Compartment Review Presentation

Shingleton Forest Management Unit

Compartment 151
Entry Year 2016
Acreage: 2,173
County Schoolcraft
Management Area: Seney Manistique Swamp

Revision Date:

Stand Examiner: Scott Kentner

Legal Description:

T46N R15W Sections 2, 3, 10-15

Identified Planning Goals:

The main goal in this compartment is to conduct multiple resource management for current and future generations.

Soil and topography:

Sand and peat soils dominate the compartment. The terrain is mainly flat with small ridges.

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

Forest Land Group is on the west side of the compartment with the majority of the ownership on the south and east being State Land. There is a high amount of bear and deer hunting activity that occurs.

Unique Natural Features:

No Unique Natural Features known.

Archeological, Historical, and Cultural Features:

No Archeological, Historical, or Cultural Features known.

Special Management Designations or Considerations:

none

Watershed and Fisheries Considerations:

Excellent. The Driggs River runs along the eastern edge of this compartment. Excellent brook trout fishing can be found in the Driggs and every year reports of 20” brook trout heard. Fisheries Division has invested substantial money and time into repairing eroding stream banks that were adding tons of sand to the Driggs River.

Wildlife Habitat Considerations:

This compartment is bounded on the south by Eklund Road and on the east by the Driggs River. The primary landscape feature is a series of ridges and swales. The first surveyors recorded hemlock, yellow birch, beech, white pine, and red maple as the dominant upland tree species. Tamarack, black spruce, and white cedar were recorded in the lowlands.

Current forest composition is fairly similar to the pre-settlement conditions. However, there has been an increase in the amount of aspen and sugar maple within the compartment.

The wildlife habitat objectives in this compartment include protecting the hemlock component, promoting aspen, and protecting the Driggs River corridor.

Mineral Resource and Development Concerns and/or Restrictions

Surface sediments consist of lacustrine (lake) sand and gravel and peat and muck. There is insufficient data to determine the glacial drift thickness. The Ordovician Prairie du Chien Group subcrops below the glacial drift. The PdC could be used for stone. Gravel pits are not located in the area and potential appears to be limited. There is no commercial oil and gas production in the UP.

Vehicle Access:

Ecklund Road on the south and the Walsh Grade on the west provide the main access into the compartment.

Survey Needs:

Most of the west edge along Forest Land Group land.

Recreational Facilities and Opportunities:

none

Fire Protection:

Timber types will not promote high wildfire potential.

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: 151
T46N R15W
02 03 10 11 12 13 14 15 22 23 24
T47N R15W
34 35
County: Schoolcraft
Unit: Shingleton
Management Area: Seney Manistique Swamp
YOE: 2016
Acres: 2,173 GIS Calculated
Examiner: Scott Kentner
Map Revised: 07/30/2014
Map Phase: Pre-Review

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

3	2	
10	11	12
15	14	13
22	23	24

DEPARTMENT OF NATURAL RESOURCES · MICHIGAN · DNR

Legend
- Miris Corners
- Highway
- County Paved Roads
- Paved Roads
- County Gravel Roads
- Gravel Roads
- Poor Dirt Roads
- County Poor Dirt Roads
- Trail (Non-Recreation)
- Stream
- Intermittent Stream
- Lakes and Rivers
- State Forest Land

Non-Forest Regeneration
Planned Regeneration
- Natural
- Planted

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

Forest Stands
Level 3
- 411 - Northern Hardwood
- 412 - Oak Types
- 413 - Aspen Types
- 414 - Other Upland Deciduous
- 422 - Natural Pines
- 423 - Other Upland Conifers
- 429 - Mixed Upland Conifers
- 431 - Upland Mixed Forest
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest

Non-Forest Stands
Level 3
- 110 - Low Intensity Urban
- 500 - Water
- 622 - Lowland Shrub
- 623 - Emergent Wetland

1 0.5 0 1 Miles

86°10'0"W 86°9'0"W 86°8'0"W 86°7'0"W 86°6'0"W
46°25'0"N 46°24'0"N 46°23'0"N 46°22'0"N

Stand Boundary Map

Compartment: 151
T46N R15W
02 03 10 11 12 13 14 15 22 23 24
T47N R15W
34 35
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DEPARTMENT OF NATURAL RESOURCES · MICHIGAN · DNR

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Special Conservation Areas & Site Conditions Map

Compartment: 151
T46N R15W
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(412)0) - A7
Level 3 OI
Level 4 Code
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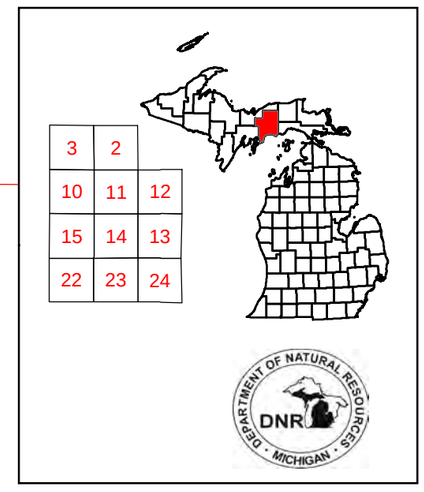

Legend
Miris Corners
Stand Boundaries
Site Condition Available
Available w/ Constraints (Factor - Number)
Unavailable (Factor - Number)
Site Condition Type
Available Factors W/ Constraints
4A: No merchantable products (see product standards)
5C: Delay treatment for age/size class diversity or exceptional site quality
Unavailable Factors
3L: Other wildlife concerns
Reviewable SCAs
Proposed SCA's
Proposed SCA
SCA Removal
Dedicated Special Conservation Areas
Cold Water Streams
High Priority Trout Stream Buffer

3L - 005
4A - 008
5C - 006
5C - 007
5C - 009
5C - 010
5C - 011
5C - 012
5C - 013

1 0.5 0 1 Miles

Report 1 – Total Acres by Cover Type and Age Class

Shingleton Mgt. Unit **Compartment 151 Year of Entry 2016**

Scott Kentner : 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	0	0	0	7	0	0	56	0	0	0	0	0	0	0	**63**
Bog	10	0	0	0	0	0	0	0	0	0	0	0	0	0	**10**
Cedar	0	0	0	0	0	0	0	0	9	6	0	0	0	0	**15**
Hemlock	0	0	0	0	0	0	0	10	81	38	0	0	0	11	**139**
Jack Pine	0	0	0	0	107	52	25	0	0	0	0	0	0	0	**185**
Lowland Aspen/Balsam Poplar	161	48	0	0	0	0	0	0	0	0	0	0	0	0	**210**
Lowland Conifers	0	0	0	0	0	19	4	20	94	50	0	0	0	0	**187**
Lowland Deciduous	0	84	0	0	12	0	0	0	0	7	0	0	0	0	**102**
Lowland Shrub	28	0	0	0	0	0	0	0	0	0	0	0	0	0	**28**
Lowland Spruce/Fir	0	0	0	8	22	98	30	0	0	186	0	0	0	0	**344**
Marsh	37	0	0	0	0	0	0	0	0	0	0	0	0	0	**37**
Natural Mixed Pines	0	0	0	0	0	0	0	32	0	0	0	0	0	0	**32**
Northern Hardwood	0	0	0	0	0	0	0	235	181	0	0	0	0	0	**415**
Oak	0	0	3	0	0	0	0	0	0	0	0	0	0	0	**3**
Paper Birch	0	0	0	0	7	0	0	0	0	0	0	0	0	0	**7**
Treed Bog	26	0	0	0	0	0	0	0	0	0	0	0	0	0	**26**
Upland Conifers	0	0	0	0	7	0	0	0	0	0	0	0	0	0	**7**
Upland Mixed Forest	0	0	0	0	0	0	8	0	0	0	0	0	0	0	**8**
Urban	15	0	0	0	0	0	0	0	0	0	0	0	0	0	**15**
Water	52	0	0	0	0	0	0	0	0	0	0	0	0	0	**52**
White Pine	0	0	0	0	0	0	17	22	43	155	0	0	0	51	**289**
Total	**330**	**132**	**3**	**15**	**155**	**169**	**141**	**318**	**408**	**442**	**0**	**0**	**0**	**61**	**2173**

Report 2 – Proposed Treatment Summaries

Shingleton Mgt. Unit
Year of Entry 2016

Compartment 151
Total Compartment Acres: 2,173

Acres by Treatment Type

Commercial Harvest - 523	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	29	0	0	0	0	0	**29**
Lowland Coniferous Forest	167	0	0	0	0	0	**167**
Lowland Deciduous Forest	21	0	0	0	0	0	**21**
Natural Pines	33	0	32	0	0	0	**64**
Northern Hardwood	0	242	0	0	0	0	**242**
Total	**250**	**242**	**32**	**0**	**0**	**0**	**523**

Stand	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
5	41151005-Cut	38.4	6122 - Black Spruce	High Density Pole	91	141-170	Harvest	Clearcut with Reserves	42320 - Upland Spruce	Cmpt. Review Proposal

Prescription Specs: Clearcut all species within the stand, retention should be in pockets 3-5% of the total stand acres.

Other Comments: This harvest will regenerate highly stocked black spruce with low lying branches, creating excellent cover for snowshoe hare. Regenerating hardwood browse will bolster food availability within the stand.

Next Steps: Regeneration check at next inventory cycle. Any species currently on site is acceptable.

Proposed Start Date: 10/01/2015

Stand	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
7	41151007-Cut	31.5	42290 - Natural Mixed Pine	High Density Log	79	51-80	Harvest	Seed Tree with Reserves	42290 - Natural Mixed Pine	Cmpt. Review Proposal

Prescription Specs: Cut all species except Hemlock and white pine over 18" DBH. Retention should be a mix of patches that are 3-5% of stand's acres and seed trees.

Other Comments: Drainages running through stand will need to be protected, either through buffers or sale administration.

Next Steps: Scarify stand psot harvest. Regeneration Check next inventory cycle. Any species currently on site is acceptable.

Proposed Start Date: 10/01/2015

Stand	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
16	41151016-Cut	25.3	42220 - Natural Jack Pine	High Density Log	64	51-80	Harvest	Clearcut with Reserves	4222 - Natural Jack Pine	Cmpt. Review Proposal

Prescription Specs: Clear cut all species within the stand. Rentention should be in pockets that are 3-5% of stands total acres.

Other Comments: Drainage within stand will need to be proected either with a buffer or through sale administration. This harvest will serve to create young (5-25 year old), high density jack pine which is a preferred cover type of snowshoe hare. Regenerating hardwood browse within the plantation, especially black cherry, will bolster food availability within the stand.

Next Steps: Scarify if ground conditions allow. If nataural regeneration fails, trench and plant Jack pine.

Proposed Start Date: 10/01/2015

Stand	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
20	41151020-Cut	0.6	6120 - Lowland Cedar	High Density Log	97	111-140	Harvest	Clearcut with Reserves	6120 - Lowland Cedar	Fld. Tr. Bdy. - Incomplete

Prescription Specs: Currently under contract. 41-012-10-01

Other Comments:

Next Steps: Follow up according to work instructions.

Proposed Start Date: 10/01/2010

Stand	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
27	41151027-Cut	6.6	4134 - Aspen, Spruce/Fir	High Density Log	66	51-80	Harvest	Clearcut with Reserves	4134 - Aspen, Spruce/Fir	Fld. Tr. Bdy.

Prescription Specs: Currently under contract. 41-012-10-01 Driggs River Road.
Clear-cut with reserves: Cut all trees except white pine, cedar, oak, hemlock.

Other Comments:

Next Steps: Follow up harvest according to work instructions.

Proposed Start Date: 10/01/2010

Stand	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
28	41151028-Cut	30.8	6126 - Lowland Jack Pine	High Density Log	46	51-80	Harvest	Clearcut with Reserves	6126 - Lowland Jack Pine	Cmpt. Review Proposal

Prescription Specs: Clear cut all Jack pine and Black spruce within stand. Rentention should be in clumps scattered throughout the stand.

Other Comments: This harvest will regenerate highly stocked black spruce with low lying branches, creating excellent cover for snowshoe hare. Regenerating hardwood browse will bolster food availability within the stand.Drainage within stand needs to be protected either with a buffer or through sale administration.

Next Steps: Scarify if ground conditions allow. If natural regeneration fails, trench and plant Jack pine. Black spruce is an acceptable species for regeneration.

Proposed Start Date: 10/01/2015

Stand	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
31	41151031-Cut	18.8	6122 - Black Spruce	High Density Pole	67	81-110	Harvest	Clearcut with Reserves	6122 - Black Spruce	Fld. Tr. Bdy.

Prescription Specs: Currently under contract. 41-012-10-01 Driggs River Road.
Clear-cut with reserves: Cut all trees except white pine, cedar, hemlock and oak.

Other Comments:

Next Steps: Follow up according to work instructions.

Proposed Start Date: 10/01/2010

Stand	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
32	41151032-Cut	19.9	6127 - Lowland Pine	High Density Log	82	51-80	Harvest	Clearcut with Reserves	6127 - Lowland Pine	Fld. Tr. Bdy.

Prescription Specs: Currently under contract. 41-012-10-01 Driggs River Road. Clear-cut with Reserves: Cut all trees except white pine, cedar, hemlock, and oak.

Other Comments:

Next Steps: Follow up according to work instructions.

Proposed Start Date: 10/01/2010

Stand	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
36	41151036-Cut	16.8	6117 - Lowland Deciduous, Mixed Coniferous	High Density Sapling	18	171-200	Harvest	Clearcut with Reserves	6117 - Lowland Deciduous, Mixed Coniferous	Fld. Tr. Bdy. - Incomplete

Prescription Specs: Currently under contract. 41-012-10-01 Driggs River Road. Clear-cut with reserves: Cut all all trees except white pine, cedar, hemlock and oak.

Other Comments:

Next Steps: After harvest follow work instructions.

Proposed Start Date: 10/01/2010

Stand	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
53	41151053-Cut	5.3	42200 - Natural White Pine	High Density Log	75	51-80	Harvest	Clearcut with Reserves	4220 - Natural White Pine	Fld. Tr. Bdy.

Prescription Specs: Currently under contract. 41-012-10-01 Driggs River Road. Clear-cut with reserves: Cut all trees except white pine, hemlock, cedar, and oak.

Other Comments:

Next Steps: Follow up according to work instructions.

Proposed Start Date: 10/01/2010

Stand	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
54	41151054-Cut	87.1	4115 - Y.Birch, Hemlock NH	High Density Log	72	81-110	Harvest	Group Selection	411 - Northern Hardwood	Cmpt. Review Proposal

Prescription Specs: Cut all beech, aspen, and balsam fir. Reserve some resistance beech by marking with green paint.

Other Comments: This sale is currently under contract. Walsh Grade Beech 41-007-13-01

Next Steps: Monitor Regeneration, any species except Beech is exceptable regeneration. If beech brush is thick herbicide application might be viable. Also planting of oak might be done via wildlife request.

Proposed Start Date: 08/13/2014

Stand	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
55	41151055-Cut	22.6	4139 - Aspen, Mixed Deciduous	High Density Log	60	81-110	Harvest	Clearcut with Reserves	4112 - Maple, Beech, Cherry Association	Fld. Tr. Bdy.

Prescription Specs: currently under contract. 41-012-10-01 Driggs River Road.
Clear-cut with reserves: Cut all trees except white pine, cedar, hemlock, and oak.

Other Comments:

Next Steps: Follow up according to work instructions.

Proposed Start Date: 10/01/2010

Stand	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
66	41151066-Cut	58.0	6122 - Black Spruce	High Density Pole	91	81-110	Harvest	Clearcut with Reserves	6122 - Black Spruce	Cmpt. Review Proposal

Prescription Specs: Cut all Black spruce and White pine. Retain hemlock and some scattered, wind-firm, White pine.

Other Comments: This harvest will regenerate highly stocked conifer with low lying branches, creating excellent cover for snowshoe hare. Regenerating hardwood browse will bolster food availability within the stand.

Next Steps: Regeneration check at next inventory cycle. Any speices currently on site is acceptable.

Proposed Start Date: 10/01/2015

Stand	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
67	41151067-Cut	4.3	6112 - Lowland Aspen	High Density Sapling	10	171-200	Harvest	Clearcut with Reserves	6112 - Lowland Aspen	Fld. Tr. Bdy.

Prescription Specs: Currently under contract. 41-012-10-01 Driggs River Road. clear-cut with reserves: Cut all trees except white pine, cedar, hemlock, and oak.

Other Comments:

Next Steps: Follow up according to work instructions.

Proposed Start Date: 10/01/2010

Stand	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
71	41151071-Cut	154.8	4119 - Mixed Northern Hardwoods	High Density Log	77	81-110	Harvest	Group Selection	4119 - Mixed Northern Hardwoods	Cmpt. Review Proposal

Prescription Specs: Reduce Basal Area down to 50 BA. Create canopy gaps around Yellow Birch and Black Cherry , where present, to promote regeneration. Cut all Merchantable American Beech, leave any trees that seem resistance to BBD. Remote all Merchantable Balsam fir. Retain any Hemlock, Cedar, White pine, Oak (may need to Mark limited about of hemlock for manuerability).

Other Comments: This harvest will regenerate young deciduous species, creating excellent food availability for snowshoe hare.

Next Steps: After Harvest plant Northern Red Oak in canopy gaps to add hard mast species. Moniter regeneration after planting.

Proposed Start Date: 10/01/2015

Stand	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
76	41151076-Cut	2.3	42200 - Natural White Pine	Low Density Log	90	1-50	Harvest	Clearcut with Reserves	4220 - Natural White Pine	Fld. Tr. Bdy.

Prescription Specs: Currently under contract. 41-012-10-01 Driggs River Road. Clear-cut with Reserves: Cut all trees excpet white pine, cedar, hemlock, and oak.

Other Comments:

Next Steps: Follow up according to work instructions.

Proposed Start Date: 10/01/2010

Total Treatment Acreage Proposed: 523.0

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

Shingleton Mgt. Unit | **Compartment 151**

Scott Kentner : Examiner | **Year of Entry 2016**

Availability for Management

Total Acres	Acres Available	Acres Not Available		Dominant Site Conditions No	5C	4A	3L
63	63		**Aspen**	40	17	5	
15	15		**Cedar**	15			
139	139		**Hemlock**	139			
185	185		**Jack Pine**	185			
209	209		**Lowland Aspen/Balsam Poplar**	209			
187	136	50	**Lowland Conifers**	66	70		50
102	102		**Lowland Deciduous**	102			
305	305		**Lowland Spruce/Fir**	305			
32	32		**Natural Mixed Pines**	32			
415	415		**Northern Hardwood**	415			
3	3		**Oak**	3			
7	7		**Paper Birch**	7			
7	7		**Upland Conifers**	7			
8	8		**Upland Mixed Forest**	8			
38	38		**Upland Spruce/Fir**	38			
288	288		**White Pine**	288			
2,004	1,954	50	Total Forested Acres	1,862	87	5	50
	97%	3%	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.*

Site No.	Dominant Site Cond Availability	Dominant Site Condition	Acres	Other Site Condition	Other Site Condition	Other Site Condition	Other Site Condition
005	**Not Available**	**3L: Other wildlife concerns**	50				
	Comments:						
006	**Available**	**5C: Delay treatment for age/size class diversity or exceptional site quality**	46				
	Comments: Part stand is currently under contract, and White Pine present is not at rotation age.						

007	**Available**	**5C: Delay treatment for age/size class diversity or exceptional site quality**	8	

Comments:

Part of stand is currently under contract, White pine is not at rotation age.

008	**Available**	**4A: No merchantable products (see product standards)**	5	

Comments:

009	**Available**	**5C: Delay treatment for age/size class diversity or exceptional site quality**	16	

Comments:

010	**Available**	**5C: Delay treatment for age/size class diversity or exceptional site quality**	17	

Comments:

Area of stand adjacent to partial Harvest.

011	**Available**	**5C: Delay treatment for age/size class diversity or exceptional site quality**	89	

Comments:

Report 5 – Site Conditions

Shingleton Mgt. Unit | **Compartment 151**

Scott Kentner : Examiner | **Year of Entry 2016**

012	**Available**	**5C: Delay treatment for age/size class diversity or exceptional site quality**	7

Comments:

013	**Available**	**5C: Delay treatment for age/size class diversity or exceptional site quality**	173

Comments:

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	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.

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
1	42350 - Upland Hemlock	High Density Log	10.4	87	111-140	Hemlock stand with mixed decidious and conifer.
2	6120 - Lowland Cedar	High Density Log	9.1	88	111-140	Cedar stand, long skinny strip.
3	42200 - Natural White Pine	Medium Density Pole	17.2	60	1-50	White pine seed tree, clumps of hemlock.
5	6122 - Black Spruce	High Density Pole	38.4	91	141-170	Balck spruce sand, tall skinny trees.
7	42290 - Natural Mixed Pine	High Density Log	31.5	79	51-80	White pine stand with mixed conifers, large stand.
8	4319 - Mixed Upland Forest	High Density Log	7.8	62	81-110	Red Maple stand with mix conifer. Pole-log sized trees.
9	6123 - Lowland Fir	High Density Pole	3.0	58	81-110	Lowland river buffer. red Maple with mixed decidious, small stand.
10	42220 - Natural Jack Pine	Medium Density Pole	6.4	47	1-50	Open grow Jack pine and white pine mix. Oak is scattered evenly throughout stand.
11	4123 - Red Oak	Low Density Pole	3.2	28	1-50	Open oak area with White pine scattered as understory. Oaks are in clumps.
13	42220 - Natural Jack Pine	Medium Density Pole	19.3	46	51-80	Open brushy Jack pine, with mixed other species present. trees are bushy and short.
14	6119 - Mixed Lowland Deciduous Forest	High Density Pole	11.8	44	81-110	River buffer lowland cherry with very scrubby trees. Tall White pine and a few Black spruce.
15	6122 - Black Spruce	High Density Log	42.9	54	81-110	Black spruce mix with tamerack, humicks scattered. Poles are small in size.
16	42220 - Natural Jack Pine	High Density Log	25.3	64	51-80	Jack pine stand, 3 to 4 sticks in each tree.
17	6127 - Lowland Pine	High Density Pole	4.4	65	51-80	Small clumps of White pine and black spruce close to river.
18	6129 - Mixed Coniferous Lowland Forest	High Density Log	50.3	95	1-50	Mixed lowland conifer stand, very wet organic soil.
20	6120 - Lowland Cedar	High Density Log	6.2	97	111-140	Lowland conifer surrounded by drainage and pond.
21	6112 - Lowland Aspen	High Density Sapling	3.7	15	171-200	Tag alder/Aspen lowland. Close to stream and could be underwater during spring run of.

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
23	42220 - Natural Jack Pine	Medium Density Pole	37.7	55	51-80	More open stand, brushy jack pine and very large white pine. Jack pine varying in size, some are 1 stick others are 3 to 4.
24	42200 - Natural White Pine	Low Density Log	6.6	88	1-50	White pine seed tree harvest with hemlock in clumps, Aspen coming in as understory.
25	6122 - Black Spruce	Medium Density Pole	7.3	51	81-110	Thick "youger" stand of Balck spruce mixed with other speices, humicks are present.
26	42220 - Natural Jack Pine	Low Density Pole	6.8	45	1-50	Open grown Jack pine stand
27	4134 - Aspen, Spruce/Fir	High Density Log	17.2	66	51-80	Aspen with mixed with spruce. Large aspen in stand scattered, some aspen young in age.
28	6126 - Lowland Jack Pine	High Density Log	30.8	46	51-80	Jack pine stand, open areas throughout stand with some thicker areas. some clumps of jack pine have tall trees, with 3-4 sticks.
29	6128 - Lowland Coniferous, Mixed Deciduous	Low Density Pole	15.6	55	1-50	Open/humicky stand with Tamerack, Black Spruce, Aspen, wet.
30	42200 - Natural White Pine	Low Density Log	23.7	92	1-50	White pine seed tree with clumps of hemlock and black spruce. White pine is coming in as understory.
31	6122 - Black Spruce	High Density Pole	29.9	67	81-110	Black spruce stand, taller trees.
32	6127 - Lowland Pine	High Density Log	74.1	82	51-80	Mixed lowland conifer with drainages throughout the stand.
33	6122 - Black Spruce	High Density Pole	8.2	37	51-80	Black Spruce stand, young in age.
35	6126 - Lowland Jack Pine	High Density Pole	43.5	44	51-80	Jack pine stand, open grown, very brachy and short trees. East edge is wet.
36	6117 - Lowland Deciduous, Mixed Coniferous	High Density Sapling	83.7	18	171-200	Young asepn/Tag alder stand with scattered clumps of black spruce.
37	4112 - Maple, Beech, Cherry Association	Medium Density Log	7.3	82	51-80	Selection harvest Hardwood stand with beech growing in the understory.
38	42200 - Natural White Pine	Low Density Log	36.2	85	1-50	White pine seed with hemlock and cedar scattered.
39	6129 - Mixed Coniferous Lowland Forest	Medium Density Log	19.6	75	51-80	Mixed conifer with dcidious trees oneastern fringe of stand.

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
41	6127 - Lowland Pine	High Density Log	4.0	82	81-110	White pine mixed loalnd stand.
42	6122 - Black Spruce	Low Density Sapling	10.4	45	1-50	Treed bog with black spruce on humicks.
43	6122 - Black Spruce	High Density Pole	89.2	91	171-200	Black spruce pole stand.
44	42350 - Upland Hemlock	High Density Log	7.3	86	81-110	Mixed upland conifer.
46	42200 - Natural White Pine	Medium Density Log	4.3	90	1-50	Harvested stand, white pine seed tree.
48	4140 - Other Upland Deciduous	High Density Pole	7.5	40	51-80	Paper birch ridge with balsam growing under birch.
51	6129 - Mixed Coniferous Lowland Forest	High Density Log	15.8	82	81-110	Mixed stand, of loland conifer.
52	42350 - Upland Hemlock	High Density Log	37.6	90	81-110	Mixed upland conifer.
53	42200 - Natural White Pine	High Density Log	22.3	75	51-80	White pine ridge with paper birch and balck spruce mixed in. White pine is bewteen 10 and 15 inches DBH.
54	4115 - Y.Birch, Hemlock NH	High Density Log	80.0	72	81-110	Mixed upland Maple/hardwoods stand, beach is present.
55	4139 - Aspen, Mixed Deciduous	High Density Log	38.8	60	81-110	Maple stand with some mixed decidious, pole and log sized stand.
57	4134 - Aspen, Spruce/Fir	High Density Pole	6.8	35	81-110	Aspen was an A3 10 years ago, has become an Aspen pole stand.
58	6112 - Lowland Aspen	High Density Sapling	126.2	8	171-200	Lowland aspen very young in age some scattered single conifers (Jack and White pine), but less than 2%.
60	6117 - Lowland Deciduous, Mixed Coniferous	High Density Pole	6.9	91	111-140	Mixed conifer and decidious stand.
63	429 - Mixed Upland Conifers	High Density Pole	6.9	42	51-80	Mixed stand Paper birch and black spruce on ridge.
64	6122 - Black Spruce	High Density Pole	48.1	56	81-110	Blamixed lowland stand, some marshy openings but mostly Black spruce.
66	6122 - Black Spruce	High Density Pole	58.0	91	81-110	Black spruce stand with White pine scattered. More white pine on the northwest side of stand.

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
67	6112 - Lowland Aspen	High Density Sapling	44.5	10	171-200	Aspen clearcut with a few reminate White pine. Black spruce in understory.
70	42350 - Upland Hemlock	High Density Pole	9.6	72	111-140	Hemlock stand with large Aspen on the fridges. Hemlock is pole sized. Stand is surrounded by open marshy aeas.
71	4119 - Mixed Northern Hardwoods	High Density Log	154.8	77	81-110	Maple stand, mostly Red maple and Sugar maple with beech. Pachets of Hemlock, white pine and Balsam fir. Beech brush fills the understory.
73	42350 - Upland Hemlock	High Density Log	63.6	84	111-140	Hemlock stand very dense with some maple and White pine.
74	42200 - Natural White Pine	Low Density Log	42.6	96	1-50	Harvested in 2007. White pine seed tree harvest.
75	4112 - Maple, Beech, Cherry Association	High Density Log	173.2	82	111-140	Harvested in late 1980's. Maple stand with a higher component of beech (all beech is dead or dying of beech bark diease) Understory is FULL of beach brush. Some small pockets of Hemlock.
76	42200 - Natural White Pine	Low Density Log	84.8	90	1-50	White pine seed tree with jack pine scattered/in clumps. Aspen thick in understory.
77	42350 - Upland Hemlock	High Density Pole	10.6	Uneven Age	81-110	Hemlock stand, with aspen clones as seperate age class coming in under the Hemlock.
80	6122 - Black Spruce	Low Density Sapling	11.3	40	1-50	Treed bog with black spruce. This is the thick edge before open bog area of stand 79.
82	42200 - Natural White Pine	Low Density Log	6.4	Uneven Age	1-50	White pine stand with Aspen as understory. cut in 1997.
83	42200 - Natural White Pine	Low Density Log	44.4	Uneven Age	1-50	White pine stand with Jack pine coming up from below, thick Jack Pine.
84	42220 - Natural Jack Pine	Medium Density Pole	14.7	55	51-80	Open grown Jack pine, bushy short trees.
86	6112 - Lowland Aspen	Low Density Sapling	35.1	6	171-200	Lowland aspen mixed with tag alder.

Report 9 – Nonforested Stands

Stand	Cover Type	Acres	Managed Site	Management Priority (Objective)	General Comments:
4	6224 - Treed Bog	3.7	No	Unspecified	Treed bog with Tamerack and Black spruce. Very sparse with open bog area.
6	6224 - Treed Bog	1.9	No	Unspecified	Treed bog with Tamerack and balck spruce. Very sparse with trees.
12	6224 - Treed Bog	4.0	No	Unspecified	Treed bog, open marshy area.
19	6229 - Mixed lowland shrub	10.5	No	Unspecified	Marshy area around pond.
22	50 - Water	12.7	No	Unspecified	small pond
34	6224 - Treed Bog	0.4	Natural Regen	Lowland Spruce/Fir	Treed bog, with black spruce.
40	6239 - Mixed Emergent Wetland	10.7	No	Unspecified	open marsh
45	50 - Water	9.5	No	Unspecified	Small pond
47	6229 - Mixed lowland shrub	1.5	No	Unspecified	open marsh
49	50 - Water	3.6	No	Unspecified	small pond
50	50 - Water	1.1	No	Unspecified	Pond
56	622 - Lowland Shrub	3.3	Unspecified	Unspecified	
59	6239 - Mixed Emergent Wetland	3.8	No	Unspecified	Open marsh
61	6229 - Mixed lowland shrub	13.1	No	Unspecified	Open marsh
62	50 - Water	6.7	No	Unspecified	small pond
65	11 - Low Intensity Urban	15.3	No	Unspecified	little driggs river road
68	6225 - Bog	10.0	No	Unspecified	Boggy marsh/open grass area.
69	6239 - Mixed Emergent Wetland	13.7	No	Unspecified	open marsh

Report 9 – Nonforested Stands

Stand	Cover Type	Acres	Managed Site	Management Priority (Objective)	General Comments:
72	50 - Water	14.7	No	Unspecified	Open area with beavor pod.
78	6224 - Treed Bog	16.0	No	Unspecified	water with treed bog around it.
79	50 - Water	2.5	Unspecified	Unspecified	Small pond
81	50 - Water	1.3	No	Unspecified	pond
85	6239 - Mixed Emergent Wetland	8.3	No	Unspecified	Tag alder lowland along river.