



SAULT FOREST MANAGEMENT UNIT COMPARTMENT REVIEW PRESENTATION

COMPARTMENT # 61 ENTRY YEAR: 2013

Compartment Acreage: 1,725 County: Chippewa

Revision Date: 08/11/2011

Stand Examiner: Matt Edison, Cory Luoto, Steve Crigier

Legal Description: T43N R2E Sec 22, 23, 24, 25

RMU: Gogomain

Management Goals: This block, acquired in 2006, will be maintained as deer yard with possible cedar treatments in the future. There is very little upland to manage but treatments will be prescribed as needed for habitat and silvicultural management.

Soil and Topography: Kalkaska-Rubicon well drained sandy soil west on the ridge of the Gogomain swamp. Markey-Dawson poorly drained muck down off the ridge in the swamp.

Ownership Patterns, Development, and Land Use in and Around the Compartment: Private land on the south west side, very little upland with camps, and vacant property. The north, east, and south sides are surrounded by vast lowland conifer swamp referred to as the Gogomain Swamp. The north and south boundary is State land. Hunting and trapping are the primary uses.

Unique, Natural Features: The Gogomain ridge is a steep ridge separating upland sand plains and lowland cedar. It extends for approx ten miles in a prominent north west - south east line. The rich conifer swamp has the potential for many T & E species. MNFI is consulted before any management is prescribed.

Archeological, Historical, and Cultural Features: None known at this time.

Special Management Designations or Considerations: Deer yard, SCA

Watershed and Fisheries Considerations: The South Branch Gogomain River, a warm transitional river, is adjacent to this compartment. No treatments are scheduled near the stream, so Fisheries has no concerns at this time.

Wildlife Habitat Considerations: Most of this compartment is part of the Gogomain swamp located west of the South Branch of the Gogomain River in the Rudyard subsection of the Niagaran Escarpment and Lake Plain. Lowland conifer swamp composed primarily of white cedar dominates. Other common species include black spruce, tamarack, and scattered white pine. The composition is typical of the swamp. On the west end, a sandy ridge rises out of the swamp and supports a mix of aspen, white birch, cherry, oak, red pine, northern hardwood, and spruce. Spruce plantations were thinned prior to the state's acquisition, and the majority of remaining stands are young. Wildlife species use includes white-tailed deer, black bear, bobcat, coyote, fisher, marten, hawks, chickadees, and thrushes.

This compartment is part of a larger holding that was recently purchased as part of the deer range improvement program. Wildlife goals are to develop a management plan that will include revitalizing the deer yard in this area, which includes providing closed-canopy cover for wintering deer. Historic management included clearcutting some areas in the swamp close to the sand ridge. These areas will be managed to encourage continued recruitment of cedar.

Mineral Resource and Development Concerns and/or Restrictions: Surface sediments consist of peat and muck and minor lacustrine (lake) clay and silt. The glacial drift thickness varies between 100 and 200 feet. The Ordovician Big Hill and Stonington Formations subcrop below the glacial drift. These rocks could be used for stone. The nearest gravel pit is located 1.5 miles to the east and potential appears limited. There is no economic oil and gas production in the UP.

Vehicle Access: E. Sand Ridge Road borders the south boundary for about a half a mile. There are two tracks entering the compartment off the road making only the upland southwest corner accessible above the ridge.

Survey Needs: None at this time.

Recreational Facilities and Opportunities: None

Fire Protection: There is no water near the compartment. Water can be accessed in Munuscong Bay at Dan's resort or Raber Bay in Raber. The only road is a two track loop off E. Sand Ridge Road.

Additional Compartment Information:

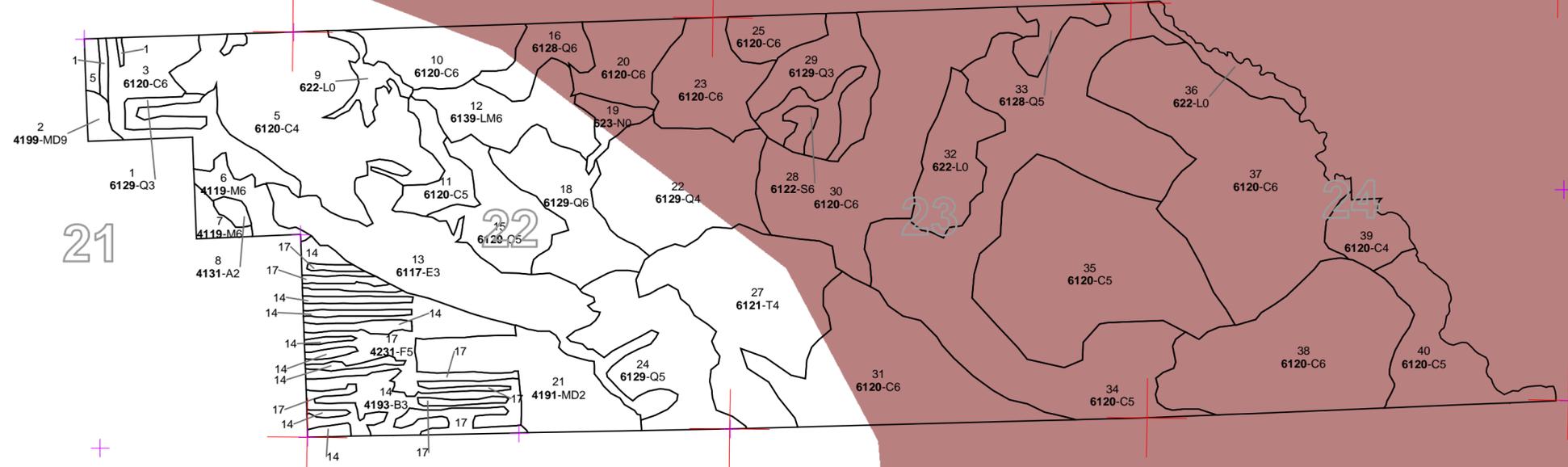
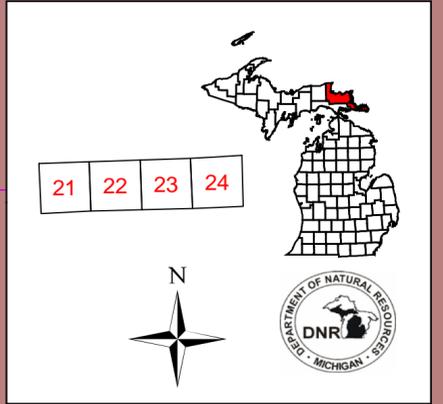
- **Cover Type details, Proposed Treatments, and Stand listings are listed in the attached reports:**
 - ◆ **Proposed Treatments – No Limiting Factors**
 - ◆ **Proposed Treatments – With Limiting Factors**
 - ◆ **Stand Listing – Forested**
 - ◆ **Stand Listing – Non Forested**
 - ◆ **Special Conservation Area (SCA) Details**

- **The following information is displayed, where pertinent, on the attached compartment maps:**
 - ◆ **Base feature information, stand numbers, cover types**
 - ◆ **Proposed treatments**
 - ◆ **Proposed road access system**
 - ◆ **SCA – Special Conservation Areas**

Dedicated & Proposed Special Conservation Area Map

Compartment 61
 T43N, R02E, Sec. 21-24
 County: Chippewa
 Unit: Sault Ste. Marie
 YOY: 2013
 Acres: 1,725 GIS Calculated
 Stand Examiner: Matthew Edison
 Map Revised: 8/15/2011
 Map Phase: Pre-review

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



Legend

- Miris Corners
- + Remonumented Section Corners
- Dedicated Special Conservation Areas**
- Deer Wintering Areas
- Stand Boundaries
- Forest Stands**
- Level 3**
- 411 - Northern Hardwood
- 413 - Aspen Types
- 419 - Mixed Upland Deciduous
- 423 - Other Upland Conifers
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 613 - Lowland Mixed Forest
- Non-Forest Stands**
- Level 3**
- 622 - Lowland Shrub
- 623 - Emergent Wetland

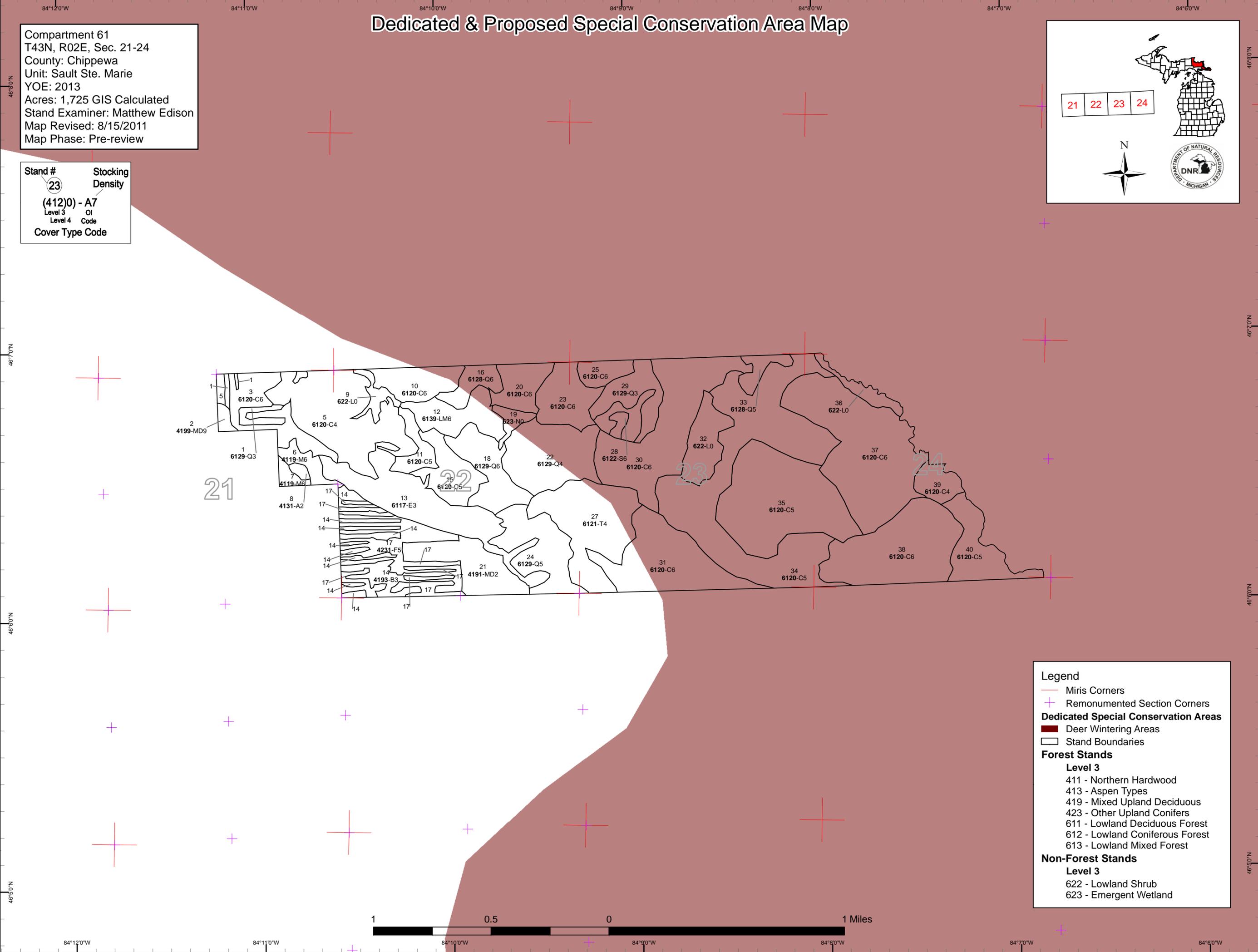


Table 1 – Total Acres by Cover Type and Age Class



	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 +		Uneren Age
Aspen	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	3
Cedar	0	0	0	0	0	0	0	0	30	0	0	133	337	561	0	1061
Lowland Conifers	0	0	0	9	0	0	0	0	4	16	0	64	79	51	0	223
Lowland Deciduous	0	0	83	0	0	0	0	0	0	0	0	0	0	0	0	83
Lowland Mixed Forest	0	0	0	0	0	0	0	0	0	0	0	0	33	0	0	33
Lowland Shrub	51	0	0	0	0	0	0	0	0	0	0	0	0	0	0	51
Lowland Spruce/Fir	0	0	0	0	0	0	0	0	0	0	0	0	0	13	0	13
Marsh	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8
Mixed Upland Deciduous	0	0	44	0	0	0	0	0	0	4	0	0	0	0	0	48
Northern Hardwood	0	0	0	0	0	0	0	0	0	0	17	0	0	0	0	17
Paper Birch	0	0	47	0	0	0	0	0	0	0	0	0	0	0	0	47
Tamarack	0	0	0	0	0	0	0	0	0	0	82	0	0	0	0	82
Upland Spruce/Fir	0	0	0	0	0	0	0	56	0	0	0	0	0	0	0	56
Total	59	0	176	9	0	0	0	56	34	21	99	197	450	625	0	1725



Table 2 – Proposed Treatment Summaries

Sault Ste. Marie Mgt. Unit
Year of Entry 2013

Compartment 061
Total Compartment Acres: 1725

Acres by Treatment Type

Commercial Harvest - 123	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
Cedar	17	0	0	0	0	0	0	17
Lowland Conifers	34	0	0	0	0	0	0	34
Northern Hardwood	0	17	0	0	0	0	0	17
Upland Spruce/Fir	56	0	0	0	0	0	0	56
Total	107	17	0	0	0	0	0	123

**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
17	45061017-Cut	56.0	42310 - Planted Spruce	Medium Density Pole	61	Harvest	Clearcut with Reserves	4134 - Aspen, Spruce/Fir	Cmpt. Review Proposal

Prescription: Clear cut all Spruce. Leave aspen.

Specs: WLD: Leave a few scattered spruce for diversity.

Other: Allow stand to regenerate to aspen naturally.

Comments:

Next Steps:

**Total Treatment
Acreage Proposed: 56.0**



S t a n d	Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
3	45061003_sm all-Cut	16.8	6120 - Lowland Cedar	High Density Pole	129	Harvest	Patch or Strip Clearcut	6120 - Lowland Cedar	Cmpt. Review Proposal
<u>Prescription</u> patch clearcut. strips 2-5chs wide. <u>Specs:</u> WLD: Leave stand until a broader management plan that includes specific deer yard management plans is completed. <u>Other</u> needs survey. Access through pvt or off poor dirt road off from sand lk rd. <u>Comment:</u> <u>Next</u> regen check 4 yrs after harvest. regen = cedar, fir, spruce, birch <u>Steps:</u> <u>Limiting Factor and No</u> 2H: Survey needed <u>Treatment Reason</u>									
6	45061006-Cut	11.3	4119 - Mixed Northern Hardwoods	High Density Pole	87	Harvest	Single Tree Selection	4119 - Mixed Northern Hardwoods	Cmpt. Review Proposal
<u>Prescription</u> Thin stand down to 80sqft. Maintain ironwood and oak component. <u>Specs:</u> WLD: Restrict harvest to areas on top of the hill. Do not harvest on the hillside or in lowlands. Leave all oak. <u>Other</u> needs survey <u>Comment:</u> <u>Next</u> regen check 4 yrs after harvest. acceptable regen = maple, oak, birch, fir, spruce, popple. <u>Steps:</u> <u>Limiting Factor and No</u> 2H: Survey needed <u>Treatment Reason</u>									
7	45061007-Cut	5.4	4119 - Mixed Northern Hardwoods	High Density Pole	90	Harvest	Single Tree Selection	4111 - S.Maple, Hard Mast Association	Cmpt. Review Proposal
<u>Prescription</u> Thin stand down to 80sqft/ac. maintain oak component. <u>Specs:</u> WLD: Leave all oak and some large wolfy trees where present. Leave snags and coarse woody debris. <u>Other</u> will need survey corner and lines. Access through pvt or through poor dirt road off Sand Ridge road. <u>Comment:</u> <u>Next</u> Regen check 4 yrs after harvest. Acceptable regen, maple, oak, birch, spruce, fir, ash. <u>Steps:</u> <u>Limiting Factor and No</u> 2H: Survey needed <u>Treatment Reason</u>									
24	45061024-Cut	33.8	6129 - Mixed Coniferous Lowland Forest	Medium Density Pole	118	Harvest	Patch or Strip Clearcut	6120 - Lowland Cedar	Cmpt. Review Proposal
<u>Prescription</u> strip clearcut. make stripes 2-5chains in width. <u>Specs:</u> WLD: Leave stand until a broader management plan that includes specific deer yard management plans is completed. <u>Other</u> good luck <u>Comment:</u> <u>Next</u> regen check following harvest per work instructions. Acceptable regen is cedar, black sp, tamarack, fir, birch. <u>Steps:</u> <u>Limiting Factor and No</u> 2F: Too wet <u>Treatment Reason</u>									
Total Treatment Acreage Proposed:		67.3							

**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
<p><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.</p> <p><u>Other Comments:</u></p> <p><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.</p>								
NF_45134015-NonFor	4.7	Unspecified		0	Non-Forest Management	Patch or Strip Clearcut	31021 - Cool Season Grass	Cmpt. Review Proposal
<p><u>Prescription:</u> Treat with C149 s 63. Opening maintenance removing jack pine seedlings and saplings.</p> <p><u>Other Comments:</u></p> <p><u>Next Steps:</u></p>								
Total Treatment Acreage Proposed:		7.2						

S t a n d	Sault Ste. Marie Mgt. Unit		5 – Forested Stands			Compartment: 061	General Comments:
	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Year of Entry: 2013	
1	6129 - Mixed Coniferous Lowland Forest	High Density Sapling	8.7	24			Scattered mature cedar
2	4199 - Other Mixed Upland Deciduous	High Density Log	4.1	84	81-110		Includes ledge
3	6120 - Lowland Cedar	High Density Pole	38.2	132			Decent stocking. Redmaple and fir coming up on edge of stand
5	6120 - Lowland Cedar	Low Density Pole	99.0	125			very sparse timber
6	4119 - Mixed Northern Hardwoods	High Density Pole	11.3	90	81-110		Thin with stand 7 if pvt allows. then access thru stand 8. A lot of birch along ridge dropping to stand 22.
7	4119 - Mixed Northern Hardwoods	High Density Pole	5.4	93	111-140		nice stand with large oak. Needs to be thinned. Put with adjacent cuts. Access from the east.
8	4131 - Aspen, Oak	Medium Density	2.7	14			Opening with some aspen/mix scattered mostly around the edges.
10	6120 - Lowland Cedar	High Density Pole	28.8	103			
11	6120 - Lowland Cedar	Medium Density Pole	14.8	114			
12	6139 - Mixed Lowland Forest	High Density Pole	33.4	118			
13	6117 - Lowland Deciduous, Mixed Coniferous	High Density Sapling	83.0	19			alot of small w.b with aspen. Scattered large BAM, cedar and Tamarak. Wet grass underneath, WET!
14	4193 - Birch, Aspen	High Density Sapling	46.9	14			Southern part of stand has a heavier red pine component.
15	6120 - Lowland Cedar	Medium Density Pole	31.3	119			edge call mostly cedar with black spruce and tamarack and scattered white pine.
16	6128 - Lowland Coniferous, Mixed Deciduous	High Density Pole	16.5	83			
17	42310 - Planted Spruce	Medium Density Pole	56.0	61	51-80		Thinned not too long ago. Trees have room to grow for 10yrs.
18	6129 - Mixed Coniferous Lowland Forest	High Density Pole	39.0	116			
20	6120 - Lowland Cedar	High Density Pole	24.6	103			



Stand	Sault Ste. Marie Mgt. Unit		5 – Forested Stands			Compartment: 061	General Comments:
	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Year of Entry: 2013	
21	4191 - Mixed Upland Deciduous with Conifer	Medium Density	43.6	19			Open area filling in with a mix of small trees. Scattered large oak.
22	6129 - Mixed Coniferous Lowland Forest	Low Density Pole	64.0	106			Scattered pole timber with thick 10-20' tall regen underneath. Saw a hawk, 2nd living creature spotted today other was forest tech Edison.
23	6120 - Lowland Cedar	High Density Pole	35.1	115			Some scattered pole sized tree and some scattered white birch.
24	6129 - Mixed Coniferous Lowland Forest	Medium Density Pole	51.0	121			Portions of stand could be treated 'cedar shelterwood'.
25	6120 - Lowland Cedar	High Density Pole	13.6	73			
26	6129 - Mixed Coniferous Lowland Forest	High Density Sapling	3.8	76			some scattered pole sized trees.
27	6121 - Tamarack	Low Density Pole	82.4	99			
28	6122 - Black Spruce	High Density Pole	12.9	123			Some decent B.spruce, might be on the small side would want to set up with other wood to sell. I didn't walk into the southern portion of stand.
29	6129 - Mixed Coniferous Lowland Forest	High Density Sapling	29.7	115			Some scattered pole sized trees.
30	6120 - Lowland Cedar	High Density Pole	102.8	134	111-140		Stand has some black ash, pockets of heavy stocking. bunchberries along the road. NE corner of stand is heavier to tamarack.
31	6120 - Lowland Cedar	High Density Pole	79.7	104			Small dia. cedar with Tam. Spruce mix.
33	6128 - Lowland Coniferous, Mixed Deciduous	Medium Density Pole	10.8	111			soft maple and balsam fir are coming up underneath. Traces of Yellow birch in stand.
34	6120 - Lowland Cedar	Medium Density Pole	185.8	130			Some pockets of C6. Parts of stand looks operable near the road. Decent cedar regen.
35	6120 - Lowland Cedar	Medium Density Pole	119.7	114	51-80		heavy cedar regen in open areas. Mostly sparse spruce and cedar. Paper birch present in higher areas and along rd.
37	6120 - Lowland Cedar	High Density Pole	136.1	114			Similar stand to 45 but more white pine.
38	6120 - Lowland Cedar	High Density Pole	95.9	126	81-110		Wet! cedar has a lot of tipped windthrow. Large white pine remain, scattered r.m. in drier areas.



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Sault Ste. Marie Mgt. Unit

5 – Forested Stands

Compartment: 061
Year of Entry: 2013



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
39	6120 - Lowland Cedar	Low Density Pole	16.3	74		Very small/sparse wood along river corridor. Some deciduous aspen, birch, bam.
40	6120 - Lowland Cedar	Medium Density Pole	39.1	123		Mostly cedar - smaller dia less than 2 sticks. Cedarregen coming in thick in places.



Stand	Cover Type	Acres	Managed Site	Management Priority (Objective)	General Comments:
4	622 - Lowland Shrub	1.1			
9	622 - Lowland Shrub	8.7			
19	623 - Emergent Wetland	7.8			
32	622 - Lowland Shrub	30.1			
36	622 - Lowland Shrub	11.4			



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	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.