

# **Compartment Review Presentation**

Sault Ste. Marie Forest Management Unit

Compartment 45174
Entry Year 2027
Acreage: 1,810
County: Mackinac

Management Area: St. Ignace Lake Plain

Stand Examiner: Cody Flatt

**Legal Description:** 

T43N-R10W Sections 27, 28, 33 & 34, Garfield Township.

#### **Identified Planning Goals:**

The compartment location is the southeast corner of US-2 and M-117, south and east to Lake Michigan. The large cedar swamps, and wooded dune and swale complexes host wintering deer, and are to be left intact. This will also protect any endemic shoreline threatened and endangered species and communities. There has been timber management in accessible stands during the past entries.

#### Soil and topography:

The majority of the compartment consists of wooded dune and swale complexes. Lowlands primarily consist of Markey and Carbondale mucks, which occupy depressions on ground moraines, lake plains and outwash plains. Minor components of Eastport-Leafriver complex (dune-swale complexes), Markey-Spot-Finch complex (organic depressions; depressions and nearly level areas on lake plains), and Zela muck (swales and depressions on beach ridges) are present. The swale and ridge complex along Lake Michigan is primarily Leafriver-Croswell-Wainola complex. Other associated upland areas consist of Croswell-Wainola complex (nearly level and undulating areas on lake plains), and Eastport sand (nearly level to rolling to very steep areas on dune and beach ridges). The unusual outlier in this compartment is in the SENE of section 28. This corner consists of Amadon-Rock outcrop complex and occupies nearly level to rolling areas on bedrock controlled ground moraines.

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

State lands are adjacent to the west and southwest. These are winter deer yarding areas. Ownership to the north is primarily state lands, including MDOT, and one private forty. This is also considered winter deer yarding areas. Highway US-2 runs along the north edge of the compartment. Two MDOT parcels of 40 acres each abut US-2 to the south. Two private in-holdings (seasonal camps) of 80 acres each also abut US-2 to the south. The adjacent lands to the east are part of the Hiawatha Sportsman's Club. The Hiawatha Club lands are not developed here, except for along the Lake Michigan shoreline to the east where houses are located. There is also a private access road along the eastern boundary of the compartment (Carnegie Trail), which leads to Lake Michigan. The road follows the shoreline to the southwest where high value, deed restricted homes dot the shoreline. This private area along the southern boundary of the compartment is part of the Carnegie Trail Association, with multiple landowners as well as some Nature Conservancy parcels. One of these parcels was recently gifted to the state as part of a wetland mitigation plan.

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

There is a known osprey nest within the compartment. With the lakeshore influences, there is potential for several rare, threatened and endangered plant and animal species and communities.

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

None noted.

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

None

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

This compartment contains the Rock River and Miller Lake. The Rock River is a designated Type 1 trout stream less than 50-ft wide and has a predicted mean July water temperature of 62.6°F (cold stream). A 300-foot buffer is recommended for the Rock River in riparian areas susceptible to Aspen regeneration. For areas not susceptible to Aspen regeneration, a minimum 100-foot, plus 5 feet per 1% increase in slope, buffer is recommended to protect these resources in accordance with Best Management Practices. Miller Lake is a small 17-acre natural lake. A minimum 100-foot, plus 5 feet per 1% increase in slope, buffer is recommended to protect Miller Lake shoreland areas in accordance with Best Management Practices.

#### Wildlife Habitat Considerations:

This compartment is in the St. Ignace Lake Plain Management Area where featured wildlife species include American marten, American woodcock, black bear, blackburnian warbler, black-throated blue warbler, ruffed grouse, sharp-tailed grouse, snowshoe hare, and white-tailed deer. The entire compartment is part of a deer wintering complex. Wooded dune and swale complex is present and should remain protected. Conifer dominates the compartment with a major component of cedar, fir, white pine, and hemlock. This provides habitat for blackburnian warblers, deer, bear, and others.

#### 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 potential for economic production of metallic minerals in this area. The closest known active sand & gravel operation is less than two miles west and north of the compartment. Potential for any sand & gravel development within the compartment appears to be limited. The State does not own all the mineral rights within the compartment. Because the mineral estate is the dominant estate, the surface owner must provide the owner of the mineral rights reasonable access to the surface for mineral exploration and development.

#### **Vehicle Access:**

Highway US-2 runs along the northern boundary of the compartment, however, overall access is fair to poor. Rock River Road, a fair dirt/gravel DNR road, runs from Big Knob Road up to this old crossing at Rock River. Carnegie Trail, a private gravel road, is located immediately adjacent on the eastern boundary of the compartment. The road was built in 1979 and is a relatively straight shot south towards Lake Michigan, crossing several ridges and swales along the way.

#### **Survey Needs:**

None Needed

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

No permanent recreational facilities are located within the compartment. There is evidence of hunting/fishing camps at the old Rock River crossing. Abundant opportunities exist for hunting, trapping and fishing numerous wildlife/fish species. Blueberry, cranberry and mushroom picking is available for those willing to go out of the way. Big Knob campground is located to the southwest of the compartment via Big Knob road. Adjacent to the campground and this compartment are several nature trails.

#### **Fire Protection:**

The potential for wildfires exists throughout the upland ridge areas. These areas are mixed stands by nature, but contain moderate to high components of conifer species. Lightning strikes would be the primary source of ignition. Other possibilities include human activities (adjacent homes, camps, and dispersed camping), motorist activities (along US-2, Carnegie Trail, and Rock River Road), and downed power lines. Where fires may occur in the lowlands, mop up may become extensive. Access to fires may be problematic.

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

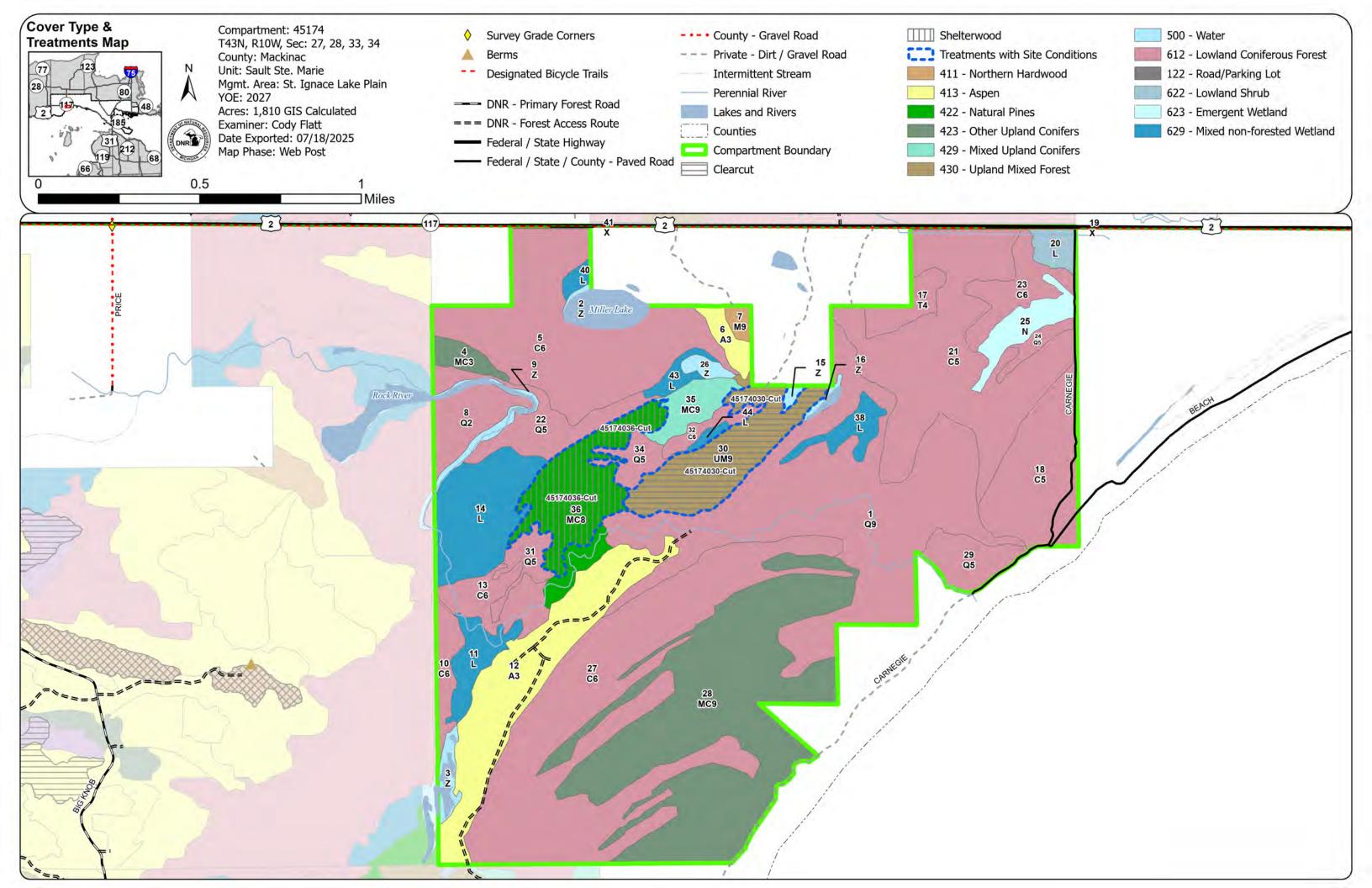
A Forest Treatment Proposal (FTP) has been approved to treat invasive phragmites along the Lake Michigan shoreline. Treatments as per work instructions and FTP may occur along the shoreline as necessary to eliminate the colonizing invasive phragmites.

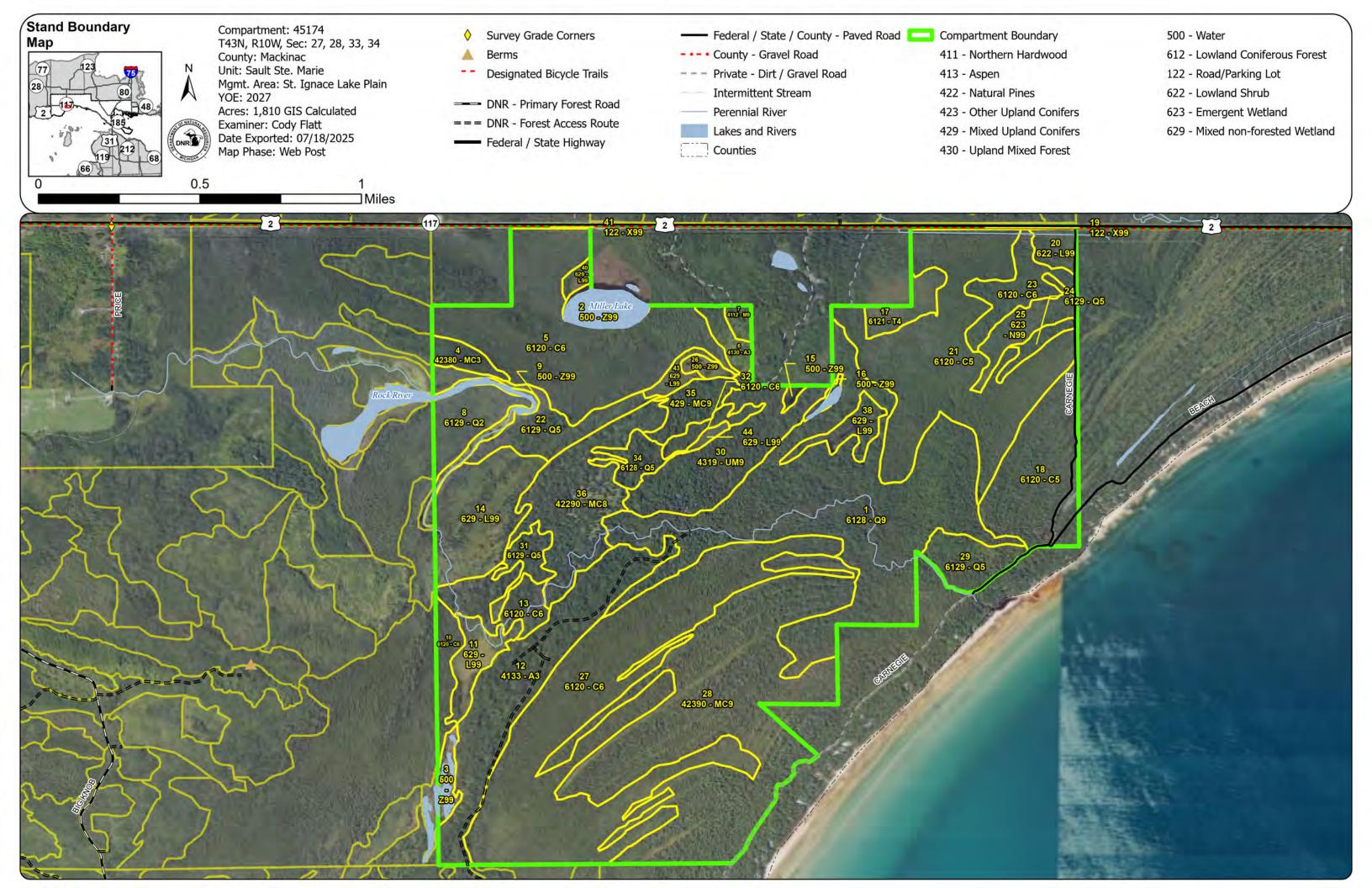
#### The following reports from the Inventory are attached:

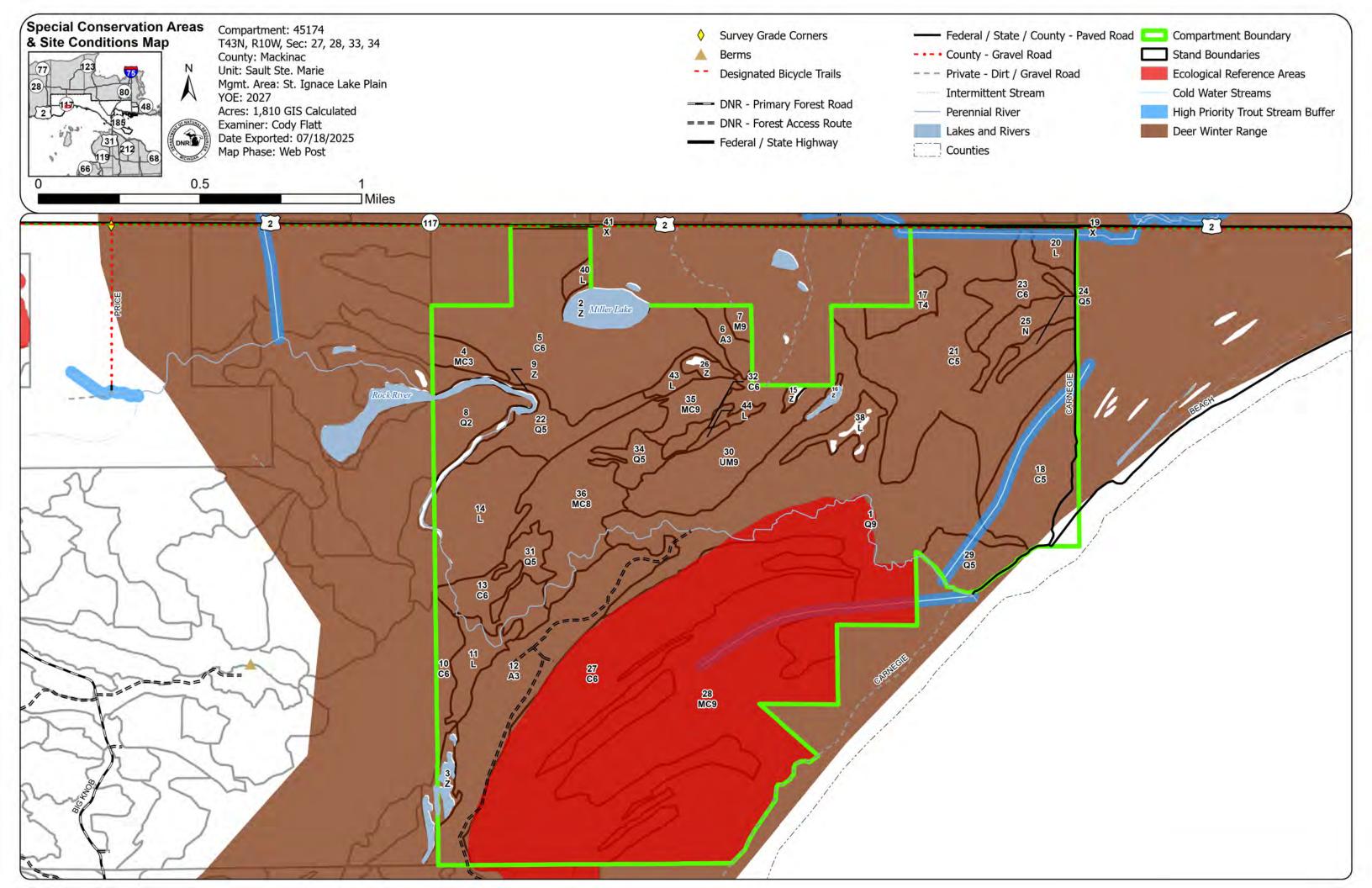
Total Acres by Cover Type and Age Class
Cover Type by Harvest Method
Proposed Treatments – No Limiting Factors
Proposed Treatments – With Limiting Factors
Stand Details (Forested and Nonforested)
Dedicated and Proposed Special Conservation Areas
Site Condition Details

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







Sault Ste. Marie Mgt. Unit

Cody Flatt: Examiner

Compartment 174 Year of Entry 2027



### Age Class

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Aspen	0	0	10	99	0	0	0	0	0	0	0	0	0	0	0	0	0	0	109
Cedar	0	0	0	0	0	0	0	0	0	0	73	191	186	16	0	0	240	0	706
Lowland Conifers	0	0	0	0	0	0	0	51	36	0	20	0	0	0	0	0	0	263	369
Lowland Shrub	118	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	118
Marsh	20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	20
Natural Mixed Pines	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	73	73
Northern Hardwood	0	0	0	0	0	0	0	0	5	0	0	0	0	0	0	0	0	0	5
Tamarack	0	0	0	0	0	0	15	0	0	0	0	0	0	0	0	0	0	0	15
Upland Conifers	0	0	0	0	0	10	0	0	0	0	18	0	0	0	0	0	0	257	285
Upland Mixed Forest	0	0	0	0	0	0	0	0	0	0	0	0	65	0	0	0	0	0	65
Urban	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
Water	40	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	40
Total	182	0	10	99	0	10	15	51	41	0	111	191	251	16	0	0	240	593	1809



# **Report 2 – Treatment Summary**

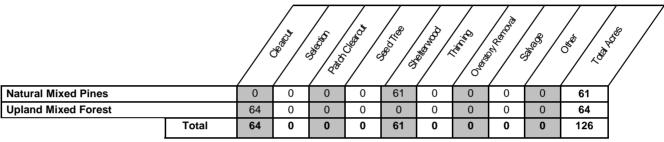
Sault Ste. Marie Mgt. Unit Year of Entry: 2027

#### **Acres of Harvest**

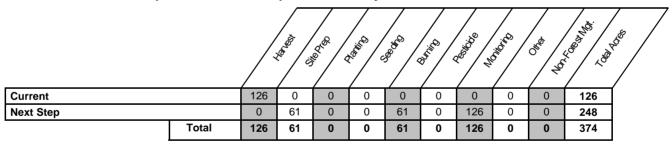
Compartment 174
Total Compartment Acres: 1,810

Commercial Harvest Harvests with Site Condition - 372
Next Step Harvest - 0
Habitat Cut - 0

# **Cover Type by Harvest Method**



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



Compartment: 45174

Year of Entry: 2027

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n Treatment Acres Stand Size Stand BA Treatment Treatment Cover Type Age Habitat d Name CoverType Density Age Range Type Method Objective Structure Cut	•											AICHIGAN .
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d Name CoverType Density Age Range Type Method Objective Structure Cut	n	Treatment	Acres	Stand	Size	Stand	BA	Treatment	Treatment	Cover Type	Age	Habitat
	d	Name		CoverType	Density	Age	Range	Type	Method	Objective	Structure	Cut

#### **Proposed Treatments:**

30 45	5174030-Cut	64.3	4319 - Mixed	9	117	51-80	Harvest	Clearcut	4319 - Mixed	Planting	No
			Upland Forest						Upland Forest	Record	ļ

<u>Prescription</u> Specs: Cut all deciduous trees that are two (2) inches or more at DBH and all conifer that are four (4) inches or more at DBH, except do not cut any cedar and hemlock. Leave 1-2 white pine over 14" per acre where possible. Exclude overly wet areas.Retention wi

Next Step Monitoring, Natural Regen (Re-Inventory)

**Treatments:** 

Acceptable Maple, birch, cherry, aspen, spruce, fir, pine

Regen:

Other Access is limited, either through private or with bridge across rock river. Harvest may be restricted to Dec 1- March 31 due to deer

Comment: wintering complex. (Access may not allow)

<u>Site Condition:</u> Unknown Access <u>Proposed Start Date:</u> 10/01/2026

36 45174036-Cut 61.3 42290 - Natural 8 104 81-110 Harvest Shelterwood 42290 - Natural Current No Mixed Pine Shelterwood Mixed Pine

Prescription Extended irregular shelterwood to 20-60 BA average 40BA. Cut larger diameter trees and leave smaller diameter crop trees. Basal area

Specs: should be patchy with diversity in form and species.\*\*Follow most current natural pine guidance.\*\*

Next Step Monitoring, Natural Regen (Intermediate); Burn, Understory; SitePrep, Scarification

Next Step Treatments:

<u>Acceptable</u> pine, spruce, fir, aspen, maple, birch, cherry <u>Regen:</u>

Other Buffer rock river and leave as long term retention

Comment:

<u>Site Condition:</u> Unknown Access <u>Proposed Start Date:</u> 10/01/2026

Total Treatment Acreage Proposed: 125.6

# Report 4 - Site Conditions

Sault Ste. Marie Mgt. Unit

**Cody Flatt: Examiner** 

3%

Compartment: 174
Year of Entry: 2027



#### **Availability for Management** Total Acres Avail **Dominant Site Conditions** Acres Acres Available With Condition Not Available 2G Acres 109 0 109 0 Aspen 705 705 0 Cedar 0 370 321 49 **Lowland Conifers** 49 0 118 118 0 Lowland Shrub 0 20 20 0 0 Marsh 0 73 73 0 **Natural Mixed Pines** 5 5 0 Northern Hardwood 0 15 15 0 0 Tamarack 285 285 0 **Upland Conifers** 0 65 65 0 0 **Upland Mixed Forest** 4 4 0 Urban 0 40 40 0 Water 0 1,810 1,761 49 **Total Forested Acres** 49

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.

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:						
2	Unavailable	3H: Deer Wintering Area - habitat is incompatible with harvest at this time	456	Unspecified	Unspecified	Unspecified	Unspecified
(	Comments:						
	Johnnents.						

97%

# Report 4 – Site Conditions

Sault Ste. Marie Mgt. Unit
Cody Flatt: Examiner



3	Unavailable	3H: Deer Wintering Area - habitat is incompatible with harvest at this time	44	Unspecified	Unspecified	Unspecified	Unspecified
	Comments:						
4	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	36	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	Unspecified	Unspecified	Unspecified
	Comments:						
5	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	13	Unspecified	Unspecified	Unspecified	Unspecified
	Comments:						
6	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	27	Unspecified	Unspecified	Unspecified	Unspecified
	Comments:						
7	Unavailable	3A: Conservation values incompatible with harvest at this time	586	Unspecified	Unspecified	Unspecified	Unspecified
	Comments: WDS ERA						

# Report 4 – Site Conditions

Sault Ste. Marie Mgt. Unit
Cody Flatt: Examiner



8	Unavailable	3H: Deer Wintering Area - habitat is incompatible with harvest at this time	148	Unspecified	Unspecified	Unspecified	Unspecified
C	Comments:						
9	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
(	Comments:						
10	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	13	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	Unspecified	Unspecified	Unspecified
C	Comments:						
11	Available	2B: Unknown if access through adjacent landowner(s) is possible	126	2D: Portable bridge needed (Dept. bridge will be adequate)	Unspecified	Unspecified	Unspecified
C	Comments:						
12	Unavailable	2F: Too steep	18	Unspecified	Unspecified	Unspecified	Unspecified
C	Comments:						
13	Unavailable	3J: Water quality/BMPs (stream, river, or lake)	11	Unspecified	Unspecified	Unspecified	Unspecified
C	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				

t 7 – Stands Compartment: 174 Year of Entry: 2027

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Stand	Level 4 Co	over Type		Size Density	Acres	Stand Age	BA Range	Managed Si	te	General Comments
1	6128 - Lowland ( Deci	Coniferous, iduous	Mixed	Sawtimber Well	250.4	100	81-110	N/A		Infinitely variable stand. Predominantly low ground with white pine on the island areas of upland scattered throughout. Smaller diameter
	Canopy Species	% Cover	Size Class	DBH Age	Sub-Ca	nopy Species	s Density	Avg. Height	Size	spruce and tamarack in wettest areas.
	Red Maple	10		10	С	onifers	Low	Variable	Variable	
	Bigtooth Aspen	15		10	Ва	lsam Fir	Medium	Variable	Variable	
	Balsam Fir	15	Seedling	8	Та	ng Alder	Low	Variable	Variable	
No	rthern White Cedar	20	Seedling	8 100				·		_
	Paper Birch	5		10						
	White Pine	15		13 100						
	Tamarack	10	Seedling	7						
	Black Spruce	10	Seedling	8						
2	500 -	- Water		None	11.6			No		
3	500 -	- Water		None	8.8			No		
4	42380 - Non Pine U Deci	iduous		Sapling Well	10.1	40	1-50	N/A		Stand was cut in 1985. Regeneration is mix of aspen with spruce and balsam. Poor site and trees are small diameter. Some pretty wet ground in some areas. Data taken from when stand was visited in
	Canopy Species	% Cover	Size Class	DBH Age		nopy Species	s Density	Avg. Height	Size	2022.
	Quaking Aspen	25	Pole	4	Ta	ag Alder	Medium	Variable	Variable	
	Balsam Fir	40	Pole	4 40						
No	rthern White Cedar	5	Log	4						
	Red Maple	10	Log	3						
	White Spruce	15	Sapling	5						
5		wland Ceda		Poletimber Well	148.2		Unspecified	N/A		Wet cedar. Some mortality in cedar where wettest.
	Canopy Species	% Cover		DBH Age		nopy Species		Avg. Height	Size	
No	rthern White Cedar	70	Seedling	7 117		marack	Low	5 - 10 feet	5 - 10 feet	
	Tamarack	25	Seedling	7	Та	ag Alder	Low	Variable	Variable	
	Black Spruce	5	Seedling	7						
6		- Aspen		Sapling Well	10.1	15	Immature	N/A		Stand was cut in 2011. Good looking aspen regeneration.
	Canopy Species	% Cover		DBH Age						
	Quaking Aspen	75	Log	2 15						
	rthern White Cedar	5	Seedling	6						
	Bigtooth Aspen	15	Log	3						
	Balsam Fir	5	Seedling	6						



Stan	d Level 4 Co	over Type		Size De	nsity	Acres	Stand Age B	A Range	Managed Si	te	General Comments
7	4112 - Maple, Beec	h, Cherry A	ssociation	Sawtimb	er Well	4.8	75	81-110	N/A		Thinned in 2011. Decent looking poles. Heavy deer browse. Not
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Can	opy Species	Density	Avg. Height	Size	much for regeneration.
	Red Maple	20		10		Suga	ar Maple	Low	< 5 feet	< 5 feet	
	Sugar Maple	75		10	75	Stripe	ed Maple	Low	< 5 feet	< 5 feet	
	Paper Birch	5	Seedling	8							_
8	6129 - Mixed Conife	erous Lowla	ind Forest	Sapling N	/ledium	27.1	67 U	nspecified	N/A		Data taken from previous inventory. No access.
9	500 -	Water		Nor	ie	10.3			No		
10	6120 - Lov	vland Ceda	r	Poletimb	er Well	15.8	128	141-170	N/A		Small part of larger stand in adjacent compartment. Very wet in some
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Can	opy Species	Density	Avg. Height	Size	places with sparse basal area. Mix of cedar, balsam, spruce, birch and some hardwoods. Not very merchantable.
	Black Spruce	10	Sapling	5		Tag	g Alder	Low	5 - 10 feet	5 - 10 feet	and dome hardweeds. Not very more hands to.
	Paper Birch	10	Sapling	5		Black	Spruce	Low	5 - 10 feet	5 - 10 feet	
	Red Maple	5	Pole	4					1		_
No	orthern White Cedar	70	Sapling	6	128						
	Balsam Poplar	5	Sapling	5							
11	629 - Mixed non	-forested W	etland/	Nor	ie	19.5			No		Rock River flows though stand
12		n, Mixed Pi	ne	Sapling	Well	98.8	25	51-80	N/A		Stand was cut in 2003. Cut all species except WP and RP. Aspen, jbirch, maple mix regenerating nicely.
	Canopy Species		Size Class		Age		opy Species	Density	Avg. Height	Size	birdi, maple mix regenerating meety.
	White Pine	15		16	90	Rec	l Maple	Medium		\ / - u: - l- l -	
	Quaking Aspen	20	Pole	4			<u> </u>		Variable	Variable	
	Red Pine	5				Тас	g Alder	Low	5 - 10 feet	5 - 10 feet	
				14		Тас	<u> </u>				
	Bigtooth Aspen	60	Pole		25	Тас	g Alder	Low	5 - 10 feet	5 - 10 feet	
13				14		Тас	g Alder er Birch	Low	5 - 10 feet	5 - 10 feet	Stand contains rock river
13		60 vland Ceda		14 3 Poletimb		Тао Рар 28.5	g Alder er Birch	Low	5 - 10 feet Variable	5 - 10 feet	Stand contains rock river
13	6120 - Lov	60 vland Ceda	r	14 3 Poletimb	er Well	Pape 28.5 Sub-Can	g Alder er Birch	Low Low	5 - 10 feet Variable N/A	5 - 10 feet Variable	Stand contains rock river
	6120 - Lov	60 vland Ceda % Cover	r Size Class	14 3 Poletimb	er Well	Pape 28.5 Sub-Can	g Alder er Birch 119 U	Low Low nspecified Density	5 - 10 feet Variable  N/A  Avg. Height	5 - 10 feet Variable	Stand contains rock river
	6120 - Lov Canopy Species Paper Birch orthern White Cedar	60  vland Ceda  % Cover  10 90	Size Class Seedling Seedling	14 3 Poletimb DBH	Age	Pape 28.5 Sub-Can	g Alder er Birch 119 U	Low Low nspecified Density	5 - 10 feet Variable  N/A  Avg. Height	5 - 10 feet Variable	Stand contains rock river
No	6120 - Lov  Canopy Species  Paper Birch orthern White Cedar  629 - Mixed non	60  vland Ceda  % Cover  10 90	Size Class Seedling Seedling	14 3 Poletimb DBH 6 8	Age 119	Taç Papı  28.5  Sub-Can	g Alder er Birch 119 U	Low Low nspecified Density	5 - 10 feet Variable  N/A  Avg. Height Variable	5 - 10 feet Variable	Stand contains rock river



Stand	Level 4 Co	over Type		Size Density	Acres	Stand Age B	A Range	Managed S	ite	General Comments
17	6121 - 7	Гатагаск		Poletimber Poor	15.0	55	1-50	N/A		Extremely wet lowland with sparse tamarack growing.
Car	nopy Species	% Cover	Size Class	DBH Age	Sub-Car	nopy Species	Density	Avg. Height	Size	
Bla	ack Spruce	10	Log	4	Ta	g Alder	Low	Variable	Variable	
Norther	rn White Cedar	35	Log	4						
Т	amarack	55	Sapling	5 55						
18	6120 - Lov	wland Ceda	ır F	Poletimber Mediur	n 73.0	98 Uı	nspecified	N/A	1	Very wet cedar and mix in lower wetlands in dune and swale area.
Car	nopy Species	% Cover	Size Class	DBH Age	Sub-Car	nopy Species	Density	Avg. Height	Size	Cedar and other species on small ridge portions.
Bla	ack Spruce	10	Seedling	8	Та	g Alder	Low	Variable	Variable	
W	/hite Pine	10		13						_
Т	amarack	15	Seedling	7						
Norther	rn White Cedar	60	Seedling	8 98						
Pa	aper Birch	5	Seedling	6						
19	122 - Road	d/Parking Lo	ot	None	2.9			No		US2 and R.O.W
20	622 - Low	land Shrub	)	None	10.3			No		
					Sub-Car	nopy Species	Density	Avg. Height	Size	
					Ta	g Alder	Medium	Variable	Variable	
					Northern	White Cedar	Low	Variable	Variable	
21	6120 - Lov	wland Ceda	ır F	Poletimber Mediur	n 163.5	100 Uı	nspecified	N/A	ı	Wetland cedar. Variable throughout. Not much size.
Car	nopy Species	% Cover	Size Class	DBH Age	Sub-Car	nopy Species	Density	Avg. Height	Size	
Bla	ack Spruce	15	Sapling	6	Та	g Alder	Low	5 - 10 feet	5 - 10 feet	
Т	amarack	20	Seedling	7						
Norther	rn White Cedar	65	Sapling	7 100						
<b>22</b> 612	29 - Mixed Conife	erous Lowla	and Forest F	Poletimber Mediur	n 35.9	70 Uı	nspecified	N/A	1	
Car	nopy Species	% Cover	Size Class	DBH Age	Sub-Car	nopy Species	Density	Avg. Height	Size	
Pa	aper Birch	15	Seedling	6	Та	g Alder	Low	Variable	Variable	
Bla	ack Spruce	40	Sapling	7 70						
W	/hite Pine	10		11						
Norther	rn White Cedar	35	Seedling	8						
23	6120 - Lov	wland Ceda	ır	Poletimber Well	27.4	100 Uı	nspecified	N/A		Lowland cedar mix, sparse in places. Very wet ground.
	nopy Species	% Cover				nopy Species	Density	Avg. Height	Size	
	amarack	5	Seedling		Та	marack	Medium	Variable	Variable	
Norther	rn White Cedar	55	Seedling							
	ack Spruce	25	Seedling							
	aper Birch	10	Seedling							
	/hite Pine	5		12						

rt 7 – Stands



Stand	Level 4 Co	over Type	(	Size De	nsity	Acres Sta	nd Age BA	A Range	Managed Si	te	General Comments
24	6129 - Mixed Conife	erous Lowla	and Forest Pol	etimber	Mediun	n 7.1	90 Un	specified	N/A		Lowland conifer mix with some large white pine on upland knobs. Tag
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy	y Species	Density	Avg. Height	Size	alder in open wet areas.
	Black Spruce	15	Seedling	7		Tag Ale	der	Low	Variable	Variable	
	Tamarack	10	Sapling	7							_
	Balsam Fir	15	Seedling	7							
	Paper Birch	10	Seedling	7							
Nor	rthern White Cedar	35	Seedling	7	90						
	White Pine	15		12							
25	623 - Emer	gent Wetlaı	nd	Nor	ne	20.2			No		Very low wet swales with some ridge rows of poor swamp conifer
						Sub-Canopy	y Species	Density	Avg. Height	Size	stems
						Tag Alo	der	Medium	Variable	Variable	
						Black Sp	ruce	Low	Variable	Variable	
						Northern Wh	ite Cedar	Low	Variable	Variable	
26	500 -	Water		Nor	ne	4.8			No		
27											
21	6120 - Lov	wland Ceda	r P	oletimb	er Well	240.0	155 Un	specified	N/A		Dense cedar stand in low wet ground just above ridge and swale
	Canopy Species		Size Class		er Well Age	240.0 Sub-Canopy		Specified <b>Density</b>	N/A Avg. Height	Size	complex. Tag alder in open wet areas. Some scattered spruce and
							y Species	•			
	Canopy Species	% Cover		DBH		Sub-Canopy	y Species der	Density	Avg. Height	Size	complex. Tag alder in open wet areas. Some scattered spruce and
	Canopy Species White Pine Red Maple Paper Birch	% Cover	Size Class	<b>DBH</b>		Sub-Canopy Tag Ale	y Species der	<b>Density</b> Low	Avg. Height 5 - 10 feet	Size 5 - 10 feet	complex. Tag alder in open wet areas. Some scattered spruce and
	Canopy Species White Pine Red Maple	<b>% Cover</b> 5 5	Size Class Seedling	10 6	Age	Sub-Canopy Tag Ale	y Species der	<b>Density</b> Low	Avg. Height 5 - 10 feet	Size 5 - 10 feet	complex. Tag alder in open wet areas. Some scattered spruce and
	Canopy Species White Pine Red Maple Paper Birch	% Cover 5 5 5	Size Class  Seedling Seedling	10 6 6		Sub-Canopy Tag Ale	y Species der	<b>Density</b> Low	Avg. Height 5 - 10 feet	Size 5 - 10 feet	complex. Tag alder in open wet areas. Some scattered spruce and
Nor	Canopy Species White Pine Red Maple Paper Birch Black Spruce	% Cover 5 5 5 15 70	Size Class  Seedling Seedling Seedling Seedling	DBH 10 6 6 7 8	155	Sub-Canopy Tag Ald Balsam	y Species der n Fir	<b>Density</b> Low	Avg. Height 5 - 10 feet	Size 5 - 10 feet Variable	complex. Tag alder in open wet areas. Some scattered spruce and balsam where there are small ridges.  Widely variable stand of sharp ridges and very wet lowland with tag
Nor <b>28</b>	Canopy Species White Pine Red Maple Paper Birch Black Spruce rthern White Cedar	% Cover	Size Class  Seedling Seedling Seedling Seedling	DBH 10 6 6 7 8 awtimb	155	Sub-Canopy Tag Ald Balsam	y Species der i Fir	Density Low Low	Avg. Height 5 - 10 feet Variable	Size 5 - 10 feet Variable	complex. Tag alder in open wet areas. Some scattered spruce and balsam where there are small ridges.
Nor <b>28</b>	Canopy Species White Pine Red Maple Paper Birch Black Spruce rthern White Cedar  42390 - Mixed Non-	% Cover	Size Class  Seedling Seedling Seedling Seedling d Conifers	DBH 10 6 6 7 8 awtimb	155 er Well	Sub-Canopy Tag Ald Balsam	y Species  der  Fir  108 1  y Species	Density Low Low 11-140	Avg. Height 5 - 10 feet Variable  N/A	Size 5 - 10 feet Variable	complex. Tag alder in open wet areas. Some scattered spruce and balsam where there are small ridges.  Widely variable stand of sharp ridges and very wet lowland with tag
Nor <b>28</b>	Canopy Species White Pine Red Maple Paper Birch Black Spruce rthern White Cedar 42390 - Mixed Non- Canopy Species	% Cover	Size Class  Seedling Seedling Seedling Seedling d Conifers	DBH 10 6 6 7 8 awtimb	155 er Well	Sub-Canopy Tag Alo Balsam  257.2  Sub-Canopy	y Species  der  Fir  108 1  y Species  ers	Density Low Low 11-140 Density	Avg. Height 5 - 10 feet Variable  N/A  Avg. Height	Size 5 - 10 feet Variable	complex. Tag alder in open wet areas. Some scattered spruce and balsam where there are small ridges.  Widely variable stand of sharp ridges and very wet lowland with tag
Nor <b>28</b>	Canopy Species White Pine Red Maple Paper Birch Black Spruce rthern White Cedar 42390 - Mixed Non- Canopy Species Red Maple	% Cover	Size Class  Seedling Seedling Seedling Seedling Seedling Seedling	DBH 10 6 6 7 8 awtimb DBH 10	155 er Well	Sub-Canopy Tag Ald Balsam  257.2  Sub-Canopy Conife	y Species  der  Fir  108 1  y Species  ers	Density Low Low 11-140 Density Low	Avg. Height 5 - 10 feet Variable  N/A  Avg. Height Variable	Size 5 - 10 feet Variable  Size Variable	complex. Tag alder in open wet areas. Some scattered spruce and balsam where there are small ridges.  Widely variable stand of sharp ridges and very wet lowland with tag
Nor <b>28</b>	Canopy Species White Pine Red Maple Paper Birch Black Spruce rthern White Cedar  42390 - Mixed Non- Canopy Species Red Maple Balsam Fir	% Cover	Size Class  Seedling Seedling Seedling Seedling Seedling Seedling Seedling	DBH 10 6 6 7 8 awtimb DBH 10 8	155 er Well	Sub-Canopy Tag Ald Balsam  257.2  Sub-Canopy Conife	y Species  der  Fir  108 1  y Species  ers	Density Low Low 11-140 Density Low	Avg. Height 5 - 10 feet Variable  N/A  Avg. Height Variable	Size 5 - 10 feet Variable  Size Variable	complex. Tag alder in open wet areas. Some scattered spruce and balsam where there are small ridges.  Widely variable stand of sharp ridges and very wet lowland with tag
Nor <b>28</b>	Canopy Species White Pine Red Maple Paper Birch Black Spruce rthern White Cedar  42390 - Mixed Non- Canopy Species Red Maple Balsam Fir Tamarack	% Cover	Size Class  Seedling Seedling Seedling Seedling d Conifers Size Class Seedling Seedling	DBH	155 er Well	Sub-Canopy Tag Ald Balsam  257.2  Sub-Canopy Conife	y Species  der  Fir  108 1  y Species  ers	Density Low Low 11-140 Density Low	Avg. Height 5 - 10 feet Variable  N/A  Avg. Height Variable	Size 5 - 10 feet Variable  Size Variable	complex. Tag alder in open wet areas. Some scattered spruce and balsam where there are small ridges.  Widely variable stand of sharp ridges and very wet lowland with tag
Nor <b>28</b>	Canopy Species White Pine Red Maple Paper Birch Black Spruce rthern White Cedar  42390 - Mixed Non- Canopy Species Red Maple Balsam Fir Tamarack Paper Birch	% Cover	Size Class  Seedling Seedling Seedling d Conifers Size Class  Seedling Seedling Seedling	DBH 10 6 6 7 8 awtimb DBH 10 8 8 8	155 er Well	Sub-Canopy Tag Ald Balsam  257.2  Sub-Canopy Conife	y Species  der  Fir  108 1  y Species  ers	Density Low Low 11-140 Density Low	Avg. Height 5 - 10 feet Variable  N/A  Avg. Height Variable	Size 5 - 10 feet Variable  Size Variable	complex. Tag alder in open wet areas. Some scattered spruce and balsam where there are small ridges.  Widely variable stand of sharp ridges and very wet lowland with tag
Nor <b>28</b>	Canopy Species White Pine Red Maple Paper Birch Black Spruce rthern White Cedar  42390 - Mixed Non- Canopy Species Red Maple Balsam Fir Tamarack Paper Birch rthern White Cedar	% Cover	Size Class  Seedling Seedling Seedling  d Conifers Size Class  Seedling Seedling Seedling Seedling Seedling	DBH	155 er Well	Sub-Canopy Tag Ald Balsam  257.2  Sub-Canopy Conife	y Species  der  Fir  108 1  y Species  ers	Density Low Low 11-140 Density Low	Avg. Height 5 - 10 feet Variable  N/A  Avg. Height Variable	Size 5 - 10 feet Variable  Size Variable	complex. Tag alder in open wet areas. Some scattered spruce and balsam where there are small ridges.  Widely variable stand of sharp ridges and very wet lowland with tag

Report 7 - Stands

	Level 4 Co	ver Type		Size Density		Acres	Stand Age E	BA Range	Managed Site N/A		General Comments  Wet stand with some small upland islands where the trees grow. Tag alder and water in remainder.
<b>29</b> 6129 - M	6129 - Mixed Conifero		and Forest Po	letimber	Medium	23.4	68 U	Unspecified			
Canopy	Canopy Species		Size Class	DBF	l Age	Sub-Car	nopy Species	es Density	Avg. Height	Size	alder and water in remainder.
Black Sp	pruce	20	Seedling	7		Ta	g Alder	Medium	Variable	Variable	
Balsan	n Fir	25	Seedling	8	68						
White F	Pine	15		13							
Tamar	ack	10	Seedling	6							
Northern Wh	rthern White Cedar	25	Seedling	7							
Red Ma	aple	5		9							
30 4319 - Mixed Upland Forest		Sawtimber Well		65.4 117		51-80	N/A		Variable upland mix stand with low areas, areas of log sized maple,		
Canopy	Species	% Cover	Size Class	B DBH Age		Sub-Canopy Species		Density	Avg. Height Size		birch, aspen, pine with areas of pole sized spruce/fir and low areas with cedar.
White Sp	pruce	10		10		Bal	sam Fir	Medium	Variable	Variable	
Paper E	Birch	15		9		Red	d Maple	Low	Variable	Variable	
Northern Wh	nite Cedar	10	Sapling	6		Co	onifers	Low	Variable	Variable	
Quaking A	Aspen	15		11							
Black Sp	pruce	5	Sapling	6							
White F	Pine	15		12	117						
Red Ma	aple	15		9							
Balsam		15	Sapling	7							
<b>31</b> 6129 - M			and Forest Po			า 13.1			N/A		Wetland with some conifer.
	Species		Size Class	DBH	Age			Inspecified	IV/A		World will come come.
Northern Wh	nite Cedar	45	Seedling	<b>DBH</b>				тарсопос	N/A		Trouble murcome como.
Northern Wh	nite Cedar pruce	45 30	Seedling Seedling	8 7	Age			mapeomed	IVA		
Northern Wh Black Sp Paper E	nite Cedar pruce Birch	45 30 15	Seedling Seedling Sapling	8 7 7	Age			mapeemed	IVA		
Northern Wh	nite Cedar pruce Birch	45 30	Seedling Seedling	8 7	Age			nispedilied	IVA		
Northern Wh Black Sp Paper E Balsam	nite Cedar pruce Birch	45 30 15 10	Seedling Seedling Sapling Seedling	DBH  8 7 7 7 Coletimb	Age 95 er Well	8.9	110 U	Inspecified	N/A		Lowland cedar between ridges.
Northern Wh Black Sp Paper E Balsam  32 Canopy	nite Cedar pruce Birch n Fir 6120 - Low	45 30 15 10	Seedling Seedling Sapling Seedling	DBH  8 7 7 7 Poletimb	<b>Age</b> 95	8.9		Inspecified		Size	
Northern Wh Black Sp Paper E Balsam  32  Canopy Balsam	nite Cedar pruce Birch n Fir 6120 - Low Species	45 30 15 10 Vland Ceda % Cover	Seedling Seedling Sapling Seedling	B	Age 95 er Well	8.9 <b>Sub-Ca</b> r	110 U	Inspecified	N/A	<b>Size</b> Variable	
Northern Wh Black Sp Paper E Balsam  32  Canopy Balsam Paper E	nite Cedar pruce Birch n Fir 6120 - Low Species n Fir Birch	45 30 15 10 Vland Ceda % Cover 10 5	Seedling Seedling Sapling Seedling r F	B	95 er Well	8.9 <b>Sub-Ca</b> r	110 U	Unspecified  Density	N/A Avg. Height		
Northern Wh Black Sp Paper E Balsam  32  Canopy Balsam	nite Cedar pruce Birch n Fir 6120 - Low Species n Fir Birch	45 30 15 10 Vland Ceda % Cover	Seedling Seedling Sapling Seedling  r F Size Class Seedling	B	Age 95 er Well	8.9 <b>Sub-Ca</b> r	110 U	Unspecified  Density	N/A Avg. Height		
Northern Wh Black Sp Paper E Balsam  32  Canopy Balsam Paper E Northern Wh	nite Cedar pruce Birch n Fir 6120 - Low Species n Fir Birch nite Cedar - Lowland C	45   30   15   10   10   10   10   10   10   1	Seedling Seedling Sapling Seedling  r F Size Class Seedling Seedling Seedling	DBH      8	95 er Well	8.9 Sub-Car	110 U n <b>opy Species</b> marack	Unspecified  Density	N/A Avg. Height		
Northern Wh Black Sp Paper E Balsam  32  Canopy Balsam Paper E Northern Wh  34 6128	nite Cedar pruce Birch n Fir 6120 - Low Species n Fir Birch nite Cedar - Lowland C	45 30 15 10 Wand Ceda **Cover 10 5 85 Coniferous, duous	Seedling Seedling Sapling Seedling  r F Size Class Seedling Seedling Seedling	DBH  8 7 7 7 7 Poletimb  DBH 6 7 7	er Well Age	8.9 <b>Sub-Car</b> Tar	110 U n <b>opy Species</b> marack	Jnspecified  Density  Low  Jnspecified	N/A  Avg. Height  Variable		Lowland cedar between ridges.
Northern Wh Black Sp Paper E Balsam  32  Canopy Balsam Paper E Northern Wh  34 6128	species  Lowland C  Species  - Lowland C  Species	45 30 15 10 Wand Ceda **Cover 10 5 85 Coniferous, duous	Seedling Seedling Sapling Seedling  r F Size Class Seedling Seedling Seedling Seedling	DBH  8 7 7 7 7 Poletimb  DBH 6 7 7	er Well Age 110 Medium	8.9 <b>Sub-Car</b> Tai  13.2 <b>Sub-Car</b>	110 Unopy Species marack 98 U	Jnspecified  Density  Low  Jnspecified	N/A  Avg. Height  Variable  N/A	Variable	Lowland cedar between ridges.
Northern Wh Black Sp Paper E Balsam  32  Canopy Balsam Paper E Northern Wh  34 6128  Canopy	nite Cedar pruce Birch 6120 - Low Species Fir Birch nite Cedar - Lowland C Decid	45   30   15   10   41   42   43   45   45   45   45   45   45   45	Seedling Seedling Sapling Seedling  r F Size Class Seedling Seedling Seedling Mixed Po Size Class	DBH  8 7 7 7 Poletimb  DBH 6 7 7  DBH BH BH	er Well Age 110 Medium	8.9 <b>Sub-Car</b> Tai  13.2 <b>Sub-Car</b>	110 U nopy Species marack  98 U nopy Species	Unspecified  Density  Low  Unspecified  Density	N/A  Avg. Height  Variable  N/A  Avg. Height	Variable Size	Lowland cedar between ridges.
Northern Wh Black Sp Paper E Balsam  32  Canopy Balsam Paper E Northern Wh  34 6128  Canopy Paper E	species - Lowland C Decid  Species - Lowland C Decid  Species - Species - Lowland C Decid  Species - Species	45   30   15   10   41   42   43   45   45   45   45   45   45   45	Seedling Seedling Sapling Seedling  r F Size Class Seedling Seedling Mixed Po Size Class Seedling	B	er Well Age 110 Medium	8.9 <b>Sub-Car</b> Tai  13.2 <b>Sub-Car</b>	110 U nopy Species marack  98 U nopy Species	Unspecified  Density  Low  Unspecified  Density	N/A  Avg. Height  Variable  N/A  Avg. Height	Variable Size	Lowland cedar between ridges.
Northern Wh Black Sp Paper E Balsam  32  Canopy Balsam Paper E Northern Wh  34 6128  Canopy Paper E Black Sp	species - Lowland C Decid  Species - Lowland C Decid  Species - Species - Lowland C Decid  Species - Lowland C Decid	45   30   15   10   10   15   10   10   10   1	Seedling Seedling Sapling Seedling  r F Size Class Seedling Seedling Mixed Po Size Class Seedling	BH	er Well Age 110 Medium Age	8.9 <b>Sub-Car</b> Tai  13.2 <b>Sub-Car</b>	110 U nopy Species marack  98 U nopy Species	Unspecified  Density  Low  Unspecified  Density	N/A  Avg. Height  Variable  N/A  Avg. Height	Variable Size	Lowland cedar between ridges.
Northern Wh Black Sp Paper E Balsam  32  Canopy Balsam Paper E Northern Wh 34 6128  Canopy Paper E Black Sp White B	species Birch Cedar Fir 6120 - Low Species Fir Birch Cedar - Lowland C Decid Species Birch Pruce Pine Cedar	45   30   15   10   20   25   30   30   30   30   30   30   30   3	Seedling Seedling Sapling Seedling  F Size Class Seedling Seedling Seedling Seedling Seedling Seedling Seedling Seedling	DBH	er Well Age 110 Medium Age	8.9 <b>Sub-Car</b> Tai  13.2 <b>Sub-Car</b>	110 U nopy Species marack  98 U nopy Species	Unspecified  Density  Low  Unspecified  Density	N/A  Avg. Height  Variable  N/A  Avg. Height	Variable Size	Lowland cedar between ridges.

Report 7 - Stands



Stand	Level 4 Cover Type			Size Density		Acres Stand Age B.		BA Range	Managed Site		General Comments
35	429 - Mixed Upland Conifers S			Sawtimb	Sawtimber Well			Stand is a very steep ridge between wetlands. There is virtually no			
	Canopy Species	% Cover	Size Class	DBH	l Age	Sub-Canopy Species		Density	Avg. Height	Size	access from adjacent stand as there is a sharp ravine and wetland blocking. Very unique landform for our area.
	Red Pine	20		12	95	С	onifers	Low	Variable	Variable	sissing. Vory unique landionn for our area.
	Hemlock	20		12							
	White Pine	20		12							
	Red Maple	10		9							
	Paper Birch	15	Seedling	7							
	Balsam Fir	15	Seedling	6							
36	42290 - Natural Mixed Pine Sav		Sawtimber	wtimber Medium		104	81-110	N/A		Openland stand of mixed pine toward interior, denser canopy near	
	Canopy Species	% Cover	Size Class	DBH	Age						edges. More red pine on north ridge. Stand is on hilly ground and north of Rock River Road. Rock river runs through south end of stand.
	Red Maple	5	Seedling	8							
	White Pine	40		14	104						
	Red Pine	30		14							
	White Spruce	10	Seedling	8							
	Bigtooth Aspen	5	Seedling	8							
	Paper Birch	10	Seedling	8							
38	629 - Mixed non-forested Wetland		Nor	None		13.6		No			
						Sub-Ca	nopy Species	Density	Avg. Height	Size	
						WI	nite Pine	Low	Variable	Variable	
						Northerr	White Cedar	Low	Variable	Variable	
40	629 - Mixed non-forested Wetland			Nor	ne	4.0			No		
41	122 - Road/Parking Lot			Nor	ne	1.4			No		US2 and R.O.W
43	629 - Mixed non-forested Wetland				ne	6.9			No		
44	629 - Mixed nor	n-forested W	Vetland	Nor	ne	2.8			No		
						Sub-Ca	nopy Species	Density	Avg. Height	Size	
						Ta	ag Alder	Medium	5 - 10 feet	5 - 10 feet	