Compartment Review Presentation

Sault Ste. Marie Forest Management Unit

Compartment 102
Entry Year 2015
Acreage: 1,911
County Mackinac
Management Area: Carp River Red Pine

Revision Date: 07/08/2013

Stand Examiner: Matthew Edison

Legal Description:

T42N-R6W, Sections 10, 11, 14 & 15

Identified Planning Goals:

Compartment 102 is located 1 mile due north of Brevort, MI and U.S. Highway 2. Management this entry will include; selection cuts of northern hardwood stands to improve quality, promote growth and to salvage remaining Beech. These selections will favor the retention of species such as hemlock, yellow birch, black cherry, etc. There are final harvests scheduled for a mature Aspen mix stand to promote stand regeneration. Final harvest of a small red pine/jack pine mixed stand is planned and follow up will include scarification to promote natural regeneration of jack pine. Another final harvest is planned for a mature white spruce plantation. This stand will also be scarified and left to natural regeneration following harvest. Monitoring and treatment for pests is also planned for the red pine plantations in the compartment.

Soil and topography:

The topography of this compartment is generally flat-rolling, with the exception of the Little Brevort River & Flood Plain that meanders flowing west to east through the heart of the compartment. There are areas along the Little Brevort where there are significantly high, steep banks.
The soils of the compartment are dominated by Wallace sands in the upland areas. There are some wetter soil types (Spot-Finch, Markey-Carbondale mucks) adjoining and within the Little Brevort River corridor.

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

There are substantial areas of private holdings, which outline the southern boundary of the compartment. The majority of the area under private ownership is northern hardwood forest and being actively managed. There are some residences along the Carp River Truck Trail and Worth Road (south of the compartment). There are two 40 acre parcels held by Sand Products Inc. in the northwest part of the compartment. There are no signs of development on these properties at this time. Surrounding the compartment the only private ownership is to the south (U.S.-2, Brevort). State owned lands entirely border the compartment to the north and west.

Unique Natural Features:

There is a potential for rare threatened or endangered plant and animal species within the compartment. Any management will be according to work instructions and guidelines for any species found.

Archeological, Historical, and Cultural Features:

There are known concerns within the compartment. All proposed management activities have taken these concerns into consideration.

Special Management Designations or Considerations:

None

Watershed and Fisheries Considerations:

This compartment contains a reach of the Little Brevoort River. Previous surveys have captured brook trout, brown trout, central mudminnow, creek chub, northern pike, sculpins, and American brook lamprey. Implementation of BMP's that 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 and provide shading to protect water temperature from warming to a degree that will inhibit trout survival.

Wildlife Habitat Considerations:

This compartment is part of the Carp River Red Pine Management Area. In this compartment, northern hardwoods and aspen are common. Most aspen stands are young. The Little Brevoort River and an associated band of lowland mixed conifer riparian area runs across the compartment. These habitat components favor species like marten, blackburnian warbler, bobcat, and black bear. Some northern hardwoods will be treated to encourage new growth, improving the age class and structural diversity of these stands while retaining some larger trees and mast-producing species. These

activities will benefit red-shouldered hawks, black bear, and other species.

Mineral Resource and Development Concerns and/or Restrictions

Surface sediments consist of lacustrine (lake) sand and gravel. The glacial drift thickness varies between insufficient data to determine and 100 feet. The Silurian Engadine Group subcrops below the glacial drift. The Engadine is quarried for stone/limestone six miles to the northeast. A gravel pit is located to the south and there may be some gravel potential. There is no economic oil and gas production in the UP.

Vehicle Access:

Vehicle access is good into and throughout the compartment. The Carp River truck Trail runs north-south through the compartment and is the main access to the compartment from these directions. Carp River Truck Trail can be accessed from the south via Worth Road (paved), which is ½ mile south of the compartment. US-highway 2 is located approximately 1/2 mile south of Worth Road. Within the compartment there are numerous two tracks and logging roads that make access to most areas possible. Miller Truck Trail enters the compartment from the west and intersects with Carp River Truck Trail providing compartment access from the west. Goodreau Road runs along the north boundary of the compartment crossing Carp River Truck Trail providing access from the east and west

Survey Needs:

There will be blue line needed this entry for timber sale prep. There should be adequate corners for this entry.

Recreational Facilities and Opportunities:

The only developed recreation facilities within this compartment are snowmobile trails 473, 470, and 2.

Fire Protection:

Access is good within this compartment and should make it relatively easy to access most areas. The predominant cover type in the compartment is northern hardwoods, but there are large areas of open grass and some pine that could be potential fire concerns. Water source access is excellent as the Little Brevort River runs east/west through the center of the compartment. The bridge crossing the river on Carp River Truck Trail has been used as a water source area for previous fires and prescribed burns.

Additional Compartment Information:

The following reports from the Inventory are attached:

- **Total Acres by Cover Type and Age Class**
- **Cover Type by Harvest Method**
- **Proposed Treatments – No Limiting Factors**
- **Proposed Treatments – With Limiting Factors**
- **Stand Details (Forested and Nonforested)**
- **Dedicated and Proposed Special Conservation Areas**
- **Site Condition Details**

The following information is displayed, where pertinent, on the attached compartment maps:

- **Base feature information, stand boundaries, cover types, and numbers**
- **Proposed treatments**
- **Site condition boundaries**
- **Details on the road access system**

Cover Type & Treatment Map

Compartment: 102
T42N R06W Sections 10, 11, 14, 15
County: Mackinac
Unit: Sault Ste. Marie
YOE: 2015
Acres: 1,911 GIS Calculated
Examiner: Matthew Edison
Map Revised: 06/17/2014
Map Phase: Post-Review

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

Ozark Rd
Burma Rd
Miller Rd
Dump Rd
Spencer Rd
Worth Rd
Wildwood Dr

1 4229-MC6
2 4116-M2
3 4139-A3
4 310-G0
5 4130-A3
6 4229-MC6
7 622-L0
8 4211-R3
9 4231-F6
10 4130-A3
11 4134-A6
12 310-G0
13 4130-A3
14 4112-M8
15 4220-W9
16 4130-A3
17 4191-MD3
18 6124-Q6
19 4319-UM6
20 4112-M2
21 310-G0
22 4112-M6
23 4110-M9
24 4139-A3
25 310-G0
26 629-L0
27 622-L0
28 4130-A3
29 4139-A3
30 310-G0
31 4116-M3
32 629-L0
33 4319-UM3
34 4113-M9
35 4110-M6
36 310-G0
37 4112-M6
38 6117-E3
39 4136-A3
40 4191-MD3
41 4112-M6
42 4116-M3
43 629-L0
44 4139-A3
45 629-L0
46 4112-M6
47 4112-M9
48 310-G0
49 4191-MD3
50 4112-M9
51 122-X0

15 14 10 11

Legend

- Miris Corners
- Remonumented Section Corners
- Survey Grade
- PLSS Corner
- Motorcycle Trails (DNR License)
- Hiking Trails
- Snowmobile Trails
- Highway
- County Paved Roads
- Paved Roads
- County Gravel Roads
- Gravel Roads
- Poor Dirt Roads
- County Poor Dirt Roads
- Trail (Non-Recreation)
- Closed Roads
- Pipeline
- Hiking Trail
- Motorcycle (DNR License)
- Snowmobile Trail
- Stream
- Intermittent Stream
- Lakes and Rivers
- State Forest Land

Treatments Post Review
- Clearcut (w/Reserves, Patch/Strip)
- Thinning (Crown, Low, Systematic)
- Selection (Group, Single Tree)
- Other Harvest - See Comments

Forest Stands
Level 3
- 411 - Northern Hardwood
- 413 - Aspen Types
- 419 - Mixed Upland Deciduous
- 421 - Planted Pines
- 422 - Natural Pines
- 423 - Other Upland Conifers
- 431 - Upland Mixed Forest
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest

Non-Forest Stands
Level 3
- 122 - Road/Parking Lot
- 310 - Herbaceous Openland
- 622 - Lowland Shrub
- 629 - Mixed non-forested wetland

10 11 / 15 14
N
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1 0.5 0 1 Miles

46°4'0"N · 46°3'0"N · 46°2'0"N · 46°1'0"N
85°3'0"W · 85°2'0"W · 85°1'0"W

Stand Boundary Map

Compartment: 102
T42N R06W Sections 10, 11, 14, 15
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YOE: 2015
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Examiner: Matthew Edison
Map Revised: 06/17/2014
Map Phase: Post-Review

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(412)0) - A7
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85°3'0"W 85°2'0"W 85°1'0"W
46°4'0"N 46°3'0"N 46°2'0"N 46°1'0"N

Jackson Trl
Ozark Rd
Burma Rd
Miller Rd
Dump Rd
Worth Rd
Wildwood Dr
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2 4116-M2
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10 11 15 14

Legend

- Miris Corners
- Remonumented Section Corners
- Survey Grade
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- Intermittent Stream
- Stand Boundaries

Forest Stands
Level 3
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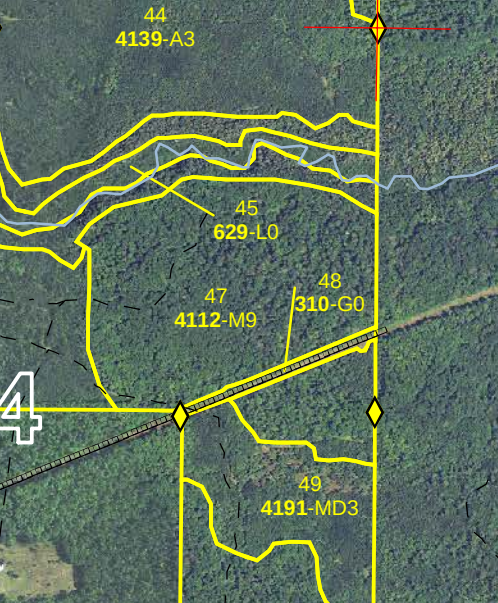
413 - Aspen Types
419 - Mixed Upland Deciduous
421 - Planted Pines
422 - Natural Pines
423 - Other Upland Conifers
431 - Upland Mixed Forest
611 - Lowland Deciduous Forest
612 - Lowland Coniferous Forest

Non-Forest Stands
Level 3
122 - Road/Parking Lot
310 - Herbaceous Openland
622 - Lowland Shrub
629 - Mixed non-forested wetland



1 0.5 0 1 Miles

Special Conservation Areas & Site Conditions Map

Compartment: 102
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County: Mackinac
Unit: Sault Ste. Marie
YOE: 2015
Acres: 1,911 GIS Calculated
Examiner: Matthew Edison
Map Revised: 06/17/2014
Map Phase: Post-Review

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46°4'0"N 46°3'0"N 46°2'0"N 46°1'0"N

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4 **310**-G0
5 **4130**-A3
6 **4229**-MC6
7 **622**-L0
8 **4211**-R3
9 **4231**-F6
10 **4130**-A3
11 **4134**-A6
12 **310**-G0
13 **4130**-A3
14 **4112**-M8
15 **4220**-W9
16 **4130**-A3
17 **4191**-MD3
18 **6124**-Q6
19 **4319**-UM6
20 **4112**-M2
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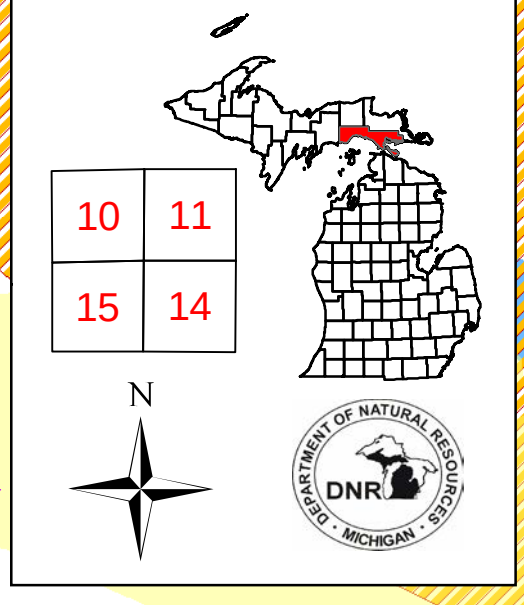
10 11 15 14

Legend

- Miris Corners
- Remonumented Section Corners
- Stand Boundaries

Dedicated Special Conservation Areas

- Cold Water Streams
- Ecological Reference Areas
- Critical Dunes
- Natural Areas Legally Dedicated
- High Priority Trout Stream Buffer



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Cover Type & Treatment Map

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- Selection (Group, Single Tree)
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- Forest Stands
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N

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1 0.5 0 1 Miles

85°3'0"W 85°2'0"W 85°1'0"W
46°4'0"N 46°3'0"N 46°2'0"N 46°1'0"N

Report 1 – Total Acres by Cover Type and Age Class

Sault Ste. Marie Mgt. Unit **Compartment 102 Year of Entry 2015**

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	22	91	176	35	17	0	0	0	0	0	0	0	0	0	**342**
Herbaceous Openland	255	0	0	0	0	0	0	0	0	0	0	0	0	0	**255**
Lowland Conifers	0	0	0	0	188	0	0	0	0	0	0	0	0	0	**188**
Lowland Deciduous	52	0	0	0	0	0	0	0	0	0	0	0	0	0	**52**
Lowland Shrub	51	0	0	0	0	0	0	0	0	0	0	0	0	0	**51**
Mixed Upland Deciduous	0	0	14	99	0	0	0	0	0	0	0	0	0	0	**114**
Natural Mixed Pines	0	0	0	0	0	0	8	0	0	0	0	0	0	0	**8**
Northern Hardwood	0	10	70	0	10	36	25	242	365	0	0	0	0	0	**759**
Red Pine	0	51	0	0	0	0	0	0	0	0	0	0	0	0	**51**
Upland Mixed Forest	0	31	0	0	0	0	0	0	20	0	0	0	0	0	**50**
Upland Spruce/Fir	0	0	0	0	0	0	37	0	0	0	0	0	0	0	**37**
Urban	1	0	0	0	0	0	0	0	0	0	0	0	0	0	**1**
White Pine	0	0	0	0	0	0	0	0	0	2	0	0	0	0	**2**
Total	**382**	**183**	**261**	**134**	**215**	**36**	**71**	**242**	**385**	**2**	**0**	**0**	**0**	**0**	**1911**

Report 2 – Proposed Treatment Summaries

Sault Ste. Marie Mgt. Unit
Year of Entry 2015

Compartment 102
Total Compartment Acres: 1,911

Acres by Treatment Type

Commercial Harvest - 471	Tree Planting - 0	Other - 0
Habitat Cut - 0	Opening Maintenance - 0	

Cover Type by Harvest Method

	Clearcut	Selection	Seed Tree	Shelterwood	Thinning	Other - Specify	Total Acres
Aspen Types	17	0	0	0	0	0	**17**
Natural Pines	8	0	0	0	0	0	**8**
Northern Hardwood	0	334	0	0	25	49	**409**
Other Upland Conifers	37	0	0	0	0	0	**37**
Total	**62**	**334**	**0**	**0**	**25**	**49**	**471**

Stand	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
6	45102006-Cut	8.0	42290 - Natural Mixed Pine	High Density Pole	66	141-170	Harvest	Clearcut with Reserves	4222 - Natural Jack Pine	Fld. Tr. Bdy. - Incomplete

Prescription Specs: Clearcut stand and scarify to promote natural jack pine regeneration. Leave some scattered Red Pine and jack pine as retention.

Other Comments:

Next Steps: Follow up harvest with scarification to promote natural jack pine and other regeneration. Acceptable regeneration will consist of any mix of jack pine, red pine, aspen, spruce, fir, maple, cherry, and birch.

Proposed Start Date: 10/01/2014

Stand	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
9	45102009-Cut	37.5	42310 - Planted Spruce	High Density Pole	61	171-200	Harvest	Clearcut with Reserves	4222 - Natural Jack Pine	Fld. Tr. Bdy. - Incomplete

Prescription Specs: Clear cut stand and follow with scarification to promote natural regeneration of existing jack pine and other species. Do not cut any bich, cherry, or white pine within the stand. Also, leave a few scatterd spruce as retention as well.

Other Comments:

Next Steps: Follow up harvest with scarification and possible seeding of jack pine. Do a regeneration survey per work instructions. Acceptable regeneration will consist of any mix of jack pine, aspen, red pine, white pine, spruce, fir, maple, cherry, and birches.

Proposed Start Date: 10/01/2014

Stand	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
11	45102011-Cut	16.7	4134 - Aspen, Spruce/Fir	High Density Pole	41	111-140	Harvest	Clearcut with Reserves	4136 - Aspen, Mixed Conifer	Fld. Tr. Bdy. - Incomplete

Prescription Specs: Clearcut stand with reserve of large spruce and representative species. Do not cut any Hemlock or white pine if present. Retain the hardwood compnent in the western part of stand. Reduce treatment area on ground to create retention area in west end of stand.

Other Comments:

Next Steps: Follow up harvest with a regeneration survey per work instructions. Acceptable regeneration will consist of any mix of aspen, spruce, fir, maple, cherry, birch, white pine, and hemlock.

Proposed Start Date: 10/01/2014

Stand	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
23	45102023-Cut	233.8	4110 - Sugar Maple Association	High Density Log	81	111-140	Harvest	Single Tree Selection	4111 - S.Maple, Hard Mast Association	Fld. Tr. Bdy. - Incomplete

Prescription Specs: Thin large variable stand to approximately 80ba by concentrating on removing salvagable beech and only any maple required to achieve desired basal area. Promote hemlock regeneration wherever possible by thining around drip edges of clumps. Use a 100' buffer along stream, use red line from ast entry if compliant with at least the 100' buffer.

Other Comments:

Next Steps: Follow up harvest with regeneration survey per work instructions. Acceptable regeneration will consist f any mix of maple, beech, hemlock, white pine, cherry, aspen, birch, or spruce/fir.

Proposed Start Date: 10/01/2014

Stand	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
34	45102034-Cut	29.6	4113 - R.Maple, Conifer	High Density Log	81	81-110	Harvest	Single Tree Selection	4112 - Maple, Beech, Cherry Association	Fld. Tr. Bdy. - Incomplete

Prescription Specs: Conduct light thinning to bring basal area to approximately 80ba. Concentrate on salvaging any viable beech first, then any required maple or other. Leave most of the conifer component in this stand. Promote hemlock regeneration wherever possible by thinning around drip edges of clumps. Do not cut any white pine or hemlock in this stand. Use the same stream buffer as last harvest (existing red lines).

Other Comments:

Next Steps: Follow up harvest with a regeneration survey per work instructions. Acceptable regeneratin will consist of any mix of maple, aspen, cherry, birch, hemlock, white pine, and spruce/fir.

Proposed Start Date: 10/01/2014

Stand	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
35	45102035-Cut	25.4	4110 - Sugar Maple Association	High Density Pole	66	81-110	Harvest	Crown Thinning	4112 - Maple, Beech, Cherry Association	Fld. Tr. Bdy. - Incomplete

Prescription Specs: Thin this pole stand to approximately 80 basal area to promote growth. harvest any salvagable beech.

Other Comments:

Next Steps: N/A

Proposed Start Date: 10/01/2014

Stand	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
47	45102047-Cut	70.7	4112 - Maple, Beech, Cherry Association	High Density Log	78	111-140	Harvest	Single Tree Selection	4111 - S.Maple, Hard Mast Association	Fld. Tr. Bdy. - Incomplete

Prescription Specs: Thin this variable stand to approximately 80ba. Concentrate selection on any salvagable beech first and then other species secondary. Use 100' stream buffer. Can use red line from previous entry if compliant with at least 100' buffer.

Other Comments:

Next Steps: Follow up harvest with regeneration survey per work instructions. Acceptable regeneration will consist of any mix of maple, beech, cherry, aspen, birches, spruce/fir, white pine and hemlock.

Proposed Start Date: 10/01/2014

Stand	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
50	45102050-Cut	49.2	4112 - Maple, Beech, Cherry Association	High Density Log	79	81-110	Harvest	Other - Specify in Comments	4111 - S.Maple, Hard Mast Association	Fld. Tr. Bdy. - Incomplete

Prescription Specs: Salvage viable beech that remains in the stand. Leave 2-3 of the healthier Beech per acre wherever possible.

Other Comments:

Next Steps: N/A

Proposed Start Date: 10/01/2014

Stand	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
8	**45102008-Monitor**	51.5	42110 - Planted Red Pine	High Density Sapling	17		Monitoring	See Comments	4211 - Planted Red Pine	Fld. Tr. Bdy. - Incomplete

Prescription Specs: Monitor for Red Headed Pine sawfly or any other pest and manage appropriately by pesticide or other approved means.

Other Comments:

Next Steps: Treat any pest outbreaks according to work instructions and approved means.

Proposed Start Date: 10/01/2013

Total Treatment Acreage Proposed: 522.3

Report 4 -- Treatments Prescribed with a Site Condition

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

Prescription Specs:

Other Comment:

Next Steps:

Proposed Start Date: #Type!

Limiting Factor

Total Treatment Acreage Proposed: 0.0

Report 5 – Site Conditions

Sault Ste. Marie Mgt. Unit

Matthew Edison : Examiner

Compartment 102

Year of Entry 2015

Availability for Management

Total Acres	Acres Available	Acres Not Available	Dominant Site Conditions	No
342	342		**Aspen**	342
188	188		**Lowland Conifers**	188
52	52		**Lowland Deciduous**	52
114	114		**Mixed Upland Deciduous**	114
8	8		**Natural Mixed Pines**	8
759	759		**Northern Hardwood**	759
51	51		**Red Pine**	51
50	50		**Upland Mixed Forest**	50
37	37		**Upland Spruce/Fir**	37
2	2		**White Pine**	2
1,603	1,603		Total Forested Acres	1,603
	100%		Relative Percent	

**Due to limitations in the current Site Conditions Analysis tool, all nonforested acres are considered available. Future development will enable analysis of nonforested types.*

Report 6 – PROPOSED SPECIAL CONSERVATION AREA* (SCA) DETAILS

* This is a partial list of SCAs for this compartment. Not included are those areas identified under other Department initiatives (Natural Rivers, Deer Wintering Areas, etc.). Those will be identified in separate, future map and report products.

SCA Name	SCA Category	Detail Type	Recommendation	Acres

Comments

Report 7 – EXISTING SPECIAL CONSERVATION AREA DETAILS

* This is a list of SCA's for this compartment along with a 1/4 mile buffer surrounding the compartment. Refer to the Special Conservation Area Map for locations of the below listed Conservation Areas.

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

Conservation Area	Type	Description
SCA	Archaeological Site	An aquatic or terrestrial area of the State that contains physical remains of human occupation. These are sites of cultural and historical significance that may occur upon terrestrial areas and Great Lakes bottomlands. They include thousands of Native American settlements and burial sites, as well as French and British outposts, nineteenth century logging camps, mines and homesteads. Beneath the waters of the Great Lakes, there are shipwrecks and other remains documenting the maritime trade. Such sites may be identified by Natural heritage data from the State Historic Preservation Office. Proposed treatments in this compartment will be implemented in such a manner as to maintain the integrity of these sites. Due to the sensitive nature of this information, no further detail about location is available.
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	Non-Dedicated Natural Areas and National Natural Landmarks	This category is comprised of those Natural, Wilderness and Wild Areas that have been nominated or proposed for legal dedication, but for which legal dedication by legislature has not occurred. The nomination process is defined by Part 351, Wilderness and Natural Areas, of the Natural Resources and Environmental Protection Act, 1994 PA 451. The program is administered by the DNR. Nominations require the submittal of a Natural Areas Nomination Packet to the DNR. This is an active program, with proposed sites in various stages of review. Final dedication of nominated Natural, Wilderness and Wild Areas is accomplished through legislative action.
SCA	Riparian Area	A transitional area between aquatic and terrestrial ecosystems in which the terrestrial ecosystem influences the aquatic ecosystem and vice-versa. Because of the unique conditions adjacent to lakes, streams and open water wetlands, riparian areas harbor a high diversity of plants and wildlife. Riparian communities are ecologically and socially significant in their effects on water quality and quantity, as well as aesthetics, habitat, bank stability, timber production, and their contribution to overall biodiversity.
HCVA	Legally dedicated Natural Areas, Wilderness or Wild Areas	The nomination process is defined by Part 351, Wilderness and Natural Areas, of the Natural Resources and Environmental Protection Act, 1994 PA 451. The program is administered by the DNR. Nominations require the submittal of a Natural Areas Nomination Packet to the DNR. This is an active program, with proposed sites in various stages of review. Final dedication of nominated Natural, Wilderness and Wild Areas is accomplished through legislative action.

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
2	4116 - Mixed N. Hardwood - Aspen	Medium Density	10.0	11		Filled in patch of grass opening.
3	4139 - Aspen, Mixed Deciduous	High Density Sapling	47.5	21		Part of grass opening filled in with upland brush.
5	4130 - Aspen	High Density Sapling	4.6	6		Cut in 2008.
6	42290 - Natural Mixed Pine	High Density Pole	8.0	66	141-170	Stand is planted mix of red and jack pine. Redpine is ooor and jackpine is dying out.
8	42110 - Planted Red Pine	High Density Sapling	51.5	17		Stand was planted in 1997. Red pine is 10-15' in height. There are scattered jack pine throughout.
9	42310 - Planted Spruce	High Density Pole	37.5	61	171-200	Stand of planted white spruce and balsam. A few scattered aspen.
10	4130 - Aspen	High Density Sapling	17.8	9		Good looking aspen regen. Stand was cut in 2005.
11	4134 - Aspen, Spruce/Fir	High Density Pole	16.7	41	111-140	Mixed Stand
13	4130 - Aspen	High Density Sapling	20.4	31		Stand was cut in 1997 . Regeneration is aspen mixed with some cherry and balsam/fir.
14	4112 - Maple, Beech, Cherry Association	Medium Density Log	101.6	80	51-80	Stand of poorer quality sugar maple with large mix of red maple. Was thinned last entry. There are some areas with very low basal area due to the beech already dying out. Scattered yellow birch and hemlock are around.
15	42200 - Natural White Pine	High Density Log	1.8	91	111-140	Stand was thinned last entry. Very nice white pine with regeneration taking hold.
16	4130 - Aspen	High Density Sapling	24.6	21		Stand of good looking aspen regeneration. There is cherry and some maple mixed in...
17	4191 - Mixed Upland Deciduous with Conifer	High Density Sapling	14.2	24		Stand of mixed brush.
18	6124 - Lowland Spruce-Fir	High Density Pole	187.8	46		Stand is in floodplain of creek. Total mix of lowland conifer mixed with some birch and aspen.
19	4319 - Mixed Upland Forest	High Density Pole	19.9	81	81-110	Stand was thinned last time. Manage for the high volume of White Pine.
20	4112 - Maple, Beech, Cherry Association	Medium Density	31.7	21		Complete brush stand of mixed hardwoods, cherry, and some aspen. Within large grass opening that is filling in. Not worth much at this point. Good wildlife habitat.

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
22	4112 - Maple, Beech, Cherry Association	High Density Pole	10.2	46	81-110	Very poor quality maple and cherry. Not much to work with. Consider clearcut and chip next entry.
23	4110 - Sugar Maple Association	High Density Log	233.8	81	111-140	Stand of good quality sugar maple with some beech and scattered yellow birch.
24	4139 - Aspen, Mixed Deciduous	High Density Sapling	50.9	17		Stand was cut in 2001. Regeneration is mix of aspen, red maple, and some conifer. Some balm and paper birch where ground is lower and wetter.
28	4130 - Aspen	High Density Sapling	6.7	26		Mix regeneration, mostly aspen.
29	4139 - Aspen, Mixed Deciduous	High Density Sapling	14.4	31		Stand of aspen and cherry,not quite pole size. Check in 10 yeaes.
31	4116 - Mixed N. Hardwood - Aspen	High Density Sapling	27.3	21		Stand is basically maple and cherry brush with a few areas of birch. Not much to look at.
33	4319 - Mixed Upland Forest	High Density Sapling	30.5	18		Brush of cherry, maple, and balsam...Up to 25' tall.
34	4113 - R.Maple, Conifer	High Density Log	29.6	81	81-110	Red maple mix with hemlock, spruce fir, nice looking stand.
35	4110 - Sugar Maple Association	High Density Pole	25.4	66	81-110	Consider light thinning of maple mix.
37	4112 - Maple, Beech, Cherry Association	High Density Pole	107.0	77	81-110	Stand was thinned last entry and cosists of good quality sugar maple with some red maple, and yellow birch.
38	6117 - Lowland Deciduous, Mixed Coniferous	High Density Sapling	52.3	7		Stand was cut in 2007. Aspen regeneration with scattered cedar and hemlock residual.
39	4136 - Aspen, Mixed Conifer	High Density Sapling	40.4	13		Cut in 2001. Mack mix regen.
40	4191 - Mixed Upland Deciduous with Conifer	High Density Sapling	72.3	31		Mackinac mix regeneration. Check in ten years, not quite poles yet.
41	4112 - Maple, Beech, Cherry Association	High Density Pole	36.2	50	81-110	Red maple mix, thinned in 1999. Check in ten years.
42	4116 - Mixed N. Hardwood - Aspen	High Density Sapling	11.4	26		Mackinac mix regeneration.
44	4139 - Aspen, Mixed Deciduous	High Density Sapling	97.6	24		Cut in 1990. Mix of aspen and everything else.
46	4112 - Maple, Beech, Cherry Association	High Density Pole	15.1	71	81-110	Stand was thinned in 2007.

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
47	4112 - Maple, Beech, Cherry Association	High Density Log	70.7	78	111-140	Stand is variable quality of hardwood. Was thinned two entrys ago, but most of the beech in the stand is already lost, which leaves the residual basal area somewhat low. Good amount of mixed regeneration in the stand.
49	4191 - Mixed Upland Deciduous with Conifer	High Density Sapling	27.1	31		Stand includes absolute mix of aspen, maples, cherry, and balsam. Mackinac mix.
50	4112 - Maple, Beech, Cherry Association	High Density Log	49.2	79	81-110	Stand was thinned last entry. Some beech remains.

Report 9 – Nonforested Stands

Stand	Cover Type	Acres	Managed Site	Management Priority (Objective)	General Comments:
1	310 - Herbaceous Openland	9.2	Unspecified	Unspecified	
4	310 - Herbaceous Openland	54.8	Unspecified	Unspecified	
7	622 - Lowland Shrub	13.8	Unspecified	Unspecified	New stand added.
12	310 - Herbaceous Openland	81.2	Unspecified	Unspecified	
21	310 - Herbaceous Openland	12.8	Unspecified	Unspecified	
25	310 - Herbaceous Openland	56.0	Unspecified	Unspecified	
26	629 - Mixed non-forested wetland	6.9	Unspecified	Unspecified	
27	622 - Lowland Shrub	6.4	Unspecified	Unspecified	
30	310 - Herbaceous Openland	32.5	Unspecified	Unspecified	
32	629 - Mixed non-forested wetland	5.7	Unspecified	Unspecified	
36	310 - Herbaceous Openland	6.0	Unspecified	Unspecified	
43	629 - Mixed non-forested wetland	4.8	Unspecified	Unspecified	
45	629 - Mixed non-forested wetland	13.5	Unspecified	Unspecified	
48	310 - Herbaceous Openland	2.6	Unspecified	Unspecified	
51	122 - Road/Parking Lot	1.3	Unspecified	Unspecified	