

Revision Date: August 12, 2011

Stand Examiner: Karen Rodock

Legal Description: T43N R6W, SECTIONS: 13, 14, 15 Moran Township

RMU: Carp River Pine

Management Goals: The compartment is located south of Trout Lake approximately four and one half miles. This compartment is composed of a variety of lowland and upland types and species. The eastern half of the compartment is mostly upland types of red pine, aspen, upland brush and grassy openings. The western half of the compartment is mostly lowland types of black spruce, cedar, tamarack, balsam fir, lowland brush and bogs with a few ridges of aspen and birch. Most of the red pine stands were treated within the last 10 years. Several red pine stands were treated on the Red Pine Project phase I. The stands have been harvested and site preparation is being done this fall and next spring to complete the regeneration of the stands to red pine. Proposed management within the compartment for this treatment period will be limited. The Carp River and Ozark Creek flow through Section 13. The Carp River is designated as a wild and scenic in the stretch downstream on the Hiawatha National Forest. Stands along the river are to be managed to promote a larger component of conifer species to discourage beaver activities. Buffer management zones will be maintained along both the Carp River and Ozark Creek following the Best Management Practices guidelines and Fisheries recommendations. The upland brush stands in Section 14 will be managed with the adjacent aspen stand to create openings with less woody vegetation. The compartment area is heavily used by recreationists.

Soil and Topography: The terrain is level to rolling with steep banks to the river and creek drainages. The compartment is higher ground on the east side and grades to lower ground on the west side. The higher ground soils are mostly Wallace Sand with Paquin Sand, and Paquin-Finch complex on the ridges in the lowland areas. The transition areas have Spot-Finch Complex. The lowland areas mostly have the Markey-Spot-Finch Complex with some higher transition areas to the Paquin Sand and Wallace Sand. The other lowland soil types are Markey and Carbondale Muck, Finch-Dawson-Pullup Complex and the Dinkey Muck in the Carp River and Ozark Creek drainages.

Ownership Patterns, Development, and Land Use in and Around the Compartment: The north, west and south sections surrounding the compartment are in state ownership. The sections to the east and southeast are in federal ownership on the Hiawatha National Forest. A private 40 abuts the northeast side of Section 13 with the rest of Section 7 being in federal ownership.

Unique, Natural Features: Potential for raptors and Great Blue Herons to nest in the compartment exists and care will be taken to check stands for nests. Stands to the north in compartment 107 were identified as Hardwood Conifer Swamp community. The Hardwood Conifer Swamp community type continues into stands 2 and 3. There is a potential for some rare plant and animal species to inhabit the compartment.

Archeological, Historical, and Cultural Features: No obvious features were found when doing inventory.

Special Management Designations or Considerations: The Carp River has undergone stream bank erosion projects to reduce the amount of siltation into the river from the sandbanks. Potential for raptors to nest in the compartment exists and care will be taken to check stands for nests with buffers placed when necessary.

Watershed and Fisheries Considerations: This compartment contains Carp River and Ozark Creek, which are both cold transitional streams. A 300-foot no-clearcut buffer should be maintained adjacent to Ozark Creek and Carp River. A 50-foot no-cut buffer should be maintained adjacent to the Carp River (okay to selection cut to within 50' of river).

Wildlife Habitat Considerations: This compartment is located within the St. Ignace subsection of the Niagaran Escarpment and Lake Plain about 4 ½ miles south of Trout Lake. It contains a number of cover types ranging from lowland hardwood and conifers to red pine, aspen, and a larger forest opening containing some cherry, red maple and other species. Red pine plantations cover much of the eastern half on sandy soils. The Carp River is also located on the east side. The central part contains aspen of varying age classes mixed with white birch, spruce, white pine, and other species. Further west, lowland conifer stands are dominated by black spruce, tamarack, and cedar. Wildlife use of the compartment includes species such as white-tailed deer, wolf, ruffed grouse, bobcat, fisher, marten, black bear, snowshoe hare, and a variety of birds.

Wildlife objectives in the compartment include maintaining a diversity of age classes in early successional deciduous forest as well as conifer-dominated stands, maintaining the riverine and riparian habitats, and protecting the integrity of other wetland habitats. Aspen and mixed aspen stands will be managed to provide multiple age classes in close proximity that will benefit deer and grouse. Varying age classes in lowland conifer stands will enhance habitat for snowshoe hare, bobcat, fisher, and marten.

Mineral Resource and Development Concerns and/or Restrictions: Surface sediments consist of lacustrine (lake) sand and gravel and peat and muck. There is insufficient data to determine the glacial drift thickness. The Silurian Engadine Group subcrops below the glacial drift. The Engadine is quarried for stone/limestone elsewhere in the UP. A quarry is located two miles to the northeast. Gravel pits are not located in this area and potential appears to be limited. There is no economic oil and gas production in the UP.

Vehicle Access: The compartment has good vehicle access with the JT Camp Road deteriorating to undriveable most of the year in the west portion of Section 14. The Carp River Truck Trail provides good access. The access into Section 13 is the Huckleberry Lake Road from the north and the Ozark Creek Road to the east. The bridge over Ozark Creek is an 8 ton limit bridge, which will not support any traffic larger than a pickup. The Ozark Creek Road to the east on the Federal lands is in very poor shape and undriveable most of the time. Any new timber sale roads will be blocked or planted after management activities occur.

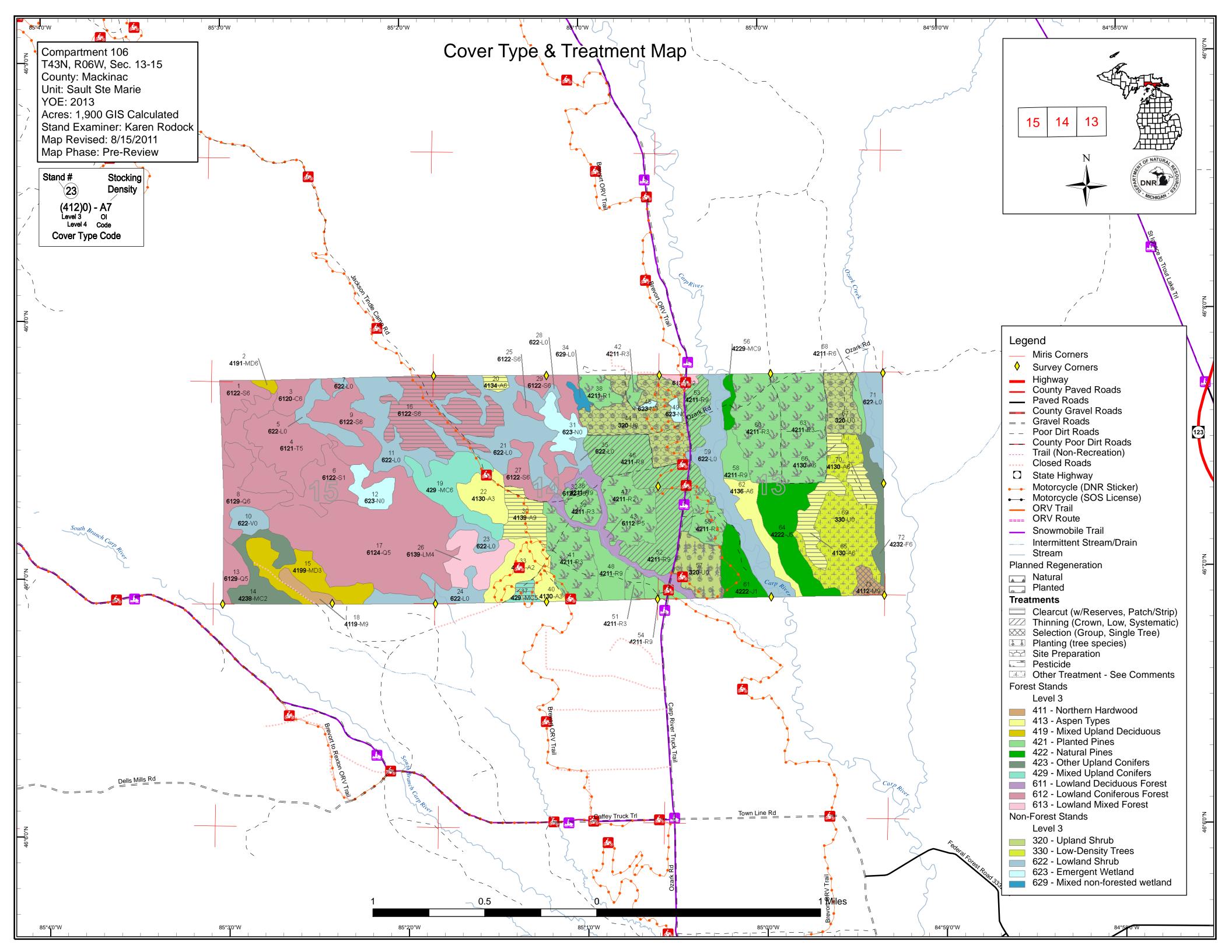
Survey Needs: None

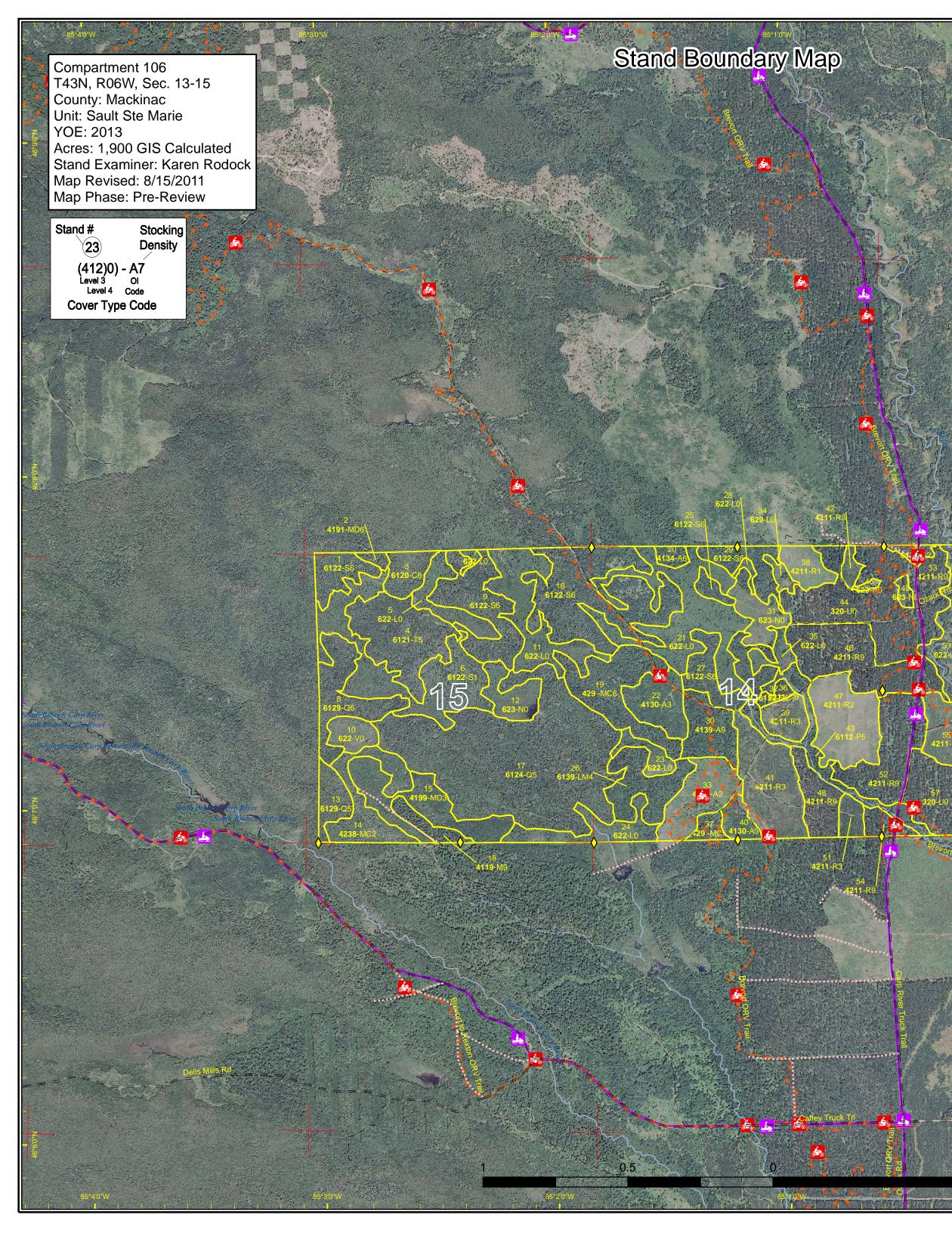
Recreational Facilities and Opportunities: The Carp River Truck Trail is used as a snowmobile trail and part of the ORV trail runs on it. The ORV (MCCCT) trail runs through the stands in the compartment. Clearcut with reserves treatment areas with ORV trails running through the area will at least have the bottom eight feet left of the trees with trail markers on them. The compartment is heavily used for all types of recreational activities including motorized vehicle use, fishing, hunting, trapping and nature viewing

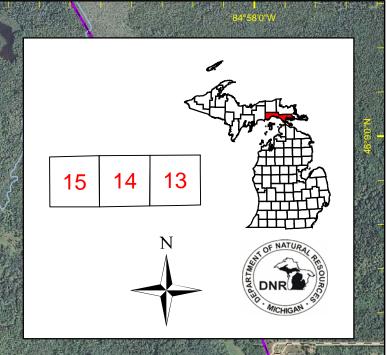
Fire Protection: The eastern half of the compartment has a potential for a moderate to higher intensity fire. The Thunder Alley Fire burned through stand 26 in 1999 from the north. The west portion has lower fire intensity potential. The problem of ground fire does exist in this portion of the compartment.

Additional Compartment Information: None

- > The following reports from the Inventory are attached:
 - Total Acres by Cover Type and Age Class
 - Proposed Treatment Summary
 - Proposed Treatments No Limiting Factors
 - Proposed Treatments With Limiting Factors
 - Stand Details (Forested and Nonforested)
 - Dedicated and Proposed Special Conservation Areas
- > The following information is displayed, where pertinent, on the attached compartment maps:
 - Base feature information, stand boundaries, cover types, and numbers
 - Proposed treatments
 - Details on the road access system







Legend

- Miris Corners
- Survey Corners
- Remonumented Section Corners
- Highway County Paved Roads Paved Roads
- _____
- County Gravel Roads ____
- Gravel Roads = =
- Poor Dirt Roads _ _
- County Poor Dirt Roads Trail (Non-Recreation) ____ - - - - -
- Closed Roads
- • •---•-
- Motorcycle (DNR Sticker) Motorcycle (SOS License) ORV Trail ORV Route ____
- ====
- Snowmobile Trail _____
- Intermittent Stream/Drain
- Stream
- Stand Boundaries
- Forest Stands

Level 3

- 411 Northern Hardwood
- 413 Aspen Types419 Mixed Upland Deciduous421 Planted Pines
- 422 Natural Pines
- 423 Other Upland Conifers 429 Mixed Upland Conifers 611 Lowland Deciduous Forest
- 612 Lowland Coniferous Forest
- 613 Lowland Mixed Forest
- Non-Forest Stands

Level 3

- 320 Upland Shrub 330 Low-Density Trees 622 Lowland Shrub
- 623 Emergent Wetland629 Mixed non-forested wetland

13

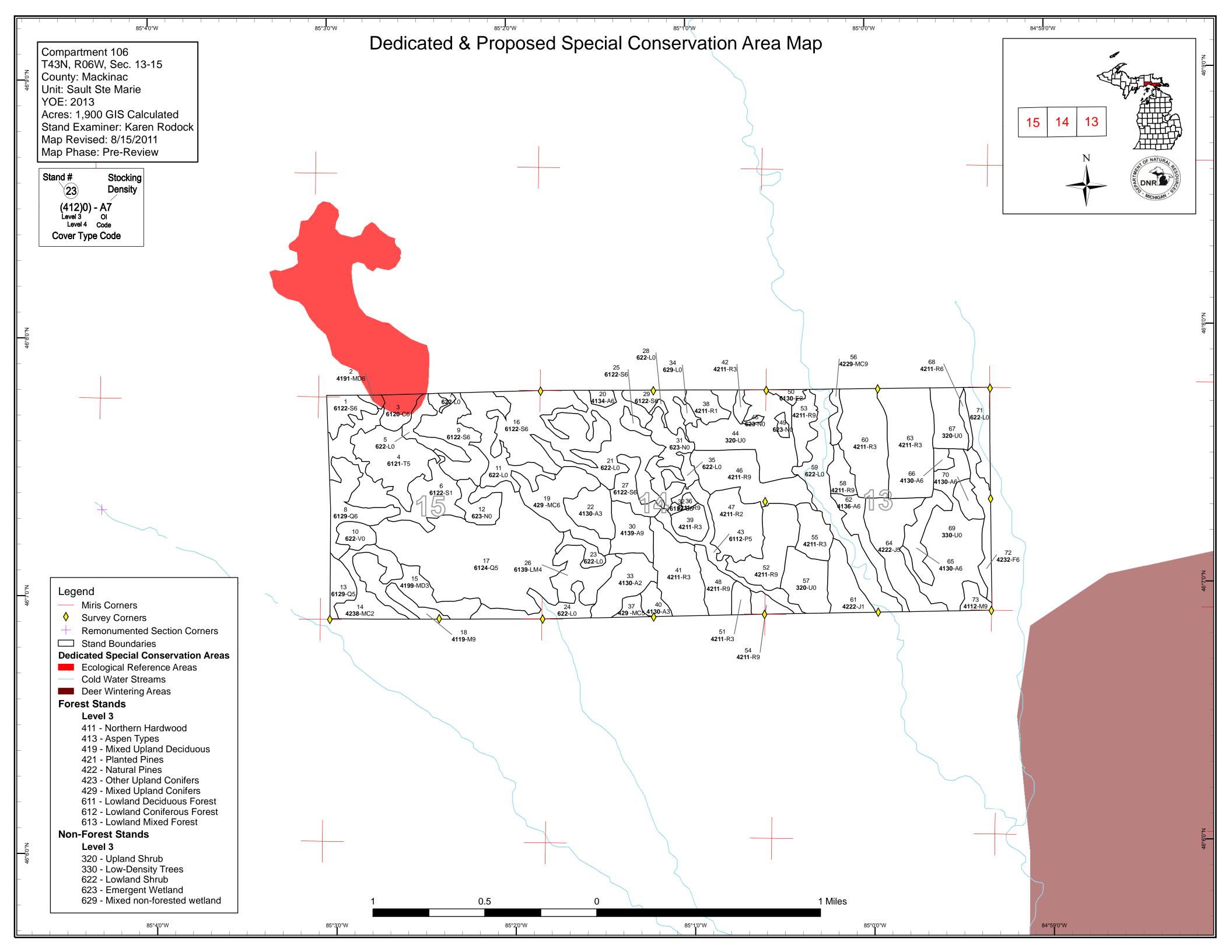


Table 1 – Total Acres by Cover Type and Age Class

Sault Ste. Marie Mgt. Unit

Karen Rodock : Examiner

Compartment 106 Year of Entry 2013



							Age (Class									
	Hor	Desteon	°z /	0 ⁷ 0	10 ⁻¹⁰	en e	10-12		00 ^{.00}	10,10,0	6 ³⁸ 6	6	100' 100' ,	6 ^{1,0} 1,	50× 350	AN AN AN	o ^{to}
Aspen	0	30	32	0	0	0	82	0	0	5	0	0	0	0	0	148	[
Bog	11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	11	
Cedar	0	0	0	0	0	0	0	0	0	0	0	0	13	0	0	13	
Jack Pine	0	0	0	74	0	0	0	0	0	0	0	0	0	0	0	74	
Low-Density Trees	79	0	0	0	0	0	0	0	0	0	0	0	0	0	0	79	
Lowland Aspen/Balsam Poplar	0	0	0	0	0	0	0	26	0	0	0	0	0	0	0	26	
Lowland Conifers	0	0	0	0	0	0	0	0	0	179	32	13	0	0	0	223	
Lowland Mixed Forest	0	0	0	4	0	0	0	0	0	29	0	0	0	0	0	34	
Lowland Shrub	250	0	0	0	0	0	0	0	0	0	0	0	0	0	0	250	
Lowland Spruce/Fir	0	0	0	0	0	0	0	0	0	170	81	0	0	0	0	250	
Marsh	38	0	0	0	0	0	0	0	0	0	0	0	0	0	0	38	
Mixed Upland Deciduous	0	0	0	39	0	0	0	0	0	0	3	0	0	0	0	42	
Natural Mixed Pines	0	0	0	0	0	0	0	0	6	0	0	0	0	0	0	6	
Northern Hardwood	0	0	0	0	0	0	0	0	0	9	0	0	0	0	8	17	
Red Pine	0	40	224	0	0	0	0	0	156	0	0	0	0	0	0	420	
Tamarack	0	0	0	0	0	0	0	0	0	0	0	49	0	0	0	49	
Upland Conifers	0	0	0	30	0	0	42	0	6	0	0	0	0	0	0	78	
Upland Shrub	124	0	0	0	0	0	0	0	0	0	0	0	0	0	0	124	
Upland Spruce/Fir	0	0	0	0	0	0	0	0	0	0	0	0	0	0	19	19	
Total	502	69	256	148	0	0	124	26	168	391	115	62	13	0	26	1900	



Table 2 – Proposed Treatment Summaries

Alichigan .	Sault Ste. Marie Mgt. Unit Year of Entry 2013									Compartment Total Compartment Acres:	
			Acr	es by 1	reatm	ent Ty	ре				
	Commercial Harvest - 270	Site Prep - 93		Tree P	lanting	- 31		Preso	ribed Burn - 0	Other - 79	
	Habitat Cut - 0	Opening Maintenan	ice - 0	Tree S	eeding	- 0		Pesti	cide - 264		
			Co	ver Ty	pe by H	larves	t Meth	od			
			S. S	Selection	Seed Tree	Sternood A	in or other	Top 10	Por Contraction of the second		
	Aspen		64 0	0	0	0	0	64			
	Lowland	Spruce/Fir	80 0	0	0	0	0	80			
	Northern	Hardwood	0 8	0	0	0	0	8			
	Red Pine)	0 0	0	0	112	0	112			
	Upland C	Conifers	6 0	0	0	0	0	6			
		Total	149 8	0	0	112	0	270			

Sault Ste. Marie Mgt. Unit

Table 3 -- Treatments Prescribed

Compartment: 106



S t				J	wit	th No I	imiting Fac	tor	Year of Entry 2013	DNR DNR
a n d	Treat Na	ment me	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
16	451060)16-Cut	79.7	42320 - Upland Spruce	High Density Pole	86	Harvest	Clearcut with Reserves	42320 - Upland Spruce	Cmpt. Review Proposal
Presc Specs								greater than 2.4 acres seed trees and future s		nd leave conifer
<u>Other</u> Comn	nents:	ORV trail	l goes th	rough the stand. Lea	ve trail marker trees	where p	ossible if cut the	en must be cut above 8	feet to mark the trail.	
<u>Next</u> Steps				ent with a regeneration I paper birch, balsam				otable regeneration is bla	ack spruce, aspen, map	le, cherry,
30	451060)30-Cut	23.4	4139 - Aspen, Mixed Deciduous	High Density Log	51	Harvest	Clearcut with Reserves	4139 - Aspen, Mixed Deciduous	Cmpt. Review Proposal
Presc Specs	<u>s:</u>	stand 33	boundar					greater than 1 acre for h the site. Some paper b		
<u>Other</u> Comn	nents:	ORV trai	l goes th	rough the stand. Lea	ve trail marker trees	where p	ossible if cut the	en must be cut above 8	feet to mark the trail.	
<u>Next</u> <u>Steps</u>				ent with a regeneration am fir, white spruce, b			tructions. Accep	btable regeneration is as	pen, maple, cherry, ceo	lar, yellow and
36	451060)36-Cut	3.8	42110 - Planted Red Pine	High Density Log	74	Harvest	Systematic Thinning	42110 - Planted Red Pine	Cmpt. Review Proposal
Presc Specs		Thin to a	round 12	20 Basal Area. Leave	species diversity wi	thin the	stand were pres	ent.		
<u>Other</u> Comn	_ nents:									
<u>Next</u> Steps		No follow	up nece	ssary						
37	451060)37-Cut	6.0	429 - Mixed Upland Conifers	Medium Density Pole	73	Harvest	Clearcut with Reserves	429 - Mixed Upland Conifers	Cmpt. Review Proposal
Presc Specs				erves following the re tained for seed trees		eave all c	onifer 4" and sn	naller on the site. Some	paper birch and larger	diameter white
<u>Other</u> Comn	_	Small op mark the	0	the stand. ORV trail	goes through the sta	and. Lea	ve trail marker tr	ees where possible if cu	It then must be cut abov	ve 8 feet to
<u>Next</u> Steps				ent with a regeneration am fir, white spruce, I			tructions. Accep	otable regeneration is as	pen, maple, cherry, ceo	lar, yellow and
46	451060	946-Cut	51.6	42110 - Planted Red Pine	High Density Log	73	Harvest	Crown Thinning	42110 - Planted Red Pine	Cmpt. Review Proposal
Presc Specs		Thin to a River as			species diversity wi	thin the	stand were pres	ent. A buffer of approxin	nately 50' will be left alo	ng the Carp
<u>Other</u> Comn	nents:	ORV trail	l goes th	rough the stand. Lea	ve trail marker trees	where p	ossible if cut the	en must be cut above 8	feet to mark the trail.	
<u>Next</u> <u>Steps</u>		No follow	up treat	ment necessary.						

S t		Sa	ult Ste. N	Marie Mgt. Unit			atments Pre _imiting Fac		Compartment: 106 Year of Entry 2013	TOP NATURE CHINDRESS
a n d		tment me	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
52 4	5106)52-Cut	40.1	42110 - Planted Red Pine	High Density Log	74	Harvest	Crown Thinning	42110 - Planted Red Pine	Cmpt. Review Proposal
<u>Prescrip</u> Specs:	otion_	Thin to a	round 12	0 Basal Area. Leave	e species diversity w	ithin the	stand were pres	ent.		
<u>Other</u> Comme	ents:	ORV trai	l goes thr	ough the stand. Lea	ave trail marker trees	where p	oossible if cut the	en must be cut above 8	feet to mark the trail.	
<u>Next</u> <u>Steps:</u>		No follow	up treatn	nent necessary.						
53 4	5106	053-Cut	16.9	42110 - Planted Red Pine	High Density Log	74	Harvest	Crown Thinning	42110 - Planted Red Pine	Cmpt. Review Proposal
<u>Prescrip</u> Specs:	otion_	Thin to a River.	round 12	0 Basal Area. Leave	e species diversity w	ithin the	stand were pres	ent. A buffer of approxi	mately 50' will be left alo	ng the Carp
<u>Other</u> Comme	ents:									
<u>Next</u> <u>Steps:</u>		No follow	up neces	ssary.						
65 4	5106	065-Cut	21.0	4130 - Aspen	High Density Pole	51	Harvest	Clearcut with Reserves	4130 - Aspen	Cmpt. Review Proposal
<u>Prescrip</u> Specs:	otion_	Clearcut smaller c			etention guideline. R	etain pat	ch of maple in n	ortheast corner for the t	reatment area and leave	e conifer 4" and
<u>Other</u> Comme	ents:	Delayed of tops.	for green	up requirement on s	stand 67. May want t	o chip ha	arvest with adjac	ent treatment stands fo	llowing the WBHG to re	tain 1/3 to 1/6
<u>Next</u> <u>Steps:</u>					on survey as per the black spruce and wh			otable regeneration is a	spen, maple, cherry, ceo	dar, yellow and
66 4	5106	066-Cut	4.7	4130 - Aspen	High Density Pole	50	Harvest	Clearcut with Reserves	4130 - Aspen	Cmpt. Review Proposal
<u>Prescrip</u> <u>Specs:</u>	<u>otion</u>	Clearcut	with rese	rves following the re	etention guideline. D	o not cut	cherry, maple a	nd white pine to be reta	ined for seed trees and	future snags.
<u>Other</u> Comme	ents:	Delayed of tops.	for green	up requirement on s	stand 67. May want t	o chip ha	arvest with adjac	ent treatment stands fo	llowing the WBHG to re	tain 1/3 to 1/6
<u>Next</u> <u>Steps:</u>					on survey as per the black spruce and wh			otable regeneration is a	spen, maple, cherry, ceo	dar, yellow and
70 4	5106	070-Cut	9.8	4130 - Aspen	High Density Pole	50	Harvest	Clearcut with Reserves	4130 - Aspen	Cmpt. Review Proposal
<u>Prescrip</u> <u>Specs:</u>	otion_	Clearcut the site.	with rese	rves following the re	etention guideline. R	etain pat	ch along east sid	de of the treatment area	a and leave conifer 4" ar	nd smaller on
<u>Other</u> Comme	ents:	Delayed of tops.	for green	up requirement on s	stand 67. May want t	o chip ha	arvest with adjac	ent treatment stands fo	llowing the WBHG to re	tain 1/3 to 1/6
<u>Next</u> <u>Steps:</u>					on survey as per the black spruce and wh		structions. Accep	otable regeneration is a	spen, maple, cherry, ceo	dar, yellow and

Sault Ste. Marie Mgt. Unit

Table 3 - Treatments Prescribed with No Limiting Factor

Compartment: 106 Year of Entry 2013

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S t			Marie Mgi. Omi			imiting Fac		Year of Entry 2013	DNR MICHIGAN	
a n d	Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status	
73 4	l5106073-Cut	7.9	4112 - Maple, Beech, Cherry Association	High Density Log	85	Harvest	Single Tree Selection	4112 - Maple, Beech, Cherry Association	Cmpt. Review Proposal	
<u>Prescri</u> Specs:		nd to 80	to 90 Basal Area. As	pen, cherry and all	conifer s	hould be left.				
<u>Other</u> Comme		with adja	cent stands including	stands 98 and 100	in comp	artment 105				
<u>Next</u> Steps:			ent with a regeneratio spruce, aspen and he	• •	work ins	tructions. Acce	ptable regeneration is ma	aple, cherry, beech, pap	per and yellow	
44 N	IF_45106044- Prep	69.3	Non-Forested		0	Site Prep	Trenching	42110 - Planted Red Pine	Cmpt. Review Proposal	
<u>Prescri</u> Specs:	Report d	ate. Afte		pine regeneration,			s will need to be complet eed to be scheduled for 1			
<u>Other</u> Comme		l goes th	rough the stand.							
<u>Next</u> Steps:	Monitor e necessa	effects of ry with ap	release and treat as ppropriate insecticide	necessary. Monitor recommended by F	for RHP Forest He	S and if monito alth Specialist/	ring shows that treatmen TMS.	t is recommended, ther	n spray when/if	
67 N	IF_45106067- Prep	24.1	Non-Forested		0	Site Prep	Trenching	42110 - Planted Red Pine	Cmpt. Review Proposal	
Prescri Specs:	Report d	ate. After		pine regeneration,			s will need to be complet eed to be scheduled for 1			
<u>Other</u> Comme	ents:									
<u>Next</u> Steps:			release and treat as opropriate insecticide				ring shows that treatmen TMS.	t is recommended, ther	n spray when/if	
57 N	IF_45106057- Plant	30.8	Non-Forested		0	Tree Planting	Unspecified	42110 - Planted Red Pine	Cmpt. Review Proposal	
<u>Prescri</u> Specs:	the Timb	er Cuttin	e trenched and hand g Report date. After e regeneration. Release	establishment of rec	d pine reg	eneration, rege	egeneration levels will ne eneration surveys need to	ed to be completed with be scheduled for 1 yes	nin 2 years of ar and 3 years	
<u>Other</u> Comme		d in 2009	9 on Blueberry Red P	ine RPP. FTP # C4	4-582. O	RV trail goes th	rough the stand.			
<u>Next</u> Steps:			release and treat as opropriate insecticide				ring shows that treatmen TMS.	t is recommended, ther	n spray when/if	
38	45106038- Spray	12.4	42110 - Planted Red Pine	Low Density Sapling	10	Pesticide	Aerial	42110 - Planted Red Pine	Cmpt. Review Proposal	
<u>Prescri</u> Specs:			and if monitoring sho Forest Health Specia		is recomr	mended, then s	pray when/if necessary w	vith appropriate insection	ide	
<u>Other</u> Comme	ents:									
<u>Next</u> Steps:	Continue	to monii	tor site and the effect	s of spraying if trea	ted.					

S t		Sault Ste.	Marie Mgt. Unit		-	atments Pres _imiting Facto		Compartment: 106 Year of Entry 2013	DNR DNR
a n d	Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
39	45106039- Spray	12.8	42110 - Planted Red Pine	High Density Sapling	11	Pesticide	Aerial	42110 - Planted Red Pine	Cmpt. Review Proposal
<u>Prescri</u> Specs:			S and if monitoring sho y Forest Health Specia		is recom	mended, then spr	ay when/if necessary	with appropriate insection	ide
<u>Other</u> Comme	ents:								
<u>Next</u> <u>Steps:</u>	Conti	nue to mon	itor site and the effects	s of spraying if trea	ated.				
41	45106041- Spray	44.7	42110 - Planted Red Pine	High Density Sapling	11	Pesticide	Aerial	42110 - Planted Red Pine	Cmpt. Review Proposal
Prescri Specs:			S and if monitoring sho y Forest Health Specia		is recom	mended, then spr	ay when/if necessary	with appropriate insection	ide
Other Comme	ents:								
<u>Next</u> Steps:		nue to mon	itor site and the effects	s of spraying if trea	ated.				
42	45106042- Spray	4.3	42110 - Planted Red Pine	High Density Sapling	12	Pesticide	Aerial	42110 - Planted Red Pine	Cmpt. Review Proposal
<u>Prescri</u> Specs:			S and if monitoring sho y Forest Health Specia		is recom	mended, then spr	ay when/if necessary	with appropriate insection	ide
<u>Other</u> Comme	ents:								
<u>Next</u> Steps:	Conti	nue to mon	itor site and the effects	s of spraying if trea	ated.				
47	45106047- Spray	39.8	42110 - Planted Red Pine	Medium Density Saplin	8	Pesticide	Aerial	42110 - Planted Red Pine	Cmpt. Review Proposal
<u>Prescri</u> Specs:			f release and treat as appropriate insecticide					ent is recommended, ther	n spray when/if
Other Commo Next Steps:		nue to mon	itor site and the effects	s of spraying if trea	ated				
51	45106051- Spray	7.3	42110 - Planted Red Pine	High Density Sapling	12	Pesticide	Aerial	42110 - Planted Red Pine	Cmpt. Review Proposal
Prescri Specs:			S and if monitoring sho y Forest Health Specia		is recom	mended, then spr	ay when/if necessary	with appropriate insection	ide
Other Comme	ents:								
<u>Next</u> Steps:	Conti	nue to mon	itor site and the effects	s of spraying if trea	ated.				
55	45106055- Spray	19.7	42110 - Planted Red Pine	High Density Sapling	10	Pesticide	Aerial	42110 - Planted Red Pine	Cmpt. Review Proposal
Prescri Specs:	ption Monif		S and if monitoring sho y Forest Health Specia		is recom	mended, then spr	ay when/if necessary	with appropriate insection	ide
<u>Other</u> Comme	ents:								
<u>Next</u> <u>Steps:</u>	Conti	nue to mon	itor site and the effects	s of spraying if trea	ated.				

S t	Sa	ault Ste.	Marie Mgt. Unit			atments Pres _imiting Facto		Compartment: 106 Year of Entry 2013	DNR DNR
a n d	Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
60	45106060- Spray	57.1	42110 - Planted Red Pine	High Density Sapling	14	Pesticide	Aerial	42110 - Planted Red Pine	Cmpt. Review Proposal
Prescr Specs:			and if monitoring sho Forest Health Specia		is recomi	mended, then spr	ay when/if necessary	/ with appropriate insectic	ide
<u>Other</u> Comm	ents:								
<u>Next</u> Steps:	Continue	e to moni	tor site and the effects	s of spraying if trea	ated.				
63	45106063- Spray	65.8	42110 - Planted Red Pine	High Density Sapling	11	Pesticide	Aerial	42110 - Planted Red Pine	Cmpt. Review Proposal
<u>Specs:</u> Other	recomm		S and if monitoring sho Forest Health Specia		t is recomi	mended, then spr	ay when/if necessary	v with appropriate insectio	ide
<u>Comm</u> <u>Next</u> Steps:	Continue	e to moni	tor site and the effects	s of spraying if trea	ated.				
69 I	NF_45106069- Other	78.6	Non-Forested		0	Other	Unspecified	3105 - Mixed Upland Herbaceous	Cmpt. Review Proposal
Prescr Specs:		h adjacer	nt stands for opening i	maintenance. Follo	ow WBHG	6 for retaining 1/3	to 1/6 tops on site.		
<u>Other</u> Comm	<u>ents:</u>								
<u>Next</u> Steps:		additiona	al treatment is necess	ary for the opening	g mainten	ance.			
	Total Treatmer reage Propose		31.6						

Acreage Proposed: 731.6

S t	Sa	ult Ste. N	Aarie Mgt. Unit			ents Prescrib ng Factor	ed with	Compartment: 106 Year of Entry 2013	DNR DNR
a n d	Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
20	45106020-Cut	4.7	4134 - Aspen, Spruce/Fir	High Density Pole	84	Harvest	Clearcut with Reserves	4134 - Aspen, Spruce/Fir	Cmpt. Review Proposal
<u>Spec</u> Other	s: the site.	Some pa	rves following the re per birch and white p ng factor stand 62 in	pine should be retain	•			on and leave conifer 4" a	nd smaller on
<u>Next</u> Steps			nt with a regeneration m fir, white spruce,			tructions. Accepta	able regeneration is a	spen, maple, cherry, ceo	dar, yellow and
	ng Factor and No ment Reason		: Blocked by physicary wet to the stand.	al obstacle					
A	Total Treatmer creage Propose		4.7						

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Out of YOE -- Treatments Prescribed with No Limiting Factor

Year of Entry: 2013



Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
45158_OutOfY OE-Cut	2.5				Harvest	Single Tree Selection	4110 - Sugar Maple Association	Cmpt. Review Proposal
		80 to 90 Basal Area. dvanced regeneratio		ech with the	e smooth bark a	nd wildlife trees. Some I	arger canopy gaps may	y be desirable to
<u>Other</u> Comments:								
		tment with a regener onwood, balsam fir, v				cceptable regeneration is	s aspen, maple, cherry	, beech, yellow and
NF_45134015- NonFor	4.7	Unspecified		0	Non-Forest Management	Patch or Strip Clearcut	31021 - Cool Season Grass	Cmpt. Review Proposal
<u>Prescription</u> Trea <u>Specs:</u>	at with C14	9 s 63. Opening ma	intenance remov	ing jack pir	ne seedlings and	d saplings.		
<u>Other</u> Comments:								
<u>Next</u> <u>Steps:</u>								
Total Treat Acreage Prop		7.2						

S t				5 – Fo	prested Sta	Inds Compartment: 106 Year of Entry: 2013
a n d	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
1	6122 - Black Spruce	High Density Pole	15.6	92		No access to this stand. Looks like the same as adjacent spruce stand in compartment and got data from Compartment 113 stand 56 which is the remaining part of the stand.
2	4191 - Mixed Upland Deciduous with Conifer	High Density Pole	2.7	91		Very wet to access site.
3	6120 - Lowland Cedar	High Density Pole	13.2	113		Cedar stand which is wet and very wet getting to the stand. MNFI identified stand to the north as Hardwood conifer swamp feature.
4	6121 - Tamarack	Medium Density Pole	48.6	106		Tamarack stand with some poor quality cedar, balsam fir, aspen and spruce. Has lots of tag alder.
6	6122 - Black Spruce	Low Density Sapling	65.0	90		Very wet stand with no access. Very few trees within the stand.
8	6129 - Mixed Coniferous Lowland Forest	High Density Pole	31.6	90		Data from stand in adjacent compartment 113 stand 51
9	6122 - Black Spruce	High Density Pole	39.5	86		Black Spruce with some maple, aspen, birch, tamarack and fir. Stand has boggy wet area within it.
13	6129 - Mixed Coniferous Lowland Forest	Medium Density Pole	13.1	105		Heavy cedar regeneration of 3-10' with some 20' tall. Few small ridges within the stand. Data taken form adjacent compartment 113 stand 49.
14	42380 - Non Pine Upland Conifer, Mixed Deciduous	Medium Density	30.0	28		Mix of upland and lowland. Some really nice regeneration within the stand. Real mix of species within the stand. Harvested in 1983.
15	4199 - Other Mixed Upland Deciduous	High Density Sapling	39.2	28		Real nice regeneration within the stand. Few low areas but mostly upland type and a few more open areas. Cut in 1983.
16	6122 - Black Spruce	High Density Pole	79.7	86		The stand is a good spruce trees with some real wet areas and upland areas along the JT Camp Road. Motorcyle trail has small loop into the stand.
17	6124 - Lowland Spruce- Fir	Medium Density Pole	178.6	87		This stand is a conglomeration of lowland conifer species with some maple, aspen and birch. Few high spots and lots of lower wet areas with more tag alder with few trees.
18	4119 - Mixed Northern Hardwoods	High Density Log	8.9	89	81-110	Select harvested in 2001 on Pounding Hammer Hardwood #45- 123-98-01. Some beech bark disease in the beech. Otherwise stand is looking good.
19	429 - Mixed Upland Conifers	High Density Pole	42.0	52		Few wet areas but mostly upland. Some mortality of the fir, spruce, birch and aspen. Small narrow ridge on south side of the stand.
20	4134 - Aspen, Spruce/Fir	High Density Pole	4.7	84		Mixed stand of aspen, fir, spruce, maple and birch.

S t	Sault Ste. Marie Mgt. Unit			5 – Fo	prested Sta	nds Compartment: 106 Year of Entry: 2013
a n d	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
22	4130 - Aspen	High Density Sapling	23.0	15		Good regen ten to twenty + feet tall. Cut on Timber Doodle Aspen #44-28-94-01 finished in June 1996.
25	6122 - Black Spruce	High Density Pole	4.9	86		Very wet surrounding the stand same as previntory stand 17.
26	6139 - Mixed Lowland Forest	Low Density Pole	29.3	82		Very wet and mixed stand.
27	6122 - Black Spruce	High Density Pole	16.9	86		Black Spruce stand with a few other species mixed into the stand.
29	6122 - Black Spruce	High Density Pole	16.7	86		Black Spruce with a mix of some conifer and deciduous. Stand was wet. Adjacent red pine stand had been harvested and not regenerated at this time.
30	4139 - Aspen, Mixed Deciduous	High Density Log	23.4	51		Mackinac Mix stand with mostly upland and a little lowland wet areas. Some mortality is occurring in the stand.
32	6122 - Black Spruce	High Density Pole	11.7	82		Black Spruce stand with some aspen, paper birch and tamarack.
33	4130 - Aspen	Medium Density	29.6	4		Few open areas mostly real nice aspen. Few spruce and maple poles left 3- 10 feet tall. Motorcycle trail runs thru the stand.
36	42110 - Planted Red Pine	High Density Log	3.8	74	141-170	Small stand between stream corridor. Could thinned to 120.
37	429 - Mixed Upland Conifers	Medium Density Pole	6.0	73		Mackinac mix with some red and white pine. Very small stand with open areas within the stand.
38	42110 - Planted Red Pine	Low Density Sapling	12.4	10		Burned in August 1999 on Thunder Alley Fire. Salvaged on the Thunder Alley Fire Salvage #44-17-00-02. Planted on FTP #C44- 518 by trenching and hand planting in April 2001.
39	42110 - Planted Red Pine	High Density Sapling	12.8	11		5 to 15 feet tall average. Good healthy trees. Harvested on sale #27-94-01 then burned and hand planted in May 2000 on FTP # C44-444.
40	4130 - Aspen	High Density Sapling	9.0	15		Good regererated aspen some more spruce in understory ORV trail run thru stand.
41	42110 - Planted Red Pine	High Density Sapling	44.7	11		Burned and planted in 1999 and 2000. Trees are 10-20 feet tall.
42	42110 - Planted Red Pine	High Density Sapling	4.3	12		Harvested on timber sale #27-94-01. Burned and machine planted in May of 1999 on FTP # C44-444. Looks good.

S t	Sault Ste. Marie Mgt. Unit			5 – Forested Stands		nds Compartment: 106 Year of Entry: 2013	
a n d	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:	
43	6112 - Lowland Aspen	Medium Density Pole	26.2	69		Narrow drainage with intermittent stream flowing through the stand. There a patch of red pine on the northern part and scattered along edge with the aspen, red maple, spruce, fir and an elm.	
46	42110 - Planted Red Pine	High Density Log	51.6	73	141-170	Nice healthy stand of red pine.	
47	42110 - Planted Red Pine	Medium Density	39.8	8		Harvested in 2002 on timber sale #124-00-01 Rerun Pine. Burned and trenched in 2004 and planted in May of 2005. Stand has passed the regeneration count check and looks real good.	
48	42110 - Planted Red Pine	High Density Log	19.3	74	111-140	Leave 10 years and recheck. Stand looks good. Treated in 2005 and 2006.	
50	6130 - Fir, Aspen, Maple	Medium Density	4.3	24		Real mixed stand in a low area. Few older trees where left when harvested.	
51	42110 - Planted Red Pine	High Density Sapling	7.3	12		Red pine looks real good at 10-20 feet tall. Harvested on sale #27-94-01. Burned and machine planted in May of 1999 on FTP #C44-444.	
52	42110 - Planted Red Pine	High Density Log	40.1	74	141-170	Thinned in 1995.	
53	42110 - Planted Red Pine	High Density Log	16.9	74		Part of stand is buffer for the Carp River.	
54	42110 - Planted Red Pine	High Density Log	7.9	74	111-140	Thinned in 2006 on Open Red Pine sale 45-134-04-01.	
55	42110 - Planted Red Pine	High Density Sapling	19.7	10		Harvested on sale #27-94-01. Stand was burned, trenched and hand planted in April 2001 on FTP #C44-444. Motorcycle trail runs thru the stand. Red pine looks good and healthy.	
56	42290 - Natural Mixed Pine	High Density Log	6.1	73	111-140	Stand left as a buffer for Carp River. Nice red pine stand.	
58	42110 - Planted Red Pine	High Density Log	12.2	74	81-110	Mixed stand with red pine, aspen and white pine. Red pine is good quality of larger diameter.	
60	42110 - Planted Red Pine	High Density Sapling	57.1	14		Harvested on Lost County Road sale #30-94-01. Site was chipped and some piles burned along the center road. Stand was trenched and hand planted in September 1997 on FTP #44- 441. Stand looks real good with red pine of 10-20 feet tall.	
61	42220 - Natural Jack Pine	Low Density Sapling	25.2	20		Opening which is filling in with jack pine, mix of cherry and a few aspen clones. The open areas are filling in slowly within the stand.	
62	4136 - Aspen, Mixed Conifer	High Density Pole	22.8	50		Aspen is of poorer quality with some good quality white spruce. Stand is mature.	

S t	Sault Ste. Marie Mgt. Unit			5 – Forested Stands		nds Compartment: 106 Year of Entry: 2013	
a n d	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:	
63	42110 - Planted Red Pine	High Density Sapling	65.8	11		Harvested on Deerfly sale #29-94-01. Site was burned, trenched and hand planted in May of 2000 on FTP #C44-441. Trees look real good and healthy at 10 to 20 feet tall.	
64	42220 - Natural Jack Pine	Medium Density Pole	49.2	27		Poor quality site. Opening which has filled in with jack pine, spruce, aspen, cherry and white pine.	
65	4130 - Aspen	High Density Pole	21.0	51		Mature aspen with a mix of poorer quality red maple.	
66	4130 - Aspen	High Density Pole	4.7	50		More sparse along the edges and gaps. Pole log sized aspen stand in the middle.	
68	42110 - Planted Red Pine	High Density Pole	4.3	73	111-140	Buffer left for Ozark Creek of red pine and jack pine. It grades into lowland.	
70	4130 - Aspen	High Density Pole	9.8	50			
72	42320 - Upland Spruce	High Density Pole	18.5	Uneven Age		Long narrow stand with a portion of it is buffer for Ozark Creek.	
73	4112 - Maple, Beech, Cherry Association	High Density Log	7.9	Uneven Age	111-140	Little hardwood stand with some aspen clones in it.	

Sault Ste. Marie Mgt. Unit

6 – Nonforested Stands

Compartment: 106



Year of Entry: 2013

						MICHIGAN
Stand	Cover Type	Acres	Managed Site	Management Priority (Objective)	General Comments:	
5	622 - Lowland Shrub	16.2	No	Unspecified		
7	622 - Lowland Shrub	1.7	No	Unspecified		
10	6225 - Bog	11.0	No	Unspecified		
11	622 - Lowland Shrub	39.5	No	Unspecified		
12	623 - Emergent Wetland	16.1	No	Unspecified		
21	622 - Lowland Shrub	65.9	No	Unspecified		
23	622 - Lowland Shrub	8.4	No	Unspecified		
24	622 - Lowland Shrub	21.7	No	Unspecified		
28	622 - Lowland Shrub	2.0	No	Unspecified		
31	623 - Emergent Wetland	17.1	No	Unspecified		
34	629 - Mixed non-forested wetland	4.0	No	Unspecified		
35	622 - Lowland Shrub	7.5	No	Unspecified		
44	320 - Upland Shrub	69.3	Planted	Red Pine		
45	623 - Emergent Wetland	1.3	No	Unspecified		
49	623 - Emergent Wetland	3.0	No	Unspecified		
57	320 - Upland Shrub	30.7	Planted	Red Pine		
59	622 - Lowland Shrub	61.9	No	Unspecified		
67	320 - Upland Shrub	24.1	Planted	Red Pine		

Compartment: 106 Year of Entry: 2013



Stand	Cover Type	Acres	Managed Site	Management Priority (Objective)	General Comments:	
69	330 - Low-Density Trees	78.6	Yes	Low (NonForested)		
71	622 - Lowland Shrub	21.4	No	Unspecified		



7 – 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.

Stand	SCA Type	SCA Name	Acres	Comments



8 – DEDICATED CONSERVATION AREA DETAILS

* This is a list of Dedicated Biodiversity Areas for this compartment along with a 1/4 mile buffer surrounding the compartment. Refer to Dedicated Conservation Area Map for areas that the below listed Conservation Areas are located.

Conservatio Area	on Type	Description	ERA = Ecological Reference Area HCVA = High Conservation Value Area SCA = Special Conservation Area		
SCA	Cold Water Stream	A coldwater stream has temperature and dissolved oxygen cond 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		
ERA	Ecological Reference Areas	Ecological Reference Areas (ERAs) are high quality examples of natural communities that have been identified as Element Occurrences (EOs) by the Michigan Natural Features Inventory (MNFI) within the context of their natural community classification system. Element Occurrences with viability ranks of A (Excellent) or B (Good) and a Global (G) or State (S) element (rarity) ranking of endangered (1), threatened (2), or rare (3) serve as an initial base of ERAs. They may be located upon any ownership in the State. The system is comprised of individual or associations of natural community types that are managed for restoration and maintenance of natural ecological processes and values. The public may submit recommendations for lands as ERAs using the DNR Conservation Area Recommendation Form.			
SCA	Habitat Area	An area that provide some specific need for the life cycle of wildl and Waterfowl Production Areas, deer wintering complexes in lo openings and savannas. Habitat areas are distinct from critical h 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		