

Compartment Review Presentation

Sault Ste. Marie Forest Management Unit

Compartment 151 Entry Year 2016 Acreage: 1,842 County Mackinac Management Area: Sage Truck Trail

Revision Date: 07/09/2014

Stand Examiner: Dan Beaudo

Legal Description:

T44N-R8W, Sections 11, 13 & 14

Identified Planning Goals:

The compartment lies three miles north of Rexton along the Dinkey Line with the Hendrie River Road, Giddings Truck Trail and Weasel Road going through the compartment. The headwaters for the Sage and Hendrie Rivers are within the compartment with heavy beaver activity on the streams. Mixed timber type stand are prevalent within the compartment. Most of the compartment is lowland conifer with some lowland poplar and birch to upland aspen and northern hardwood. The aspen has been managed extensively within the last 30 years. The older aspen, birch and fir mixed stands that were left for age class diversity last cycle will be managed at this time. The northern hardwood stand will be managed by selection harvesting. Stands with white pine and hemlock present will be managed to release and increase their composition in the stands.

Soil and topography:

The majority of the compartment is on the outwash plain and lake plains on the level to undulating ground with small ridges. The soils within the majority of the upland types are Wallace sand, Paquin sand, Springlake loamy coarse sand, Adams sandy loam, and Pullup fine sand. The transition zone soils are Spot-Finch Complex, Paquin-Spot Complex, and Markey-Spot-Finch Complex. The lowland area soils are Markey and Carbondale muck, Dawson and Loxley peat, Spot muck, and ponded Histosols and Aquents.

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

The compartment has one private 80 within the boundary in Section 13. Section 12 has 2 hunting camps of 120 acres to the north of this compartment. There is one private 80 to the southeast of the compartment boundary. The remaining surrounding lands are in state ownership.

Unique Natural Features:

Unique, Natural Features (include only non-site specific and non-sensitive information): There is a potential for rare threatened or endangered plant and animal species within the compartment. Stands to be managed will be checked for species of concern. Management will be modified if species are found within those stands per management guidelines for that species.

Archeological, Historical, and Cultural Features:

No Archeological, Historical, or Cultural Features known.

Special Management Designations or Considerations:

Best management practices will be followed along the boundaries between managed stands to the lowland edges.

Watershed and Fisheries Considerations:

Fisheries Values: Moderate

Fisheries Concerns: This compartment contains the East Branch Sage River and the West Branch Hendrie River and a few small inland lakes. Both rivers are designated trout streams from the Soo Line upstream. Aspen cover types are only in proximity to the East Branch Sage River. Any treatments near the East Branch Sage River should maintain a 300 ft. no clear-cut setback along the stream. Both streams contain native brook trout in the reaches near this compartment due to the sources of groundwater located in this area. The small inland lakes contained within this compartment have minimal fisheries values at best and most likely offering only minnow species and bullhead populations. A buffer should be maintained along the shorelines of each lake and should be decided under a case by case basis.

Wildlife Habitat Considerations:

Compartment 151 is part of the Sage Truck Trail Management Area. Common cover types include cedar, aspen, and mixed upland and lowland types including larger wetland areas. Wildlife habitat objectives in this compartment include maintaining the mature hardwood and the large amount of existing lowland and cedar stands, and maintaining wetland

systems. Extensive aspen management has occurred in the past to improve the age class diversity. Age class diversification will focus on upland and lowland mixed stands during this cycle. Where hemlock and white pine exist, management will be done to maintain these components. Management here is expected to benefit ruffed grouse, snowshoe hare, black bear, bobcat, beaver, and hawks.

Mineral Resource and Development Concerns and/or Restrictions

Surface sediments consist of peat & muck, lacustrine (lake) sand and gravel and minor coarse-textured glacial till. There is insufficient data to determine the glacial drift thickness. The Silurian Manistique and Burnt Bluff Groups subcrop below the glacial drift. The Burnt Bluff is quarried for stone/limestone four mile to the northwest. Gravel pits are not located in the area, but there may be some potential. There is no current economic oil and gas production in the UP.

Vehicle Access:

The Dinkey Line is a poorly maintained seasonal county road. The Giddings is a good gravel state maintained road. The Weasel, Pat and Hendrie River Roads are poor dirt state maintained roads. The Pat Road was built by Wildlife Division. The access is good to most of the compartment. The road to the north end of Section 11 was blocked at the south end previously after a timber sale. This road should be reblocked to protect the old wood box culverts present in the grade. The old north south ice road through Section 13 is almost unwalkable. Most of the two tracks within the compartment are blocked to vehicle access. Any new roads will be blocked to vehicle access when timber sales are completed.

Survey Needs:

No survey needs at this time.

Recreational Facilities and Opportunities:

The Newberry-Rexton Motorcycle trail traverses the very southwest corner of the compartment. The area is used for all types of recreational activities including ATV and snowmobile riding, various species hunting and trapping and mushroom and berry picking. The area is used by trapper for mostly beaver and otter trapping opportunities.

Fire Protection:

The fire danger is low to moderate. There is a potential for ground fire within the lowland areas. The vehicle access to the rest of the compartment is good for fire protection. The roads can be difficult to access in the spring because of the wet conditions.

Additional Compartment Information:

The following reports from the Inventory are attached:

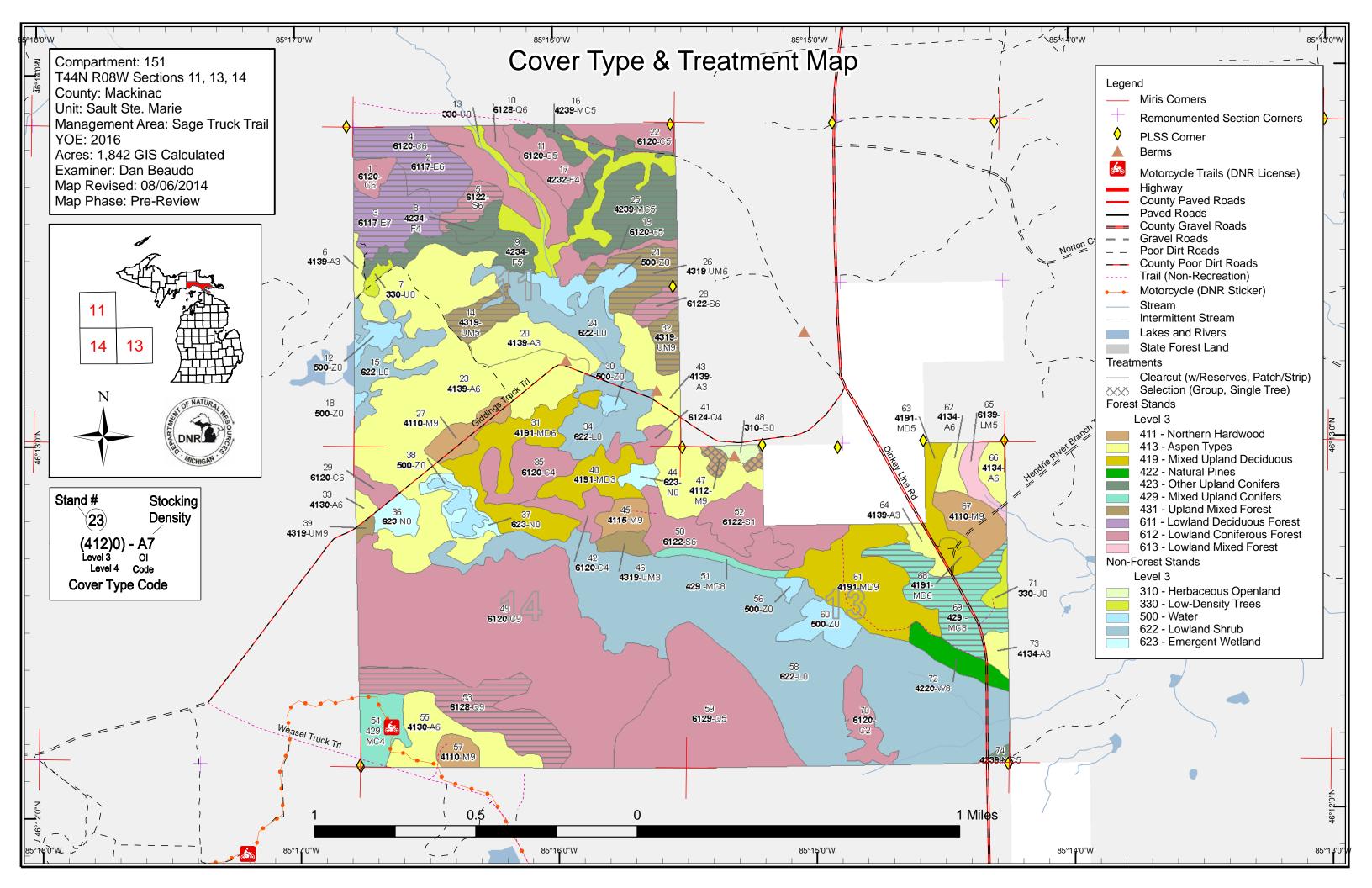
Total Acres by Cover Type and Age Class Cover Type by Harvest Method Proposed Treatments – No Limiting Factors Proposed Treatments – With Limiting Factors Stand Details (Forested and Nonforested) Dedicated and Proposed Special Conservation Areas Site Condition Details

The following information is displayed, where pertinent, on the attached compartment maps: Base feature information, stand boundaries, cover types, and numbers

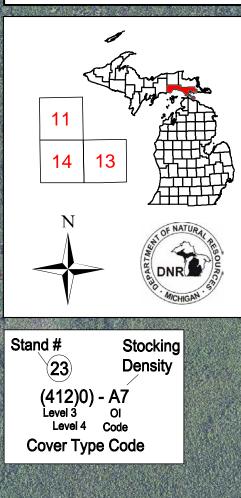
Proposed treatments

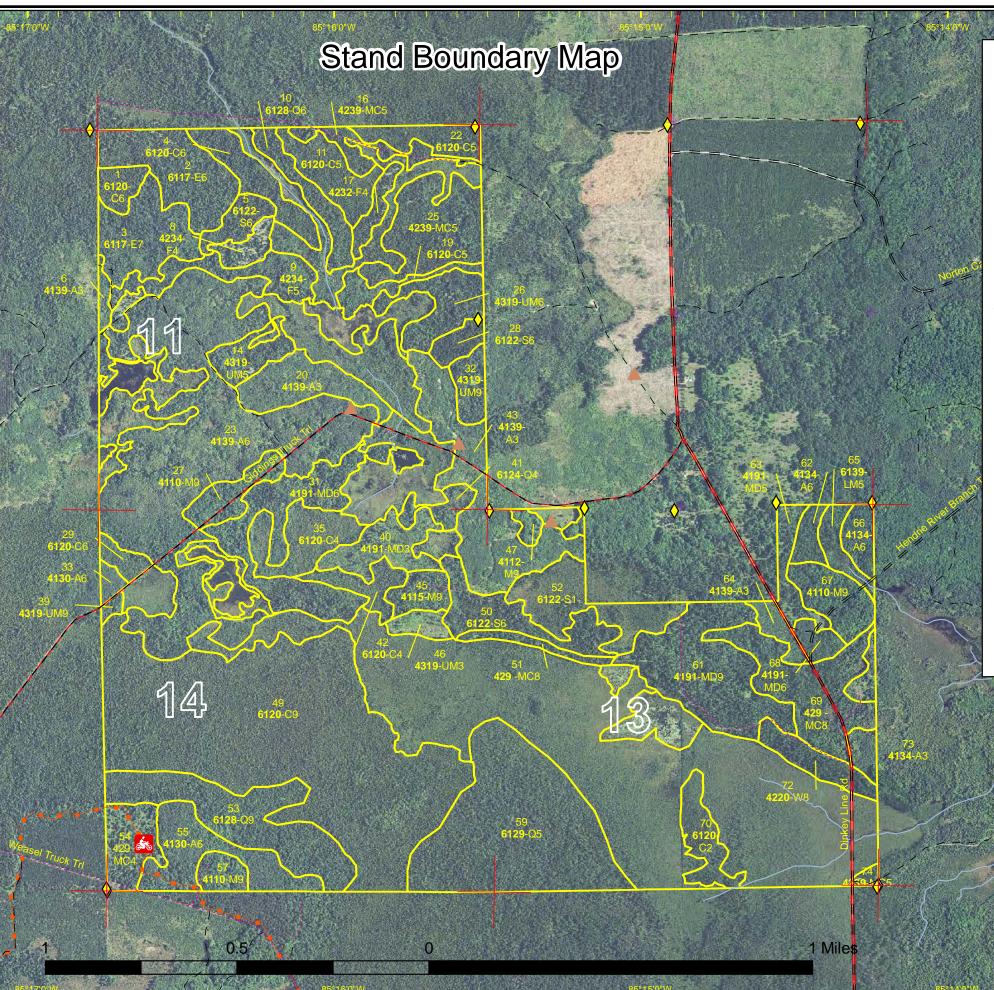
Site condition boundaries

Details on the road access system



Compartment: 151 T44N R08W Sections 11, 13, 14 County: Mackinac Unit: Sault Ste. Marie Management Area: Sage Truck Trail YOE: 2016 Acres: 1,842 GIS Calculated Examiner: Dan Beaudo Map Revised: 08/06/2014 Map Phase: Pre-Review



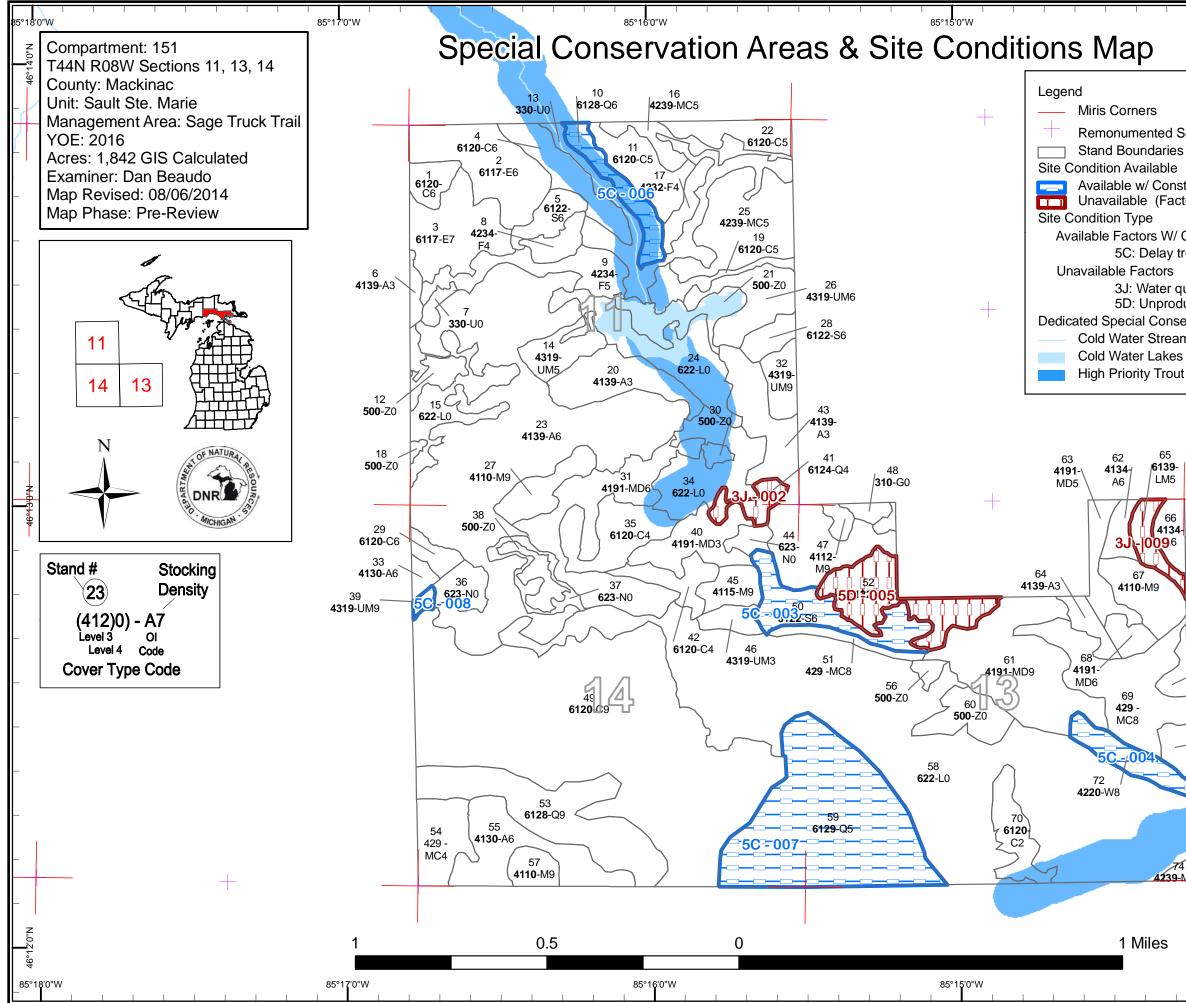


Legend

Miris Corners

- Remonumented Section Corners
- \diamond PLSS Corner
- Berms
- **1** Motorcycle Trails (DNR License)
- Highway
- County Paved Roads
- Paved Roads
- County Gravel Roads ___
- Gravel Roads = =
- Poor Dirt Roads _ _
 - County Poor Dirt Roads
 - Trail (Non-Recreation)
- Motorcycle (DNR Sticker)
- Stream
- Intermittent Stream
- Stand Boundaries
- Forest Stands
 - Level 3
 - 411 Northern Hardwood

 - 413 Aspen Types 419 Mixed Upland Deciduous
 - 422 Natural Pines
 - 423 Other Upland Conifers
 - 429 Mixed Upland Conifers
 - 431 Upland Mixed Forest
 - 611 Lowland Deciduous Forest
 - 612 Lowland Coniferous Forest
 - 613 Lowland Mixed Forest
- Non-Forest Stands
 - Level 3
 - 310 Herbaceous Openland
 - 330 Low-Density Trees
 - 500 Water
 - 622 Lowland Shrub
 - 623 Emergent Wetland



	<u> </u>
85°14'0"W	85°13'0"W
	_
Section Corners	
28	
e nstraints (Factor - Number)	
ctor - Number)	
/ Constraints treatment for age/size class diversity or exceptional site quality	, ``
quality / BMPs (stream, river, or lake)	F
servation Areas	
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73 4134-A3	_
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74	
74 <u>9-MC5</u>	
	N"0"
	46°12'0"N.
85°14'0"W	85°13'0'

Report 1 – Total Acres by Cover Type and Age Class

Sault Ste. Marie Mgt. Unit

Dan Beaudo : Examiner

Compartment 151 Year of Entry 2016



Age Class

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Aspen	6	85	48	173	0	0	0	0	0	0	0	0	0	0	312	
Cedar	0	0	0	0	0	0	0	0	0	0	64	274	5	0	344	
Herbaceous Openland	3	0	0	0	0	0	0	0	0	0	0	0	0	0	3	
Low-Density Trees	40	0	0	0	0	0	0	0	0	0	0	0	0	0	40	
Lowland Conifers	0	0	0	0	0	0	0	108	0	0	0	50	14	0	172	
Lowland Deciduous	0	0	0	0	0	0	0	0	64	0	0	0	0	0	64	
Lowland Mixed Forest	0	0	0	0	0	0	0	8	0	0	0	0	0	0	8	
Lowland Shrub	356	0	0	0	0	0	0	0	0	0	0	0	0	0	356	
Lowland Spruce/Fir	0	0	0	0	0	0	0	0	0	32	9	30	0	0	71	
Marsh	21	0	0	0	0	0	0	0	0	0	0	0	0	0	21	
Mixed Upland Deciduous	19	0	62	0	0	0	0	0	0	0	0	0	0	55	136	
Northern Hardwood	0	0	0	0	0	0	0	0	0	0	0	0	0	53	53	
Upland Conifers	0	0	2	0	18	0	0	0	0	54	0	42	0	0	115	
Upland Mixed Forest	6	0	0	0	0	0	0	2	29	12	0	0	0	0	49	
Upland Spruce/Fir	0	0	0	0	0	0	7	20	7	0	0	0	0	0	34	
Water	49	0	0	0	0	0	0	0	0	0	0	0	0	0	49	
White Pine	0	0	0	0	0	0	0	0	0	0	0	14	0	0	14	
Total	500	85	111	173	18	0	7	138	100	98	74	410	20	108	1842	



Total

	Ocult Oto Maria Mat Unit											
MICHIGAN	Sault Ste. Marie Mgt. Unit Year of Entry 2016										Compartment Total Compartment Acres:	
				_							Total Compartment Acres.	1,042
				Acres	by T	reatmo	ent Ty	pe				
	Commercial Harvest - 300	Tree Planting - 0		Ot	her -	0						
	Habitat Cut - 0	Opening Maintena	nce - 0									
				Cove	r Typ	e by H	larve	st Meth	od			
			2	Cele	Contraction of the second	Contraction of the second	do d	Lining Og	CS LOS	See.		
	Lowland Coniferous F	Forest	66	0	0	0	0	0	66			
	Lowland Deciduous F	orest	64	0	0	0	0	0	64			
	Mixed Upland Conifer	rs	42	0	0	0	0	0	42			
	Northern Hardwood		0	5	0	0	0	0	5			
	Other Upland Conifer	S	82	0	0	0	0	0	82			
	Upland Mixed Forest		41	0	0	0	0	0	41			

Report 3 -- Treatments Prescribed with No Limiting Factor

Compartment: 151 Year of Entry 2016



t a n d	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
2	45151002-Cut	34.2	6117 - Lowland Deciduous, Mixed Coniferous	High Density Pole	86		Harvest	Clearcut with Reserves	613 - Lowland Mixed Forest	Cmpt. Review Proposal

Prescription Cut all deciduous 2" or more and conifer 4" or more. Leave a representative, healthy, mature clump of spruce, cedar and tamarack spaced specs: every 2-3 chains.

<u>Other</u>

S

Comments:

 Next
 Follow-up treatment with a regeneration survey as per the work instructions. Acceptable regeneration is aspen, maple, cedar, yellow and paper

 Steps:
 birch, balsam fir, white spruce, black spruce, tamarack and white pine.

Proposed

Start Date: 10/01/2015

3 451	51003-Cut	30.0	6117 - Lowland Deciduous, Mixed Coniferous	Low Density Log	87	Harvest	Clearcut with Reserves	6117 - Lowland Deciduous, Mixed Coniferous	Cmpt. Review Proposal
<u>Prescription Specs:</u>			ves following the reten resentative of the stan				or seed trees and f	uture snags. Leave s	ome other
<u>Other</u> Comment	<u>s:</u>								
<u>Next</u> <u>Steps:</u>			t with a regeneration s i fir, white spruce, blac				egeneration is aspe	en, maple, cherry, ceo	dar, yellow and
Proposed Start Date:	10/01/2015								
5 451	51005-Cut	9.1	6122 - Black Spruce	High Density Pole	106	Harvest	Clearcut with Reserves	6124 - Lowland Spruce-Fir	Cmpt. Review Proposal
Prescription Specs:	on_ Cut all decient chains.	duous 2'	or more and conifer	4" or more. L	eave a representat	ive, healthy, ma	ture clump of spruc	ce, cedar and/or fir sp	aced every 2-3
<u>Other</u> Comment	<u>s:</u>								
<u>Next</u> <u>Steps:</u>			t with a regeneration s fir, white spruce, blac				egeneration is aspe	en, maple, cherry, ceo	dar, yellow and
Proposed Start Date:	10/01/2015								
8 451	51008-Cut	7.1	42340 - Upland Spruce/Fir	Low Density Pole	63	Harvest	Clearcut	310 - Herbaceous Openland	Cmpt. Review Proposal
<u>Prescription Specs:</u>	on_ This stand i for restoring		ening which is filling in ning.	. Can be com	nmercially harvested	d with adjacent	stands. Cut all trees	s 2" or more. No reter	ntion is needed
<u>Other</u> Comment	<u>s:</u>								
<u>Next</u> <u>Steps:</u>									
Proposed Stort Date:	10/01/2015								

<u>Start Date:</u> 10/01/2015

Report 3 -- Treatments Prescribed with No Limiting Factor

Compartment: 151 Year of Entry 2016



eatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
51009-Cut	20.1	42340 - Upland Spruce/Fir	Medium Density Pole	76		Harvest	Clearcut with Reserves	4134 - Aspen, Spruce/Fir	Cmpt. Review Proposal
1	Name	Name	Name 1009-Cut 20.1 42340 - Upland	Name Density 51009-Cut 20.1 42340 - Upland Medium Spruce/Fir Density	NameDensityAge51009-Cut20.142340 - Upland Spruce/FirMedium Density76 Density	NameDensityAgeRange51009-Cut20.142340 - Upland Spruce/FirMedium76 Density	Name Density Age Range Type 51009-Cut 20.1 42340 - Upland Spruce/Fir Medium 76 Harvest	Name Density Age Range Type Method 51009-Cut 20.1 42340 - Upland Spruce/Fir Medium 76 Harvest Clearcut with Reserves	Name Density Age Range Type Method Objective 51009-Cut 20.1 42340 - Upland Spruce/Fir Medium 76 Harvest Clearcut with Reserves 4134 - Aspen, Spruce/Fir

scattered trees representative of the stand. Specs:

<u>Other</u>

s

Comments:

<u>Next</u> Follow-up treatment with a regeneration survey as per the work instructions. Acceptable regeneration is aspen, balsam poplar, maple, cherry, Steps: yellow and paper birch, balsam fir, white spruce, black spruce, tamarack and white pine.

Proposed

10/01/2015 Start Date:

14 4515	1014-Cut	12.2	4319 - Mixed Upland Forest	Medium Density Pole	97	Harvest	Clearcut with Reserves	4134 - Aspen, Spruce/Fir	Cmpt. Review Proposal
Prescriptior Specs:			es following the reten d trees representative			larger paper birch a	and white pine for se	eed trees and future	snags. Leave
<u>Other</u> Comments:	:								
<u>Next</u> <u>Steps:</u>			with a regeneration s per birch, balsam fir,					en, balsam poplar, m	aple, cherry,
Proposed Start Date:	10/01/2015								
16 4515	1016-Cut	11.1 4	42390 - Mixed Non- Pine Upland Conifers	Medium Density Pole	92	Harvest	Clearcut with Reserves	4134 - Aspen, Spruce/Fir	Cmpt. Review Proposal
Prescriptior Specs:			es following the reten esentative of the stan				for seed trees and fu	uture snags. Leave s	some other
<u>Other</u> Comments:	<u>.</u>								
<u>Next</u> <u>Steps:</u>			with a regeneration s per birch, balsam fir,					en, balsam poplar, m	aple, cherry,
Proposed Start Date:	10/01/2015								
17 4515	1017-Cut	6.6	42320 - Upland Spruce	Low Density Pole	87	Harvest	Clearcut with Reserves	42340 - Upland Spruce/Fir	Cmpt. Review Proposal
Prescriptior Specs:	n Clearcut wit access mus		es following the reten en.	tion guideline	es. Leave some	larger paper birch t	for seed trees and fu	uture snags. Winter	cut only and
<u>Other</u> Comments:	<u>.</u>								
<u>Next</u> <u>Steps:</u>			with a regeneration s per birch, balsam fir,					en, balsam poplar, m	aple, cherry,
Proposed Start Date:	10/01/2015								

Report 3 -- Treatments Prescribed with No Limiting Factor

Compartment: 151 Year of Entry 2016



t							U		-	DNR DNR
a n d	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
25	45151025-Cut	36.6	42390 - Mixed Non- Pine Upland Conifers	Medium Density Pole	92		Harvest	Clearcut with Reserves	4319 - Mixed Upland Forest	Cmpt. Review Proposal
Pres Spec			ves following the reten ed trees representative			/e some la	rger paper birch	and white pine for s	seed trees and future s	snags. Leave
<u>Othe</u> Com	<u>r</u> ments:									
<u>Next</u> Step			t with a regeneration s aper birch, balsam fir,						oen, balsam poplar, ma	aple, cherry,
Propo Start	<u>osed</u> <u>Date:</u> 10/01/20	15								
26	45151026-Cut	19.8	4319 - Mixed Upland Forest	High Density Pole	82		Harvest	Clearcut with Reserves	4134 - Aspen, Spruce/Fir	Cmpt. Review Proposal
Pros	cription Clearcut	with reserv	ves following the reten	0		ve some la	rger paper birch	and white pine for	seed trees and future s	snags. Leave
		her scattere	ed trees representative	e of the star	nd.					
Spec	some ot	her scattere	ed trees representative	e of the star	nd.					
Spec Othe Com Next	<u>ss:</u> some ot <u>r</u> <u>ments:</u> Follow-u	p treatmen		survey as pe	er the wo		•	•	pen, balsam poplar, ma	aple, cherry,
Spec Othe Com Next Step Propc	some ot <u>r</u> <u>ments:</u> <u>Follow-u</u> <u>s:</u> cedar, y	p treatmen ellow and p	t with a regeneration s	survey as pe	er the wo		•	•	ben, balsam poplar, ma	aple, cherry,
Spec Othe Com Next Step Propc	some ot r <u>ments:</u> S: S: S: S: S: Sed	p treatmen ellow and p 15	t with a regeneration s	survey as pe	er the wo		•	•	ben, balsam poplar, ma 6124 - Lowland Spruce-Fir	aple, cherry, Cmpt. Review Proposal
Spec Othe Com Next Step Propc Start 28 Press	sci some of <u>r</u> <u>ments:</u> <u>Follow-u</u> <u>s:</u> <u>cedar, y</u> <u>sed</u> <u>Date:</u> 10/01/20 45151028-Cut <u>cription</u> Clearcut	p treatmen ellow and p 15 6.8 with reserv	t with a regeneration s baper birch, balsam fir, 6122 - Black Spruce	survey as po white spru High Density Pole tion guidelii	er the wo ce, black 98 nes. Leav	spruce, ta	marack and whit Harvest rger paper birch	e pine. Clearcut with Reserves and white pine for s	6124 - Lowland	Cmpt. Review Proposal
Spec Othe Com Next Step Propc Start 28 Press Spec Othe	ssed <u>45151028-Cut</u> <u>cription</u> <u>cription</u> <u>ssed</u> <u>cription</u> <u>Clearcut</u> <u>some ot</u>	p treatmen ellow and p 15 6.8 with reserv	t with a regeneration s aper birch, balsam fir, 6122 - Black Spruce ves following the reten	survey as po white spru High Density Pole tion guidelii	er the wo ce, black 98 nes. Leav	spruce, ta	marack and whit Harvest rger paper birch	e pine. Clearcut with Reserves and white pine for s	6124 - Lowland Spruce-Fir	Cmpt. Review Proposal
Spec Othe Com Next Step Propc Start 28 Press Spec Othe Com Next	sci some of <u>r</u> <u>ments:</u> <u>si</u> <u>cedar, y</u> <u>sed</u> <u>Date:</u> 10/01/20 45151028-Cut <u>cription</u> <u>cription</u> <u>Clearcut</u> <u>some of</u> <u>r</u> <u>ments:</u> Follow-u	p treatmen ellow and p 15 6.8 with reserv her scattere	t with a regeneration s baper birch, balsam fir, 6122 - Black Spruce ves following the reten ed trees representative	High Density Pole tion guidelin e of the star	98 98 98 98 98 98 98 98 98 98 98 98 98 9	spruce, ta ve some la er cut only rk instructi	marack and whit Harvest rger paper birch and access mus	e pine. Clearcut with Reserves and white pine for s to be frozen. regeneration is asp	6124 - Lowland Spruce-Fir	Cmpt. Review Proposal snags. Leave
Spec Othe Com Next Step Propo Start 28 Press Spec Othe Com Next Step Propo	s: some of r ments: S: cedar, y sed Date: 10/01/20 45151028-Cut cription Clearcut some of r ments: Follow-u s: cedar, y	p treatmen ellow and p 15 6.8 with resen her scattere p treatmen ellow and p	t with a regeneration s aper birch, balsam fir, 6122 - Black Spruce ves following the reten ed trees representative t with a regeneration s	High Density Pole tion guidelin e of the star	98 98 98 98 98 98 98 98 98 98 98 98 98 9	spruce, ta ve some la er cut only rk instructi	marack and whit Harvest rger paper birch and access mus	e pine. Clearcut with Reserves and white pine for s to be frozen. regeneration is asp	6124 - Lowland Spruce-Fir seed trees and future s	Cmpt. Review Proposal snags. Leave

9 , bab Specs: scattered trees representative of the stand.

<u>Other</u>

s

Comments:

<u>Next</u> Follow-up treatment with a regeneration survey as per the work instructions. Acceptable regeneration is aspen, balsam poplar, maple, cherry, cedar, yellow and paper birch, balsam fir, white spruce, black spruce, tamarack and white pine. Steps:

Proposed Start Date: 10/01/2015

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Report 3 -- Treatments Prescribed with No Limiting Factor

Compartment: 151 Year of Entry 2016



t a n d	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
47	45151047-Cut	4.9	4112 - Maple, Beech, Cherry Association	High Density Log	97)	141-170	Harvest	Single Tree Selection	4112 - Maple, Beech, Cherry Association	Cmpt. Review Proposal

Prescription Mark stand to 80 to 90 Basal Area. Retain some beech with the smooth bark and wildlife trees. Some ironwood, basswood and all juneberry and conifer should be left. Some larger canopy gaps may be desirable around the cherry and paper birch if possible to regenerate those species and Specs: enhance the advanced regeneration present.

<u>Other</u> Comments:

s

<u>Next</u> Follow-up treatment with a regeneration survey as per the work instructions. Acceptable regeneration is maple, cherry, beech, paper and yellow Steps: birch, spruce, basswood, aspen and ironwood.

Proposed

Start Date: 10/01/2015

53 4515	1053-Cut		6128 - Lowland Coniferous, Mixed Deciduous	High Density Log	111	Harvest	Clearcut with Reserves	613 - Lowland Mixed Forest	Cmpt. Review Proposal
Prescription Specs:	cedar, hemlo	ck, yello		other scattered	d mature trees re		for seed trees and fu e stand for seed sou		
<u>Other</u> Comments:									
<u>Next</u> Steps:			with a regeneration per birch, balsam fi			•	regeneration is aspe e pine.	n, balsam poplar, m	aple, cherry,
Proposed Start Date:	10/01/2015								
69 4515	1069-Cut	42.0 42	29 - Mixed Upland Conifers	Medium Density Log	113	Harvest	Clearcut with Reserves	4319 - Mixed Upland Forest	Cmpt. Review Proposal
Prescription Specs:							and white pine for se ation. Leave some o		
<u>Other</u> Comments:									
<u>Next</u> <u>Steps:</u>			with a regeneration per birch, balsam fi			•	regeneration is aspe and white pine.	n, balsam poplar, m	aple, cherry,
Proposed Start Date:	10/01/2015								

Acreage Proposed: 300.0

S t		Sault Ste. Mar	ie Mgt. Unit	Report 4		eatment Site Con	Compartment: 151 Year of Entry 2016	AGE NATURAL PRODUCTS		
a n d	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
		#Type!	#Type!							
Presc Specs Other Comn										
<u>Next</u> Steps	<u>:</u>									
<u>Propo</u> Start I	o <u>sed</u> Date: #Typ	e!								
<u>Limitir</u>	ng Factor									
Ac	Total Treatr creage Propo									

Dan Beaudo : Examiner

Compartment 151 Year of Entry 2016

Availability for Management

/ a		gement					
Total	Acres	Acres		Domina	nt Site	e Con	dition
Acres	Available	Not Available		No	5D	5C	ЗJ
312	312		Aspen	312			
344	344		Cedar	344		0	
172	164	7	Lowland Conifers	51		113	7
64	64		Lowland Deciduous	64			
8		8	Lowland Mixed Forest				8
71	41	30	Lowland Spruce/Fir	16	30	25	
136	136		Mixed Upland Deciduous	136			
53	53		Northern Hardwood	53			
115	115		Upland Conifers	115			
49	49		Upland Mixed Forest	47		2	
34	34		Upland Spruce/Fir	34			
14	14		White Pine			14	
1,373	1,327	46	Total Forested Acres	1,173	30	154	16
	97%	3%	Relative Percent				

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

	Dominant Site Cond Availability	Dominant Site Condition	Acres	Other Site Condition	Other Site Condition	Other Site Condition	Other Site Condition
002	Not Available	3J: Water quality / BMPs (stream, river, or lake)	7				
	Comments:						
003	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	25				
	Comments:						

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004	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	14		
С	omments:				
005	Not Available	5D: Unproductive Forest Land	30		
C	omments:				
006	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	14		
С	omments:				
007	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	100		
C	omments:				
008	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	2		
C	omments:				
009	Not Available	3J: Water quality / BMPs (stream, river, or lake)	8		
C	omments:				



Report 6 – 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

Compartment: 151 Year of Entry 2016



Report 7 – 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.

Conservatio Area	on Type	Description	ERA = Ecological Reference Area HCVA = High Conservation Value Area SCA = Special Conservation Area
SCA	Cold Water Lake	A coldwater lake has temperature and dissolved oxygen conditio stocked trout populations and those of other coldwater fish speci conditions for coldwater fishes may occur in Michigan lakes if the groundwater inflows, or are located in colder (northern) areas of Director's action and designated as trout resources by Fisheries	es to persist from year to year. Suitable y are relatively deep, have substantial the state. Such lakes are established by
SCA	Cold Water Stream	A coldwater stream has temperature and dissolved oxygen condi- stocked trout populations and those of other coldwater fish speci- 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.	es (e.g., slimy sculpin) to persist from se conditions due to substantial
SCA	Habitat Area	An area that provide some specific need for the life cycle of wildli and Waterfowl Production Areas, deer wintering complexes in low openings and savannas. Habitat areas are distinct from critical has endangered or threatened species (such as Kirtland's warbler or general in nature, are not primarily associated with threatened or covered by species recovery plans that are developed in coopera	wland conifer communities, grassland abitat designated for recovery of piping plover areas) in that they are more endangered species, and are not
SCA	Riparian Area	A transitional area between aquatic and terrestrial ecosystems in influences the aquatic ecosystem and vice-versa. Because of the streams and open water wetlands, riparian areas harbor a high d communities are ecologically and socially significant in their effect as aesthetics, habitat, bank stability, timber production, and their	e unique conditions adjacent to lakes, liversity of plants and wildlife. Riparian cts on water quality and quantity, as well

Report 8 – Forested Stands



S t	Sault Ste. Marie		Report 8	- Forested S	tands Compartment: 151 Year of Entry: 2016			
a n d	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:		
1	6120 - Lowland Cedar	High Density Pole	7.5	116		Thick stand with majority being northern white cedar. Looks like a good deer wintering stand but did not see any tracks.		
2	6117 - Lowland Deciduous, Mixed Coniferous	High Density Pole	34.2	86		Stand consists of lowland with variable upland "ridges". Elevation change might be five feet but noticable change in imber growth. Lowland has the tag alder mixed in with the cedar and lowland species.		
3	6117 - Lowland Deciduous, Mixed Coniferous	Low Density Log	30.0	30.087This stand is a mixture of upland and lowland wit deciduous trees than conifer. Calling it lowland so project an upland looking hardwoods.				
4	6120 - Lowland Cedar	High Density Pole	17.8	112		Mixed northern white cedar stand nice size and stocking that would produce good thermal cover for deer.		
5	6122 - Black Spruce	High Density Pole	9.1	106		Black spruce stand that is of mature age and size. Some uprooting and wind sheer starting to take place.		
6	4139 - Aspen, Mixed Deciduous	High Density Sapling	3.2	11		This stand is part of a larger stand in the adjacent compartment that was clearcut in 2003. Good regeneration took place favoring aspen regeneration.		
8	42340 - Upland Spruce/Fir	Low Density Pole	7.1	63		Stand was historically a grass opening but now has enough trees to be greater than 25% canopy.		
9	42340 - Upland Spruce/Fir	Medium Density Pole	20.1	76		This stand has seasonal drainage through it producing open canopy and some lowland areas. The east end of the stand is more open and containing majority of swamp deciduous canopy mixed in with conifers.		
10	6128 - Lowland Coniferous, Mixed Deciduous	High Density Pole	14.3	125		Mixed lowland stand with majority of trees being northern white cedar.		
11	6120 - Lowland Cedar	Medium Density Pole	18.7	100		Smaller trees with shrubs mixed in.		
14	4319 - Mixed Upland Forest	Medium Density Pole	12.2	97		West side of stand along Pat Road is aspen and fir. The rest of stand is mostly black spruce, balsam fir, scattered aspen and birch.		
16	42390 - Mixed Non- Pine Upland Conifers	Medium Density Pole	11.1	92		The spruce, fir and birch in this stand is showing mortality. Most of the northern white cedar is on the old railroad grade.		
17	42320 - Upland Spruce	Low Density Pole	6.6	87		This is a long, narrow sand ridge with low stocking of spruce and balsam.		
19	6120 - Lowland Cedar	Medium Density Pole	8.8	108	This stand is part of drainage area containing mostly northern white cedar.			
20	4139 - Aspen, Mixed Deciduous	High Density Sapling	23.0	12		This stand was clearcut in 2002 as part of Green Hornet Sale.		

S t	Sault Ste. Marie	e Mgt. Unit		Report 8 –	Forested	Stands Compartment: 151 Year of Entry: 2016
a n d	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
22	6120 - Lowland Cedar	Medium Density Pole	13.2	119		Mixed conifer stand with mostly northern white cedar and shrubs in open areas.
23	4139 - Aspen, Mixed Deciduous	High Density Pole	173.3	34		This stand was KG bladed in 1980 for aspen regeneration goal.
25	42390 - Mixed Non- Pine Upland Conifers	Medium Density Pole	36.6	92		This stand is mixed low and upland with about a 5' change in elevation. Some dead trees on ground creating slash.
26	4319 - Mixed Upland Forest	High Density Pole	19.8	82		Mixed stand showing a variable age and diameter.
27	4110 - Sugar Maple Association	High Density Log	13.2	Uneven Age	81-110	This stand was thinned in 2006. Decent sugar maple stand with regeneration taking place.
28	6122 - Black Spruce	High Density Pole	6.8	98		Majority black spruce with some balsam fir, paper birch and white pine mixed in.
29	6120 - Lowland Cedar	High Density Pole	5.5	138		Majority of stand is northern white cedar. Some areas have variability of species with open areas containing tag alder and black ash.
31	4191 - Mixed Upland Deciduous with Conifer	High Density Pole	44.3	22		This stand was cut in 1992 with mixed regeneration of aspen and fir.
32	4319 - Mixed Upland Forest	High Density Log	9.4	84		Mature stand showing decline in birch, aspen and balsam.
33	4130 - Aspen	High Density Pole	3.2	29		This stand is part of a larger stand in the adjacent compartment that was clearcut in 1985.
35	6120 - Lowland Cedar	Low Density Pole	22.3	106		This stand is a lowland drainage area with stunted northern white cedar.
39	4319 - Mixed Upland Forest	High Density Log	1.8	77		Small stand with counterpart in adjacent compartment that was retained for age and size diversity when rest of stand across the road was cut in 1985.
40	4191 - Mixed Upland Deciduous with Conifer	High Density Sapling	19.4	7		This stand was clearcut in 2007 with retention of white pine and some smaller balsam. Good regeneration at this time with several species noted.
41	6124 - Lowland Spruce- Fir	Low Density Pole	7.3	78		This stand is part of a drainage area that is greater than 25% canopy. Made up of primarity conifers with some deciduous species mixed in.
42	6120 - Lowland Cedar	Low Density Pole	10.9	115		Drainage area that consists of mostly scrubby looking northern white cedar and suppressed deciduous.
43	4139 - Aspen, Mixed Deciduous	High Density Sapling	52.9	12		This stand was cut in 2002 with good regeneration at this time.

S t	Sault Ste. Marie Mgt. Unit			Report 8 –	Forested	Stands Compartment: 151 Year of Entry: 2016	
a n d	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:	
45	4115 - Y.Birch, Hemlock NH	High Density Log	9.6	Uneven Age	81-110	Stand was select cut in 2007 with recommendation of thinning to 90 basal area, leave all white pine and hemlock, and open up drip line of hemlock to promote regeneration. Stand currently matches the cut recommendations with regeneration taking place.	
46	4319 - Mixed Upland Forest	High Density Sapling	6.1	7		This stand was clearcut in 2007 with some areas that seemed to have increased conifer slash loading did not allow regeneration at this time making the canopy closure at low end of the range.	
47	4112 - Maple, Beech, Cherry Association	High Density Log	4.9	Uneven Age	141-170	Sugar and red maple stand with scattered beech, paper birch, and black cherry. This stand is separated by small aspen mix and herbaceous opening. It is also part of a larger stand that extends to the east on private property.	
49	6120 - Lowland Cedar	High Density Log	225.0	117	200+	Large stand of northern white cedar that varies in quality. Appears like a good deer wintering stand but no deer tracks seen, only hare and bobcat.	
50	6122 - Black Spruce	High Density Pole	25.3	91		Nice conifer stand in good health.	
51	429 - Mixed Upland Conifers	Medium Density Log	6.0	95		This stand is a sand ridge with short stocky white pine and paper birch.	
52	6122 - Black Spruce	Low Density Sapling	29.9	115		This stand is a spruce bog with varing size of trees.	
53	6128 - Lowland Coniferous, Mixed Deciduous	High Density Log	50.0	111		This is a mixed conifer stand that falls between upland types and a large northern white cedar stand. The west side of stand has a greater component of black spruce than northern white cedar.	
54	429 - Mixed Upland Conifers	Low Density Pole	17.6	42		This stand appears to have been an opening at one time. It is filling in with several different tree species so there is a variable size and age in this stand.	
55	4130 - Aspen	High Density Pole	30.3	28		This stand was cut in 1986.	
57	4110 - Sugar Maple Association	High Density Log	7.6	Uneven Age	81-110	Stand was thinned in 2010 as part of the One & One Hardwood sale. Some regeneration taking place.	
59	6129 - Mixed Coniferous Lowland Forest	Medium Density Pole	100.5	79		Tamarack is starting to show mortality. Appears to have seasonal standing water and hummocks with trees on them.	
61	4191 - Mixed Upland Deciduous with Conifer	High Density Log	55.0	Uneven Age	51-80	This stand was thinned in 2008 with good mixed regeneration.	
62	4134 - Aspen, Spruce/Fir	High Density Pole	6.3	27		Stand was clearcut in 1987.	

S t	Sault Ste. Marie	e Mgt. Unit		Report 8 –	Forested	I Stands Compartment: 151 Year of Entry: 2016
a n d	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
63	4191 - Mixed Upland Deciduous with Conifer	Medium Density Pole	11.2	22	1-50	This stand was cut in 1987 with adjacent stands but slower on regenerating. It was called an upland brush cover type last year of entry. Some grass open areas filling in with tree species now.
64	4139 - Aspen, Mixed Deciduous	High Density Sapling	6.5	6		This stand was cut in 2008 and showing good regeneration at this time.
65	6139 - Mixed Lowland Forest	Medium Density Pole	8.4	75		This stand is made up of a drainage area with seasonal standing water.
66	4134 - Aspen, Spruce/Fir	High Density Pole	8.2	27		This stand was clearcut in 1987 with good stocking level now.
67	4110 - Sugar Maple Association	High Density Log	17.8	Uneven Age	51-80	Nice sugar maple stand that was thinned in 1987 and 2008.
68	4191 - Mixed Upland Deciduous with Conifer	High Density Pole	6.2	27		This stand was cut in 1987 with good regeneration.
69	429 - Mixed Upland Conifers	Medium Density Log	42.0	113		Mature stand with a mixture of several species. There is drainage areas in this stand with little canopy making the 50-75 canopy closure.
70	6120 - Lowland Cedar	Medium Density	14.7	102		Stunted stand of northern white cedar mix surrounded by drainage containing dead northern white cedar and tamarack.
72	42200 - Natural White Pine	Medium Density Log	13.5	118	51-80	This stand is on a sandy ridge and was thinned in 2008. There is large white pine and hemlock at about 80 basal area.
73	4134 - Aspen, Spruce/Fir	High Density Sapling	5.5	17		This stand was harvested in 1997. Some patches of balsam fir/spruce were not cut for retention.
74	42390 - Mixed Non- Pine Upland Conifers	Medium Density Pole	1.8	22		Small stand that is part of a larger stand in the adjacent compartment.

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Stand	Cover Type	Acres	Managed Site	Management Priority (Objective)	General Comments:
7	3303 - Mixed Low Density Trees	2.9	Yes	Low	Switched back to non-forested due to small size in acreage and historically managed as an opening.
12	50 - Water	6.2	No	Unspecified	Pond
13	3302 - Low Density Conifer Trees	32.2	No	Unspecified	Drainage corridor containing small stream and seasonal water flow. Low density of northern white cedar, tamarack and black spruce with tag alder and willow mixed in.
15	6229 - Mixed lowland shrub	22.8	No	Unspecified	Wet area with some trees and shrubs.
18	50 - Water	0.9	No	Unspecified	Water
21	50 - Water	14.9	No	Unspecified	Water area that level seasonally changes.
24	6229 - Mixed lowland shrub	32.3	No	Unspecified	Lowland drainage area with mixed shrub and trees.
30	50 - Water	2.3	No	Unspecified	Lowland pool of water.
34	6229 - Mixed lowland shrub	29.3	No	Unspecified	Large drainage area where water level fluxuates according to season and precipitation amounts.
36	6239 - Mixed Emergent Wetland	8.8	No	Unspecified	Water pools up depending on season and amount of precipitation.
37	6239 - Mixed Emergent Wetland	8.0	No	Unspecified	This stand is the area surrounding water where the water level fluctuates according to season and precipitation amounts.
38	50 - Water	7.3	No	Unspecified	Large pool of water.
44	6239 - Mixed Emergent Wetland	4.4	No	Unspecified	Amount of water fluctuates according to season and precipitation amounts.
48	3102 - Grass	3.2	Yes	Low	Grass opening that is growing in with mix tree species.
56	50 - Water	2.7	No	Unspecified	Water level is dependent upon time of year.
58	6229 - Mixed lowland shrub	271.3	No	Low	This stand is a large drainage area with numerous dead northern white cedar trees. Some areas have black spruce, tamarack and live northern white cedars.

Compartment: 151 Year of Entry: 2016



Stand	Cover Type	Acres	Managed Site	Management Priority (Objective)	General Comments:
60	50 - Water	14.2	No	Unspecified	Water pool forming along an old railroad grade.
71	3303 - Mixed Low Density Trees	4.6	Yes	Low	Historical grass opening that is growing in with mixed trees.