Sault Ste Marie Forest Management Unit
Compartment Review Presentation
Compartment #187 Entry Year: 2014
Compartment Acreage: 2,479 County: Mackinac

Revision Date: 7/9/2012

Stand Examiner: Matt Edison

Legal Description: T43N-R11W, Section 5-8 & 17-20, Newton Township
T44N-R11W, Section 31 & 32 Portage Township

RMU (if applicable): Milakokia Lakes

Management Goals: This entry management will focus on harvesting mature Aspen and Spruce/Fir and encourage natural regeneration. Thinning of a Northern Hardwood stand is planned to improve stand quality and promote uneven aged management.

Soil and Topography: The topography of the compartment is primarily level ground. Low-lying wet ground with slightly higher dry ground. The soils present within the compartment are as follows: Markey and Carbondale Mucks, Springlake, Heinz sandy loam, Angellica Muck, Greylock sandy loam, Mattix sandy loam, Guardlake fine sandy loam, Spot-Finch complex, Leafriver mucky peat, Kalkaska sand, Iosco sand, Paquin-Finch, and Eastport-Leafriver.

Ownership Patterns, Development, and Land Use in and Around the Compartment: This compartment is large in area because it contains a large amount of Private holdings within. The compartment takes in parts of 9 different sections. There are some residential properties along the west (H-33) and east (North Gould City Road) edges of the compartment. The majority of the private land is undeveloped and used primarily for hunting/ recreation. The compartment is surrounded on all sides by private land.

Unique, Natural Features: From MNFI- There are records of numerous Osprey and Great Blue Herron Rookeries within and around the compartment. There is potential for numerous threatened and endangered plants/ communities associated with cedar types. There is also potential for Red Shoulder and Goshawk within the Northern Hardwood cover types. There is potential for wood turtle along Rock River.

Archeological, Historical, and Cultural Features: There is a gravel and cement product producing operation adjacent to the compartment to the west.

Special Management Designations or Considerations: None

Watershed and Fisheries Considerations: This compartment contains reaches of Norton Creek and the Rock River. Implementation of BMP's will aid in preventing sediment input from road crossings and upland areas are critically important to protect spawning areas for trout and other stream-resident fishes. Buffering the river is also critical to ensure future inputs of woody material to the stream channel, discourage aspen regeneration close to the stream channel, and provide shading to protect water temperature from warming to a degree that will inhibit trout survival.

Wildlife Habitat Considerations: This compartment is within the Milakokia Lake Management Area. The compartment is composed of disjunct ownerships east and southeast of South Manistique Lake. The largest portion is dominated by lowland. Forested stands are dominated by black spruce and cedar. Aspen, balsam fir, and red maple are common in remaining upland areas. Other parts of the compartment further north are dominated by cedar in lowlands followed by aspen, northern hardwoods, and mixed stands on higher ground. Much of the compartment is part of a deer wintering complex.
Wildlife objectives include maintaining the cedar and lowland conifer cover where it occurs for wintering deer as well as bobcat and other species, harvesting stands during the winter to allow tops to be available as browse during these critical months, and encouraging stand diversity in a small northern hardwood stand. Aspen-dominated stands will be left to continue maturing, providing habitat for ruffed grouse, woodcock, and other species. Wetlands will be buffered appropriately to protect these features. Additional species benefitting from management in the compartment include snowshoe hare, wolf, coyote, beaver, and numerous neotropical migratory birds.

Mineral Resource and Development Concerns and/or Restrictions: Surface sediments consist of lacustrine (lake) sand and gravel and peat and muck, some is thin to discontinuous over bedrock. The glacial drift thickness varies between 10 and 100 feet. The Silurian Burnt Bluff Group subcrops below the glacial drift. The Burnt Bluff is quarried for stone/limestone six miles to the southwest at the Inland Quarry. Gravel pits are located throughout the area and there appears to be potential on the upland areas. There is no economic oil and gas production in the UP.

Vehicle Access: Vehicle access is very limited to the interior parts of the compartment. Mackinac County Road H-33 runs North/South along the west border of the compartment and is a paved all season road. North Gould City Road runs North/South along the east border of the compartment and is a year round restricted gravel road. There are some two tracks that allow access to the interior parts of the compartment, but all pass through private property, some gated.

Survey Needs: Some blue line work will be needed for treatments this entry.

Recreational Facilities and Opportunities: Hunting and trapping opportunities exist within the compartment where access allows.

Fire Protection: The compartment cover types and low ground limit potential for any large scale fire problems. The potential for fire exists where human activity is present and in adjoining private lands. Access would be a problem for any fires occurring in the compartments interior. Vehicle access is very limited. Any fires in the lower areas would pose potential mop-up problems. Water sources include Norton Creek and possibly Rock River and surrounding marsh area. Newton Township Volunteer Fire Department is located in Gould City, about 1 mile to the south of the compartment.

Additional Compartment Information:

- **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**

Cover Type & Treatment Map

Compartment: 187
T43N R11W Sec. 5, 6, 8, 17 - 20
T44N R11W Sec. 31, 32
County: Mackinac
Unit: Sault Ste. Marie
YOE: 2014
Acres: 2,479 GIS Calculated
Examiner: Matt Edison
Map Revised: 08/08/2012
Map Phase: Pre-Review

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

31 32 6 5 8 18 17 19 20

1 310-G0
2 6120-C6
3 6124-Q5
4 6120-C6
5 629-L0
6 4191-MD6
7 6120-C6
8 4112-M6
9 6120-C6
10 4233-F5
11 6120-C6
12 6117-E5
13 629-L0
14 4191-MD6
15 6120-C6
16 6130-LM2
17 4134-A6
18 4134-A6
19 6120-C6
20 4319-UM6
21 330-U0
22 110-X0
23 4130-A6
24 6120-C5
25 4233-F6
26 4134-A3
27 4119-M6
28 4112-M6
29 4234-F6
30 4119-M6
31 4134-A6
32 6117-E5
33 6122-S5
34 6122-S5
35 6120-C5
36 500-Z0
37 629-L0
38 6128-Q3
39 4319-UM6
40 629-L0
41 629-L0
42 4191-MD3
43 6128-Q5
44 6129-Q5
45 4233-F5
46 4130-A3
47 310-G0
48 6122-S5
49 4319-UM3
50 4134-A6
51 4134-A6
52 500-Z0

Norton Rd
Brotherton Rd
Harrington Rd
Manistique Lakes Rd
N Goulais City Rd
Furlong P
Furlong Creek
Taylor Creek

85°45'0"W 85°44'0"W 85°43'0"W 85°42'0"W 85°41'0"W
46°10'0"N 46°9'0"N 46°8'0"N 46°7'0"N 46°6'0"N

Legend

- Miris Corners
- Remonumented Section Corners
- Pipeline
- Powerline
- Paved Roads
- Gravel Roads
- Poor Dirt Roads
- Snowmobile Trail
- Stream
- Intermittent Stream
- Lakes and Rivers

Treatments
- Clearcut (w/Reserves, Patch/Strip)
- Selection (Group, Single Tree)

Forest Stands
Level 3
- 411 - Northern Hardwood
- 413 - Aspen Types
- 419 - Mixed Upland Deciduous
- 423 - Other Upland Conifers
- 431 - Upland Mixed Forest
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 613 - Lowland Mixed Forest

Non-Forest Stands
Level 3
- 110 - Low Intensity Urban
- 122 - Road/Parking Lot
- 310 - Herbaceous Openland
- 330 - Low-Density Trees
- 500 - Water
- 629 - Mixed non-forested wetland
- State Forest Land

1 0.5 0 1 Miles

Stand Boundary Map

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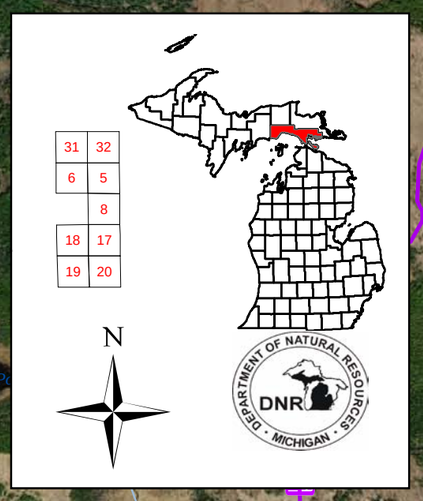

Legend
- Miris Corners
- Remonumented Section Corners
- Paved Roads
- Gravel Roads
- Poor Dirt Roads
- Snowmobile Trail
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- Stand Boundaries

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1 0.5 0 1 Miles

Mitten Lake
Furlong Creek
Norton Rd
Manistique Lakes Rd
Nicholson Rd

Dedicated & Proposed Special Conservation Area Map

Compartment: 187
T43N R11W Sec. 5, 6, 8, 17 - 20
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Examiner: Matt Edison
Map Revised: 08/08/2012
Map Phase: Pre-Review

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

Legend
- Miris Corners
- Remonumented Section Corners
- Stand Boundaries

Proposed Special Conservation Areas
- SCA - Special Conservation Area
- SCA Removal

Dedicated Special Conservation Areas
- Cold Water Streams
- Deer Wintering Areas

Forest Stands
- Level 3
  - 411 - Northern Hardwood
  - 413 - Aspen Types
  - 419 - Mixed Upland Deciduous
  - 423 - Other Upland Conifers
  - 431 - Upland Mixed Forest
  - 611 - Lowland Deciduous Forest
  - 612 - Lowland Coniferous Forest
  - 613 - Lowland Mixed Forest

Non-Forest Stands
- Level 3
  - 110 - Low Intensity Urban
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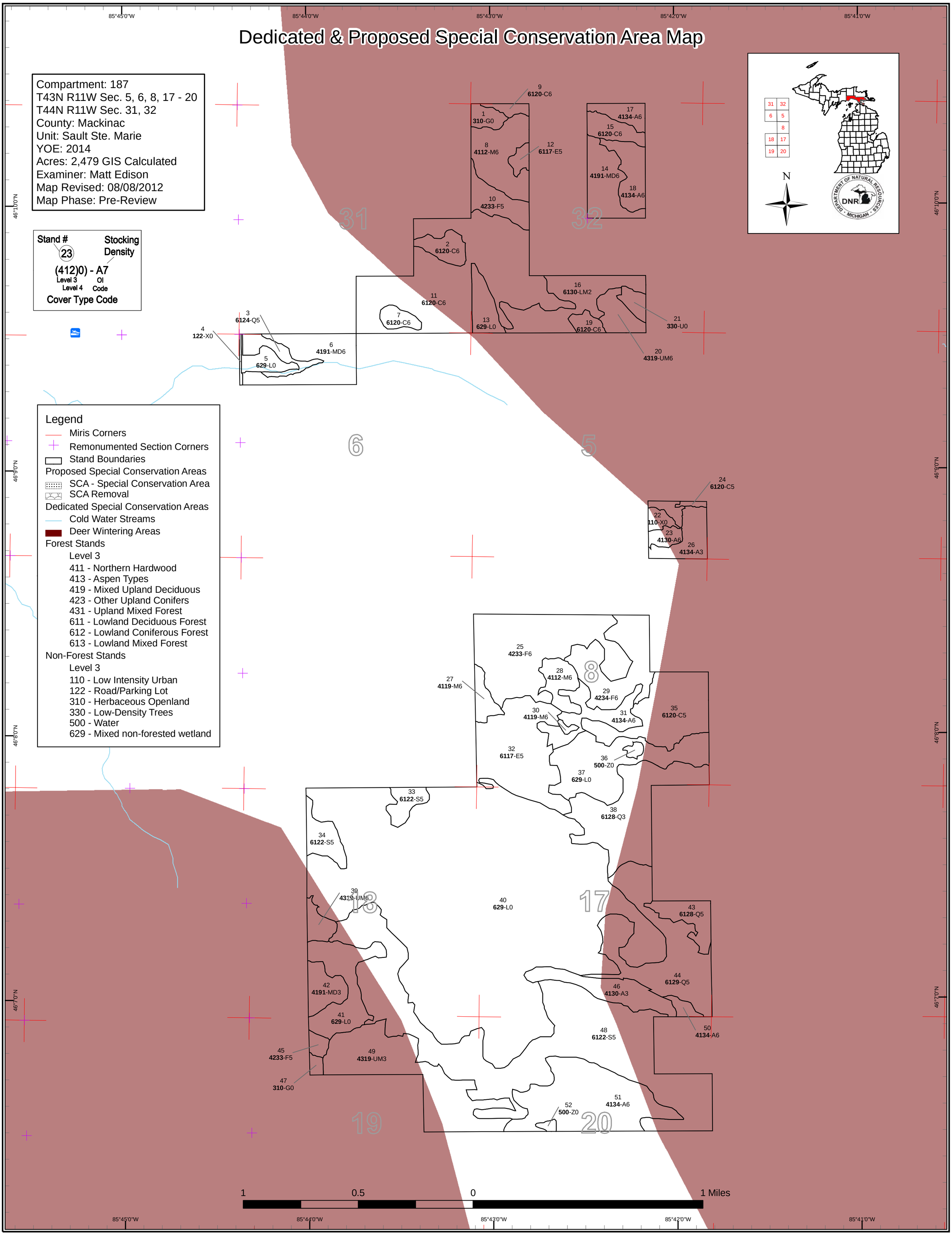

Table 1 – Total Acres by Cover Type and Age Class

Sault Ste. Marie Mgt. Unit **Compartment 187 Year of Entry 2014**

Matthew Edison : Examiner

Age Class

	0-9	10-19	20-29	30-39	40-49	50-59	60-69	70-79	80-89	90-99	100-109	110-119	120 +	Uneven Age	Total
Aspen	53	0	138	39	0	0	0	0	0	0	0	0	0	0	**230**
Cedar	0	0	0	0	0	0	0	0	16	7	251	5	0	0	**278**
Herbaceous Openland	11	0	0	0	0	0	0	0	0	0	0	0	0	0	**11**
Low-Density Trees	7	0	0	0	0	0	0	0	0	0	0	0	0	0	**7**
Lowland Conifers	0	82	0	13	20	0	0	89	0	0	0	0	0	0	**204**
Lowland Deciduous	0	0	5	0	0	0	84	0	0	0	0	0	0	0	**89**
Lowland Mixed Forest	0	48	0	0	0	0	0	0	0	0	0	0	0	0	**48**
Lowland Shrub	826	0	0	0	0	0	0	0	0	0	0	0	0	0	**826**
Lowland Spruce/Fir	0	0	0	0	0	0	17	12	271	0	0	0	0	0	**300**
Mixed Upland Deciduous	0	0	50	0	0	0	46	0	0	0	0	0	0	0	**96**
Northern Hardwood	0	0	0	0	0	0	29	41	0	0	0	0	0	0	**71**
Upland Mixed Forest	94	0	26	0	0	0	0	0	0	0	0	0	0	0	**120**
Upland Spruce/Fir	0	0	0	80	107	0	0	0	0	0	0	0	0	0	**186**
Urban	7	0	0	0	0	0	0	0	0	0	0	0	0	0	**7**
Water	5	0	0	0	0	0	0	0	0	0	0	0	0	0	**5**
Total	**1004**	**130**	**219**	**132**	**126**	**0**	**177**	**143**	**287**	**7**	**251**	**5**	**0**	**0**	**2479**

Table 2 – Proposed Treatment Summaries

Sault Ste. Marie Mgt. Unit
Year of Entry 2014

Compartment 187
Total Compartment Acres: 2479

Acres by Treatment Type

Commercial Harvest - 52	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
Northern Hardwood	0	10	0	0	0	0	**10**
Upland Spruce/Fir	41	0	0	0	0	0	**41**
Total	**41**	**10**	**0**	**0**	**0**	**0**	**52**

Stand	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
25	45187025-Cut_small	41.3	42330 - Upland Fir	High Density Pole	44	51-80	Harvest	Clearcut with Reserves	4131 - Aspen, Oak	Cmpt. Review Proposal

Prescription Specs: Clearcut with reserves following the retention guideline. Some pockets where balsam/spruce and aspen are immature should be retained. Also leave some clumps of mature aspen and balsam/spruce for retention. Do not cut any cherry or white pine. Winter cut, no chipping during winter.

Other Comments:

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

Proposed Start Date: 10/01/2013

Stand	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
27	45187027-Cut	10.2	4119 - Mixed Northern Hardwoods	High Density Pole	68	111-140	Harvest	Single Tree Selection	4110 - Sugar Maple Association	Cmpt. Review Proposal

Prescription Specs: Thin stand to approximately 80 basal area. Mrk according to compleat marker guidelines and consider retention guidelines. Favor any mast producing speceies while marking. Winter cut, no chipping during winter.

Other Comments:

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

Proposed Start Date: 10/01/2013

Total Treatment Acreage Proposed: 51.5

Table 4 -- Treatments Prescribed with a Limiting Factor

Stand	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
			#Error							

Prescription Specs:

Other Comment:

Next Steps:

Proposed Start Date: #Error

Limiting Factor and No Treatment Reason

Total Treatment Acreage Proposed: **0**

Out of YOE -- Treatments
Prescribed with No Limiting Factor

Year of Entry: 2014

Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
45104_OutOfY OE-Cut	19.8					Harvest	Crown Thinning	42110 - Planted Red Pine	Cmpt. Review Proposal

Prescription Specs: Thin to around 120 Basal Area. Leave species diversity within the stand were present.

Other Comments: This was a buffer left along the creek from a sale called Golden Eagle.

Next Steps:

Proposed Start Date: 10/01/2013

45152062-Cut	5.5	4115 - Y.Birch, Hemlock NH	High Density Log	76		Harvest	Clearcut with Reserves	4115 - Y.Birch, Hemlock NH	Cmpt. Review Proposal

Prescription Specs: Clear Cut the stand leaving all white pine, hemlock, cedar and yellow birch. Also, leave one healthy, mature red maple, black cherry, spruce, fir, paper birch or sugar maple in order to retain a representation of the stand.

Other Comments: cut with adjacent compartment.

Next Steps: Check for regeneration in 4-5 years. Acceptable regeneration will include red maple, yellow birch, hemlock, white pine, black cherry, sugar maple, aspen, ash, beech, and balsam fir.

Proposed Start Date: 10/01/2011

45157_OutOfY OE-Cut	0.7					Harvest	Low Thinning	42110 - Planted Red Pine	Cmpt. Review Proposal

Prescription Specs: Thin to around 120 Basal Area. Leave species diversity within the stand where present.

Other Comments: cut with stand 1 in comp 158.

Next Steps:

Proposed Start Date: 10/01/2013

45195_OutOfY OE-Cut	27.3					Harvest	Single Tree Selection	4111 - S.Maple, Hard Mast Association	Cmpt. Review Proposal

Prescription Specs: Cut all of the beech in the stand. Mark 2-3 beech to leave when cruising.

Other Comments: Beech bark disease is affecting the beech within this stand.

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 and white pine.

Proposed Start Date: 10/01/2013

45202_OutOfY OE-Cut	449.6					Harvest	Single Tree Selection	4111 - S.Maple, Hard Mast Association	Cmpt. Review Proposal

Prescription Specs: Cut all beech in the stand. While cruising mark 2-3 beech per acre to leave.

Other Comments: Beech bark disease is present in the stand.

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 and white pine.

Proposed Start Date: 10/01/2012

Out of YOE -- Treatments
Prescribed with No Limiting Factor

Year of Entry: 2014

Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
Total Treatment Acreage Proposed:	**502.9**								

Data updated before 2:00 PM

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
2	6120 - Lowland Cedar	High Density Pole	13.6	100	81-110	Stand is mix of cedar, and wetland spruce. Sparse stocking and tag alde in open wet areas.
3	6124 - Lowland Spruce-Fir	Medium Density Pole	13.1	33		Stand buffers Norton Creek and is low an sometimes floodes. Some conifer and poor quality birch and ash are scattered.
6	4191 - Mixed Upland Deciduous with Conifer	High Density Pole	46.3	61	111-140	Extremely variable stand of complete mix of conirer and lowland deciduous. Poor quality trees throughout most of the stand. Not much merchantability here.
7	6120 - Lowland Cedar	High Density Pole	8.5	100	81-110	Stand is island witin large cedar stand. A little bit higher gorund make sthis tand have more balsam and a little birch. No access at all.
8	4112 - Maple, Beech, Cherry Association	High Density Pole	41.5	75	81-110	Very nice stand of large Hard Maple and some mix of hemlock. Thinned in 2010.
9	6120 - Lowland Cedar	High Density Pole	5.0	115	141-170	Stand of dense cedar along hardwood edge. Major dropoff from ridge of hardwood to cedar.
10	42330 - Upland Fir	Medium Density Pole	20.5	30		Stand is small diameter balsam mixed with aspen regen and opening.
11	6120 - Lowland Cedar	High Density Pole	164.6	106	141-170	Stand of thick cedar, with not much else in spots. Small diameter trees and some areas that are very wet...
12	6117 - Lowland Deciduous, Mixed Coniferous	Medium Density Pole	5.3	20		Very small diameter, poor quality lowland deciduous and conifer. Hummocky and wet.
14	4191 - Mixed Upland Deciduous with Conifer	High Density Pole	32.2	20		Very thin hardwood stand is filling in with poor quality aspen and cherry brush. A lot of conifer remains from before cut.
15	6120 - Lowland Cedar	High Density Pole	14.2	86	141-170	Cedar stand of small diameter trees. Edge of steep dropoff from ridge. Pretty wet ground, some tag alder in open areas.
16	6130 - Fir, Aspen, Maple	Medium Density	47.7	18		Regeneration of mixed lowland deciduous types, aspen, birch, balm. Sparse density in places. Wet.
17	4134 - Aspen, Spruce/Fir	High Density Pole	12.0	31	141-170	Stand of pole aspen. Not quite ready for treatment, check in 10 years.
18	4134 - Aspen, Spruce/Fir	High Density Pole	22.2	31	141-170	Stand was cut in 1981. Mixed regen. Still small diameter, check in 10 years.
19	6120 - Lowland Cedar	High Density Pole	6.7	96		Small diameter cedar mixed with balsam and aspen/spruce. Small stand.

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
20	4319 - Mixed Upland Forest	High Density Pole	16.2	27	141-170	Mixed stand of aspen regen with mix of spruce and balsam throughout.
23	4130 - Aspen	High Density Pole	12.4	27	111-140	Stand was cut in 1985. Nice looking aspen poles. Check in 10 years.
24	6120 - Lowland Cedar	Medium Density Pole	1.8	80	51-80	Strip of cedar that was left from adjacent harvest. Apparent Tresspass of cabin onthis line. Aspen regen sneaking into open areas of strip.
25	42330 - Upland Fir	High Density Pole	106.5	44	51-80	Stand varies from east to west...pockets of aspen regen throughout. West part has dense aspen for a sale.
26	4134 - Aspen, Spruce/Fir	High Density Sapling	20.9	7		Stand was cut in 2005. Good looking aspen regen with mix of spruce and balsam.
27	4119 - Mixed Northern Hardwoods	High Density Pole	10.2	68	111-140	Medium quality hardwoods mixed with some balsam and birch.
28	4112 - Maple, Beech, Cherry Association	High Density Pole	17.3	63	81-110	Small stand of hardwood that was thinned before last entry. Basal areas are still lower. Check in 10 years.
29	42340 - Upland Spruce/Fir	High Density Pole	54.6	31		Stand was cut in 1981. Aspen regen with mix of spruce and balsam.
30	4119 - Mixed Northern Hardwoods	High Density Pole	1.7	60	81-110	Small stand of hardwood mixed with balsam and spruce.
31	4134 - Aspen, Spruce/Fir	High Density Pole	29.1	25	111-140	Stand is good looking aspen regen. with a mix of spruce and fir. Was cut in 1987.
32	6117 - Lowland Deciduous, Mixed Coniferous	Medium Density Pole	84.1	64	51-80	Mixed stand of lowland deciduous types . A lot of dead snags and poor quality balm. Some clumps of redmmaple. Very wet ground. Not much merchantability or productivity.
33	6122 - Black Spruce	Medium Density Pole	12.2	71	1-50	Stand is island of black spruce surrounded by wetland. Absolutely no access, poor quality and unmerchantable.
34	6122 - Black Spruce	Medium Density Pole	17.1	66	51-80	Small stand of small diameter, poor quality spruce and balsam with some cedar. Absolutely inaccesible and unmerchantable.
35	6120 - Lowland Cedar	Medium Density Pole	63.8	108	51-80	Wetland cedar mixed with some tamarack and balsam and spruce. Balm near edge.....
38	6128 - Lowland Coniferous, Mixed Deciduous	High Density Sapling	81.9	16		Stand was cut in 1996. Mix of lowland deciduous types and tamarack and balsam and spruce.
39	4319 - Mixed Upland Forest	High Density Pole	9.8	22		Stand was cut in 1990. Regen is mix of aspen, spruce and balsam and some red maple.

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
42	4191 - Mixed Upland Deciduous with Conifer	High Density Sapling	17.7	22		Stand was cut in 1990. Total mix of maple and balsam with some aspen regen and spruce.
43	6128 - Lowland Coniferous, Mixed Deciduous	Medium Density Pole	19.9	48	51-80	Variable stand of small diameter mix of deciduous types and lowland conifer. Some tamarack and cedar.
44	6129 - Mixed Coniferous Lowland Forest	Medium Density Pole	89.4	78	51-80	Very wet stand of small diameter spruce, tamarack, and some cedar.
45	42330 - Upland Fir	Medium Density Pole	4.8	30		Stand of sparse balsam, aspen mix.
46	4130 - Aspen	High Density Sapling	32.2	7		Stand was cut in 2005. Mixed regen looks good.
48	6122 - Black Spruce	Medium Density Pole	271.0	83	51-80	Large stand of wet ground. Lowland spruce mixed with some tamarack and cedar. Scattered aspen where some high pockets. Edge of huge wetland.
49	4319 - Mixed Upland Forest	High Density Sapling	94.4	4		Stand was cut in 2009. Aspen regen with mix of spruce and balsam is coming in well.
50	4134 - Aspen, Spruce/Fir	High Density Pole	4.7	36	111-140	Small stand of small diameter aspen regen with mix of spruce and balsam. Cut in 1976.
51	4134 - Aspen, Spruce/Fir	High Density Pole	96.0	25		Stand was cut in 1987. Mix of aspen regen with spruce and balsam.

Stand	Cover Type	Acres	Managed Site	Management Priority (Objective)	General Comments:
1	310 - Herbaceous Openland	8.4	N\A	Unspecified	
4	122 - Road/Parking Lot	1.3	N\A	Unspecified	
5	629 - Mixed non-forested wetland	11.2	N\A	Unspecified	
13	629 - Mixed non-forested wetland	16.6	N\A	Unspecified	
21	330 - Low-Density Trees	7.2	N\A	Unspecified	
22	11 - Low Intensity Urban	5.6	N\A	Unspecified	
36	50 - Water	2.7	N\A	Unspecified	
37	629 - Mixed non-forested wetland	70.1	N\A	Unspecified	
40	629 - Mixed non-forested wetland	683.4	N\A	Unspecified	
41	629 - Mixed non-forested wetland	44.6	N\A	Unspecified	
47	310 - Herbaceous Openland	3.1	N\A	Unspecified	
52	50 - Water	2.1	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.