



Sault Forest Management Unit
Compartment Review Presentation
Compartment #53 **Entry Year: 2013**
Compartment Acreage: 3,075 **County: Mackinac**

Revision Date: June 22, 2011

Stand Examiner: Jason Caron

Legal Description: T44N- R1E Sections 3, 4, 5, 6, 7, 8, 9, 17 Pickford Township

RMU: Munuscong Bay

Management Goals: This entire compartment falls within the deer yard and past management has centered on deer. Old cedar strip cuts within the central part of the compartment do show some promise of regenerating cedar however it is a slow process. In surveying the strips it was determined to hold off on cedar strip cuts for this year of entry to let the present regeneration become more established.

Soil and Topography: Markey and Carbondale mucks make up the majority of the compartment, followed by Ermatinger silt loam and Soo silty clay loam. The first two soils are hydric and the last is wet and subject to ponding. Little relief is evident in this very flat compartment. The timber is noticeably better on slight rises that do exist.

Ownership Patterns, Development, and Land Use in and Around the Compartment: State of Michigan land borders the north with private holdings completely surrounding the rest. These private lands are generally used for agriculture or dispersed recreation. Private homes dot all of the county roads around the compartment. Legal access into this compartment exists off of 18 Mile Road off of M-129, however deep ravines keep this to foot access only. Three other access points exist, 19 and 20 Mile Road off of M-129 and 20 Mile Road off of Riverside Drive have all provided public access to this compartment but neither the State of Michigan nor the county has anything on paper.

Unique, Natural Features: A unique aspect of this compartment would be the vast amount of lowland forest type and the large amount of acreage with very little human impact.

Archeological, Historical, and Cultural Features: None known at this time but DNR and contract workers are instructed to be on the lookout for anything that is obviously man-made or looks out of the ordinary.

Special Management Designations or Considerations: None planned.

Watershed and Fisheries Considerations: This compartment contains a portion of the Little Munuscong River, which is a warm transitional stream, and Desormeaux Creek, a warm stream. This compartment is primarily swamp. Minimum no-clearcut buffers of 100 feet should be maintained adjacent to all streams in this compartment.

Wildlife Habitat Considerations: This compartment is located approximately 3 ½ miles north of Pickford east of M-129 and lies within the Rudyard subsection Niagaran Escarpment and Lake Plain. Presettlement vegetation consisted of lowland conifer swamp, similar to the current cover. Cedar is a major component in the compartment, covering over half of the area, and provides important wintering cover for white-tailed deer

in the Kelden deer yard. Several tributaries of the Munuscong River run through it. Historical treatments within cedar and swamp conifer stands continue to show variable regeneration progress.

Cedar and other closed-canopy conifer cover will be retained to maintain cover for deer in the winter yard. Historically treated cedar and swamp conifer stands will be left to encourage their development toward maturity. Stream and riparian habitats will be protected to allow natural processes to continue, maintaining habitat for beaver and waterfowl. Some tamarack will be treated to regenerate additional lowland conifer habitat and provide cover low to the ground for snowshoe hare. Other species benefitting from this management include black bear, bobcat, fisher, marten, and numerous neotropical migratory birds.

Mineral Resource and Development Concerns and/or Restrictions: Surface sediments consist of a mixture of peat and muck and lacustrine (lake) clay and silt. The glacial drift thickness varies between unknown up to 200 feet. The Ordovician Utica and Collingwood Shales and Trenton Formation subcrop below the glacial drift. The Trenton is quarried for stone/dolomite. The compartment has several gravel pits located to the west and south, but potential appears limited. There is no economic oil and gas production in the UP.

Vehicle Access: There is no vehicle access into this compartment.

Survey Needs: None needed.

Recreational Facilities and Opportunities: Fishing is very limited or non-existent within this compartment. Hunting for hares and bobcats takes place in the winter months, and in years with early snows the compartment receives increased hunting pressure during the muzzleloading and late archery deer seasons. By directors order there is no motorized use allowed within the compartment on 20 Mile Road, 19 Mile Road, or the trail between 19 and 20 Mile roads (off of M-129).

Fire Protection: Fire protection in this compartment would be very difficult given the lack of access and wet soils.

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**

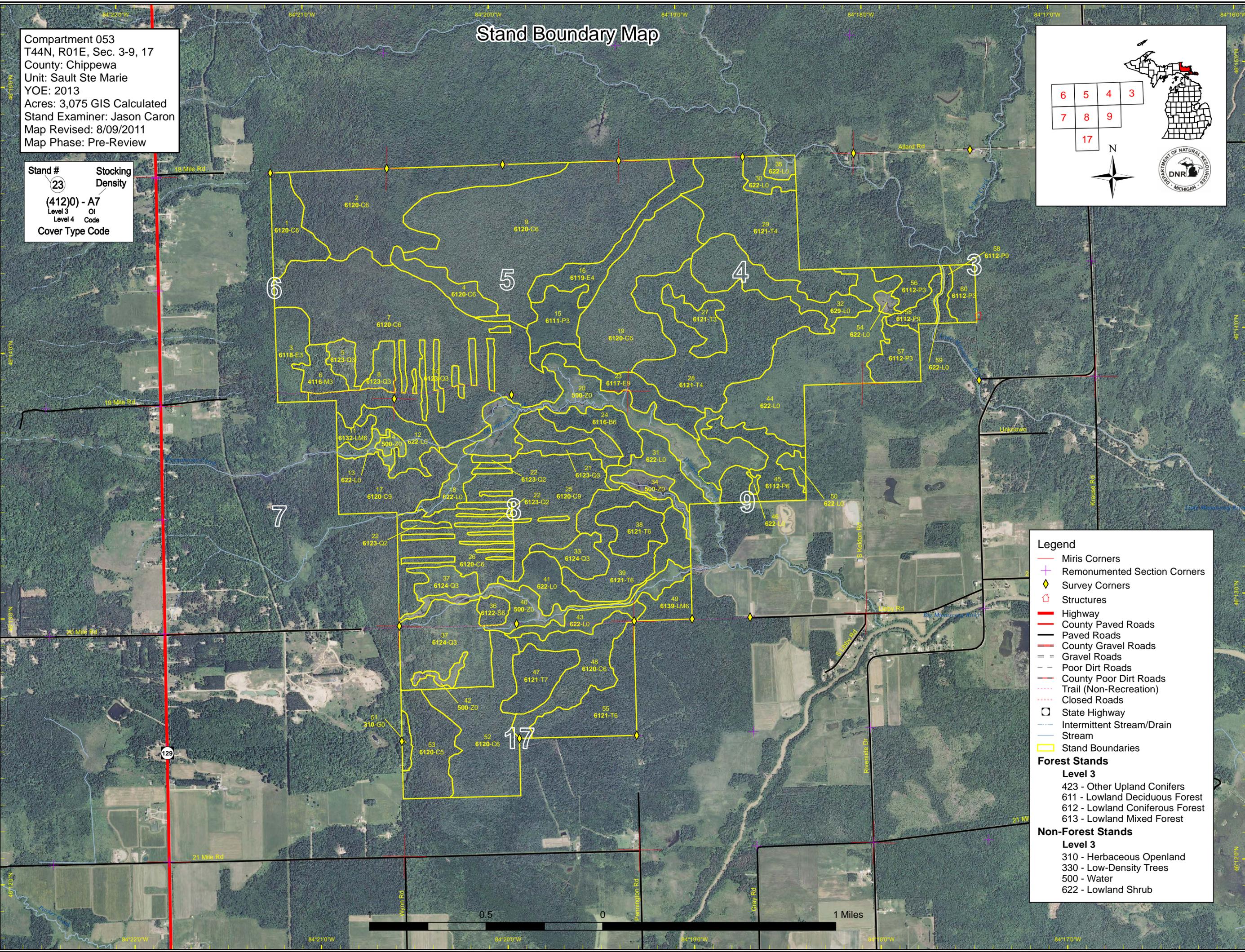
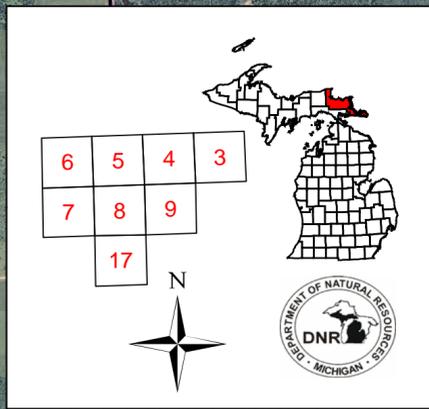
- **The following information is displayed, where pertinent, on the attached compartment maps:**
 - ◆ **Base feature information, stand boundaries, cover types, and numbers**
 - ◆ **Proposed treatments**
 - ◆ **Details on the road access system**

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Stand Boundary Map

Compartment 053
 T44N, R01E, Sec. 3-9, 17
 County: Chippewa
 Unit: Sault Ste Marie
 YOE: 2013
 Acres: 3,075 GIS Calculated
 Stand Examiner: Jason Caron
 Map Revised: 8/09/2011
 Map Phase: Pre-Review

Stand #
 23
 Stacking
 Density
 (4120) - A7
 Level 3 OI
 Level 4 Code
 Cover Type Code



Legend

- Miris Corners
- + Remonumented Section Corners
- ◆ Survey Corners
- Structures
- Highway
- County Paved Roads
- Paved Roads
- County Gravel Roads
- Gravel Roads
- Poor Dirt Roads
- County Poor Dirt Roads
- Trail (Non-Recreation)
- Closed Roads
- State Highway
- Intermittent Stream/Drain
- Stream
- Stand Boundaries

Forest Stands

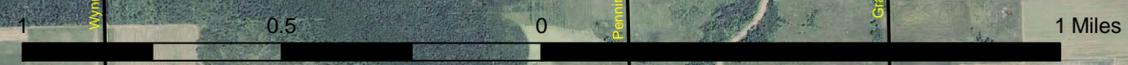
Level 3

- 423 - Other Upland Conifers
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 613 - Lowland Mixed Forest

Non-Forest Stands

Level 3

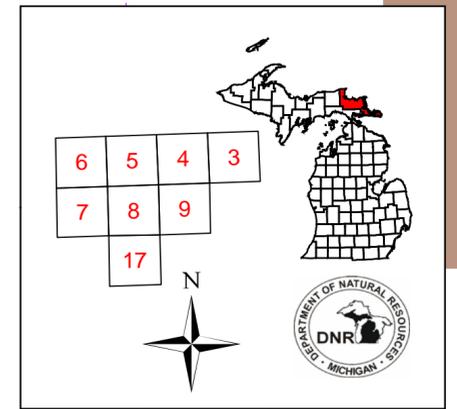
- 310 - Herbaceous Openland
- 330 - Low-Density Trees
- 500 - Water
- 622 - Lowland Shrub



Dedicated & Proposed Special Conservation Area Map

Compartment 053
 T44N, R01E, Sec. 3-9, 17
 County: Chippewa
 Unit: Sault Ste Marie
 YOE: 2013
 Acres: 3,075 GIS Calculated
 Stand Examiner: Jason Caron
 Map Revised: 8/09/2011
 Map Phase: Pre-Review

Stand #
 23
 Stacking
 Density
 (412)0 - A7
 Level 3 OI
 Level 4 Code
 Cover Type Code



- Legend**
- Miris Corners
 - ⊕ Remonumented Section Corners
 - ◆ Survey Corners
 - ▭ Stand Boundaries
 - Proposed Special Conservation Areas**
 - ▨ SCA - Special Conservation Area
 - ▩ SCA Removal
 - Dedicated Special Conservation Areas**
 - Ecological Reference Areas
 - Dedicated Management Areas
 - ▲ Campgrounds
 - ⚓ Boat Access Sites
 - Cold Water Streams
 - Deer Wintering Areas
 - Wildlife Management Areas
 - Forest Stands**
 - Level 3**
 - 423 - Other Upland Conifers
 - 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

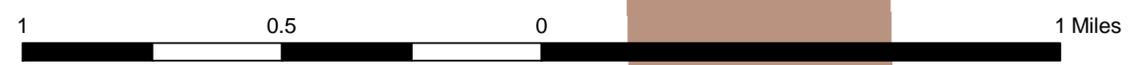
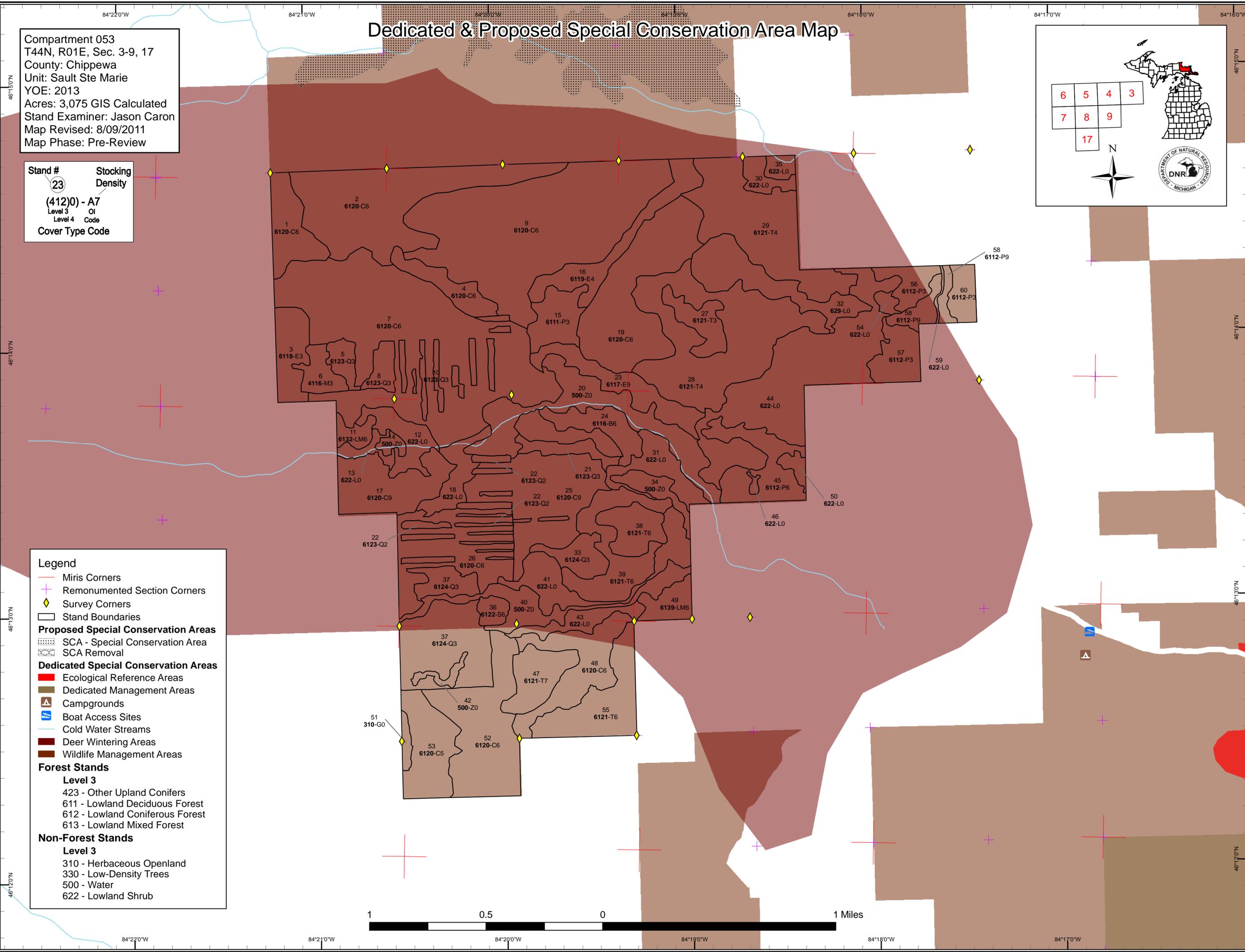


Table 1 – Total Acres by Cover Type and Age Class



	Age Class														Total	
	Non-Forested	1-9	10-19	20-29	30-39	40-49	50-59	60-69	70-79	80-89	90-99	100-109	110-119	120 +		Unretn Age
Cedar	0	0	0	0	0	0	0	0	0	309	449	0	465	187	0	1410
Herbaceous Openland	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6
Lowland Aspen/Balsam Poplar	0	0	0	97	50	0	0	0	21	0	0	0	0	0	0	167
Lowland Conifers	0	0	0	167	52	0	0	0	0	0	0	0	0	0	0	220
Lowland Deciduous	0	0	0	0	0	33	43	0	0	47	0	0	0	0	0	124
Lowland Mixed Forest	0	0	0	0	19	0	0	10	0	0	0	0	0	0	0	30
Lowland Shrub	424	0	0	0	0	0	0	0	0	0	0	0	0	0	0	424
Lowland Spruce/Fir	0	0	0	0	0	0	0	0	0	9	0	0	0	0	0	9
Northern Hardwood	0	0	0	0	18	0	0	0	0	0	0	0	0	0	0	18
Paper Birch	0	0	0	0	0	0	0	0	29	0	0	0	0	0	0	29
Tamarack	0	0	0	0	0	84	0	0	0	212	0	185	0	0	0	481
Water	158	0	0	0	0	0	0	0	0	0	0	0	0	0	0	158
Total	587	0	0	264	140	117	43	10	50	578	449	185	465	187	0	3075



Table 2 – Proposed Treatment Summaries

Sault Ste. Marie Mgt. Unit
Year of Entry 2013

Compartment 053
Total Compartment Acres: 3075

Acres by Treatment Type

Commercial Harvest - 269	Site Prep - 0	Tree Planting - 0	Prescribed Burn - 0	Other - 0
Habitat Cut - 0	Opening Maintenance - 0	Tree Seeding - 0	Pesticide - 0	

Cover Type by Harvest Method

		Clearcut	Selection	Seed Tree	Shelterwood	Thinning	Other - Specify	Total Acres
Lowland Deciduous	47	0	0	0	0	0	0	47
Lowland Spruce/Fir	9	0	0	0	0	0	0	9
Tamarack	212	0	0	0	0	0	0	212
Total	269	0	0	0	0	0	0	269

**Table 3 -- Treatments Prescribed
with No Limiting Factor**



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Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
47 45053047-Cut	35.9	6121 - Tamarack	Low Density Log	80	Harvest	Clearcut with Reserves	6139 - Mixed Lowland Forest	Cmpt. Review Proposal

Prescription: Clearcut with reserves. Do not cut hemlock, and pine if it exists within the sale. Leave a few scattered tamarack within the sale for retention.

Specs: Allow producer to cut some operational cedar to get to the tamarack and spruce.

Other: If treatment is approved add this stand to contract # 45-010-11-01.

Comments:

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

55 45053055-Cut	61.6	6121 - Tamarack	High Density Pole	80	Harvest	Clearcut with Reserves	6139 - Mixed Lowland Forest	Cmpt. Review Proposal
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Prescription: Already prescribed from previous YOE.

Specs:

Other:

Comments:

Next

Steps:

**Total Treatment
Acreage Proposed: 97.5**



S t a n d	Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
16	45053016-Cut	47.0	6119 - Mixed Lowland Deciduous Forest	Low Density Sapling	86	Harvest	Clearcut with Reserves	6117 - Lowland Deciduous, Mixed Coniferous	Cmpt. Review Proposal

Prescription Clearcut with reserves. Do not cut oak, hemlock, pine if they exist within sale. Some operational cedar may have to be removed.

Specs:

Other
Comment:

Next
Steps: 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, cedar, and white pine.

Limiting Factor and No
Treatment Reason 2A: Adjacent landowner denies access
Landowner to the East did not respond to numerous letters sent when I inventoried C-52. Also, a foot bridge exists over the Little Munuscong River but that's it. River bank is very, very wide at this point, too much for a portable bridge.

29	45053029-Cut	114.9	6121 - Tamarack	Low Density Pole	85	Harvest	Clearcut with Reserves	6128 - Lowland Coniferous, Mixed Deciduous	Cmpt. Review Proposal
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Prescription Clearcut with reserves. Do not cut cedar, pine, hemlock if it exists within the sale.

Specs:

Other
Comment:

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

Limiting Factor and No
Treatment Reason 2A: Adjacent landowner denies access
Landowner to the East did not respond to numerous letters sent when I inventoried C-52. Also, a foot bridge exists over the Little Munuscong River but that's it. River bank is very, very wide at this point, too much for a portable bridge.

36	45053036-Cut	9.5	6122 - Black Spruce	High Density Pole	80	Harvest	Clearcut with Reserves	6139 - Mixed Lowland Forest	Cmpt. Review Proposal
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Prescription Clearcut with reserves. Do not cut hemlock, pine, and cedar if they exist within the sale.

Specs:

Other
Comment:

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

Limiting Factor and No
Treatment Reason 4D: Low volume (small acreage)
Also alot of road work needed for the small acreage. A small producer may want to skid wood out to main road?

**Total Treatment
Acreage Proposed: 171.3**

**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_OutOfYOE-Cut	2.5				Harvest	Single Tree Selection	4110 - Sugar Maple Association	Cmpt. Review Proposal
<u>Prescription:</u> Mark stand to 80 to 90 Basal Area. Retain some beech with the smooth bark and wildlife trees. Some larger canopy gaps may be desirable to enhance the advanced regeneration present. <u>Specs:</u> <u>Other Comments:</u> <u>Next Steps:</u> 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, black spruce and white pine.								
NF_45134015-NonFor	4.7	Unspecified		0	Non-Forest Management	Patch or Strip Clearcut	31021 - Cool Season Grass	Cmpt. Review Proposal
<u>Prescription:</u> Treat with C149 s 63. Opening maintenance removing jack pine seedlings and saplings. <u>Specs:</u> <u>Other Comments:</u> <u>Next Steps:</u>								
Total Treatment Acreage Proposed:		7.2						



Stand	Sault Ste. Marie Mgt. Unit			5 – Forested Stands		Compartment: 053 Year of Entry: 2013
	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
1	6120 - Lowland Cedar	High Density Pole	39.1	111		Stand consists of cedar, black ash and white birch. Ground is wet. White birch is ok quality.
2	6120 - Lowland Cedar	High Density Pole	151.0	111		Stand of pole sized cedar that is decent in quality.
3	6118 - Lowland Deciduous with Cedar	High Density Sapling	33.4	41		Stand of scattered cedar with young black ash coming in. Ground is very wet, poor quality stand.
4	6120 - Lowland Cedar	High Density Pole	26.5	92		Stand of pole sized cedar that is very dense with stems. Cedar is good quality with a few tamarack and black spruce scattered within the sale.
5	6123 - Lowland Fir	High Density Sapling	12.4	36		Old strip cut which has filled in with balsam and black spruce. A few cedar here and there are in the understory but are only knee high.
6	4116 - Mixed N. Hardwood - Aspen	High Density Sapling	18.0	36		Nice aspen and maple regeneration on a small sand ridge. Pockets of conifer exist in the NE corner of the stand.
7	6120 - Lowland Cedar	High Density Pole	308.9	86		Stand quality is poor. Stand has a few black spruce, tamarack and black spruce scattered within it. took another age of 85, didn't add yrs. yet however. avg. them when done.
8	6123 - Lowland Fir	High Density Sapling	13.3	36		Old strip cut that has filled in with conifer and bam. A few cedar seed trees that were left after the cut are still standing. check oi for age.
9	6120 - Lowland Cedar	High Density Pole	274.7	111		Stand of poorer quality cedar. Balsam fir understory is very thick.
10	6123 - Lowland Fir	High Density Sapling	26.8	36		Old strip cut filling in with balsam and black spruce. A few pockets of bam exists along with the occasional white birch. A few small knee high cedars exist within the subcanopy.
11	6132 - Mixed Lowland Forest with Cedar	High Density Pole	10.4	60		
15	6111 - Lowland Balsam Poplar	High Density Sapling	31.1	21		Stand of mixed lowland species... Pockets of thick bam and red maple. Nice regeneration overall.
16	6119 - Mixed Lowland Deciduous Forest	Low Density Pole	47.0	86		Canopy species are of poor quality and sparse. Understory is very thick with balsam fir and black ash. I noticed a couple of red maple here and there that are huge... 20"+ dbh.
17	6120 - Lowland Cedar	High Density Log	62.6	125		stand of old, large dia. cedar. thick bf understory that is almost pole sized in spots
19	6120 - Lowland Cedar	High Density Pole	124.9	135		Poor quality cedar. Understory varies from areas of thick balsam fir to areas of thick black ash.

S t a n d	Sault Ste. Marie Mgt. Unit		5 – Forested Stands			Compartment: 053
	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Year of Entry: 2013
						General Comments:
21	6123 - Lowland Fir	High Density Sapling	14.8	28		Old strip cut that does not show up on the previous YOE map for some reason? Stand contains thick balsam fir with a few scattered cedar and white birch. An old haul road goes across the North part of the stand but it is very overgrown.
22	6123 - Lowland Fir	Medium Density	33.4	28		Old strip cuts. Most strips have regenerated back primarily to black spruce and balsam fir. A few small cedars may exist but if so, very few.
23	6117 - Lowland Deciduous, Mixed Coniferous	High Density Log	43.2	50		Stand is along edge of flowage. Bam, Aspen and white spruce is in decent condition.
24	6116 - Lowland Birch	High Density Pole	29.0	70		Mixed stand of white birch and cedar. Birch is in decent shape. The edge of flowage consists of black ash.
25	6120 - Lowland Cedar	High Density Log	126.0	90		Cedar is poorer quality and dense. Some areas contain almost exclusively cedar.
26	6120 - Lowland Cedar	High Density Pole	78.4	98		Vast stand of cedar. Some decent quality and some poor quality. very little coming in underneath. Park like in spots.
27	6121 - Tamarack	High Density Sapling	24.6	46		Stand is coming back to mostly tamarack with a few black spruce and paper birch here and there. Old stumps indicate an old cut. The tamarack has come back very thick. Stand is 46 years old but small for that age. Old OI says the same.
28	6121 - Tamarack	Low Density Pole	155.6	108		Poor quality stand with scattered tamarack and black spruce. Stand volume is very low and ground is wet. Pockets of regen coming up where timber is sparse.
29	6121 - Tamarack	Low Density Pole	114.9	85		Stand of tag alder with pockets of higher ground that range from tamarack to aspen to red maple. Ground is extremely wet.. No access, do not cut.
33	6124 - Lowland Spruce- Fir	High Density Sapling	21.5	20		Stand of young balsam fir, black spruce... Stand might be an old flooded area that is growing back. Stand is very thick. Good rabbit habitat.
36	6122 - Black Spruce	High Density Pole	9.4	80		Stand contains some nice black spruce mixed with a few tamarack.
37	6124 - Lowland Spruce- Fir	High Density Sapling	97.4	28		Stand contains old strip cuts that were cut between 1980 and '86. Stand is coming back to a dense mix of balsam, black spruce and tamarack. Some cedar exists within the understory but they are only 3' tall and sparse. Stand makes for good rabbit habitat at the current YOE.
38	6121 - Tamarack	High Density Pole	29.4	101		Decent stand of tamarack that is in decline. Balsam fir is very, very thick within the understory. Ground is low and wet.
39	6121 - Tamarack	High Density Pole	59.0	45		Stand of younger tamarack that is good quality. Do not manage.





	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
45	6112 - Lowland Aspen	High Density Pole	49.9	30		stand has filled in w/young aspen and bam. a few larger trees exist but the majority of trees are 4 inch dia. ground is very wet. older trees are very poor quality. younger trees are good quality. a few elm exist w/in the stand as well.
47	6121 - Tamarack	Low Density Log	35.9	80		Very low volume within the stand, a tree here and there. Tamarck is poor quality, a thick balsam fir understory exists. Stand is very wet as well.
48	6120 - Lowland Cedar	High Density Pole	60.7	90		Decent stand of cedar with pockets of pole cedar.
49	6139 - Mixed Lowland Forest	High Density Pole	19.4	35		Mixed bag when it comes to species within this stand. Most of it is lower quality bam, red maple and conifer.
52	6120 - Lowland Cedar	High Density Pole	103.5	90		OI says year of origin in this stand is 1892. Stand age varies from 100+ to 80 years of age. Pockets of black spruce and tamarack exist throughout the stand. Stand quality is good throughout most of stand.
53	6120 - Lowland Cedar	Medium Density Pole	53.5	90		Stand consists of cedar clumps mixed with openings of young, thick balsam fir.
55	6121 - Tamarack	High Density Pole	61.6	80		Stand is already prescribed and contract will be written shortly.
56	6112 - Lowland Aspen	High Density Sapling	19.7	23		check cut records for age. aspen and bam are good quality, ground is wet.
57	6112 - Lowland Aspen	High Density Sapling	28.8	23		North part of stand was cut and has regenerated nicely back to a mix of aspen, bam, and balsam. South end of stand contains a patch of mature aspen but too small to delineate.
58	6112 - Lowland Aspen	High Density Log	20.8	77		Stand of large aspen with pole sized balsam fir in the understory. No access to stand and flowage in South half. Beaver pond in West part of stand as well.
60	6112 - Lowland Aspen	High Density Sapling	17.0	23		A mix of bam, aspen and balsam. Nice regeneration.



Stand	Cover Type	Acres	Managed Site	Management Priority (Objective)	General Comments:
12	6220 - Alder/willow	27.3	NVA	Unspecified	
13	622 - Lowland Shrub	9.1	NVA	Unspecified	
14	50 - Water	5.4	NVA	Unspecified	
18	6220 - Alder/willow	24.7	NVA	Unspecified	
20	50 - Water	86.1	NVA	Unspecified	
30	6220 - Alder/willow	13.6	NVA	Unspecified	
31	6220 - Alder/willow	31.9	NVA	Unspecified	
32	629 - Mixed non-forested wetland	58.9	No	Low (NonForested)	
34	50 - Water	16.2	NVA	Unspecified	
35	622 - Lowland Shrub	8.0	NVA	Unspecified	
40	50 - Water	44.4	NVA	Unspecified	
41	6220 - Alder/willow	48.9	NVA	Unspecified	
42	50 - Water	6.2	NVA	Unspecified	
43	6220 - Alder/willow	20.2	NVA	Unspecified	
44	6220 - Alder/willow	165.8	NVA	Unspecified	
46	622 - Lowland Shrub	1.9	NVA	Unspecified	
50	6220 - Alder/willow	6.7	NVA	Unspecified	
51	310 - Herbaceous Openland	5.7	Natural Regen	Aspen	Stand was put by way of a chapter 7 letter and cut in the spring of 2011. Logger was cutting nearby private land and could cut this piece as well.



Stand	Cover Type	Acres	Managed Site	Management Priority (Objective)	General Comments:
54	622 - Lowland Shrub	4.9	N/A	Unspecified	
59	622 - Lowland Shrub	1.6	N/A	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.

ERA = Ecological Reference Area
 HCVA = High Conservation Value Area
 SCA = Special Conservation Area

Conservation Area	Type	Description
SCA	Cold Water Stream	A coldwater stream has temperature and dissolved oxygen conditions that allow naturally-reproduced or stocked trout populations and those of other coldwater fish species (e.g., slimy sculpin) to persist from year to year. Coldwater streams in Michigan typically provide these conditions due to substantial contributions of groundwater to their stream flows. Such streams are established by Director's action and designated as trout resources by Fisheries Order 210.
SCA	Habitat Area	An area that provide some specific need for the life cycle of wildlife species, including State Wildlife Areas and Waterfowl Production Areas, deer wintering complexes in lowland conifer communities, grassland openings and savannas. Habitat areas are distinct from critical habitat designated for recovery of endangered or threatened species (such as Kirtland's warbler or piping plover areas) in that they are more general in nature, are not primarily associated with threatened or endangered species, and are not covered by species recovery plans that are developed in cooperation with Federal agencies.