Compartment Review Presentation

Escanaba Forest Management Unit

Compartment 33
Entry Year 2015
Acreage: 588
County Menominee
Management Area: Green Bay Lake Plain

Revision Date: 06/24/2013

Stand Examiner: Dan Racine

Legal Description:

37N R25W SECTIONS 13 AND 14

Identified Planning Goals:

The majority of the lowland cover type is cedar with areas of mixed lowland conifer and deciduous species. The management within the lowland cover types is in the cover types of tamarack and mixed deciduous species. The goal is to regenerate these cover types to the overstory mix of species. The upland cover types within this compartment are hemlock, northern hardwood, aspen, and mixed maple/birch and softwood stands. The treatments within the hemlock stands are selection harvests utilizing the shorter lived species and creating canopy gaps by removing hemlock and pine in the areas where shorter lived species are being removed. The treatments within the red maple and conifer stands are shelterwood and clearcut harvests designed to regenerate the maple and other existing deciduous species and expand the existing conifer regeneration. The higher quality maple stands are single tree selection harvests removing some of the ash volumes and improving the existing stand quality. There is one clearcut scheduled in an aspen stand to regenerate aspen, maple, and spruce/fir.

Soil and topography:

Most of the compartment is swamp with Lupton-Tawas as the predominate soil type. The uplands are Onaway loam drumlins.

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

The ownership to the east and the south is state land with private ownership to the west and interspersed ownership to the north.

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:

Wildlife Habitat Considerations:

Mineral Resource and Development Concerns and/or Restrictions

Surface sediments consist of lacustrine (lake) sand and gravel and medium textured glacial till. The glacial drift thickness varies between 10 and 50 feet. The Ordovician Trenton formation underlies the glacial drift. The Trenton is quarried for stone west of Escanaba. This area has not been leased recently for metallic exploration. A gravel pit is located one mile to the south and potential appears to be good on the upland drumlins. No economic oil and gas production has been found in the UP.

Vehicle Access:

The western portion of the compartment is accessed through private land only with no public or gauranteed department access. The eastern portion of the compartment can be accessed for management purposes only with no public access.

Survey Needs:

Some corners will have to be requested to prepare timber sales.

Recreational Facilities and Opportunities:

There are no developed facilities within this compartment. Access to the general public is limited to foot access only.

Fire Protection:

There are very few hazardous fuels for fire protection. Access would be difficult if a fire did start.

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**

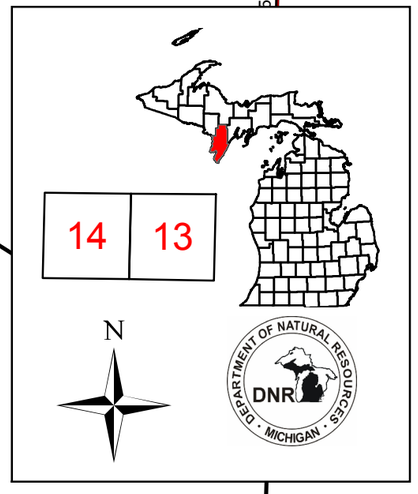
The following information is displayed, where pertinent, on the attached compartment maps:

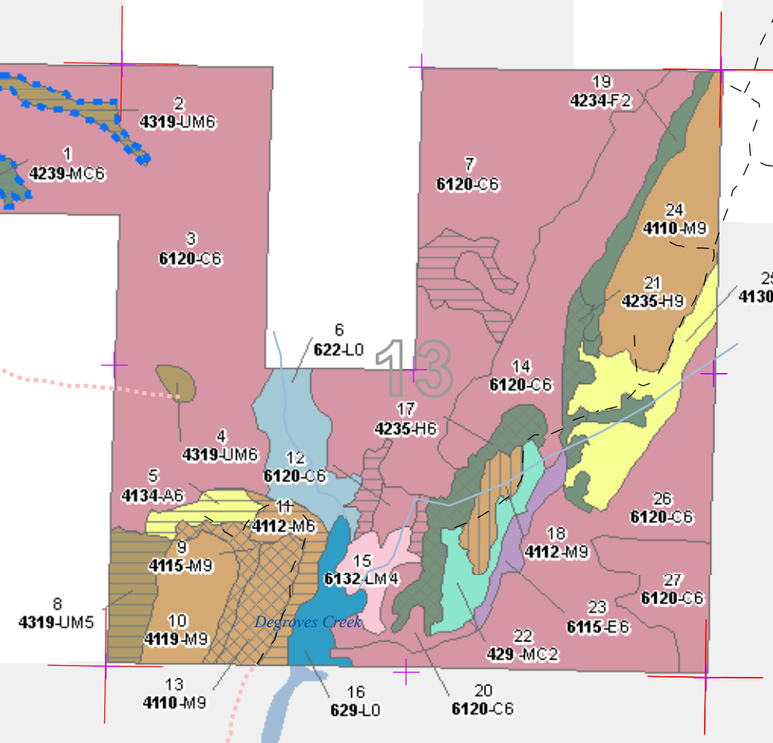
- **Base feature information, stand boundaries, cover types, and numbers**
- **Proposed treatments**
- **Site condition boundaries**
- **Details on the road access system**

Cover Type & Treatment Map

Compartment: 033
T37N R25W
13 14
County: Menominee
Unit: Escanaba
YOE: 2015
Acres: 588 GIS Calculated
Examiner: Dan Racine
Map Revised: 07/22/2013
Map Phase: Pre-Review

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





Legend

- Miris Corners
- Highway
- County Paved Roads
- Paved Roads
- County Gravel Roads
- Gravel Roads
- Poor Dirt Roads
- County Poor Dirt Roads
- Trail (Non-Recreation)
- Closed Roads
- Stream
- Intermittent Stream
- Lakes and Rivers
- State Forest Land
- Treatments w/ Site Condition

Treatments

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

Forest Stands

Level 3

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

Non-Forest Stands

Level 3

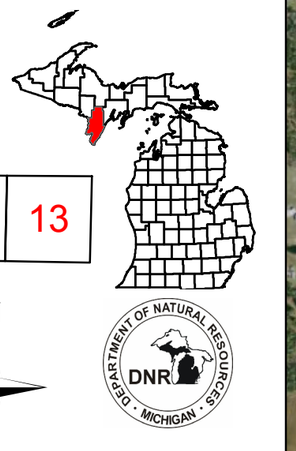
- 622 - Lowland Shrub
- 629 - Mixed non-forested wetland

1 0.5 0 1 Miles

Stand Boundary Map

Compartment: 033
T37N R25W
13 14
County: Menominee
Unit: Escanaba
YOE: 2015
Acres: 588 GIS Calculated
Examiner: Dan Racine
Map Revised: 07/22/2013
Map Phase: Pre-Review

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



Legend

- Miris Corners
- Highway
- County Paved Roads
- Paved Roads
- County Gravel Roads
- Gravel Roads
- Poor Dirt Roads
- County Poor Dirt Roads
- Trail (Non-Recreation)
- Closed Roads
- Stream
- Intermittent Stream
- Stand Boundaries

Forest Stands

Level 3

- 411 - Northern Hardwood
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- 613 - Lowland Mixed Forest

Non-Forest Stands

Level 3

- 622 - Lowland Shrub
- 629 - Mixed non-forested wetland

1 — 4319-UM6
2 — 4319-UM6
3 — 6120-C6
4 — 4319-UM6
5 — 4134-A6
6 — 622-L0
7 — 6120-C6
8 — 4319-UM5
9 — 4115-M9
10 — 4119-M9
11 — 4112-M9
12 — 6120-C6
13 — 4110-M9
14 — 6120-C6
15 — 6132-LM4
16 — 629-L0
17 — 4235-H6
18 — 4112-M9
19 — 4234-F2
20 — 6120-C6
21 — 4235-H9
22 — 429-MC2
23 — 6115-E6
24 — 4110-M9
25 — 4130-A6
26 — 6120-C6
27 — 6120-C6

14 13

Depas Ln
County Road 374
Limpert Road
Cedar River
Deer Lake Creek

87°22'0"W 87°21'0"W 87°20'0"W 87°19'0"W 87°18'0"W
45°37'0"N 45°36'0"N

1 0.5 0 1 Miles

Special Conservation Areas & Site Conditions Map

Compartment: 033
T37N R25W
13 14
County: Menominee
Unit: Escanaba
YOE: 2015
Acres: 588 GIS Calculated
Examiner: Dan Racine
Map Revised: 07/22/2013
Map Phase: Pre-Review

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

Legend
- Miris Corners
- Stand Boundaries

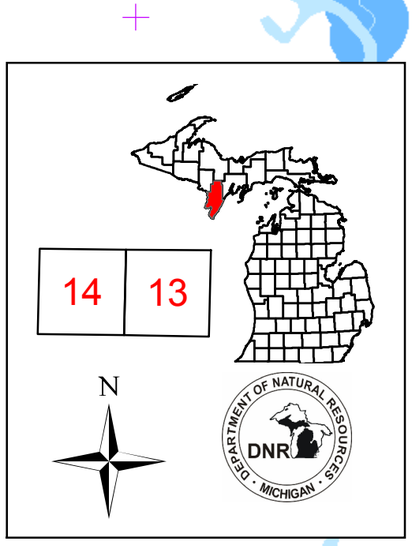
Site Condition Available
- Available w/ Constraints (Factor - Number)
- Unavailable (Factor - Number)

Site Condition Type
- Available Factors W/ Constraints
  - 2B: Unknown if access through adjacent landowner(s) is possible
- Unavailable Factors
  - 2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)

Reviewable SCAs

Proposed SCA's
- Proposed SCA
- SCA Removal

Dedicated Special Conservation Areas
- Cold Water Streams
- Cold Water Lakes



2B - 002
2B - 003
2H - 004

1 4319-MC6
2 4319-UM6
3 6120-C6
4 4319-UM6
5 4134-A6
6 622-L0
7 6120-C6
8 4319-UM5
9 4115-M9
10 4119-M9
11 4112-M6
12 6120-C6
13 4110-M9
14 6120-C6
15 6132-LM4
16 629-L0
17 4235-H6
18 4112-M9
19 4234-F2
20 6120-C6
21 4235-H9
22 429 -MC2
23 6115-E6
24 4110-M9
25 4130-A6
26 6120-C6
27 6120-C6

14
13

1 0.5 0 1 Miles

87°22'0"W 87°21'0"W 87°20'0"W 87°19'0"W 87°18'0"W
45°37'0"N
45°36'0"N

Report 1 – Total Acres by Cover Type and Age Class

Escanaba Mgt. Unit **Compartment 033 Year of Entry 2015**

Dan Racine : 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	21	0	5	0	0	0	0	0	0	0	0	0	**26**
Cedar	0	0	0	0	0	0	0	0	327	16	42	0	0	0	**385**
Hemlock	0	0	0	0	0	0	0	0	0	0	22	0	0	0	**22**
Lowland Deciduous	0	0	0	0	0	0	5	0	0	0	0	0	0	0	**5**
Lowland Mixed Forest	0	0	0	0	0	0	0	0	7	0	0	0	0	0	**7**
Lowland Shrub	26	0	0	0	0	0	0	0	0	0	0	0	0	0	**26**
Northern Hardwood	0	0	0	0	0	0	0	65	14	0	0	0	0	0	**79**
Upland Conifers	0	0	9	0	0	0	0	0	3	0	0	0	0	0	**13**
Upland Mixed Forest	0	0	0	0	0	0	0	0	17	0	0	0	0	0	**17**
Upland Spruce/Fir	0	0	8	0	0	0	0	0	0	0	0	0	0	0	**8**
Total	**26**	**0**	**38**	**0**	**5**	**0**	**5**	**65**	**368**	**16**	**64**	**0**	**0**	**0**	**588**

Report 2 – Proposed Treatment Summaries

Escanaba Mgt. Unit
Year of Entry 2015

Compartment 033
Total Compartment Acres: 588

Acres by Treatment Type

Commercial Harvest - 86	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	5	0	0	0	0	0	**5**
Lowland Coniferous Forest	13	0	0	0	0	0	**13**
Northern Hardwood	9	15	0	6	0	0	**30**
Other Upland Conifers	3	19	0	0	0	0	**22**
Upland Mixed Forest	15	0	0	0	0	0	**15**
Total	**45**	**34**	**0**	**6**	**0**	**0**	**86**

Stand	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
5	33033005-Cut	5.4	4134 - Aspen, Spruce/Fir	High Density Pole	41		Harvest	Clearcut with Reserves	4134 - Aspen, Spruce/Fir	Cmpt. Review Proposal

Prescription Specs: Clearcut with reserves- Cut all trees except leave cedar that would be found along the edge. Leave the yellow birch and some spruce and fir seed trees.

Other Comments: Access will be required through private most likely through the south or potentially from the west.

Next Steps: Acceptable regeneration of aspen,maple, and spruce/fir. Monitor the regeneration at appropriate intervals.

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
7	33033007-Cut_small	8.7	6120 - Lowland Cedar	High Density Pole	85		Harvest	Clearcut	6121 - Tamarack	Cmpt. Review Proposal

Prescription Specs: Clearcut- Cut all trees except there may be some larger diamter white pine within the larger stand that can be left if found within the treatment area.

Other Comments: Old winter road through stand 14 comes close to the treatment area. There is enough tamarack surrounding the stand for a seed source.

Next Steps: Monitor the regeneration at appropriate intervals. Acceptable regeneration of tamarack.

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	33033008-Cut	10.5	4319 - Mixed Upland Forest	Medium Density Pole	83	51-80	Harvest	Clearcut with Reserves	4113 - R.Maple, Conifer	Cmpt. Review Proposal

Prescription Specs: Clearcut with reserves- Cut all trees except for cedar and hemlock. May leave some white pine or all depending on wether its a potential good wildlife tree.

Other Comments: This stand was selection/shelterwood cut last time

Next Steps:

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	33033009-Cut	5.2	4115 - Y.Birch, Hemlock NH	High Density Log	83	81-110	Harvest	Single Tree Selection	4112 - Maple, Beech, Cherry Association	Cmpt. Review Proposal

Prescription Specs: Selection harvest- Focus the harvest on the ash due to EAB concerns. All ash that is 6 inches and greater dbh will be harvested and other species may be harvested throughout leaving a residual BA of 70. The exception will be in the pockets that have a higher percentage of ash will have a lower residual BA.

Other Comments: Portions of this stand were not harvested or left with a higher residual BA from the previous harvest. Stands 9, 10, and 13 will be managed as one stand in subsequent treatment periods and will be managed to enhance the existing stand quality. Slightly lower ground on the south end of the stand than the north end.

Next Steps: Monitor the regeneration at appropriate intervals in subsequent treatments. Expect regeneration of ash and balsam fir with some maple this treatment period.

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	33033011-Cut	8.7	4112 - Maple, Beech, Cherry Association	High Density Pole	83	51-80	Harvest	Clearcut with Reserves	4113 - R.Maple, Conifer	Cmpt. Review Proposal

Prescription Specs: Clearcut with reserves- Clearcut leaving hemlock, cedar, and yellow birch for reserve species.

Other Comments: The stand has a high density of balsam fir regeneration. The harvest will try to establish some of the maple, balm, and aspen regeneration and expand the balsam fir regeneration.

Next Steps: Monitor the regeneration at appropriate intervals expect balsam fir, maple, and balm/aspen regeneration.

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
12	33033012-Cut	4.3	6120 - Lowland Cedar	High Density Pole	81	111-140	Harvest	Clearcut with Reserves	4113 - R.Maple, Conifer	Cmpt. Review Proposal

Prescription Specs: Clearcut with reserves- Cut all trees within the treatment areas identified on the map except do not cut any white pine or hemlock if placed within the treatment area.

Other Comments: An intermittent stream/drainage runs north south through the middle portion of the stand. Harvest will be in the winter months.

Next Steps: Monitor the regeneration at appropriate intervals. Expect maple, and balsam fir regeneration.

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
13	33033013-Cut	10.0	4110 - Sugar Maple Association	High Density Log	78	81-110	Harvest	Single Tree Selection	4110 - Sugar Maple Association	Cmpt. Review Proposal

Prescription Specs: Selection Harvest- Retain approximately 70 BA throughout focusing on ash removal due to EAB concerns. A mix of all species will be harvested throughout.

Other Comments: A ridge that runs northeast through the stand has some nice quality white ash. Balsam fir and sugar maple poles in the understory.

Next Steps: Monitor the regeneration at appropriate intervals. Acceptable regeneration of northern hardwood species.

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
17	33033017-Cut	12.7	42350 - Upland Hemlock	High Density Pole	104		Harvest	Single Tree Selection	4312 - Hemlock, Mixed Deciduous	Cmpt. Review Proposal

Prescription Specs: Selection harvest- The harvesting of the shorter lived species within the hemlcok stand. Leave most or all of the yellow birch and some spruce seed trees. The hemlock, cedar and pine harvested in this stand will be in the locations with higher percentages of shorter lived species creating group selection canopy gaps.

Other Comments: Limit the harvesting of cedar, hemlock, or pine in the areas with fewer shorter lived species.

Next Steps: FTP for scarifying if feasible in the canopy gaps created. Monitor regeneration at appropriate intervals. Acceptable regeneration of hemlock, pine, and deciduous species.

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
18	33033018-Cut	6.3	4112 - Maple, Beech, Cherry Association	High Density Log	78	81-110	Harvest	Shelterwood	4113 - R.Maple, Conifer	Cmpt. Review Proposal

Prescription Specs: Shelterwood Harvest- Retain approximately 30 BA on average. Leave any hemlock and pine.

Other Comments: The overstory is red maple to the south with more sugar maple to the north. There is not enough quality sugar maple to thin this stand to enhance the quality. The understory is medium to pockets with high density of balsam fir and some pine mixed in. Look to remove the overstory in the next treatment periods.

Next Steps: Monitor regeneration at appropriate intervals. Acceptable regeneration mix of conifer and mixed deciduous.

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
21	33033021-Cut	6.0	42350 - Upland Hemlock	High Density Log	104		Harvest	Single Tree Selection	42350 - Upland Hemlock	Cmpt. Review Proposal

Prescription Specs: Single tree selection- Harvest of all the shorter lived species. Hemlock will be harvested in the areas where higher amounts of shorter lived species are harvested creating group selection canopy gaps. Retain all other hemlock. Retention of a portion of the stand to the east.

Other Comments: Some very large diameter shorter lived species.

Next Steps: FTP for scarification in the gaps if feasible. Monitor the regeneration at appropriate intervals. Acceptable regeneration mix of aspen, maple, and hemlock.

Proposed Start Date: 10/01/2014

Total Treatment Acreage Proposed: 77.8

Report 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
1	33033001-Cut	3.1	42390 - Mixed Non-Pine Upland Conifers	High Density Pole	89	81-110	Harvest	Clearcut with Reserves	42380 - Non Pine Upland Conifer, Mixed Deciduous	Cmpt. Review Proposal

Prescription Specs: Clearcut with Reserves- Cut all trees except for cedar and hemlock.

Other Comment: The access to this stand is through the private landowner to the west. The permission to carry out treatment from private landowner is unknown.

Next Steps: Secure permission to prepare and carry out treatment. After the treatment takes place monitor regeneration at appropriate intervals. Acceptable regeneration of any mixed deciduous and coniferous species present.

Proposed Start Date: 10/01/2014

Limiting Factor: 2B: Unknown if access through adjacent landowner(s) is possible

Stand	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
2	33033002-Cut	4.8	4319 - Mixed Upland Forest	High Density Pole	82	81-110	Harvest	Clearcut with Reserves	4319 - Mixed Upland Forest	Cmpt. Review Proposal

Prescription Specs: Clearcut with reserves- Cut all trees except leave approximately 20 BA of cedar, a few red maple and a couple of spruce and fir seed trees. Leave all the hemlock.

Other Comment: Balsam fir is dead or dying along with paper birch. Areas of large blowdown. The stand is limited by access through the private land owner to the west. An old winter road will allow access from unit 1 to unit 2.

Next Steps: Obtain access from private landowner to prepare and carry out the treatment. Monitor the regeneration at appropriate intervals after the harvest. Acceptable regeneration mix of any coniferous or deciduous species present.

Proposed Start Date: 10/01/2014

Limiting Factor: 2B: Unknown if access through adjacent landowner(s) is possible

Total Treatment Acreage Proposed: 7.9

Data updated before 2:00 PM

Report 5 – Site Conditions

Escanaba Mgt. Unit

Dan Racine : Examiner

Compartment 033

Year of Entry 2015

Availability for Management

Total Acres	Acres Available	Acres Not Available		Dominant Site Conditions No	2H	2B
26	26		**Aspen**	26		
385	385		**Cedar**	385		
22	22		**Hemlock**	22		
5	5		**Lowland Deciduous**	5		
7	7		**Lowland Mixed Forest**	7		
79	79		**Northern Hardwood**	79		
13	13		**Upland Conifers**	9		3
17	15	2	**Upland Mixed Forest**	10	2	5
8	8		**Upland Spruce/Fir**	8		
561	560	2	Total Forested Acres	552	2	8
	100%	0%	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
002		**Available**	**2B: Unknown if access through adjacent landowner(s) is possible**	5				
	Comments: The access is through the private landowner to the west. Unknown if the landowner will provide permission.							
003		**Available**	**2B: Unknown if access through adjacent landowner(s) is possible**	3	No Limiting Factor			
	Comments: Unknown if we can get permission from the private landowner to the west.							
004		**Not Available**	**2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)**	2	No Limiting Factor	2E: Road needed		
	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 – 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 Lake	A coldwater lake has temperature and dissolved oxygen conditions that allow naturally-reproduced or stocked trout populations and those of other coldwater fish species to persist from year to year. Suitable conditions for coldwater fishes may occur in Michigan lakes if they are relatively deep, have substantial groundwater inflows, or are located in colder (northern) areas of the state. Such lakes are established by Director's action and designated as trout resources by Fisheries Order 200.
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	42390 - Mixed Non-Pine Upland Conifers	High Density Pole	3.1	89	81-110	Access through the private land to the west.
2	4319 - Mixed Upland Forest	High Density Pole	4.8	82	81-110	The balsam fir is dead and dying with lots of blowdown. Areas of blowdown regenerating to balsam fir between 18 inches up to 5-10 feet. No age was obtained from increment borer. Used previous inventory.
3	6120 - Lowland Cedar	High Density Pole	145.4	81		This stand is a mix of poor quality 1-2 stick cedar with some black ash mixed in and areas more to the south with 8-9 inch cedar and some black spruce mixed in. Balsam fir is dead. Tag alder is low to medium density in the understory. A couple of small hardwood islands within the stand. No age was able to be obtained from the cedar. Used previous Inventory.
4	4319 - Mixed Upland Forest	High Density Pole	1.7	89	111-140	The balsam fir is mostly dead. Upland island in the cedar swamp. Did not get an age from the increment borer. Used previous OI for age. One BA swing due to the size of the stand.
5	4134 - Aspen, Spruce/Fir	High Density Pole	5.4	41		Mix of 9 inch and smaller diameter aspen. Trace amounts of: white ash, yellow birch, and black spruce.
7	6120 - Lowland Cedar	High Density Pole	102.4	85		Smaller diameters to the west. Trace amounts of white pine, black spruce, and black ash. Treatment in the larger diameter tamarack pocket of the stand. Access though the cedar swamp through old winter road. Expect tamarack and cedar regeneration post-harvest. The treatment area is mostly tamarack to areas with 50/50 cedar and tamarack. 70 On increment borer on average stand for cedar and 82 on increment borer on tamarack on average stand.
8	4319 - Mixed Upland Forest	Medium Density Pole	10.5	83	51-80	A pocket of cedar to the south. This stand was cut under the Degraves E-W sale with birch, aspen, 2 or more stick spruce and fir and smaller diameter hardwood cut. Trace amount of paper birch in the overstory and tamarack in the understory. Minimal stump sprouting of maple with lots of deer browse. A small clump of larger white pine. Used the age from adjacent maple stand.
9	4115 - Y.Birch, Hemlock NH	High Density Log	5.2	83	81-110	This stand was last cut under the Degrave E-W sale in 2009. Trace amounts of green ash and paper birch. Used adjacent maple stand for age.
10	4119 - Mixed Northern Hardwoods	High Density Log	15.7	78	51-80	There are trace amounts of black cherry, cedar, basswood. This stand was cut under the Degraves E-W sale in 2009. Used another stand for age.
11	4112 - Maple, Beech, Cherry Association	High Density Pole	8.7	83	51-80	Trace amount of Hemlock,ironwood,cedar, balm and aspen. Edge of the Degraves E-W sale not cut last time.
12	6120 - Lowland Cedar	High Density Pole	7.3	81	111-140	Trace amounts of balsam fir in the overstory. The balsam in the understory is medium to high density in the treatment area. No age on the cedar in this stand.

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
13	4110 - Sugar Maple Association	High Density Log	10.0	78	81-110	Trace of basswood. This stand was cut in 2009 under the Degraves E-W sale. Used other sugar maple stand for age.
14	6120 - Lowland Cedar	High Density Pole	42.0	101		
15	6132 - Mixed Lowland Forest with Cedar	Low Density Pole	7.3	81		Very open stand that is wet and poor quality with a creek that runs through.
17	42350 - Upland Hemlock	High Density Pole	12.7	104		The south portion was part of the Degraves E-W sale.
18	4112 - Maple, Beech, Cherry Association	High Density Log	6.3	78	81-110	The southern portion of the stand is more to red maple with higher amounts of balsam fir regeneration and the northern portion is higher to sugar maple with medium density balsam fir regeneration. Scattered white pine regeneration. This stand was last cut in 1991 under the Section 13 Hardwoods Sale.
19	42340 - Upland Spruce/Fir	Medium Density	7.8	24		This stand was cut under the Section 13 hardwoods sale. Mix of 50-75 and 75-100% cover type. Trace amount of red maple.
20	6120 - Lowland Cedar	High Density Pole	7.0	81		Unable to obtain age from increment borer. Used the previous inventory.
21	42350 - Upland Hemlock	High Density Log	9.0	104		Trace amounts of beech. Some very large diameter aspen,birch, and maple. Portions of this stand is pockets left from the Section 13 hardwoods. Used previous inventory on adjacent stand for age on a hemlock.
22	429 - Mixed Upland Conifers	Medium Density	9.5	22		Last cut in 1991 under the Section 13 Hardwood sale. Proposed for discing and seeding last entry period. Filling in with a mix of species.
23	6115 - Lowland Ash	High Density Pole	5.3	65		Trace amounts of Green Ash, yellow birch, and hemlock.
24	4110 - Sugar Maple Association	High Density Log	32.6	78	81-110	This stand was last cut in 2009 under the Degraves E-W sale. Treat next treatment period. One Plot with White Ash on the north end. Aged a basswood for increment borer.
25	4130 - Aspen	High Density Pole	20.6	27		Cut in 1992 under the Section 13 hardwoods sale.
26	6120 - Lowland Cedar	High Density Pole	65.0	87		There is some cedar regeneration here along the line of stand pre-inventory stand 27 and 28.
27	6120 - Lowland Cedar	High Density Pole	16.2	91		Some places with quite a bit of cedar regeneration. Trace amounts of black spruce in the canopy. Used the previous inventory for age.

Report 9 – Nonforested Stands

Stand	Cover Type	Acres	Managed Site	Management Priority (Objective)	General Comments:
6	6229 - Mixed lowland shrub	16.8	No	Unspecified	Lowland shrub with creek through the middle.
16	629 - Mixed non-forested wetland	9.3	N\A	Unspecified	