: No** Site Condition:

Prescription Thin stand to 80 BA. Place some regen gaps in this stand to promote hardwood regeneration. Do not put gaps where there are large boulders.

Specs: Leave a few large wolfy trees, and maintain tree species diversity in the stand.

Monitoring, Natural Regen (Intermediate) Next Step

Treatments:

Acceptable Acceptable regen includes maple, oak, birch with some beech and ironwood.

Regen:

Other Stand is outside of the deer yard.

Comment:

**Proposed Start Date:** 10/1 /2020

45030020-Cut 12.8 4112 - Maple, Sawtimber 69 81-110 Harvest Single Tree 411 - Northern Uneven-Proposal Beech, Cherry Well Selection Hardwood Aged

Association

**Habitat Cut: No Site Condition:** 

Prescription Thin stand to 80 BA. Make sure to put in regen gaps to enhance hardwood regeneration. Do not put gaps in areas where boulders are present.

Specs: Leave a few large wolfy trees and maintain trees species diversity in the stand.

Next Step Monitoring, Natural Regen (Intermediate)

Treatments:

Acceptable Acceptable regen includes maple, oak and birch with some beech and ironwood.

Regen:

Other Stand is outside of the deer yard.

Comment

Proposed Start Date: 10/1 /2020

Report 3 -- Treatments

Compartment: 30 Year of Entry: 2021

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a n d	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status	/%/
22	45030022-Cut	73.3	6112 - Lowland Aspen	Poletimber Well	35	81-110	Harvest	Clearcut with	6112 - Lowland Aspen	Even-Aged	Proposal	

**Habitat Cut: No Site Condition:** 

Prescription Cut all trees down to 2" in DBH. Do not cut oak, pine, hemlock, yellow birch or cedar. Leave one 0.5 acre retention patch for every 10 acres of harvest. Try to focus retention patches around wet areas with tag alder but leave some large (>18" dbh) trees. Create some brush piles near Specs:

lowland conifer edges through normal processing if possible to benefit hare.

Next Step Monitoring, Natural Regen (Intermediate) **Treatments:** 

Acceptable Acceptable regen includes aspen, birch, spruce, fir, ash, pine, cedar, maple.

Regen:

Other This treatment is meant to break up the larger P stand. The proposed treatment is a suggestion of where we might find the larger diameters in

this stand. It is possible the treatment shape may vary a bit to exclude non merchantable areas. Comment:

**Proposed Start Date:** 10/1 /2020

**Total Treatment Acreage Proposed:** 

234.9

Josh Brinks: Examiner

Availa	ability for	Managemer	nt						
Total	Acres	Acres Avail	Acres	De	omina	nt Site	e Con	ditions	S
Acres	Available	With Condition	Not Available		2B	5B	2G	3H	5E
887	571	0	315	Cedar			0	315	
10	10	0	0	Jack Pine					
8	8	0	0	Low-Density Trees					
398	398	0	0	Lowland Aspen/Balsam Poplar			0	0	
208	68	<i>7</i> 8	62	Lowland Deciduous	78		62	0	
60	0	60	0	Lowland Mixed Forest	11	49			
13	13	0	0	Lowland Shrub				0	
5	5	0	0	Marsh				0	
35	35	0	0	Mixed Upland Deciduous					
70	70	0	0	Northern Hardwood					
34	34	0	0	Red Pine					
88	85	0	3	Upland Mixed Forest					3
1,817	1,298	138	381	Total Forested Acres	89	49	62	315	3
	71%	8%	21%	Relative Percent				-	

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

	Dominant Site Condition	Acres	Other Site Condition	Other Site Condition	Other Site Condition	Other Site Condition
Unavailable	3H: Deer Wintering Area - habitat is incompatible with harvest at this time	316	Unspecified	Unspecified	Unspecified	Unspecified
Comments:						
Unavailable	5E: Long-Term Retention	3	2G: Too wet (sensitive soils, does not include access issues)	Unspecified	Unspecified	Unspecified

# Report 4 – Site Conditions

Sault Ste. Marie Mgt. Unit

Josh Brinks: Examiner

3	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	39	Unspecified	Unspecified	Unspecified	Unspecified
	Comments:						
	Standing water thro	ughout the stand. Too wet to	harvest.				
4	Available	2B: Unknown if access through adjacent landowner(s) is possible	89	2I: Survey needed	Unspecified	Unspecified	Unspecified
	Comments:						
	The best route to th	is stand is through the PVT to	the north.	. The snowmobile trail to the	ne south is very wet.		
5	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	24	Unspecified	Unspecified	Unspecified	Unspecified
	Comments:						
	Majority of this stan	d is too wet except of 3 acre ri	dge in the	e middle.			
6	Available	5B: Maintain for regeneration purposes	49	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
Comments				

Sault Ste. Marie Mgt. Unit Compartment: 30
Year of Entry 2021



# 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.

Conservation Area	n Type	Description	ERA = Ecological Reference Area HCVA = High Conservation Value Area SCA = Special Conservation Area
SCA	Cold Water Stream	A coldwater stream has temperature and dissolved oxygen conditions stocked trout populations and those of other coldwater fish spective year to year. Coldwater streams in Michigan typically provide the contributions of groundwater to their stream flows. Such streams designated as trout resources by Fisheries Order 210.	ies (e.g., slimy sculpin) to persist from ese conditions due to substantial
SCA	Habitat Area	An area that provide some specific need for the life cycle of wild and Waterfowl Production Areas, deer wintering complexes in loopenings and savannas. Habitat areas are distinct from critical hendangered or threatened species (such as Kirtland's warbler or general in nature, are not primarily associated with threatened of covered by species recovery plans that are developed in cooper	www.dand.conifer.communities, grassland nabitat designated for recovery of piping plover areas) in that they are more r endangered species, and are not



Stand	d Level 4 C	over Type		Size Den	sity	Acres	Stand Age	BA Range	Managed S	ite	General Comments		
1	4111 - S.Maple, H	ard Mast A	ssociation	Sawtimbe	r Well	31.2	74	81-110	N/A		Stand was recently thinned in 2005 as part of Everleigh RD Hardwoods.		
	Canopy Species	% Cover	Size Class	DBH	Age	Canop	y Species	Density	Avg. Height	Size	Residual timber is in good condition. Oaks are scattered throughout the stand. There is a patch of more open grown looking oak with younger		
	Sugar Maple	77	Log/Pole	13	75	Suga	ar Maple	Low	Variable	Sapling	pole size oak in the middle of the stand. The forest floor is a blanket of		
	Red Oak	10	Log	12		Iroi	nwood	Low	Variable	Sapling	maple regen but it is over topped by ironwood about 4' tall. There is a		
						Wh	ite Ash	Trace	< 5 feet	Sapling	mix of sugar maple and iron wood saplings about 1" in diameter.		
2	42120 - Plai	nted Jack F	ine	Poletimbe	r Well	7.4	50	141-170	N/A		Stand is part of the MSU research plots. At last entry MSU Tree		
	Canopy Species	% Cover	Size Class	DBH	Age	Canop	y Species	Density	Avg. Height	Size	improvement center mentioned the study was on going. E 1/2 of stand contains planted Jack Pine. W 1/2 of stand contains planted spruce. Both		
	White Spruce	35	Pole/Sapling	g 5	50	Suga	ar Maple	Low	< 5 feet	Sapling	stands have not been thinned and are in poor condition.		
	Jack Pine	65	Pole/Log	8	50	В	eech	Trace	5 - 10 feet	Sapling	·		
						Iroi	nwood	Low	5 - 10 feet	Sapling			
						Whi	te Pine	Trace	< 5 feet	Sapling			
3	42110 - Pla	nted Red P	ine	Poletimbe	r Well	9.0	47	201+	N/A	-	MSU research plots throughout the stand. MSU tree improvement center		
	Canony Species	% Cover	Size Class	DBH	Λαο	Canon	y Species	Density	Avg. Height	Size	was contacted last entry and they mentioned the study was ongoing.		
	Canopy Species Red Pine	100	Pole/Log	9	48		d Oak	Trace	< 5 feet	Seeding	Only a few trees have been taken out in years past. Stand is very thick.  This stand appears to have been planted at a more typical density than		
	Neu Fille	100	F Ole/LOg	9	40	Ne	u Oak	Hace	< 3 1661	Seeding	the stand on the south side of the road.		
4	330 - Low-l	Density Tre	es	Nonstoc	ked	5.7			No		This stand is slowly filling in with maple and red pine.		
	42110 - Pla	nted Red P	ine	Poletimbe	r Well	6.5	47	171-200	N/A		MSU research plots within the stand. This stand has larger spacing		
	Canopy Species	% Cover	Size Class	DBH	Age						between rows than in adjacent stands.		
	Red Pine	100	Pole/Log	9	48								
6	42110 - Pla	nted Red P	ine	Sawtimbe	r Well	18.4	56	171-200	N/A		Nice stand of red pine with very little in the understory. The stand is right		
	Canopy Species	% Cover	Size Class	DBH	Age						on the edge of pole and log size. It was last thinned in 2005.		
	Red Pine	100	Log/Pole		57								
7	42220 - Nat	ural Jack P	ine	Sapling Me		2.8	15	1-50	N/A		That was typed as a grass opening at last entry. It has grown in with a mix of mostly jack pine and red pine but a scotch and white can be found		
	Canopy Species	% Cover	Size Class	DBH	Age						in the stand. It appears to be natural regen and I could not find a		
	Red Pine	30	Sapling/Pole	€ 3	16						planting record. There were between 11 and 20 whirls on the trees.		
	Jack Pine	69	Sapling/Pole	9 3	16								
		Dasiduaua	Mixed	Sawtimbe	r Well	77.6	69	111-140	N/A		Stand of mixed species. Some areas consists of decent red maple and in other areas a mix of yellow birch and hemlock. Some large cedar, white		
8	6117 - Lowland Con	iferous	Mixou								other areas a mix of yellow birch and hemlock Some large cedar,		
8		iferous	Size Class	DBH	Age	Canop	y Species	Density	Avg. Height	Size	pine, and yellow birch scattered throughout the stand. Red maple in this		
8	Con	iferous		<b>DBH</b> .	Age 69		y Species I Maple	<b>Density</b> Medium	Avg. Height Variable	<b>Size</b> Sapling			
8	Canopy Species	iferous % Cover	Size Class			Red					pine, and yellow birch scattered throughout the stand. Red maple in this stand is right on the edge of pole/log. Some wet areas of tag alder and		
8	Canopy Species Red Maple	iferous  Cover	Size Class Log/Pole	12		Red Bals	l Maple	Medium	Variable	Sapling	pine, and yellow birch scattered throughout the stand. Red maple in this stand is right on the edge of pole/log. Some wet areas of tag alder and		



py Species I Maple by Birch er Birch I 110 - Sugar Ma py Species ar Maple I Maple I Maple I Lowland py Species	wland Forest dar  % Cover  30 10 14  aple Assoc % Cover  75 15	Size Class Log/Pole Log Log/Pole iation Size Class Log/Pole Log/Pole Log/Pole	13 15 11 Sawtimbe	er Well	5.5  11.0 104  Canopy Species Red Maple Balsam Poplar Balsam Fir  9.2 79  Canopy Species Sugar Maple White Spruce Striped Maple	Density Medium Low High  111-140 Density Low Trace Low	No  N/A  Avg. Height  Variable  Variable  Variable  N/A  Avg. Height  Variable  < 5 feet	Size Sapling Sapling Sapling Size Sapling Sapling	Stand contains good quality cedar w/ a mix of red maple paper birch, and yellow birch. Ground is just a touch higher than surrounding swamp therefore timber is a bit nicer. For the most part it is cedar on the lower gorund surrounding a rock knob with a red maple mix.  Nice patch of hardwood. Stand is in good condition with balsam fir starting to fillin the understory along the edges and on the east end of the stand.
py Species I Maple bw Birch er Birch I 110 - Sugar Ma py Species I Maple I Maple I Maple I Maple	Salsam P	Size Class  Log/Pole  Log  Log/Pole  iation  Size Class  Log/Pole  Log/Pole  Log/Pole	DBH	Age er Well	Canopy Species Red Maple Balsam Poplar Balsam Fir  9.2 79 Canopy Species Sugar Maple White Spruce Striped Maple	Density  Medium  Low  High  111-140  Density  Low  Trace	Avg. Height Variable Variable Variable N/A Avg. Height Variable	Sapling Sapling Sapling Sapling Sapling	yellow birch. Ground is just a touch higher than surrounding swamp therefore timber is a bit nicer. For the most part it is cedar on the lower gorund surrounding a rock knob with a red maple mix.  Nice patch of hardwood. Stand is in good condition with balsam fir starting to fillin the understory along the edges and on the east end of the
I Maple bw Birch er Birch  110 - Sugar Ma py Species ar Maple I Maple  6111 - Lowland py Species	30	Log/Pole Log Log/Pole iation Size Class Log/Pole Log/Pole	13 15 11 Sawtimbe DBH 13 11	er Well	Red Maple Balsam Poplar Balsam Fir  9.2 79  Canopy Species Sugar Maple White Spruce Striped Maple	Medium Low High  111-140  Density Low Trace	Variable Variable Variable N/A Avg. Height Variable	Sapling Sapling Sapling Sapling Sapling	gorund surrounding a rock knob with a red maple mix.  Nice patch of hardwood. Stand is in good condition with balsam fir starting to fillin the understory along the edges and on the east end of the
ow Birch er Birch 110 - Sugar Ma py Species ar Maple I Maple 6111 - Lowland py Species	aple Assoc % Cover 75 15	Log Log/Pole iation \$ Size Class Log/Pole Log/Pole	15 11 Sawtimbe DBH 13 11	Age	Red Maple Balsam Poplar Balsam Fir  9.2 79  Canopy Species Sugar Maple White Spruce Striped Maple	Low High  111-140  Density Low Trace	Variable Variable  N/A  Avg. Height Variable	Sapling Sapling Size Sapling	Nice patch of hardwood. Stand is in good condition with balsam fir starting to fillin the understory along the edges and on the east end of the
er Birch  1110 - Sugar Ma  py Species  ar Maple  I Maple  6111 - Lowland  py Species	aple Assoc % Cover 75 15	Log/Pole iation Size Class Log/Pole Log/Pole	Sawtimbe DBH 13 11	Age	9.2 79  Canopy Species Sugar Maple White Spruce Striped Maple	High  111-140  Density  Low  Trace	Variable  N/A  Avg. Height  Variable	Size Sapling	starting to fillin the understory along the edges and on the east end of the
py Species Maple Maple Maple Maple Maple Maple Maple Maple	aple Assoc % Cover 75 15	iation Size Class Log/Pole Log/Pole	Sawtimbe DBH 13 11	Age	9.2 79  Canopy Species  Sugar Maple  White Spruce  Striped Maple	111-140  Density  Low  Trace	N/A  Avg. Height  Variable	Size Sapling	starting to fillin the understory along the edges and on the east end of the
py Species ar Maple I Maple 6111 - Lowland py Species	% Cover 75 15 15 Balsam P	Size Class  Log/Pole  Log/Pole	DBH 13 11	Age	Canopy Species Sugar Maple White Spruce Striped Maple	Density Low Trace	Avg. Height Variable	Sapling	starting to fillin the understory along the edges and on the east end of the
ar Maple I Maple 6111 - Lowland py Species	75 15 I Balsam P	Log/Pole Log/Pole	13		Sugar Maple White Spruce Striped Maple	Low Trace	Variable	Sapling	, , , ,
Maple 6111 - Lowland py Species	15  I Balsam P	Log/Pole oplar	11	79	White Spruce Striped Maple	Trace			stand.
6111 - Lowland py Species	l Balsam P	oplar			Striped Maple		< 5 feet	Sanling	
py Species		•	Sapling			Low		Capiling	
py Species		•	Sapling			LUW	5 - 10 feet	Sapling	
py Species		•	Sapling		Ironwood	Low	5 - 10 feet	Sapling	
	% Cover	Sizo Claca			29.1 23	Immature	N/A		This stand was cut in 1995 as part of Flower Creek Winter Sale. Stand consists of a mix of aspen and bam. Regen is nice w/a few scattered red
A		SIZE CIASS	DBH	Age	Canopy Species	Density	Avg. Height	Size	maple throughout. Some of the regen is now pole size.
ng Aspen	26	Sapling/Pole	3	23	Quaking Aspen	Low	Variable	Sapling	
m Poplar	60	Sapling/Pole	3	23	Balsam Poplar	Medium	Variable	Sapling	
					Balsam Fir	Medium	Variable	Sapling	
					White Spruce	Low	Variable	Sapling	
					Black Ash	Low	Variable	Sapling	
					Hazelnut (Spp.)	Low	Variable	Tall Shrub	
					Striped Maple	Low	5 - 10 feet	Sapling	
6120 - Low	land Ceda	r Po			n 472.4 141	51-80	N/A		Very large swamp stand. The majority of the stand is fairly open canopy with lots of alder/willow in the understory with balsam fir saplings. The
py Species	% Cover	Size Class	DBH	Age	Canopy Species	Density	Avg. Height	Size	BA, quality and canopy closure along the slightly higher ground on the
White Cedar	75	Pole/Log	9	141	Balsam Fir	Medium	Variable	Sapling	border of the stand.
					Northern White Ceda	r Medium	Variable	Pole	
					Tamarack	Low	Variable	Pole	
					Black Ash	Medium	Variable	Sapling	
					Tag Alder	Medium	Variable	Tall Shrub	
9 - Other Mixed	Upland De	eciduous S			34.7 11	Immature	N/A		Stand was cut in 2007 as part of Flower Creek Softwood. Regen is not coming in the best in this stand but it is starting to fill in, i would say 60%
py Species	% Cover	Size Class	DBH	Age	Canopy Species	Density	Avg. Height	Size	canopy closure. Some upland/rocky areas have the worst regen but are
	60	Sapling	1	11	Balsam Fir	Low	< 5 feet	Sapling	filling in with fir and spruce. Bam regen is very patchy. Yellow birch and
m Poplar	0	Sapling	1		White Spruce	Trace	< 5 feet	Sapling	Cedar were left as retention. A few low areas of tag alder and ash. A few patches of pole size spruce and fir on west end of the stand.
9	y Species White Cedar  - Other Mixed by Species Poplar	y Species % Cover White Cedar 75  - Other Mixed Upland Decoy Species % Cover	y Species % Cover Size Class White Cedar 75 Pole/Log  - Other Mixed Upland Deciduous Size Class Poplar 60 Sapling	Py Species % Cover Size Class DBH White Cedar 75 Pole/Log 9  - Other Mixed Upland Deciduous Sapling Notes Species % Cover Size Class DBH Poplar 60 Sapling 1	Py Species % Cover Size Class DBH Age White Cedar 75 Pole/Log 9 141  - Other Mixed Upland Deciduous Sapling Medium Py Species % Cover Size Class DBH Age Poplar 60 Sapling 1 11	6120 - Lowland Cedar Poletimber Medium 472.4 141  by Species % Cover Size Class DBH Age White Cedar 75 Pole/Log 9 141  Balsam Fir Northern White Ceda Tamarack Black Ash Tag Alder  - Other Mixed Upland Deciduous Sapling Medium 34.7 11  by Species % Cover Size Class DBH Age Poplar 60 Sapling 1 11  Balsam Fir	6120 - Lowland Cedar Poletimber Medium 472.4 141 51-80  Canopy Species Density  Balsam Fir Medium Northern White Cedar Medium Tamarack Low  Black Ash Medium Tag Alder Medium  - Other Mixed Upland Deciduous Sapling Medium 34.7 11 Immature  Poletimber Medium 472.4 141 51-80  Canopy Species Density  Balsam Fir Low  Canopy Species Density  Balsam Fir Low	6120 - Lowland Cedar Poletimber Medium 472.4 141 51-80 N/A  by Species % Cover Size Class DBH Age White Cedar 75 Pole/Log 9 141  Balsam Fir Medium Variable Northern White Cedar Medium Variable Tamarack Low Variable Black Ash Medium Variable Tag Alder Medium Variable	6120 - Lowland Cedar Poletimber Medium 472.4 141 51-80 N/A  Py Species % Cover Size Class DBH Age White Cedar 75 Pole/Log 9 141  Balsam Fir Medium Variable Sapling Northern White Cedar Medium Variable Pole Tamarack Low Variable Pole Black Ash Medium Variable Sapling Tag Alder Medium Variable Tall Shrub  - Other Mixed Upland Deciduous Sapling Medium 34.7 11 Immature N/A  Py Species % Cover Size Class DBH Age Poplar 60 Sapling 1 11 Balsam Fir Low < 5 feet Sapling



Stand	d Level 4 Co	over Type				Acres	Stand Age	BA Kalige	Managed S	site	General Comments
15	4110 - Sugar Maple Association			Poletimber Well		17.1	69	81-110	N/A		Stand recently thinned in 2007 as part of Flower Creek Softwood. Sugar
	Canopy Species	% Cover	Size Class	DBH Age		Canop	y Species	Density	Avg. Height	Size	maple is decent pole quality. Stand contains boulders throughout. Some thicker balsam understory on the West and south side of stand. This
	Sugar Maple	97	Pole/Log	9	69	Bals	sam Fir	Medium	Variable	Sapling	stand has very little hardwood regen.
				,		Iror	nwood	Low	< 5 feet	Sapling	
16	6229 - Mixed	l lowland sh	nrub	Nonst	ocked	1.8	0		No		Mostly tag alder with a few ash and red maple.
17	4319 - Mixed	l Upland Fo	orest S	Sapling Medium		87.7	87.7 14 I		N/A		Regen is patchy. Some areas have decent aspen regen while others
	Canopy Species	% Cover	Size Class	DBH	l Age	Canop	y Species	Density	Avg. Height	Size	have none. I assume openings will slowly fill in with spruce and balsam.  Small clumps of pole sized spruce and fir exist w/in the stand.
	Quaking Aspen	32	Sapling	3	14	Red	l Maple	Low	5 - 10 feet	Sapling	ornali dumpo di polo dizoa oprado ana ili oxidi wili ale diana.
	Balsam Poplar	10	Sapling	3	14	Pin	Cherry	Low	5 - 10 feet	Sapling	
	Balsam Fir	20	Sapling/Pole	e 4		Bals	sam Fir	Medium	< 5 feet	Sapling	
	White Spruce	20	Sapling/Pole	e 4		White	e Spruce	Medium	< 5 feet	Sapling	
	Paper Birch	10	Sapling	3		Tag	g Alder	Low	5 - 10 feet	Tall Shrub	
	6117 Lowland	Dociduous	Miyod [	Polotimh	or Woll		ut (Beaked)	51 90	5 - 10 feet	Tall Shrub	
18	6117 - Lowland Coni	iferous	Mixed F	Poletimb	per Well	23.9	45  by Species	51-80  Density	5 - 10 feet  N/A  Avg. Height	Tall Shrub	This stand is dominated by very low wet ground with black ash, tag alder cedar and balsam fir. The west end of the stand is an L type with scattered cedar. In the middle of the stand there is a ridge of
	Coni	iferous				23.9 <b>Canop</b>	45	51-80	N/A		This stand is dominated by very low wet ground with black ash, tag alder cedar and balsam fir. The west end of the stand is an L type with
	Canopy Species	iferous % Cover	Size Class	<b>DB</b> H		23.9  Canop	45 by Species	51-80  Density	N/A Avg. Height	Size	This stand is dominated by very low wet ground with black ash, tag alder cedar and balsam fir. The west end of the stand is an L type with scattered cedar. In the middle of the stand there is a ridge of
	Canopy Species orthern White Cedar	% Cover	Size Class Pole/Log	<b>DB</b> H	l Age	23.9  Canop  Bals	45  by Species sam Fir	51-80  Density  Medium	N/A  Avg. Height  Variable	Size Sapling	This stand is dominated by very low wet ground with black ash, tag alder cedar and balsam fir. The west end of the stand is an L type with scattered cedar. In the middle of the stand there is a ridge of merchantable timber, about 3 acres, dominated by red maple.
	Conic Canopy Species Orthern White Cedar Black Ash Red Maple 6112 - Lov	% Cover 18 55 10 wland Aspe	Size Class Pole/Log Pole/Sapling Log/Pole	DBH	45 45 Well	23.9  Canop  Bals  Blac  Tag	45  by Species sam Fir ck Ash g Alder	51-80  Density  Medium  Medium	N/A  Avg. Height  Variable  Variable  Variable  N/A	Size Sapling Sapling Tall Shrub	This stand is dominated by very low wet ground with black ash, tag alder cedar and balsam fir. The west end of the stand is an L type with scattered cedar. In the middle of the stand there is a ridge of merchantable timber, about 3 acres, dominated by red maple.  Stand recently clear cut. Aspen is regenerating well. Residual cedar left
No	Canopy Species orthern White Cedar Black Ash Red Maple 6112 - Low	## Cover	Size Class Pole/Log Pole/Sapling Log/Pole	DBH 9 6 13 Sapling	45 45 Well	23.9  Canop Bals Blac Tag  8.9  Canop	45  by Species sam Fir ck Ash g Alder  11 by Species	51-80  Density  Medium  Medium  Medium  Medium  Density	N/A  Avg. Height  Variable  Variable  Variable  N/A  Avg. Height	Size Sapling Sapling Tall Shrub	This stand is dominated by very low wet ground with black ash, tag alder cedar and balsam fir. The west end of the stand is an L type with scattered cedar. In the middle of the stand there is a ridge of merchantable timber, about 3 acres, dominated by red maple.
No	Canopy Species orthern White Cedar Black Ash Red Maple 6112 - Low Canopy Species Quaking Aspen	## Cover	Size Class Pole/Log Pole/Sapling Log/Pole  sin Size Class Sapling	DBH   9   6   13     Sapling   DBH   1	45 45 Well 4 Age 11	23.9  Canop Bals Blaa Tag  8.9  Canop Bals	45  by Species sam Fir ck Ash g Alder  11 by Species sam Fir	51-80  Density  Medium  Medium  Medium  Immature  Density  Low	N/A  Avg. Height  Variable  Variable  Variable  N/A  Avg. Height  5 - 10 feet	Size Sapling Sapling Tall Shrub Size Sapling	This stand is dominated by very low wet ground with black ash, tag alder cedar and balsam fir. The west end of the stand is an L type with scattered cedar. In the middle of the stand there is a ridge of merchantable timber, about 3 acres, dominated by red maple.  Stand recently clear cut. Aspen is regenerating well. Residual cedar left
19	Canopy Species orthern White Cedar Black Ash Red Maple 6112 - Low Canopy Species Quaking Aspen Balsam Poplar	### ##################################	Size Class Pole/Log Pole/Sapling Log/Pole  Size Class Sapling Sapling	DBH   9   6   13     1   1   1   1   1   1   1   1	45 45 Well 4 Age 11	23.9  Canop Bals Blac Tag  8.9  Canop Bals Red	45  by Species sam Fir ck Ash g Alder  11 by Species sam Fir d Maple	51-80  Density  Medium  Medium  Medium  Immature  Density  Low  Medium	N/A  Avg. Height  Variable  Variable  Variable  N/A  Avg. Height  5 - 10 feet  < 5 feet	Size Sapling Sapling Tall Shrub Size Sapling Sapling	This stand is dominated by very low wet ground with black ash, tag alder cedar and balsam fir. The west end of the stand is an L type with scattered cedar. In the middle of the stand there is a ridge of merchantable timber, about 3 acres, dominated by red maple.  Stand recently clear cut. Aspen is regenerating well. Residual cedar left
19	Canopy Species orthern White Cedar Black Ash Red Maple 6112 - Low Canopy Species Quaking Aspen	## Cover	Size Class Pole/Log Pole/Sapling Log/Pole  sin Size Class Sapling	DBH   9   6   13     Sapling   DBH   1	45 45 Well 4 Age 11	23.9  Canop Bals Blac Tag  8.9  Canop Bals Red	45  by Species sam Fir ck Ash g Alder  11 by Species sam Fir	51-80  Density  Medium  Medium  Medium  Immature  Density  Low	N/A  Avg. Height  Variable  Variable  Variable  N/A  Avg. Height  5 - 10 feet  < 5 feet  5 - 10 feet	Size Sapling Sapling Tall Shrub Size Sapling Sapling Sapling Sapling	This stand is dominated by very low wet ground with black ash, tag alder cedar and balsam fir. The west end of the stand is an L type with scattered cedar. In the middle of the stand there is a ridge of merchantable timber, about 3 acres, dominated by red maple.  Stand recently clear cut. Aspen is regenerating well. Residual cedar left
19	Canopy Species orthern White Cedar Black Ash Red Maple 6112 - Low Canopy Species Quaking Aspen Balsam Poplar	### ##################################	Size Class Pole/Log Pole/Sapling Log/Pole  Size Class Sapling Sapling	DBH   9   6   13     1   1   1   1   1   1   1   1	45 45 Well 4 Age 11	23.9  Canop Bals Blac Tag  8.9  Canop Bals Red Pape	45  by Species sam Fir ck Ash g Alder  11 by Species sam Fir d Maple	51-80  Density  Medium  Medium  Medium  Immature  Density  Low  Medium	N/A  Avg. Height  Variable  Variable  Variable  N/A  Avg. Height  5 - 10 feet  < 5 feet	Size Sapling Sapling Tall Shrub Size Sapling Sapling	This stand is dominated by very low wet ground with black ash, tag alder cedar and balsam fir. The west end of the stand is an L type with scattered cedar. In the middle of the stand there is a ridge of merchantable timber, about 3 acres, dominated by red maple.  Stand recently clear cut. Aspen is regenerating well. Residual cedar left
19	Canopy Species orthern White Cedar Black Ash Red Maple 6112 - Low Canopy Species Quaking Aspen Balsam Poplar orthern White Cedar	## Cover	Size Class Pole/Log Pole/Sapling Log/Pole  Size Class Sapling Sapling Log/Pole	DBH   9   6   13     Sapling   DBH   1   1   12     Sawtimb	d Age 45 Well Age 11 11 11 Deer Well	23.9  Canop Bals Blac Tag  8.9  Canop Bals Red Pape Aspe	45  by Species sam Fir ck Ash g Alder  11 by Species sam Fir d Maple er Birch en (spp.)	51-80  Density  Medium  Medium  Medium  Immature  Density  Low  Medium  Low	N/A  Avg. Height  Variable  Variable  Variable  N/A  Avg. Height  5 - 10 feet  < 5 feet  5 - 10 feet  N/A	Size Sapling Sapling Tall Shrub Size Sapling Sapling Sapling Sapling	This stand is dominated by very low wet ground with black ash, tag alder cedar and balsam fir. The west end of the stand is an L type with scattered cedar. In the middle of the stand there is a ridge of merchantable timber, about 3 acres, dominated by red maple.  Stand recently clear cut. Aspen is regenerating well. Residual cedar left w/in the sale is poorer quality.  Stand consists of decent quality small log and pole sized sugar maple w/a little red maple throughout. Balsam fir is thick around the perimeter
19 No	Canopy Species orthern White Cedar Black Ash Red Maple 6112 - Low Canopy Species Quaking Aspen Balsam Poplar orthern White Cedar	### Cover	Size Class Pole/Log Pole/Sapling Log/Pole  Size Class Sapling Sapling Log/Pole  Derry Size Class	DBH   9   6   13     Sapling   DBH   1   1   12     Sawtimb	45 45 Well 1 Age 11 11 11	23.9  Canop Bals Blac Tag  8.9  Canop Bals Red Pape Aspe	45  by Species sam Fir ck Ash g Alder  11 by Species sam Fir d Maple er Birch en (spp.)  69  by Species	Density Medium Medium Medium Medium Medium Medium Low Medium Medium Medium	N/A  Avg. Height  Variable  Variable  Variable  N/A  Avg. Height  5 - 10 feet  < 5 feet  5 - 10 feet  5 - 10 feet	Size Sapling Sapling Tall Shrub Size Sapling Sapling Sapling Sapling	This stand is dominated by very low wet ground with black ash, tag alder cedar and balsam fir. The west end of the stand is an L type with scattered cedar. In the middle of the stand there is a ridge of merchantable timber, about 3 acres, dominated by red maple.  Stand recently clear cut. Aspen is regenerating well. Residual cedar left w/in the sale is poorer quality.  Stand consists of decent quality small log and pole sized sugar maple
19 No	Coni Canopy Species Orthern White Cedar Black Ash Red Maple 6112 - Lov Canopy Species Quaking Aspen Balsam Poplar Orthern White Cedar 4112 - Maple, Asso	### Cover   18   55   10   10   10   10   10   10   10	Size Class Pole/Log Pole/Sapling Log/Pole  Size Class Sapling Sapling Log/Pole  herry	DBH   9   6   13     Sapling   DBH   1   12     Sawtimb   10   10	d Age 45 Well Age 11 11 11 Deer Well	23.9  Canop Bals Blac Tag  8.9  Canop Bals Red Pape Aspe  12.8  Canop	45  by Species sam Fir ck Ash g Alder  11 by Species sam Fir d Maple er Birch en (spp.)  69  by Species ar Maple	51-80  Density  Medium  Medium  Medium  Immature  Density  Low  Medium  Low  Medium  81-110	N/A  Avg. Height  Variable  Variable  Variable  N/A  Avg. Height  5 - 10 feet  < 5 feet  5 - 10 feet  N/A	Size Sapling Sapling Tall Shrub Size Sapling Sapling Sapling Sapling Sapling Sapling	This stand is dominated by very low wet ground with black ash, tag alder cedar and balsam fir. The west end of the stand is an L type with scattered cedar. In the middle of the stand there is a ridge of merchantable timber, about 3 acres, dominated by red maple.  Stand recently clear cut. Aspen is regenerating well. Residual cedar left w/in the sale is poorer quality.  Stand consists of decent quality small log and pole sized sugar maple w/a little red maple throughout. Balsam fir is thick around the perimeter
19 No	Coni Canopy Species Orthern White Cedar Black Ash Red Maple 6112 - Lov Canopy Species Quaking Aspen Balsam Poplar Orthern White Cedar 4112 - Maple, Asso	## Cover	Size Class Pole/Log Pole/Sapling Log/Pole  Size Class Sapling Sapling Log/Pole  Derry Size Class	DBH   9   6   13     Sapling   DBH   1   12     Sawtimb	d Age 45 45 45 45 45 45 45 45 45 45 45 45 45	23.9  Canop Bals Blac Tag  8.9  Canop Bals Red Pape Aspe  12.8  Canop Suga Bals	45  by Species sam Fir ck Ash g Alder  11 by Species sam Fir d Maple er Birch en (spp.)  69  by Species	Density Medium Medium Medium Medium Medium  Immature Density Low Medium Low Medium 81-110  Density	N/A  Avg. Height  Variable  Variable  Variable  N/A  Avg. Height  5 - 10 feet  < 5 feet  5 - 10 feet  N/A  Avg. Height	Size Sapling Sapling Tall Shrub Size Sapling Sapling Sapling Sapling	This stand is dominated by very low wet ground with black ash, tag alder cedar and balsam fir. The west end of the stand is an L type with scattered cedar. In the middle of the stand there is a ridge of merchantable timber, about 3 acres, dominated by red maple.  Stand recently clear cut. Aspen is regenerating well. Residual cedar left w/in the sale is poorer quality.  Stand consists of decent quality small log and pole sized sugar maple w/a little red maple throughout. Balsam fir is thick around the perimeter



Stanc	d Level 4 Co	<i>,</i> ,				Acies	Stand Age			Site	General Comments
21	6118 - Lowland Deciduous v		rith Cedar	Poletimber Well		38.6	78	1-50	N/A		Poorer quality lowland ash stand. Cedar scattered throughout. Small
	Canopy Species	% Cover	Size Class	DBH	Age	Canop	y Species	Density	Avg. Height	Size	paper birch pocket on the West side of stand but too small to make it's own stand. Ground is very low and wet.
	Yellow Birch	7	Pole/Log	9		Bals	sam Fir	Medium	Variable	Sapling	own stand. Ground is very low and wet.
No	orthern White Cedar	20	Log/Pole	12		White	e Spruce	Low	Variable	Sapling	
	Black Ash	52	Pole/Saplin	ng 6	78	Blad	ck Ash	High	Variable	Sapling	
	Red Maple	9	Pole/Log	9		Tag	g Alder	Medium	Variable	Tall Shrub	I
22	6112 - Lov	vland Aspe	en	Poletimb	er Well	191.9	35	81-110	N/A		Aspen stand with a mix of balm and balsam throughout. Stand is in good
	Canopy Species	% Cover	Size Class	DBH	Age	Canop	y Species	Density	Avg. Height	Size	condition and is mostly large poles with some log size trees. Stand is a mix of lowland and upland. Pockets of cedar and tag alder exist within
	Quaking Aspen	60	Pole/Log	8	35	Quakir	ng Aspen	Low	Variable	Sapling	the lower areas. According to cutting records everything from the section
	Balsam Poplar	20	Pole	7	35	Balsaı	m Poplar	Low	Variable	Sapling	line between 11 and 12 to the east was cut around 1973, west of the
						Bals	sam Fir	Medium	Variable	Sapling	section line was cut in 1985. It is very tough to pick out a difference between these two generation of aspen on the ground.
						Blad	ck Ash	Medium	Variable	Sapling	bothoon thought and gold attended to appear on the ground.
						Tag	g Alder	Low	Variable	Tall Shrub	
					Red Maple Low 5 - 10 feet Sapli		Sapling				
					_						
23	330 - Low-[	Density Tre	ees	Nonsto	cked	2.7		Immature	No		Stand consists of a small opening which is filling in. Looks to be an old landing. Unique spot within the middle of an aspen type.
23		Density Tre		Nonsto		2.7 5.8	101	Immature Unspecified	No N/A		
		vland Ceda		Poletimb		5.8	101 by Species			Size	landing. Unique spot within the middle of an aspen type.
24	6120 - Lov	vland Ceda	ar	Poletimb	er Poor	5.8 Canop		Unspecified	N/A	<b>Size</b> Sapling	landing. Unique spot within the middle of an aspen type.
24	6120 - Lov	wland Ceda	ar Size Class	Poletimb  DBH	er Poor	5.8 Canop	y Species	Unspecified <b>Density</b>	N/A Avg. Height		landing. Unique spot within the middle of an aspen type.
24	6120 - Lov Canopy Species orthern White Cedar	wland Ceda % Cover	ar Size Class Pole	Poletimb  DBH	er Poor	5.8  Canop  Bals  Blace	y Species sam Fir	Unspecified  Density  Full	N/A  Avg. Height  Variable	Sapling	landing. Unique spot within the middle of an aspen type.  Low ground. Timber is very sparse and of low quality.
24	6120 - Lov Canopy Species orthern White Cedar Tamarack	wland Ceda % Cover	Size Class Pole Log/Pole	Poletimb  DBH	er Poor Age	5.8  Canop  Bals  Blac  Tag	sam Fir ck Ash g Alder	Unspecified  Density  Full  High	N/A  Avg. Height  Variable  Variable	Sapling Sapling	landing. Unique spot within the middle of an aspen type.  Low ground. Timber is very sparse and of low quality.  The canopy of this stand is much more open than the stand to the south
<b>24</b>	6120 - Lov Canopy Species orthern White Cedar Tamarack	wland Ceda % Cover 88 10	Size Class Pole Log/Pole	Poletimb  B DBH  8 10  Sawtimber	er Poor Age	5.8  Canop  Bals  Blac  Tag	sam Fir ck Ash g Alder	Unspecified  Density  Full  High  High	N/A  Avg. Height  Variable  Variable  Variable	Sapling Sapling	Low ground. Timber is very sparse and of low quality.  The canopy of this stand is much more open than the stand to the south The balsam fir regen is very thick. There is some drier ground with log
<b>24</b>	6120 - Lov Canopy Species orthern White Cedar Tamarack 6120 - Lov	wland Ceda % Cover 88 10	Size Class Pole Log/Pole	Poletimb  B DBH  8 10  Sawtimber	er Poor Age 101 Medium	5.8  Canop  Bals  Blac  Tag  131.3  Canop	by Species sam Fir ck Ash g Alder	Unspecified  Density  Full High High Unspecified	N/A  Avg. Height  Variable  Variable  Variable  N/A	Sapling Sapling Tall Shrub	landing. Unique spot within the middle of an aspen type.  Low ground. Timber is very sparse and of low quality.  The canopy of this stand is much more open than the stand to the south
24 No 25	6120 - Lov Canopy Species orthern White Cedar Tamarack 6120 - Lov Canopy Species	wland Ceda % Cover 88 10 wland Ceda % Cover	Size Class Pole Log/Pole ar S	Poletimb  B DBH  8 10  Sawtimber  B DBH  8	er Poor Age 101 Medium	5.8  Canop  Bals  Blac  Tag  131.3  Canop  Bals	by Species sam Fir ck Ash g Alder 113 by Species	Unspecified  Density  Full High High Unspecified  Density	N/A  Avg. Height  Variable  Variable  Variable  N/A  Avg. Height	Sapling Sapling Tall Shrub	Low ground. Timber is very sparse and of low quality.  The canopy of this stand is much more open than the stand to the south The balsam fir regen is very thick. There is some drier ground with log size cedar with a thicker canopy and in some cases it gets mixed with re
24 No 25	6120 - Lov Canopy Species orthern White Cedar Tamarack 6120 - Lov Canopy Species Balsam Poplar	wland Ceda  % Cover  88  10  wland Ceda  % Cover  8	Size Class Pole Log/Pole ar S Size Class Pole/Log	Poletimb  B DBH  8 10  Sawtimber  B DBH  8	er Poor Age 101 Medium Age	5.8  Canop Bals Blac Tag  131.3  Canop Bals Blac	by Species sam Fir ck Ash g Alder  113 by Species sam Fir	Unspecified  Density Full High High Unspecified Density High	N/A  Avg. Height  Variable  Variable  Variable  N/A  Avg. Height  Variable	Sapling Sapling Tall Shrub Size Sapling	Low ground. Timber is very sparse and of low quality.  The canopy of this stand is much more open than the stand to the south The balsam fir regen is very thick. There is some drier ground with log size cedar with a thicker canopy and in some cases it gets mixed with remaple and aspen.
24 No 25	6120 - Lov Canopy Species orthern White Cedar Tamarack 6120 - Lov Canopy Species Balsam Poplar	wland Ceda  % Cover  88  10  wland Ceda  % Cover  8	Size Class Pole Log/Pole ar S Size Class Pole/Log	Poletimb  B DBH  8 10  Sawtimber  B DBH  8	er Poor Age 101 Medium Age	5.8  Canop  Bals  Blac  Tag  131.3  Canop  Bals  Blac  Tag	py Species sam Fir ck Ash g Alder  113 py Species sam Fir ck Ash	Unspecified  Pensity Full High High Unspecified Pensity High Medium Low	N/A  Avg. Height  Variable  Variable  N/A  Avg. Height  Variable  Variable	Sapling Sapling Tall Shrub Size Sapling Sapling	Low ground. Timber is very sparse and of low quality.  The canopy of this stand is much more open than the stand to the south The balsam fir regen is very thick. There is some drier ground with log size cedar with a thicker canopy and in some cases it gets mixed with remaple and aspen.
24 No 25	6120 - Lov Canopy Species orthern White Cedar Tamarack 6120 - Lov Canopy Species Balsam Poplar orthern White Cedar	wland Ceda  % Cover  88  10  wland Ceda  % Cover  8	Size Class Pole Log/Pole ar S Size Class Pole/Log Log/Pole	Poletimb  B DBH  8 10  Sawtimber  B DBH  8	Age 101 Medium Age 1113	5.8  Canop  Bals  Blac  Tag  131.3  Canop  Bals  Blac  Tag	by Species sam Fir ck Ash g Alder  113 by Species sam Fir ck Ash g Alder	Unspecified  Pensity Full High High Unspecified Pensity High Medium Low	N/A  Avg. Height  Variable  Variable  N/A  Avg. Height  Variable  Variable  Variable  Variable	Sapling Sapling Tall Shrub Size Sapling Sapling Tall Shrub	Low ground. Timber is very sparse and of low quality.  The canopy of this stand is much more open than the stand to the south The balsam fir regen is very thick. There is some drier ground with log size cedar with a thicker canopy and in some cases it gets mixed with remaple and aspen.  For the most part this stand has a thick canopy of cedar. There are som
24 Nd 25	6120 - Lov Canopy Species orthern White Cedar Tamarack 6120 - Lov Canopy Species Balsam Poplar orthern White Cedar	wland Ceda  % Cover  88  10  wland Ceda  % Cover  8  63	Size Class Pole Log/Pole ar S Size Class Pole/Log Log/Pole	Poletimb  Bawtimber	Age 101 Medium Age 1113	5.8  Canop Bals Blac Tag  131.3  Canop Bals Blac Tag Northern 272.0	by Species sam Fir ck Ash g Alder  113 by Species sam Fir ck Ash g Alder White Ceda	Unspecified  Pensity Full High High Unspecified  Pensity High Medium Low Trace	N/A  Avg. Height  Variable  Variable  N/A  Avg. Height  Variable  Variable  Variable  5 - 10 feet	Sapling Sapling Tall Shrub Size Sapling Sapling Tall Shrub	Low ground. Timber is very sparse and of low quality.  The canopy of this stand is much more open than the stand to the south The balsam fir regen is very thick. There is some drier ground with log size cedar with a thicker canopy and in some cases it gets mixed with remaple and aspen.  For the most part this stand has a thick canopy of cedar. There are som areas of open canopy with tag alder and also some "ridges" that are
24 No.	6120 - Lov Canopy Species orthern White Cedar Tamarack 6120 - Lov Canopy Species Balsam Poplar orthern White Cedar	wland Ceda  % Cover  88  10  wland Ceda  % Cover  8  63	Size Class Pole Log/Pole ar S Size Class Pole/Log Log/Pole	Poletimb  Bawtimber  B	Medium Age 113 er Well Age	5.8  Canop Bals Blac Tag  131.3  Canop Bals Blac Tag Northern 272.0  Canop	by Species sam Fir ck Ash g Alder  113 by Species sam Fir ck Ash g Alder White Ceda	Unspecified  Density Full High High Unspecified Density High Medium Low Trace 171-200	N/A  Avg. Height  Variable  Variable  N/A  Avg. Height  Variable  Variable  Variable  Variable  Nariable  Variable  Variable  N/A	Sapling Sapling Tall Shrub Size Sapling Sapling Tall Shrub Sapling Tall Shrub	Low ground. Timber is very sparse and of low quality.  The canopy of this stand is much more open than the stand to the south The balsam fir regen is very thick. There is some drier ground with log size cedar with a thicker canopy and in some cases it gets mixed with remaple and aspen.  For the most part this stand has a thick canopy of cedar. There are som
24 No.	6120 - Lov Canopy Species orthern White Cedar Tamarack 6120 - Lov Canopy Species Balsam Poplar orthern White Cedar 6120 - Lov Canopy Species	wland Ceda  % Cover  88  10  wland Ceda  % Cover  8  63  wland Ceda	Size Class Pole Log/Pole ar S Size Class Pole/Log Log/Pole	Poletimb  Bawtimber  B	Medium Age 113 er Well Age	5.8  Canop Bals Blac Tag  131.3  Canop Bals Blac Tag Northern 272.0  Canop Bals	by Species sam Fir ck Ash g Alder  113 by Species sam Fir ck Ash g Alder White Ceda  112 by Species	Unspecified  Density Full High High Unspecified Density High Medium Low Trace  171-200 Density	N/A  Avg. Height  Variable  Variable  Variable  N/A  Avg. Height  Variable  Variable  Variable  Variable  Variable  Variable  Variable  Avg. Height  N/A  Avg. Height	Sapling Sapling Tall Shrub Size Sapling Sapling Tall Shrub Sapling Tall Shrub Sapling	Inding. Unique spot within the middle of an aspen type.  Low ground. Timber is very sparse and of low quality.  The canopy of this stand is much more open than the stand to the south The balsam fir regen is very thick. There is some drier ground with log size cedar with a thicker canopy and in some cases it gets mixed with remaple and aspen.  For the most part this stand has a thick canopy of cedar. There are som areas of open canopy with tag alder and also some "ridges" that are rocky, they tend to have larger cedar and a mix of aspen, red maple and



Stand	Level 4 Co	over Type	;	Size De	ensity	Acres	Stand Age	BA Range	Managed S	Site	General Comments
28	6132 - Mixed Lowland Forest with Cedar			Sawtimber Medium		49.0	72	1-50	N/A		Stand is very low with pockets of aspen, spruce, and cedar scattered throughout. This stand was picked through in teh 70's and 80's leaving
	Canopy Species	% Cover	Size Class	DBH	l Age	Cano	py Species	Density	Avg. Height	Size	behind a two aged stand made up of a scattered log size canopy over a dense subcanopy of sapling and pole size trees. There is a lot of tag
(	Quaking Aspen	46	Log	14	72	Qual	king Aspen	High	Variable	Sapling	alder and willow in the understory of this stand.
	Balsam Fir	8	Pole	8		Ва	Isam Fir	Medium	Variable	Sapling	,
	White Spruce	15	Log/Pole	12		ВІ	ack Ash	Medium	Variable	Sapling	
Nor	thern White Cedar	10	Log/Pole	13		Ta	ag Alder	Medium	Variable	Tall Shrub	
	Balsam Poplar	10	Pole/Log	9		Во	g Willow	Low	Variable	Tall Shrub	
29	6229 - Mixed	l lowland sh	nrub	Nonst	ocked	6.0			No		
30	6112 - Lov	Lowland Aspen P		Poletimber Well		58.9 34		51-80	N/A		Stand consists of both higher ground and low ground. Some pockets were cut out years ago which left clumps of regen. amongst areas of
	Canopy Species	% Cover	Size Class	DBH	l Age	Cano	py Species	Density	Avg. Height	Size	older wood. Some areas are very wet and consist of black ash.
(	Quaking Aspen	48	Pole/Log/Sap	7	34	Qual	king Aspen	Low	Variable	Sapling	,
	Balsam Poplar	20	Pole	6		Balsam Poplar		Low	Variable	Sapling	
	Balsam Fir	10	Pole	6		Ва	Isam Fir	High	Variable	Sapling	
	White Spruce	8	Log/Pole	12		BI	ack Ash	Medium	Variable	Sapling	
						Ta	ag Alder	Low	Variable	Tall Shrub	
31	6112 - Lov	wland Aspen S		Sapling Well		97.2 24		Immature	N/A		This used to be two separate stands, the south portion was cut about
	Canopy Species	% Cover	Size Class	DBH	l Age	Cano	py Species	Density	Avg. Height	Size	years prior to the northern portion but it is hard to differentiate the two. The south end has higher ground with better quality aspen. The portio
	Quaking Aspen	50	Sapling/Pole	4	24	Sug	gar Maple	Low	Variable	Sapling	just east of the beaver pond is quite wet with smaller diameters and me
	Balsam Poplar	26	Sapling/Pole	3		Qual	king Aspen	Low	Variable	Sapling	tag alder and black ash mixed in.
	Bigtooth Aspen	10	Sapling/Pole	4		Bals	am Poplar	Low	Variable	Sapling	
						Ва	Isam Fir	Low	Variable	Sapling	
						Haze	Inut (Spp.)	Low	Variable	Tall Shrub	
						Strip	ed Maple	Trace	5 - 10 feet	Sapling	
						BI	ack Ash	Low	5 - 10 feet	Sapling	
						Ir	onwood	Trace	5 - 10 feet	Sapling	
32	6239 - Mixed E	mergent W	etland	Nonst	ocked	5.0	2018	Unspecified	No		Beaver pond. Scattered cedar snags.



Stand	Level 4 Co	over Type	;	Size De	nsity	Acres	Stand Age	BA Range	Managed S	Site	General Comments
34	6117 - Lowland Deciduous, Mixed Coniferous			Sapling Medium		60.5	8	Immature	N/A		Stand was cut when it was still private property. They did a fairly nice job with the cutting. The regen is decent considering the low ground and is
(	Canopy Species	% Cover	Size Class	s DBH Age							mainly paper birch, red maple and aspen. There are scattered pole size red maple, cedar and yellow birch.
	Balsam Fir	15	Sapling/Pole	3							reu mapie, cedar and yenow birch.
١	White Spruce	10	Sapling	1							
	Paper Birch	30	Sapling	1	8						
	Red Maple	15		-							
	Red Maple	15	Sapling	1							
	Balsam Poplar	8	Sapling	1 1	/ledium	73	33	1-50	N/Δ		This stand is low and pratty wat according to the notes it was picked
35	Balsam Poplar 6118 - Lowland De	8 eciduous wi	Sapling th Cedar S		Medium	7.3 <b>Cano</b>	33	1-50  Density	N/A <b>Ava. Height</b>	Size	
35	Balsam Poplar	8	Sapling th Cedar S		Medium Age	Cano	33  ppy Species  alsam Fir	1-50  Density  Medium	N/A  Avg. Height  Variable	Size Sapling	through at the same time the adjacent stands were cut. There are areas of log and pole size red maple, cedar and paper birch. The stand has
35	Balsam Poplar 6118 - Lowland Do	eciduous wi	Sapling th Cedar S Size Class	DBH		<b>Cano</b> Ba	py Species	Density	Avg. Height	1	through at the same time the adjacent stands were cut. There are areas of log and pole size red maple, cedar and paper birch. The stand has thick canopy of saplings.
35	Balsam Poplar 6118 - Lowland De Canopy Species Paper Birch	eciduous wi % Cover	Sapling th Cedar S Size Class Sapling/Pole	<b>DB</b> H	Age	<b>Cano</b> Ba	opy Species alsam Fir	<b>Density</b> Medium	Avg. Height Variable	Sapling	through at the same time the adjacent stands were cut. There are areas of log and pole size red maple, cedar and paper birch. The stand has thick canopy of saplings.
<b>35</b>	Balsam Poplar  6118 - Lowland Do  Canopy Species  Paper Birch  Quaking Aspen	8 eciduous wi  Cover 20 25	Sapling th Cedar S Size Class Sapling/Pole Sapling/Pole	<b>DBH</b> 4 4	Age	<b>Cano</b> Ba	opy Species alsam Fir	<b>Density</b> Medium	Avg. Height Variable	Sapling	through at the same time the adjacent stands were cut. There are areas of log and pole size red maple, cedar and paper birch. The stand has thick canopy of saplings.