

Compartment Review Presentation

Sault Ste. Marie Forest Management Unit

Compartment 41 Entry Year 2015 Acreage: 2,098 County Chippewa Management Area: Kincheloe Highlands

Revision Date: 06/27/2013

Stand Examiner: Jason Caron

Legal Description:

T45N-R1W, Sections 13-16,21,22 & 26-28

Identified Planning Goals:

Timber and wildlife are the main objectives within this compartment. This compartment has a large variety of forest types which provides a continuous flow of timber while also meeting wildlife management goals. The majority of the prescriptions scheduled for this year of entry will focus on selective hardood management with a few clearcuts mixed in as well.

Soil and topography:

Soils include Markey-Kinross-Croswell poorly drained muck and sand, Markey-Dawson poorly drained muck, and Kalkaska-Rubicon well drained sand. There is also an area of Alcona-Ingalls-Manistee, deep, moderately drained, sand on outwash plains. Topography is generally rolling to flat with swampy lowland and a few oak ridges. There are a large area of wetland within the compartment within the northwest corner.

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

This comparemnt consists of two blocks of ownership which ties into larger areas of state land to the north and west. A few private cabins exist either within or next to this compartment.

Unique Natural Features:

No Unique Natural Features known.

Archeological, Historical, and Cultural Features:

No Archeological, Historical, or Cultural Features known.

Special Management Designations or Considerations:

No special management planned for this year of entry.

Watershed and Fisheries Considerations:

The Little Munuscong River, a designated trout stream, flows through this compartment. Prescribed treatments are appropriate for the protection of this waterbody.

Wildlife Habitat Considerations:

This compartment is part of the Kincheloe Highlands Management Area. It is in the transition between a sandy outwash plain to the south and clay lake plain to the north. It contains a mix of types ranging from oak and northern hardwoods to lowland conifers and bog. Oak is common in the southern part of the compartment where sandy soils dominate. North of this area, lowlands stands that include cedar, black spruce, and tamarack dominate. This area is similar to parts of the adjacent compartment to the west located in the Kinross Bog Management Area. Hemlock is also common in some locations, particularly in the transition zone between uplands and lowlands. Aspen stands are near hardwoods in the northeast and south ends. Ponds and stream corridors as well as bog and marshy areas provide habitat for numerous wetland wildlife including beaver; a number of beaver ponds are located particularly on the west side of the compartment.

Wildlife objectives in this compartment focus on providing age class and structural diversity in upland stands, and encourage production of hard mast. Oak will be favored to encourage acorn production for deer and bear. Some hardwoods will be treated to encourage growth near the ground level and improve diversity while also retaining potential nesting trees for hawks. Some aspen stands will be treated to enhance the age class diversity between stands for deer, ruffed grouse, and other species. Regenerating lowland conifer stands will provide habitat for snowshoe hare. The integrity of wetlands and waterbodies will be protected by buffering these areas when harvesting nearby. A unique stand containing hemlock and larger trees will be left and protected as the habitat type it provides is uncommon for the area. Additional species benefitting from management include bobcat, gray wolf, red crossbill and numerous other neotropical migratory birds.

Mineral Resource and Development Concerns and/or Restrictions

Surface sediments consist of lacustrine (lake) sand and gravel, peat and muck and course-textured glacial till. There is insufficient data to determine the glacial drift thickness. The Ordovician, Utica, Collingwood Shales and Trenton Group subcrop below the glacial drift. The Trenton is used for stone/dolomite elsewhere in the UP. Gravel pits are located in this area and potential appears to be good. There is no economic oil and gas production in the UP.

Vehicle Access:

The east block of this compartment has good access via. M-129. The west block has good access via. M-80 from the south. Old Mackinaw Trail off of Gaines highway provides decent access but is gated to prohibit road degradation due to wet ground.

Survey Needs:

No survey needed at this time.

Recreational Facilities and Opportunities:

There are several developed facilities for recreation within this compartment. The Kinross Motorcycle trails is located in stands from the southeast through the northerwestern part of the compartment. If possible, do not cut trees with trail markers on them. If necessary to cut, then cut above the marker. There are also three snowmobile trails 472, 494, and 49 in or immediately adjacent to the compartment boundary. The Old Mackinaw trail is designated snowmobile trail #49. Hunting is a primary use within this compartment for grouse, gray squirrels, deer and hare.

Fire Protection:

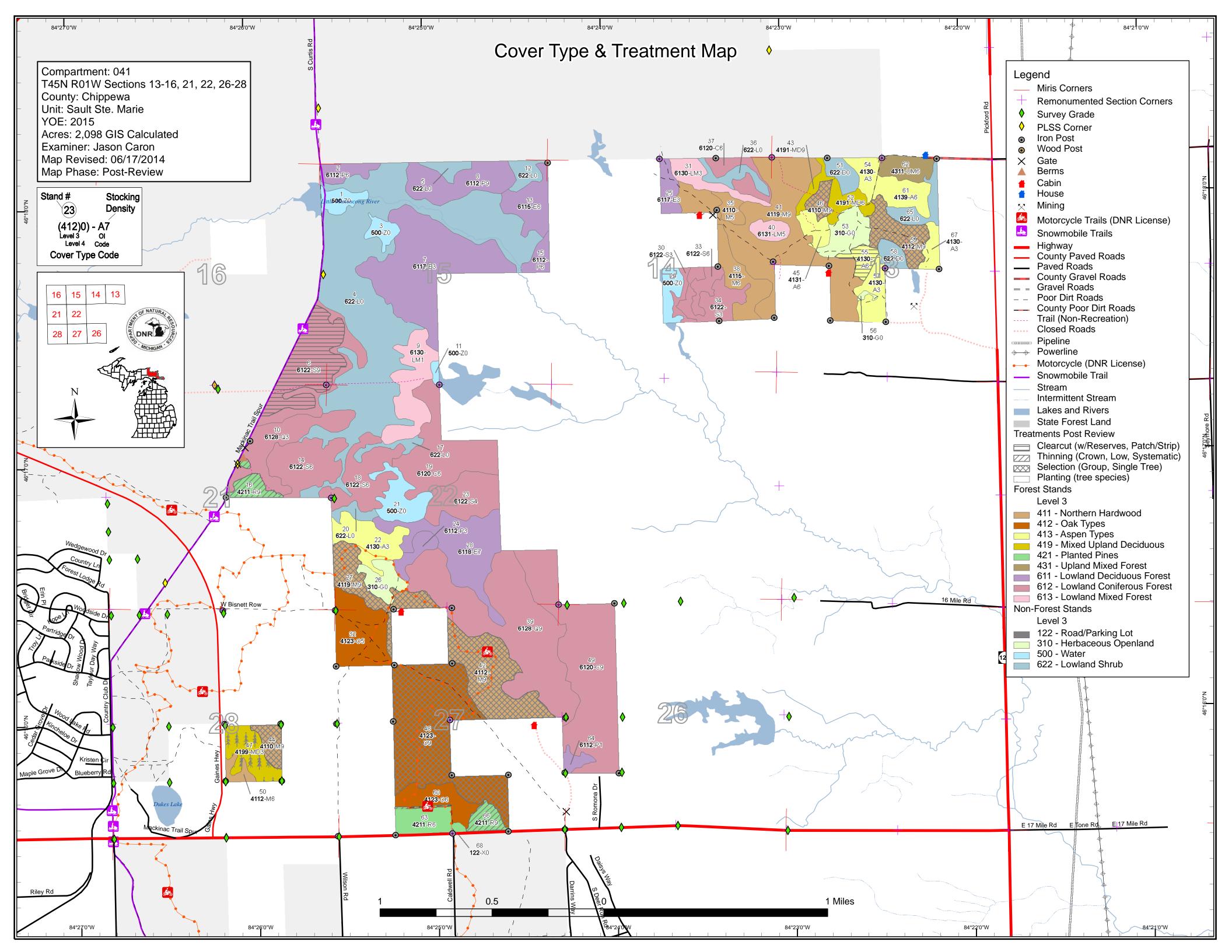
Access to a fire within this compartment would be good in the southernmost and east part of the compartment. Access would be poor in the northwest corner due to wet ground. Structure protection might be a concern with a few of the cabins that exist.

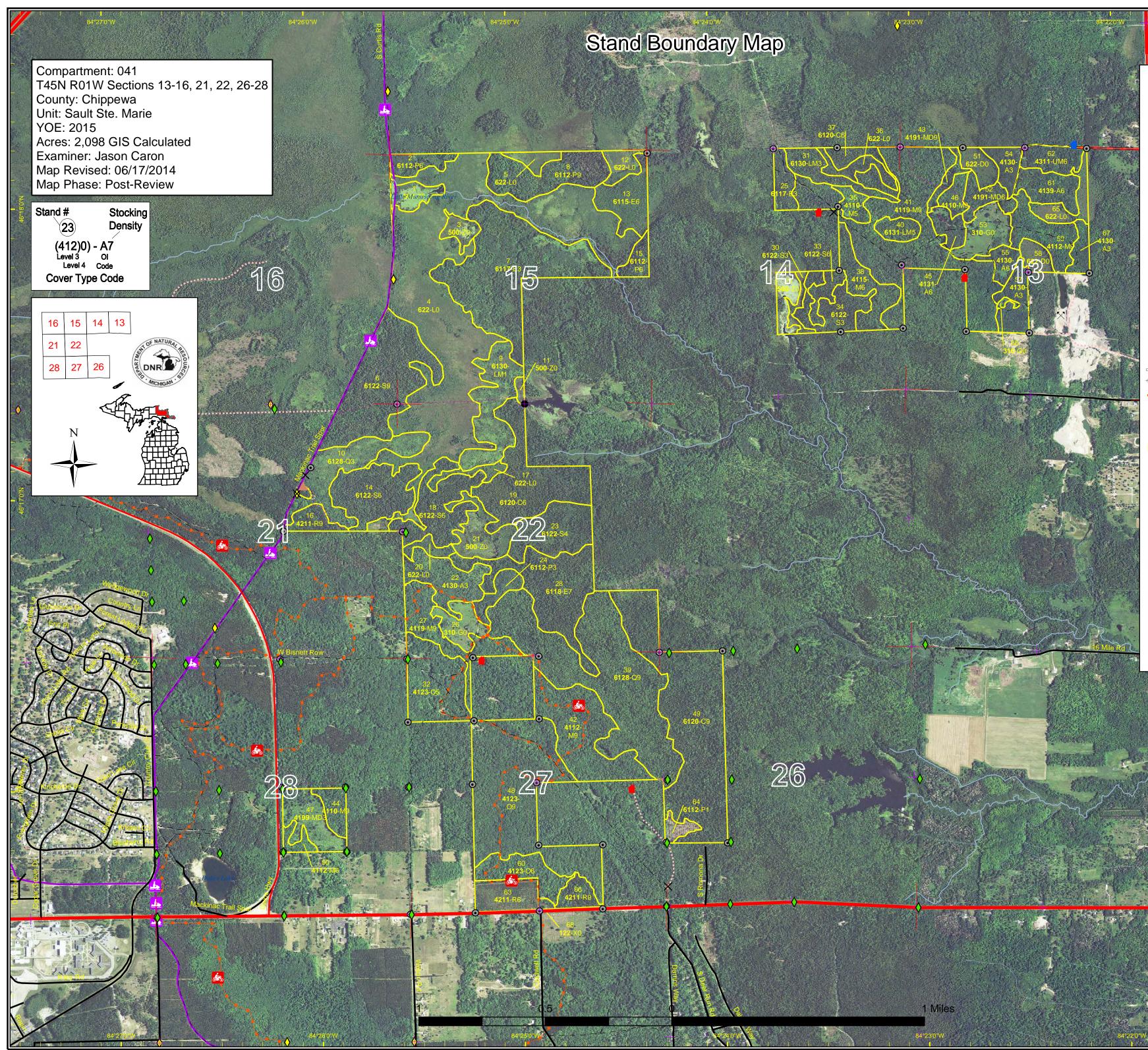
Additional Compartment Information:

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

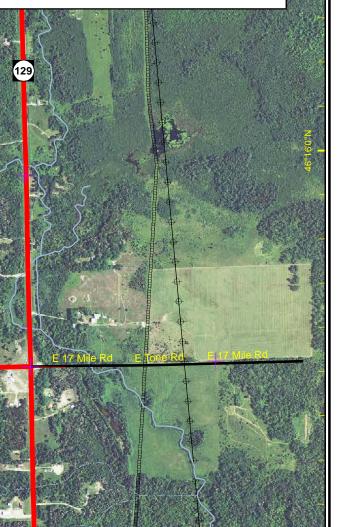
Details on the road access system

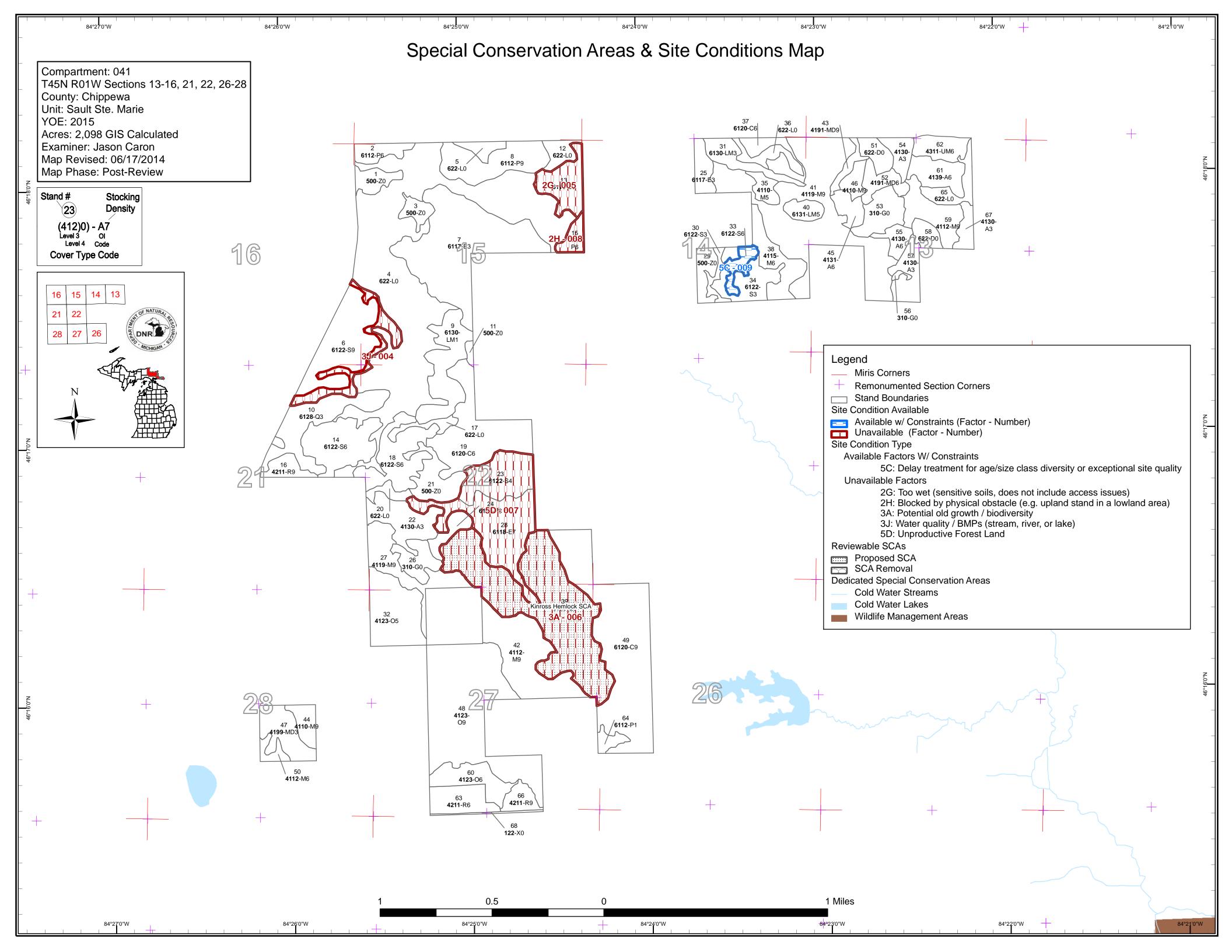


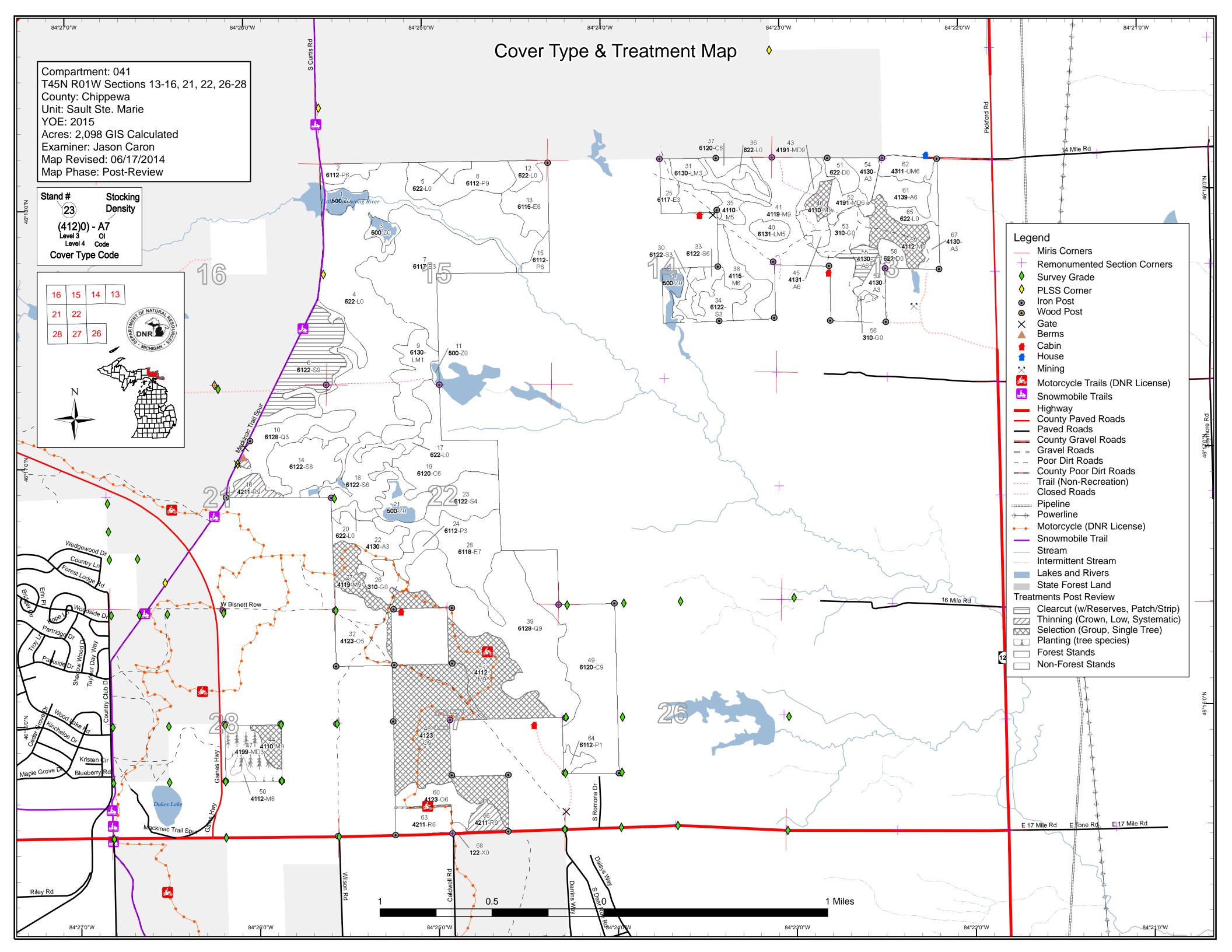


Lege	end
	Miris Corners
\diamond	Survey Grade
♦	PLSS Corner
٠	Iron Post
() ()	Wood Post
\times	Gate
	Berms
	Cabin House
	Mining
	Motorcycle Trails (DNR License)
	Snowmobile Trails
	Highway County Paved Roads
	Paved Roads
	County Gravel Roads
= =	Gravel Roads
	Poor Dirt Roads
	County Poor Dirt Roads
	Trail (Non-Recreation) Closed Roads
	Pipeline
<u>ф</u>	Powerline
••	Motorcycle (DNR License)
	Snowmobile Trail
	Stream
	Intermittent Stream
	Stand Boundaries
Fore	st Stands
	Level 3
	411 - Northern Hardwood 412 - Oak Types
	412 - Oak Types 413 - Aspen Types
	419 - Mixed Upland Deciduous
	421 - Planted Pines
	431 - Upland Mixed Forest
	611 - Lowland Deciduous Forest 612 - Lowland Coniferous Forest
	613 - Lowland Mixed Forest
Non-	Forest Stands
	Level 3

- 122 Road/Parking Lot 310 Herbaceous Openland 500 Water 622 Lowland Shrub







Report 1 – Total Acres by Cover Type and Age Class

Compartment 041 Year of Entry 2015

Sault Ste. Marie Mgt. Unit Jason Caron : Examiner



Age Class

	/	6.0	0'2	10:12	60°	40.49	69°	60.00	101	99. 99. 99. 99.	999 B	601.001	6110L	50° × 00°	And You You	
Aspen	30	0	11	56	0	0	9	0	0	0	0	0	0	0	105	
Cedar	0	0	0	0	0	0	0	0	14	0	130	0	63	0	207	
Herbaceous Openland	38	0	0	0	0	0	0	0	0	0	0	0	0	0	38	
Lowland Aspen/Balsam Poplar	6	0	21	0	0	8	0	0	0	0	0	0	0	40	76	
Lowland Conifers	0	42	0	0	0	0	0	0	0	0	0	0	0	145	187	
Lowland Deciduous	0	0	122	0	0	0	0	0	87	0	0	0	0	0	210	
Lowland Mixed Forest	0	40	17	0	0	0	0	0	0	0	0	9	0	0	66	
Lowland Shrub	310	0	0	0	0	0	0	0	0	0	0	0	0	0	310	
Lowland Spruce/Fir	0	0	5	0	0	105	0	0	114	9	0	0	0	0	232	
Mixed Upland Deciduous	24	0	0	13	0	0	0	6	0	0	0	0	0	0	43	
Northern Hardwood	0	0	0	6	0	8	0	182	43	61	0	0	0	0	300	
Oak	0	0	0	44	0	0	0	23	0	123	0	0	0	0	191	
Red Pine	0	21	0	0	0	21	0	0	0	0	0	0	0	0	43	
Treed Bog	19	0	0	0	0	0	0	0	0	0	0	0	0	0	19	
Upland Mixed Forest	0	0	0	15	0	0	0	0	0	0	0	0	0	0	15	
Urban	2	0	0	0	0	0	0	0	0	0	0	0	0	0	2	
Water	55	0	0	0	0	0	0	0	0	0	0	0	0	0	55	
Total	483	103	176	134	0	142	9	211	258	194	130	9	63	185	2098	



DNR DNR	Soult Sto Maria Mat Unit	•		•						
MICHIGAN	Sault Ste. Marie Mgt. Unit								Compartment	
	Year of Entry 2015								Total Compartment Acres:	2,098
			Acre	es by Treat	ment Ty	ре				
	Commercial Harvest - 349	Tree Planting - 24	(Other - 0						
	Habitat Cut - 0	Opening Maintenan	ice - 0							
			Cov	ver Type by	y Harves	st Meth	od			
			//			(((Sec.		
	Aspen Types		9 0	0 0	0	0	9			
	Lowland Coniferous	Forest	57 0	0 0	0	0	57			
	Northern Hardwood		0 138	0 0	0	0	138			
	Oak Types		0 123	0 0	0	0	123			

Total

Planted Pines

Report 3 -- Treatments Prescribed with No Limiting Factor

Compart Year of

tment: 041	NTOF NATU,
f Entry 2015	DNR
ver Type	Approva
iective	Status

a n d	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
6	45041006-Cut	56.6 6	6122 - Black Spruce	High Density Log	81 J		Harvest	Clearcut with Reserves	6122 - Black Spruce	Fld. Tr. Bdy Incomplete

Prescription Clearcut with reserves. Do not cut oak, hemlock, pine, yellow birch and cedar. Leave a patch of mature timber within the stand for retention purposes. Red line around any wet areas that may exist within the stand, especially along the East stand boundary. Specs:

Other_

s t

Comments:

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

Proposed

10/01/2014 Start Date:

16	4504101	6-Cut	11.3	42110 - Planted Red Pine	High Density Log	53	171-200	Harvest	Crown Thinning	4211 - Planted Red Pine	Fld. Tr. Bdy Incomplete
Prese Spec		hin red pin	e to arou	und 120 Basal Area.	Leave species	s dive	rsity within the	stand where p	resent.		
<u>Othe</u> Com	<u>r</u> ments:										
<u>Next</u> Steps											
<u>Propo</u> <u>Start I</u>		/01/2014									
27	4504102	7-Cut	32.5 N	4119 - Mixed Northern Hardwoods	High Density Log	81	81-110	Harvest	Single Tree Selection	411 - Northern Hardwood	Fld. Tr. Bdy Incomplete
Preso Spec	<u>s:</u> g	aps may be	e desiral	ole around the oak to	o regenerate th	iose s	species and en	hance the adv	anced regeneration	nd yellow birch. Some present. Limit oak ha trees. Watch for hawl	rvest to only
<u>Othe</u> Com	<u>r</u> ments:										
<u>Next</u> Steps				with a regeneration ruce, aspen, red oak			ork instruction	s. Acceptable r	egeneration is map	le, cherry, beech, pap	er and yellow
<u>Propo</u> Start I		/01/2014									

42 4504	1042-Cut	61.3	4112 - Maple, Beech, Cherry Association	High Density Log	91	81-110	Harvest	Single Tree Selection	411 - Northern Hardwood	Fld. Tr. Bdy Incomplete
Prescription Specs:	Leave some	e large wo	olfy trees within the	e stand. Watch	for hav	wk nests. So	ome larger canop		white pine, yellow bi rable around the oal / 75 feet or more.	
<u>Other</u> Comments:										
<u>Next</u> <u>Steps:</u>			with a regeneration fir, white spruce, re				ons. Acceptable	regeneration is aspe	n, maple, cherry, ce	dar, yellow and
Proposed Start Date:	10/01/2014									

Report 3 -- Treatments Prescribed with No Limiting Factor

Compartment: 041 Year of Entry 2015



t a n d	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
44	45041044-Cut	10.6	4110 - Sugar Maple Association	High Density Log	81 I	81-110	Harvest	Single Tree Selection	411 - Northern Hardwood	Fld. Tr. Bdy Incomplete

Prescription Mark stand to 80 to 90 Basal Area. Leave any under-represented species within the stand such as yellow birch and oak. Some larger canopy gaps may be desirable around the oak to regenerate those species and enhance the advanced regeneration present. Leave most or all oak. Specs: Promote oak in the stand for mast production. Other

Comments:

s

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

Proposed 10/01/2014 Start Date:

46 4504	1046-Cut	7.9 4	4110 - Sugar Maple Association	High Density Log	71	81-110	Harvest	Single Tree Selection	411 - Northern Hardwood	Fld. Tr. Bdy Incomplete
Prescriptior Specs:								nd such as conifer an hantable timber is po	nd yellow birch. Som oor quality.	e larger canopy
<u>Other</u> Comments	<u>:</u>									
<u>Next</u> Steps:			with a regeneration , balsam fir, white s				ns. Acceptable	regeneration is asp	en, maple, cherry, ce	edar, yellow and
Proposed Start Date:	10/01/2014									
48 4504	1048-Cut	123.3	4123 - Red Oak	High Density Log	91	111-140	Harvest	Single Tree Selection	412 - Oak	Fld. Tr. Bdy Incomplete
Prescription Specs:	gaps may be	e desiral	ble around the oak t	o regenerate t	hose sp	pecies and e	enhance the ad	vanced regeneration	nd yellow birch. Som a present. Limit oak h r trees. Watch for hav	arvest to only
<u>Other</u> Comments	<u>:</u>									
<u>Next</u> Steps:			with a regeneration fir, white spruce, re				ns. Acceptable	regeneration is asp	en, maple, cherry, ce	dar, yellow and
Proposed Start Date:	10/01/2014									
55 4504	1055-Cut	8.9	4130 - Aspen	High Density Pole	61		Harvest	Clearcut with Reserves	4134 - Aspen, Spruce/Fir	Fld. Tr. Bdy Incomplete
Prescription Specs:	n_ Clearcut with	h reserve	es. Do not cut oak,	hemlock, pine,	, cedar,	ironwood. I	_eave a patch c	of mature timber with	in the stand for reter	ntion purposes.
<u>Other</u> Comments	<u>:</u>									
<u>Next</u> <u>Steps:</u>			with a regeneration od, balsam fir, white				ns. Acceptable	regeneration is asp	en, maple, cherry, be	ech, yellow and
Proposed										

Start Date: 10/01/2014

Report 3 -- Treatments Prescribed

Compartment: 041

NI OF NATURAL

S t a				Year of Entry 2015	DNR MICHIGAN					
n d	Treatment Name	Acres	CoverType	Size Densitv	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Obiective	Approval Status
					- 3-		- 76 -			
59	45041059-Cut	25.5	4112 - Maple, Beech, Cherry Association	High Density Log	71	111-140	Harvest	Single Tree Selection	411 - Northern Hardwood	Fld. Tr. Bdy Incomplete
<u>Pres</u> Spec				,				,	aspen, oak and yellow wolfy trees and watch	

<u>Other</u> Comments:

Follow-up treatment with a regeneration survey as per the work instructions. Acceptable regeneration is aspen, maple, cherry, beech, yellow and paper birch, ironwood, balsam fir, white spruce and white pine. Next Steps:

Proposed

10/01/2014 Start Date:

63	45041063- Cut_small	1.4	42110 - Planted Red Pine	High Density Pole	15		Harvest	Crown Thinning	4211 - Planted Red Pine	Fld. Tr. Bdy Incomplete			
	Prescription Strip of mature red pine that should be thinned. Remove suppressed trees within the 2-3 rows that exist. Specs:												
<u>Other</u> Comm													
<u>Next</u> Steps:													
<u>Propos</u> <u>Start D</u>													
66	45041066-Cut	10.1	42110 - Planted Red Pine	High Density Log	54	171-200	Harvest	Crown Thinning	4211 - Planted Red Pine	Fld. Tr. Bdy Incomplete			
<u>Prescr</u> Specs		nd 120	Basal Area. Leave sp	ecies diversity	y withi	n the stand w	vere present.						
<u>Other</u> Comm													
<u>Next</u> <u>Steps:</u>													
<u>Propos</u> <u>Start D</u>													
47	45041047- Plant	24.0	4199 - Other Mixed Upland Deciduous	High Density Sapling	5		Tree Planting	Hand Plant	4191 - Mixed Upland Deciduous with Conifer	Fld. Tr. Bdy Incomplete			
<u>Prescr</u> Specs		k seedli	ings/saplings within s	tand if funding	l allow	rs. Local wildl	ife biologist will	coordinate planting	g and determine the nu	mber of trees			
<u>Other</u> Comm													
<u>Next</u> <u>Steps:</u>		ogits wil	l monitor oak seedlin	gs/saplings to	see if	planting has	been successfu	JI.					
<u>Propos</u> Start Da													

Report 3 -- Treatments Prescribed with No Limiting Factor

Compartment: 041 Year of Entry 2015

a n d	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
63	45041063- Monitor	19.9	42110 - Planted Red Pine	High Density Pole	15		Monitoring	See Comments	4211 - Planted Red Pine	Fld. Tr. Bdy Incomplete

Prescription Monitor the stand for web-spinning sawfly infestations and treat if necessary per TMS guidelines.

Specs:

S

Other Stand has had repeated infestations each year since around 2007. Plantation was sprayed by Bob Heyd and Don Kuhr in 2012. Comments:

<u>Next</u>

Steps:

Proposed

Start Date: 05/01/2014

Total Treatment Acreage Proposed: 393.2

S t		Sault Ste. Mar	ie Mgt. Unit	Report 4		eatment Site Con	Compartment: 041 Year of Entry 2015	ADE NATURAL PHONE		
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		e!								
<u>Limitir</u>	ng Factor									
Ac	Total Treatr reage Propo									

Report 5 – Site Conditions

Jason Caron : Examiner

Compartment 041 Year of Entry 2015

Availability for Management

Total Acres Acres	Do	minaı	nt Site	e Con	dition	S		
Acres Available Not Available		No	5D	5C	ЗJ	3A	2H	2G
105 105 Aspe	n	105						
207 207 Ceda	r	207						
76 67 8 Lowland Aspen/E	alsam Poplar	67					8	
187 42 145 Lowland C	onifers	42				145		
210 122 87 Lowland De	ciduous	122	62					25
66 66 Lowland Mixe	ed Forest	66						
232 175 57 Lowland Sp	ruce/Fir	166	35	9	22			
43 43 Mixed Upland	Deciduous	43						
300 300 Northern Ha	rdwood	300						
191 191 Oak		191						
43 43 Red P	ne	43						
15 15 Upland Mixe	d Forest	15						
1,674 1,377 298 Total Forest	ed Acres	1,368	97	9	22	145	8	25
82% 18% Relative P	ercent							

*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
004	Not Available	3J: Water quality / BMPs (stream, river, or lake)	22				
	Comments: Buffer left along the	wetland for retention and BM	P purpos	ses.			
005	Not Available	2G: Too wet (sensitive soils, does not include access issues)	25	5D: Unproductive Forest Land			
	Comments: /ery wet stand with	little productivity.					

Sault Ste. Marie Mgt. Unit Jason Caron :Examiner				Report 5 – Site Conditions	Compartment 041 Year of Entry 2015
006	Not Available	3A: Potential old growth / biodiversity	145		
	omments: ery unique stand t	for the Sault unit. Old growth he	emlock	with other mixed conifer and deciduous through	ut. Ground is wet in some locations
007	Not Available	5D: Unproductive Forest Land	97	2G: Too wet (sensitive soils, does not include access issues)	
C	omments:				
008	Not Available	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	8		
	omments: ut if adjacent land	downer cuts their property. No a	ccess a	anywhere near this stand from both state and priv	rate at the time being.
009	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	9		
С	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
Kinross Hemlock SCA	Type 1 or Type 2 Old Growth	Verified Type 2 Old Growth Area	SCA	144.8
Comments				
Stand consists of large herr	nlock with a mix of deciduous and c	onifer in the understory. This stand is v	very unique to the Sault Mg	mt. Unit.

Compartment: 041 Year of Entry 2015



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	Archaeological Site	An aquatic or terrestrial area of the State that contains physical sites of cultural and historical significance that may occur upon to bottomlands. They include thousands of Native American settler and British outposts, nineteenth century logging camps, mines the Great Lakes, there are shipwrecks and other remains docum be identified by Natural heritage data from the State Historic Pre- this compartment will be implemented in such a manner as to m the sensitive nature of this information, no further detail about lo	terrestrial areas and Great Lakes ments and burial sites, as well as French and homesteads. Beneath the waters of menting the maritime trade. Such sites may eservation Office. Proposed treatments in aintain the integrity of these sites. Due to
SCA	Cold Water Lake	A coldwater lake has temperature and dissolved oxygen condition stocked trout populations and those of other coldwater fish spect 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	ties to persist from year to year. Suitable ey are relatively deep, have substantial the state. Such lakes are established by
SCA	Cold Water Stream	A coldwater stream has temperature and dissolved oxygen cond stocked trout populations and those of other coldwater fish spec 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

S t	Sault Ste. Marie Mgt. Unit			Report 8 –	Forested	Stands Compartment: 041 Year of Entry: 2015
a n d	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
2	6112 - Lowland Aspen	High Density Pole	11.2	22		Stand contains nice aspen just getting into the pole size class. Stand is part of a larger type in adjacent compartment to the north.
6	6122 - Black Spruce	High Density Log	78.7	81		Stand is in need of trtment. Balsam fir is in very poor condition due to bud worm. Black spruce is in poor condition as well.
7	6117 - Lowland Deciduous, Mixed Coniferous	High Density Sapling	111.3	23		Stand is thick with regeneration of deciduous and conifer. Regeneration looks very good. Stand was cut from '86 to '96 therefore ages vary. I averaged the age @ 22 years.
8	6112 - Lowland Aspen	High Density Log	40.1	Uneven Age		Old stand with mixed ages, multi-storied. Aspen is very old and white spruce has been hit very hard by budworm. No access to this stand due to L types, it's an island essentially. West half of stand contains better timber.
9	6130 - Fir, Aspen, Maple	Low Density Sapling	40.2	13		Stand has filled in thick with tag alder but regeneration is coming back on the slightly higher areas within the stand. OI notes say stand was cut in 2001.
10	6128 - Lowland Coniferous, Mixed Deciduous	High Density Sapling	41.8	19		OI notes say stand was cut in 1995. Stand has regenerated back nicely to a mix of species.
13	6115 - Lowland Ash	High Density Pole	25.1	85		Poor quality, stagnant black ash swamp, very high water table exists. Black ash ranges from 2-8" dbh.
14	6122 - Black Spruce	High Density Pole	40.6	59		Stand of younger black spruce. Stand is healthy and holding up well. Some tag alder areas exist within the stand.
15	6112 - Lowland Aspen	High Density Pole	8.3	51		If private landowner decided to cut we could cut this. Red maple is in good shape. Aspen and fir is in poor condition.
16	42110 - Planted Red Pine	High Density Log	11.3	53	171-200	Thinned in 2003 or 2004. Pine is good quality and needs to be thinned again.
18	6122 - Black Spruce	High Density Pole	40.1	59		Stand of decent quality black spruce of a younger age with a mix of tamarack. Stand is holding up well.
19	6120 - Lowland Cedar	High Density Pole	63.0	139		Poor quality stand of dense cedar, stunted, cowhorn and old.
22	4130 - Aspen	High Density Sapling	29.6	7		Aspen regeneration is fully stocked and looks good. A few large red oak scattered within the stand as well as some smaller diameter red maple.
23	6122 - Black Spruce	Low Density Pole	35.0	85		Very poor quality stand of scattered balsam fir and black spruce of varying ages. High water table. Balsam fir is dying out due to budworm damage.
24	6112 - Lowland Aspen	High Density Sapling	10.3	27		Stand of good quality young aspen. Balsam fir understory is thick!

S

Report 8 – Forested Stands

Compartment: 041 Year of Entry: 2015



t						Year of Entry: 2015
a n d	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
25	6117 - Lowland Deciduous, Mixed Coniferous	High Density Sapling	11.0	29		Stand consists of dense regeneration.
27	4119 - Mixed Northern Hardwoods	High Density Log	32.5	81	81-110	Decent stand of hardwood with varying basal area's. Overall stand should be managed to improve quality. Took 12 basal area points and they averaged out to 100 BA.
28	6118 - Lowland Deciduous with Cedar	Low Density Log	62.4	89		Stand is very poor quality. White birch is falling apart. Balsam fir understory is thick but has a lot of budworm damage.
30	6122 - Black Spruce	High Density Sapling	5.2	26		Small linear stand along flowage, many different aged trees.
31	6130 - Fir, Aspen, Maple	High Density Sapling	16.6	29		Stand of young conifer of thick density. Ground is low and wet.
32	4123 - Red Oak	Medium Density Pole	44.4	32	51-80	Stand of young hardwood, mostly red oak. A few grass openings exist in northern part of the stand. Hardwood is young but looks good.
33	6122 - Black Spruce	High Density Pole	9.0	91		Stand with a mix of aspen, black spruce and balsam fir. Stand is old and needs treatment.
34	6122 - Black Spruce	High Density Sapling	23.9	53		Majority of stand is sapling size, a few pockets of merchantable wood exist but it is in tough shape. Ground is very wet/bog like!
35	4110 - Sugar Maple Association	Medium Density Pole	8.2	51	51-80	Stand of small diameter sugar maple with a thick understory of balsam, basal area is low. Let stand mature and cut in a future YOE.
37	6120 - Lowland Cedar	High Density Pole	14.0	83		Stand of lowland conifer and deciduous of poor quality. Some of the cedar is decent quality.
38	4115 - Y.Birch, Hemlock NH	High Density Pole	25.0	71	81-110	stand of poorer quality hardwood with a thick understory of balsam. Ground is lower than adjacent hardwood stand. Basal area is low overall but stand needs a thinning.
39	6128 - Lowland Coniferous, Mixed Deciduous	High Density Log	144.8	Uneven Age		Unique stand of rolling hills with very large hemlock. Stand consists of both upland and lowland areas. Red maple and yellow birch are growing within the canopy gaps. Not many stands in the Sault unit could compare to this, very unique for the area! Northwest corner of stand was logged along time ago, old stumps in the area.
40	6131 - Hemlock, White Pine, Maple, Birch	Medium Density Pole	8.9	111	81-110	Stand is a mix of poor quality red maple poles with patches of large hemlock. Do not manage due to wet ground and poor quality timber.

S t				Report 8	– Forested	Stands Compartment: 041 Year of Entry: 2015
a n d	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
41	4119 - Mixed Northern Hardwoods	High Density Log	123.5	71	81-110	Large hardwood stand. Some areas consist of mostly red maple while others sugar maple. Yellow birch scattered throughout with some oak and a few basswood as well. Basal area is low but a light thinning is needed to remove some of the poor quality timber. Hardwood was last thinned in 1995.
42	4112 - Maple, Beech, Cherry Association	High Density Log	61.3	91	81-110	Stand of decent quality sugar maple and red maple. Basal area is low but plenty of poor quality trees to remove. A good amount of sugar maple and red maple saps in the understory.
43	4191 - Mixed Upland Deciduous with Conifer	High Density Log	6.1	72		Stand is literally a strip of aspen, spruce, balsam fir and sugar maple. Stand is old and needs management! Stand is only a chain wide in some locations.
44	4110 - Sugar Maple Association	High Density Log	10.6	81	81-110	Nice stand of hardwood, quality is good. Stand doesn't have a very high basal area but enough to support a thinning. Stand hasn't been managed since 1995.
45	4131 - Aspen, Oak	High Density Pole	10.5	31		Stand of mostly young big tooth aspen. Stand is healthy and is fully stocked.
46	4110 - Sugar Maple Association	High Density Log	7.9	71	81-110	Decent stand of hardwood. Plenty of poor quality stems to take out. Basal area is decent in some spots and lower in others. Plenty of sugar maple whips in the understory.
47	4199 - Other Mixed Upland Deciduous	High Density Sapling	24.0	5		White spruce plantation that was clearcut in 2009. Stand has flushed back to mostly choke cherry with a few pockets of quaking aspen.
48	4123 - Red Oak	High Density Log	123.3	91	111-140	Stand of large diameter red oak with scattered sugar maple in the central part of stand. Some oak decline is occuring with a few dead trees here and there.
49	6120 - Lowland Cedar	High Density Log	130.5	107		Stand of cedar mixed with knobs of very large hemlock, very unique! Scattered red maple,white birch,etc Cedar is decent quality. Balsam fir is thick in the understory.
50	4112 - Maple, Beech, Cherry Association	High Density Pole	5.6	31	51-80	Stand of young hardwood, quality is good. Stand is young and needs time to mature.
52	4191 - Mixed Upland Deciduous with Conifer	High Density Pole	12.8	36	51-80	Stand is a hodge podge of species and ages. West part of stand contains decent red oak poles. Center of stand contains supercanopy white pine with small diameter balsam fir, white spruce and red maple underneath. East side is wet ground. Overall stand is small diameter and needs time.
54	4130 - Aspen	High Density Sapling	10.7	28		Stand of young aspen. Fully stocked stand that is healthy.
55	4130 - Aspen	High Density Pole	8.9	61		Stand of multi-aged aspen, aspen regeneration is thick in areas due to declining aspen.

S t	Sault Ste. Marie	ə Mgt. Unit		Report 8	– Forested	Stands Compartment: 041 Year of Entry: 2015
a n d	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
57	4130 - Aspen	High Density Sapling	17.7	32		Decent stand of young aspen, thick stem density!
59	4112 - Maple, Beech, Cherry Association	High Density Log	25.5	71	111-140	Last thinned in 2005. Basal area is decent and stand needs another thinning. Maple is pretty good quality within the stand.
60	4123 - Red Oak	High Density Pole	23.0	71	51-80	Stand was cut hard many years ago. What remains is scattered large diameter oak with pole/sap sized trees in the gaps, mostly oak. Stand looks good but needs time to mature.
61	4139 - Aspen, Mixed Deciduous	High Density Pole	19.5	39		Stand of young deciduous, stand is healthy and diverse. A few mature deciduous and conifer within the stand.
62	4311 - Pine, Aspen Mix	High Density Pole	15.4	31		Stand looks to have been cut via. shelterwood many years ago. What remains are scattered large white pine with a mix of young white pine, aspen and red maple. I typed the stand out as the dominant young growth, some white pine was planted in the openings as well.
63	42110 - Planted Red Pine	High Density Pole	21.3	15		Red pine plantation, planted in 1999. Red pine has been hit by sawfly for at least the last 5 years. Bob Heyd and Don Kuhr sprayed the plantation in 2012 with hopes to at least slow it down. Tree mortality has been minimal but trees have definitly been stunted due to the defoliation.
64	6112 - Lowland Aspen	Low Density Sapling	5.7	2		Aspen and red maple is regenerating, it will take a few more years to fill in.
66	42110 - Planted Red Pine	High Density Log	10.1	54	171-200	Nice stand of red pine, check to see when last thinned. Pockets of red oak and white spruce exist, a few oak scattered within the stand as well. West side of stand contains a 3.5 acre pocket of planted white spruce. White spruce has major budworm damage.
67	4130 - Aspen	High Density Sapling	8.5	30		Stand of young aspen, well stocked.

Compartment: 041

Year of Entry: 2015

NATURA

Stand	Cover Type	Acres	Managed Site	Management Priority (Objective)	General Comments:
1	50 - Water	10.7	No	Unspecified	
3	50 - Water	8.2	Unspecified	Unspecified	
4	6220 - Alder/willow	257.6	Unspecified	Unspecified	
5	6220 - Alder/willow	6.9	Unspecified	Unspecified	
11	50 - Water	2.1	No	Unspecified	
12	6220 - Alder/willow	9.4	No	Unspecified	
17	6220 - Alder/willow	6.6	Unspecified	Unspecified	
20	6220 - Alder/willow	5.9	Unspecified	Unspecified	
21	50 - Water	23.1	Unspecified	Unspecified	
26	310 - Herbaceous Openland	15.7	Unspecified	Unspecified	
29	50 - Water	11.1	Unspecified	Unspecified	
36	6220 - Alder/willow	10.1	Unspecified	Unspecified	
51	6224 - Treed Bog	10.3	No	Unspecified	stand is filling in w/ sapling white pine w/ a few tam and bs.
53	310 - Herbaceous Openland	20.7	Unspecified	Unspecified	
56	310 - Herbaceous Openland	1.1	Unspecified	Unspecified	
58	6224 - Treed Bog	8.3	No	Unspecified	bog that is filling in in with wp,bs and tam.
65	622 - Lowland Shrub	13.4	Unspecified	Unspecified	
68	122 - Road/Parking Lot	2.2	Unspecified	Unspecified	