



**Escanaba Forest Management Unit
Compartment Review Presentation
Compartment # 83 Entry Year: 2014
Compartment Acreage: 1384 County: Delta**

Revision Date: June 18, 2012

Stand Examiner: Dan Racine, FRD;

Legal Description: T38N R24W, Sections 02, 03, 11, 14, and 15

Management Goals: The compartment is located within the Green Bay Lake Plain management area in Ford River and Bark River Townships south of US-2 and north of County Road 535. The majority of this compartment consists of small diameter lowland conifer spruce and tamarack with upland islands and ridges of northern hardwood and upland conifer. The majority of the harvests within this decade will focus on the upland cover types.

The harvests within the upland cover types include 100 acres of selection harvest in the northern hardwood and hemlock stands with additional scarification treatments in the hemlock stands. Also, there are 48 acres of thinning prescribed for enhancing the stand quality in red pine and sugar maple stands. In the lowland black spruce cover type 12 acres are prescribed for a seed tree harvest.

In the northern hardwood stands prescribed for selection harvest there will be an emphasis on creating regeneration gaps to expand the regeneration. Within the surrounding compartments there are several stands with good examples of hemlock regeneration. The scarification of the hemlock stands within this compartment will help to expand the hemlock and mixed conifer regeneration.

Soil and Topography: The major soil series within this compartment are Carbondale, Lupton, Dawson and Greenwood in the lowland areas and Onaway and Kalkaska in the upland areas. The topography is mostly level with some upland ridges.

Ownership Patterns, Development, and Land Use in and Around the Compartment: The ownership to the north, east and west is small private holdings with some areas within agricultural use. The ownership to the southeast is a large block of corporate managed lands intensively managed for forest products. The lands to the south are part of a contiguous block of state forest land.

Unique, Natural Features: None.

Archeological, Historical, and Cultural Features: None known.

Special Management Designations or Considerations: The southeast portion of the compartment is located within a Special Conservation Area that continues to the south into compartment 82.

Watershed and Fisheries Considerations:

Wildlife Habitat Considerations: Compartment 83 is part of the Green Bay Lake Plain Management Area. Many stands in this management area demonstrate a natural propensity to grow white pine and balsam fir, species which are found in the understory of many aspen and maple stands. These mesic conifer species will be encouraged where appropriate. Cedar and hemlock provide important wildlife habitat in this management area, but regeneration of both species has been problematic. Management will be aimed at maintaining these stands because they are of modest age. However, some well-planned experimental treatments may be

undertaken. Corridors of mature forest will be maintained along some water courses for wildlife that mature forest conditions. Featured wildlife species include white-tailed deer, wild turkey, wood duck and Blackburnian warbler.

Hardwoods: Many of the hardwood stands in this compartment will be treated with none scheduled for final harvest. These areas provide habitat for a number of species. One of these stands has a sizable hemlock component. Hemlock has successfully regenerated near and within this stand so work here will be done with the regeneration of hemlock a priority.

Openings: A number of openings along the Makoski road will be maintained. In addition, if hard or soft mast species are present these may be treated to promote mast production.

Mineral Resource and Development Concerns and/or Restrictions: Surface sediments consist of peat and muck, medium textured glacial till and lacustrine (lake) sand and gravel. The glacial drift thickness varies between 10 and 50 feet. The Ordovician Trenton Limestone underlies the glacial drift. The Trenton is quarried for stone just west of Escanaba. A gravel pit is located in Section 1 and there appears to be potential on the upland areas. No economic oil and gas production has been found in the UP.

Vehicle Access: This compartment has limited access to the north and west portions through private land. There are several winter logging roads and trails located throughout the compartment, but access is strictly in the winter time. The access to section 14 is good year around via the Makosky Road.

Survey Needs: One corner may need to be requested in the north portion of section 15.

Recreational Facilities and Opportunities: There are no developed recreational facilities within this compartment. There are several opportunities for hunting, trapping, hiking, and dispersed camping.

Fire Protection: Fire is not a high risk within this compartment with the majority of the compartment in lowland ground. The access to several areas within the compartment for fire suppression would pose a significant problem.

Additional Compartment Information:

- **The following reports from the Inventory are attached:**
 - ◆ **Total Acres by Cover Type and Age Class**
 - ◆ **Proposed Treatment Summary**
 - ◆ **Proposed Treatments – No Limiting Factors**
 - ◆ **Proposed Treatments – With Limiting Factors**
 - ◆ **Stand Details (Forested and Non-forested)**
 - ◆ **Dedicated and Proposed Special Conservation Areas**

- **The following information is displayed, where pertinent, on the attached compartment maps:**
 - ◆ **Base feature information, stand boundaries, cover types, and numbers**
 - ◆ **Proposed treatments**
 - ◆ **Details on the road access system**

Table 1 – Total Acres by Cover Type and Age Class



| | Age Class | | | | | | | | | | | | | Total | |
|------------------------|-----------|----------|------------|-----------|-----------|----------|----------|-----------|------------|-----------|------------|-----------|-----------|----------|-------------|
| | 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 + | | Uneren Age |
| Bog | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| Cedar | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 15 | 169 | 7 | 25 | 0 | 216 |
| Hemlock | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 13 | 0 | 0 | 0 | 0 | 0 | 13 |
| Herbaceous Openland | 13 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 13 |
| Lowland Conifers | 0 | 0 | 12 | 17 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 29 |
| Lowland Spruce/Fir | 0 | 0 | 14 | 0 | 38 | 0 | 0 | 47 | 211 | 0 | 511 | 0 | 0 | 0 | 821 |
| Mixed Upland Deciduous | 0 | 0 | 40 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 40 |
| Natural Mixed Pines | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |
| Northern Hardwood | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5 | 104 | 0 | 0 | 0 | 0 | 0 | 110 |
| Red Pine | 0 | 0 | 0 | 0 | 30 | 0 | 0 | 0 | 0 | 4 | 0 | 0 | 0 | 0 | 35 |
| Tamarack | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 31 | 0 | 0 | 0 | 0 | 0 | 31 |
| Upland Conifers | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 16 | 0 | 0 | 17 |
| Upland Mixed Forest | 0 | 0 | 12 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 12 |
| Upland Spruce/Fir | 0 | 0 | 34 | 10 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 45 |
| Total | 14 | 0 | 114 | 27 | 68 | 0 | 0 | 53 | 359 | 21 | 680 | 23 | 25 | 0 | 1384 |



Table 2 – Proposed Treatment Summaries

Escanaba Mgt. Unit
Year of Entry 2014

Compartment 083
Total Compartment Acres: 1384

Acres by Treatment Type

| | | | | |
|--------------------------|--------------------------|-------------------|---------------------|-----------|
| Commercial Harvest - 161 | Site Prep - 0 | Tree Planting - 0 | Prescribed Burn - 0 | Other - 0 |
| Habitat Cut - 0 | Opening Maintenance - 13 | Tree Seeding - 0 | Pesticide - 0 | |

Cover Type by Harvest Method

| | | Clearcut | Selection | Seed Tree | Shelterwood | Thinning | Other - Specify | Total Acres |
|--------------------|----------|------------|-----------|-----------|-------------|----------|-----------------|-------------|
| Lowland Spruce/Fir | 0 | 0 | 13 | 0 | 0 | 0 | | 13 |
| Northern Hardwood | 0 | 84 | 0 | 0 | 18 | 0 | | 102 |
| Red Pine | 0 | 0 | 0 | 0 | 30 | 0 | | 30 |
| Upland Conifers | 0 | 16 | 0 | 0 | 0 | 0 | | 16 |
| Total | 0 | 100 | 13 | 0 | 49 | 0 | | 161 |



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| Treatment Name | Acres | CoverType | Size Density | Stand Age | BA Range | Treatment Type | Treatment Method | Cover Type Objective | Approval Status |
|------------------------|-------|---|------------------|-----------|----------|----------------|-----------------------|---|-----------------------|
| 23 33083023-Cut | 22.3 | 4112 - Maple, Beech, Cherry Association | High Density Log | 88 | 111-140 | Harvest | Single Tree Selection | 4112 - Maple, Beech, Cherry Association | Cmpt. Review Proposal |

Prescription Selection harvest. Retain approximately 70-80BA creating regeneration gaps where feasible. Harvest to 40-50 in the higher red maple ash areas. Favor to leave minor component species especially yellow birch, hemlock, and beech.

Other Comments: Access through private property. Most likely access in the winter months due to low wet access. The private owner has fixed up the road through the lowland area.

Next Steps: Monitor regeneration at appropriate intervals. Some balsam fir regeneration exists. Acceptable regeneration mix of northern hardwood species.

Proposed Start Date: 10/01/2013

| | | | | | | | | | |
|------------------------|------|---------------------|-------------------|----|--|---------|-----------|---------------------|-----------------------|
| 27 33083027-Cut | 12.5 | 6122 - Black Spruce | High Density Pole | 79 | | Harvest | Seed Tree | 6122 - Black Spruce | Cmpt. Review Proposal |
|------------------------|------|---------------------|-------------------|----|--|---------|-----------|---------------------|-----------------------|

Prescription Seed tree harvest: Leave approximately 7-8 seed trees per acre throughout stand. Acceptable to leave Black Spruce and Tamarack. Leave the majority or all the pine.

Other Comments: The timber gets smaller toward the southern end.

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

Proposed Start Date: 10/01/2013

| | | | | | | | | | |
|------------------------|------|---|------------------|----|---------|---------|-----------------------|---|-----------------------|
| 31 33083031-Cut | 15.1 | 4112 - Maple, Beech, Cherry Association | High Density Log | 88 | 111-140 | Harvest | Single Tree Selection | 4112 - Maple, Beech, Cherry Association | Cmpt. Review Proposal |
|------------------------|------|---|------------------|----|---------|---------|-----------------------|---|-----------------------|

Prescription Select harvest. Harvest to approximately 80BA creating regeneration gaps where feasible. Favor to leave some minor component species.

Other Comments: Harvest in the winter months due to access. Some balsam fir and sugar regeneration exists.

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

Proposed Start Date: 10/01/2013

| | | | | | | | | | |
|------------------------|------|---------------------------------------|------------------|----|---------|---------|-----------------------|---------------------------------------|-----------------------|
| 34 33083034-Cut | 17.8 | 4111 - S.Maple, Hard Mast Association | High Density Log | 88 | 111-140 | Harvest | Single Tree Selection | 4111 - S.Maple, Hard Mast Association | Cmpt. Review Proposal |
|------------------------|------|---------------------------------------|------------------|----|---------|---------|-----------------------|---------------------------------------|-----------------------|

Prescription Selection harvest. Harvest down to approximately 80 BA creating regeneration gaps where feasible. The far north end of stand will be retained. Favor to leave minor component species especially beech, hemlock and birch for wildlife trees.

Other Comments: This stand will be cut in winter months due to access. The access will be through private.

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

Proposed Start Date: 10/01/2013



| S t a n d | Treatment Name | Acres | CoverType | Size Density | Stand Age | BA Range | Treatment Type | Treatment Method | Cover Type Objective | Approval Status |
|--|-------------------|-------|---|-------------------------|--------------|-------------|-------------------|---------------------|---|--------------------------|
| 37 | 33083037-Cut | 30.2 | 42110 - Planted Red Pine | High Density Pole | 43 | 200+ | Harvest | Crown Thinning | 42110 - Planted Red Pine | Cmpt. Review Proposal |
| <u>Prescription:</u> Thinning. Thin down to 110-120 BA approximately. A mix of low thinning and some crown thinning. | | | | | | | | | | |
| <u>Specs:</u> | | | | | | | | | | |
| <u>Other</u> Discourage the access into the openings. | | | | | | | | | | |
| <u>Comments:</u> | | | | | | | | | | |
| <u>Next</u> | | | | | | | | | | |
| <u>Steps:</u> | | | | | | | | | | |
| <u>Proposed</u> | | | | | | | | | | |
| <u>Start Date:</u> 10/01/2013 | | | | | | | | | | |
| 42 | 33083042-Cut | 7.8 | 4111 - S.Maple, Hard Mast Association | High Density Pole | 88 | 81-110 | Harvest | Crown Thinning | 4111 - S.Maple, Hard Mast Association | Cmpt. Review Proposal |
| <u>Prescription:</u> Thinning. Enhance the stand quality by opening up to approximately 70-80BA. Favor to retain minor component species. | | | | | | | | | | |
| <u>Specs:</u> | | | | | | | | | | |
| <u>Other</u> Access in the winter months. Currently medium density balsam fir regeneration. Access will be through private. | | | | | | | | | | |
| <u>Comments:</u> | | | | | | | | | | |
| <u>Next</u> Regeneration harvests in subsequent treatment periods. | | | | | | | | | | |
| <u>Steps:</u> | | | | | | | | | | |
| <u>Proposed</u> | | | | | | | | | | |
| <u>Start Date:</u> 10/01/2013 | | | | | | | | | | |
| 47 | 33083047-Cut | 18.9 | 4115 - Y.Birch, Hemlock NH | High Density Pole | 85 | 111-140 | Harvest | Group Selection | 4115 - Y.Birch, Hemlock NH | Cmpt. Review Proposal |
| <u>Prescription:</u> Group Selection harvest. Harvest the stand down to approximately 60 BA by focusing on the maple,birch,ash,balsam fir, and spruce. Only those hemlock in order to harvest within the stand. Leave the beech. | | | | | | | | | | |
| <u>Specs:</u> | | | | | | | | | | |
| <u>Other</u> Currently heavy to balsam fir and hemlock about 10-20 feet tall. Protect the existing hemlock regeneration. | | | | | | | | | | |
| <u>Comments:</u> | | | | | | | | | | |
| <u>Next</u> Scarify the stands in the open areas created where regeneration does not exist. Acceptable regeneration of hemlock,conifer, and hardwood | | | | | | | | | | |
| <u>Steps:</u> species. | | | | | | | | | | |
| <u>Proposed</u> | | | | | | | | | | |
| <u>Start Date:</u> 10/01/2013 | | | | | | | | | | |
| 48 | 33083048-Cut | 10.6 | 4110 - Sugar Maple Association | High Density Pole | 88 | 81-110 | Harvest | Crown Thinning | 4110 - Sugar Maple Association | Cmpt. Review Proposal |
| <u>Prescription:</u> Thinning. Open the stand up to approximately 70-80 BA to enhance the stand quality. Favor to leave the beech and hemlock. | | | | | | | | | | |
| <u>Specs:</u> | | | | | | | | | | |
| <u>Other</u> Currently areas of medium density beech regeneration. | | | | | | | | | | |
| <u>Comments:</u> | | | | | | | | | | |
| <u>Next</u> Look at regeneration cuts in subsequent treatment periods. | | | | | | | | | | |
| <u>Steps:</u> | | | | | | | | | | |
| <u>Proposed</u> | | | | | | | | | | |
| <u>Start Date:</u> 10/01/2013 | | | | | | | | | | |



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| Treatment Name | Acres | CoverType | Size Density | Stand Age | BA Range | Treatment Type | Treatment Method | Cover Type Objective | Approval Status |
|----------------------------|-------|--------------------------------|------------------|-----------|----------|----------------|-----------------------|--------------------------------|-----------------------|
| 50 33083050-cut-Cut | 9.5 | 4110 - Sugar Maple Association | High Density Log | 88 | 81-110 | Harvest | Single Tree Selection | 4110 - Sugar Maple Association | Cmpt. Review Proposal |

Prescription Specs: Selection harvest. Harvest stand down to 60 BA throughout to allow for existing regeneration to grow. Favor to leave some minor component species including the beech.

Other Comments: Access will be through private in the winter months. This stand was removed from SCA with a significant amount of sugar maple regeneration that can be enhanced.

Next Steps: Monitor the regeneration at appropriate intervals.

Proposed Start Date: 10/01/2013

| | | | | | | | | | |
|------------------------|------|--|------------------|-----|------|---------|-----------------|--|-----------------------|
| 51 33083051-Cut | 15.9 | 42390 - Mixed Non-Pine Upland Conifers | High Density Log | 111 | 200+ | Harvest | Group Selection | 42390 - Mixed Non-Pine Upland Conifers | Cmpt. Review Proposal |
|------------------------|------|--|------------------|-----|------|---------|-----------------|--|-----------------------|

Prescription Specs: Group selection harvest. Harvest the maple,ash,birch except for some wildlife trees, and only the cedar and hemlock necessary to operate and create gaps where the shorter lived species are present. Leave the pine. Some areas of stand will be opened up to lower BA's with some of the stand left significantly higher.

Other Comments:

Next Steps: Scarify the stand where openings are created. Acceptable regeneration of hemlock, other conifer species, and hardwoods.

Proposed Start Date: 10/01/2013

| | | | | | | | | | |
|------------------------------|-----|--------------|--|--|--|-----------------------|-----------------|--------------|-----------------------|
| 33 NF_33083033-NonFor | 2.0 | 3102 - Grass | | | | Non-Forest Management | Other - Specify | 3102 - Grass | Cmpt. Review Proposal |
|------------------------------|-----|--------------|--|--|--|-----------------------|-----------------|--------------|-----------------------|

Prescription Specs:

Other Comments:

Next Steps:

Proposed Start Date: Unspecified

| | | | | | | | | | |
|-------------------------------|-----|--------------|--|--|--|-----------------------|-----------------|--------------|-----------------------|
| 36 NF_33083036-NonFor1 | 4.7 | 3102 - Grass | | | | Non-Forest Management | Other - Specify | 3102 - Grass | Cmpt. Review Proposal |
|-------------------------------|-----|--------------|--|--|--|-----------------------|-----------------|--------------|-----------------------|

Prescription Specs: Maintain and enhance wildlife value of opening through cutting, mowing, tilling, herbaceous plantings, fertilizing, use of herbicide.

Perpetuate and enhance any existing mast resource through trimming and fertilizing existing trees as well as possibly establishing new apple/crabapple and or oak trees.

Other Comments:

Next Steps:

Proposed Start Date: Unspecified



| S t a n d | Treatment Name | Acres | CoverType | Size Density | Stand Age | BA Range | Treatment Type | Treatment Method | Cover Type Objective | Approval Status |
|---|-------------------------|-------|--------------|--------------|-----------|----------|-----------------------|------------------|----------------------|-----------------------|
| 39 | NF_33083039- NonFor1 | 1.9 | 3102 - Grass | | | | Non-Forest Management | Other - Specify | 3102 - Grass | Cmpt. Review Proposal |
| <p><u>Prescription</u> Maintain and enhance wildlife value of opening through cutting, mowing, tilling, herbaceous plantings, fertilizing, use of herbicide.</p> <p><u>Specs:</u> Perpetuate and enhance any existing mast resource through trimming and fertilizing existing trees as well as possibly establishing new apple/crabapple and or oak trees.</p> <p><u>Other Comments:</u></p> <p><u>Next Steps:</u></p> <p><u>Proposed Start Date:</u> Unspecified</p> | | | | | | | | | | |

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|---|------------------------|-----|--------------|--|--|--|-----------------------|-----------------|--------------|-----------------------|
| 40 | NF_33083040- NonFor | 1.6 | 3102 - Grass | | | | Non-Forest Management | Other - Specify | 3102 - Grass | Cmpt. Review Proposal |
| <p><u>Prescription</u> Maintain and enhance wildlife value of opening through cutting, mowing, tilling, herbaceous plantings, fertilizing, use of herbicide.</p> <p><u>Specs:</u> Perpetuate and enhance any existing mast resource through trimming and fertilizing existing trees as well as possibly establishing new apple/crabapple and or oak trees.</p> <p><u>Other Comments:</u></p> <p><u>Next Steps:</u></p> <p><u>Proposed Start Date:</u> Unspecified</p> | | | | | | | | | | |

| | | | | | | | | | | |
|---|------------------------|-----|--------------|--|--|--|-----------------------|-----------------|--------------|-----------------------|
| 41 | NF_33083041- NonFor | 1.5 | 3102 - Grass | | | | Non-Forest Management | Other - Specify | 3102 - Grass | Cmpt. Review Proposal |
| <p><u>Prescription</u> Maintain and enhance wildlife value of opening through cutting, mowing, tilling, herbaceous plantings, fertilizing, use of herbicide.</p> <p><u>Specs:</u> Perpetuate and enhance any existing mast resource through trimming and fertilizing existing trees as well as possibly establishing new apple/crabapple and or oak trees.</p> <p><u>Other Comments:</u></p> <p><u>Next Steps:</u></p> <p><u>Proposed Start Date:</u> Unspecified</p> | | | | | | | | | | |

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|---|------------------------|-----|--------------|--|--|--|-----------------------|-----------------|--------------|-----------------------|
| 44 | NF_33083044- NonFor | 1.4 | 3102 - Grass | | | | Non-Forest Management | Other - Specify | 3102 - Grass | Cmpt. Review Proposal |
| <p><u>Prescription</u> Maintain and enhance wildlife value of opening through cutting, mowing, tilling, herbaceous plantings, fertilizing, use of herbicide.</p> <p><u>Specs:</u> Perpetuate and enhance any existing mast resource through trimming and fertilizing existing trees as well as possibly establishing new apple/crabapple and or oak trees.</p> <p><u>Other Comments:</u></p> <p><u>Next Steps:</u></p> <p><u>Proposed Start Date:</u> Unspecified</p> | | | | | | | | | | |

**Total Treatment
Acreage Proposed: 173.9**

Table 4 -- Treatments Prescribed with a Limiting Factor



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

#Error

Prescription Specs:

Other Comment:

Next Steps:

Proposed Start Date: #Error

Limiting Factor and No Treatment Reason

Total Treatment Acreage Proposed: 0

Out of YOE -- Treatments
Prescribed with No Limiting Factor

Year of Entry: 2014



| Treatment Name | Acres | CoverType | Size Density | Stand Age | BA Range | Treatment Type | Treatment Method | Cover Type Objective | Approval Status |
|--|-------|-----------|--------------|-----------|----------|----------------|------------------|----------------------|-----------------|
| <u>Prescription</u> <u>Specs:</u> | | | | | | | | | |
| <u>Other</u> <u>Comments:</u> | | | | | | | | | |
| <u>Next</u> <u>Steps:</u> | | | | | | | | | |
| <u>Proposed</u> <u>Start Date:</u> #Error | | | | | | | | | |

**Total Treatment
Acreage Proposed: 0**



| | Level 4 Cover Type | Size Density | Acres | Stand Age | BA Range | General Comments: |
|----|-------------------------------|-------------------------|-------|--------------|-------------|---|
| 1 | 6120 - Lowland Cedar | High Density Pole | 7.6 | 109 | | Heavy to cedar. Poor cedar wet ground. East edge is pure tamarack 7-8 inches. |
| 2 | 6122 - Black Spruce | High Density Sapling | 64.3 | 88 | | 1903 year of origin from oi. Heavy black spruce ranges from 2-7 inches dbh. Some White pine sawlogs. |
| 3 | 6121 - Tamarack | High Density Sapling | 5.1 | 88 | | Almost pure tamarack. Ranges from 3-8 inches dbh. Look at in ten years. |
| 4 | 4319 - Mixed Upland Forest | High Density Pole | 11.6 | 25 | | Cut under the Narenta Swamp hardwoods sale. All merchantable trees were cut except beech. Northedge and south tip heavy to balsam fir and middle with balm and scattered balsam fir and red maple. |
| 5 | 6120 - Lowland Cedar | High Density Pole | 5.2 | 109 | | Transition into swamp with the ne corner mostly cedar and southwest mostly tamarack and black spruce. |
| 6 | 6120 - Lowland Cedar | High Density Pole | 36.9 | 103 | | Cedar and small tamarack, cedar, and spruce. |
| 7 | 6124 - Lowland Spruce- Fir | High Density Sapling | 16.9 | 30 | | Strips were cut in 1982. Hardwood ridge and timber left along the west line. Very variable stand with balsam fir and cedar in the overstory and areas heavy to tag alder where the water table is higher. Some older cedar. The tag alder is heavier to the east. |
| 8 | 6121 - Tamarack | Medium Density Pole | 9.3 | 88 | | Sparse tamarack overstory. |
| 9 | 6122 - Black Spruce | Medium Density Pole | 150.3 | 109 | | This stand is a mix of tamarack and black spruce with a mix of diameters between 3 and 6 inches. The cedar is mostly along the edges of stand toward ridges. |
| 10 | 6121 - Tamarack | Medium Density Pole | 16.5 | 80 | | 40-60 BA with 1-2 stick trees. |
| 11 | 42330 - Upland Fir | High Density Sapling | 11.1 | 25 | | This stand was cut under the Narenta Swamp hardwoods sale. All trees except cedar, white pine and hemlock were cut. |
| 13 | 6120 - Lowland Cedar | High Density Pole | 18.0 | 104 | | |
| 14 | 6122 - Black Spruce | High Density Sapling | 37.9 | 45 | | |
| 15 | 42330 - Upland Fir | High Density Sapling | 12.7 | 25 | | Mix of some older balsam fir with some spruce. Most is younger with scattered areas of merchantable timber. Cut under the Narenta Swamp hardwoods sale with all merchantable trees cut except beech. |
| 16 | 42330 - Upland Fir | Medium Density Pole | 7.7 | 25 | | Ranges from 25-50% canopy with some merchantable and unmerchantable balsam fir. Island cut under the Narenta Swamp hardwoods sale. All trees except beech were cut. |

| S t a n d | Escanaba Mgt. Unit | | 5 – Forested Stands | | | Compartment: 083 | General Comments: |
|-----------------------|--|-------------------------|---------------------|--------------|-------------|---------------------|---|
| | Level 4 Cover Type | Size Density | Acres | Stand Age | BA Range | Year of Entry: 2014 | |
| 17 | 6122 - Black Spruce | Medium Density | 14.0 | 20 | | | Some overstory black spruce at 5 inches and tamarack at 5 inches. The smaller trees are the main stand with the scattering of larger trees a part of the canopy. |
| 18 | 6120 - Lowland Cedar | Medium Density Pole | 7.4 | 109 | | | |
| 19 | 6122 - Black Spruce | High Density Sapling | 34.8 | 77 | | | poor quality black spruce swamp. |
| 20 | 4110 - Sugar Maple Association | High Density Pole | 5.4 | 72 | 51-80 | | Not ready this treatment period. The paper birch cut out with a few left standing. Cedar, hemlock, birch on the west edge to the swamp. |
| 21 | 4115 - Y.Birch, Hemlock NH | High Density Pole | 2.2 | 88 | 1-50 | | Last cut in 2006 under the bittners hardwood sale. All spruce and fir and orange marked trees cut. Look to treat with pre-inventory stand 19. Couple of cedar trees here as well. One basal area swing recorded due to small size of stand. |
| 22 | 6122 - Black Spruce | High Density Pole | 8.1 | 109 | | | |
| 23 | 4112 - Maple, Beech, Cherry Association | High Density Log | 22.3 | 88 | 111-140 | | The very south and north end are better quality hardwood. Patches of hemlock. Other species include yellow birch. |
| 24 | 6120 - Lowland Cedar | High Density Pole | 9.3 | 109 | | | Poor quality cedar. |
| 25 | 6120 - Lowland Cedar | High Density Pole | 77.5 | 109 | | | |
| 26 | 42330 - Upland Fir | Medium Density | 3.0 | 21 | | | Part of the new 40 acquired. Open ridge with balsam fir and mixed deciduous species. Tamarack and aspen here as well. |
| 27 | 6122 - Black Spruce | High Density Pole | 12.5 | 79 | | | Mostly black spruce with tamarack. Black spruce is 5-7 inches and some 4 stick and tamarack 7 inches 4 sticks. The timber gets smaller as you go south. |
| 28 | 6120 - Lowland Cedar | High Density Pole | 7.2 | 109 | | | |
| 29 | 6122 - Black Spruce | High Density Sapling | 195.5 | 109 | | | Mix of small diameter black spruce and tamarack and a couple of pockets of a larger than 4 inch diameter. Couple of small islands. |
| 30 | 6122 - Black Spruce | High Density Pole | 6.0 | 82 | | | Mix of very small and about 7 inch diameter black spruce. Maybe next treatment period. |
| 31 | 4112 - Maple, Beech, Cherry Association | High Density Log | 15.1 | 88 | 111-140 | | Last cut in 1988 under the Makosiy homestead hardwood sale. All paper birch, aspen, spruce/fir and marked hardwoods were cut. The north end drops into more red maple. |





| Stand | Level 4 Cover Type | Size Density | Acres | Stand Age | BA Range | General Comments: |
|-------|--|----------------------|-------|-----------|----------|---|
| 32 | 6128 - Lowland Coniferous, Mixed Deciduous | Medium Density Pole | 11.7 | 24 | | This stand was cut under the Makosky Homestead Hardwood sale in 1988. All the cedar was left and short lived species removed. |
| 34 | 4111 - S.Maple, Hard Mast Association | High Density Log | 17.8 | 88 | 111-140 | The north end is a pocket of balsam fir/red maple and some balm. The far north end of stand will be retained. |
| 35 | 42350 - Upland Hemlock | High Density Pole | 13.0 | 81 | | Last cut in 1996. Some white pine and balsam fir regeneration in open areas. Not much for hemlock regeneration. Along the west edge of red pine stand there is more pine. |
| 37 | 42110 - Planted Red Pine | High Density Pole | 30.2 | 43 | 200+ | Make sure to discourage access into the openings. |
| 38 | 6120 - Lowland Cedar | High Density Pole | 15.4 | 99 | | Mix of tamarack and cedar in the overstory with tag alder underneath. |
| 42 | 4111 - S.Maple, Hard Mast Association | High Density Pole | 7.8 | 88 | 81-110 | Nice hardwood stand. Some hemlock patches and scattered trees. No maple regeneration medium density balsam fir. |
| 43 | 6122 - Black Spruce | High Density Pole | 156.7 | 109 | | Pockets of larger diameter pine. |
| 45 | 42330 - Upland Fir | High Density Sapling | 10.1 | 32 | | West side is a ridge of maple and balsam fir and east is balsam fir. |
| 46 | 6122 - Black Spruce | High Density Sapling | 140.4 | 82 | | Small diameter 1-2 stick spruce. |
| 47 | 4115 - Y.Birch, Hemlock NH | High Density Pole | 18.9 | 85 | 111-140 | Heavy to balsam fir and hemlock in the understory 10-20 feet tall. Not the best quality stand. |
| 48 | 4110 - Sugar Maple Association | High Density Pole | 10.6 | 88 | 81-110 | Scattered clumps of hemlock. |
| 49 | 429 - Mixed Upland Conifers | High Density Log | 1.5 | 92 | | Part of SCA complex in compartment 83. |
| 50 | 4110 - Sugar Maple Association | High Density Log | 9.5 | 88 | 81-110 | Remove stand from SCA and harvest. Excellent sugar maple regeneration about 3-5 feet tall. North edge is 20 feet tall. The fringe of the stand is balsam fir regeneration. |
| 51 | 42390 - Mixed Non-Pine Upland Conifers | High Density Log | 15.9 | 111 | 200+ | Hemlock and cedar stand with about 30% deciduous species. This stand has a mix of lowland cedar and upland hemlock, cedar, deciduous species. |
| 52 | 4191 - Mixed Upland Deciduous with Conifer | High Density Pole | 33.2 | 25 | | Most of this stand was cut under the Makosky homestead hardwood sale. Pocket of ash in the south end. Cedar regeneration throughout with taller cedar along the east line. . Mix of pole and sapling stand. |

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Escanaba Mgt. Unit

5 – Forested Stands

Compartment: 083

Year of Entry: 2014



| | Level 4 Cover Type | Size Density | Acres | Stand Age | BA Range | General Comments: |
|-----------|--|-------------------------|-------|--------------|-------------|---|
| 53 | 4199 - Other Mixed Upland Deciduous | High Density Sapling | 6.8 | 25 | | Mix of mostly balsam and aspen with a trace amount of hemlock and tamarack in the understory. |
| 54 | 42210 - Natural Red Pine | Medium Density Log | 4.5 | 92 | | SCA stand. |
| 55 | 6120 - Lowland Cedar | High Density Pole | 24.6 | 121 | | High density of balsam fir regeneration along the west and central portions of stand. Mixed upland/lowland site. |
| 56 | 6120 - Lowland Cedar | High Density Pole | 6.9 | 112 | | More lowland and less balsam fir regeneration here than pre-inventory stand 46. Trace of cedar regeneration and some white pine and red maple in the overstory. |
| 57 | 42290 - Natural Mixed Pine | High Density Sapling | 2.3 | 20 | | Large 16 inch white pine and red pine left about 5% of canopy. This stand was cut under the Ford River Switch sale. All trees cut and orange marked pine. |



| Stand | Cover Type | Acres | Managed Site | Management Priority (Objective) | General Comments: |
|-------|--------------|-------|--------------|---------------------------------|-------------------|
| 12 | 6225 - Bog | 1.3 | N/A | Unspecified | |
| 33 | 3102 - Grass | 2.0 | Yes | Medium (NonForested) | |
| 36 | 3102 - Grass | 4.7 | No | High (NonForested) | |
| 39 | 3102 - Grass | 1.9 | No | High (NonForested) | |
| 40 | 3102 - Grass | 1.6 | No | High (NonForested) | |
| 41 | 3102 - Grass | 1.5 | No | Medium (NonForested) | |
| 44 | 3102 - Grass | 1.4 | No | Medium (NonForested) | |



7 – PROPOSED SPECIAL CONSERVATION AREA* (SCA) DETAILS

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

| Stand | SCA Type | SCA Name | Acres | Comments |
|-------|-------------------|--------------|-------|--|
| 46 | Unique Site - SCA | 33083046 | 46.2 | Portion of this stand is an SCA. Part of the Narenta swamp complex which continues to the south into compartment 82. This SCA is a lowland spruce and tamarack swamp that allow for natural processes to operate. This SCA provides for wildlife habitat that utilize lowland conifer swamp. |
| 49 | Unique Site - SCA | 33083049 | 1.5 | Part of the Narenta swamp complex which continues to the south into compartment 82. This SCA is a lowland spruce and tamarack swamp that allow for natural processes to operate. This SCA provides for wildlife habitat that utilize lowland conifer swamp. |
| 50 | SCA Removal | 33083050-cut | 9.5 | This stand is proposed to be removed from SCA status. This is a maple stand with existing regeneration that lies outside the Narenta swamp lowland conifer complex habitat benefits. |
| 54 | Unique Site - SCA | 33083054 | 4.5 | This stand is an upland island that is a part of the Narenta swamp complex which continues to the south into compartment 82. This SCA is a lowland spruce and tamarack swamp that allow for natural processes to operate. This SCA provides for wildlife habitat that utilize lowland conifer swamp. |



8 – DEDICATED CONSERVATION AREA DETAILS

* This is a list of Dedicated Biodiversity Areas for this compartment along with a 1/4 mile buffer surrounding the compartment. Refer to Dedicated Conservation Area Map for areas that the below listed Conservation Areas are located.

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

| Conservation Area | Type | Description |
|--------------------------|-------------|--------------------|
|--------------------------|-------------|--------------------|

Cover Type & Treatment Map

Compartment: 083
 T38N R24W
 02 03 11 14 15
 County: Delta
 Unit: Escanaba
 YOE: 2014
 Acres: 1,384 GIS Calculated
 Examiner: Dan Racine
 Map Revised: 07/19/2012
 Map Phase: Pre-Review

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



Legend

- Miris Corners
- + Remonumented Section Corners
- Paved Roads
- Gravel Roads
- Poor Dirt Roads
- Stream
- Intermittent Stream
- Lakes and Rivers
- State Forest Land

Treatments

- Seed Tree (w/Reserves)
- Selection (Group, Single Tree)
- Other Harvest - See Comments
- Opening Maintenance

Forest Stands

Level 3

- 411 - Northern Hardwood
- 419 - Mixed Upland Deciduous
- 421 - Planted Pines
- 422 - Natural Pines
- 423 - Other Upland Conifers
- 429 - Mixed Upland Conifers
- 431 - Upland Mixed Forest
- 612 - Lowland Coniferous Forest

Non-Forest Stands

Level 3

- 310 - Herbaceous Openland
- 622 - Lowland Shrub



