



**ROSCOMMON FOREST MANAGEMENT UNIT
COMPARTMENT REVIEW PRESENTATION**

COMPARTMENT # 126 ENTRY YEAR: 2012

Compartment Acreage: 1120 County: Roscommon

Revision Date: 06-28-2010

Stand Examiner: Ben Wiese

Legal Description: T22N R1W sections 20, and 21

Management Area: Upper Muskegon

Management Goals: Provide for sustainable ecosystem based management including recreation wildlife and forest products. Maintain for healthy and diverse forested stands.

Soil and Topography: Grayling sand. Outwash plain with rolling hills, valley running east to west.

Ownership Patterns, Development, and Land Use in and Around the Compartment: Private land to the North and 160 acres in the NW ¼ of section 21.

Unique, Natural Features: Kirtland's warbler approximately 0.5 mile S in SW 1/4 of section 21; additional records to SE and NE. Bald eagle documented to W and SE. Osprey occurrences to W. Historical king rail record to NE. Common loon to W. Historical great blue heron rookeries to W. Secretive locust to W and SW. Historical Hill's thistle to NE. Historical ram's head lady's-slipper to NW.

Archeological, Historical, and Cultural Features: None noted.

Special Management Designations or Considerations: None noted

Watershed and Fisheries Considerations: None noted.

Wildlife Habitat Considerations: Deer, grouse, turkey, bear, birds.

Mineral Resource and Development Concerns and/or Restrictions: Surface sediments consist of ice-contact and glacial outwash sand and gravel and postglacial alluvium. The glacial drift thickness varies between 600 and 800 feet. Beneath the glacial drift are the Pennsylvanian Grand River and Saginaw Formations. The Saginaw is quarried for clay in the State. Most of the nearby gravel pits are associated with upland areas. The nearest gravel pit is located one-quarter mile to the north. Gravel potential is thought to be good. West Branch Field lies seven miles to the east. The field has produced over 15.9 million BO from the Devonian Dundee and Richfield Formations and is currently in secondary recovery operations in the Dundee. It has also produced over 10.7 Bcf gas from the Prairie du Chien Formation. None of the State land is currently leased in the compartment.

Vehicle Access: There is good access throughout the compartment, utilizing various forest roads, county roads, snowmobile and ATV trails.

Survey Needs: None at this time

Recreational Facilities and Opportunities: Opportunities include hunting, hiking, and motorsports.

Fire Protection: Jack pine, pine, oak and aspen cover types. Compartment has good access.

Additional Compartment Information:

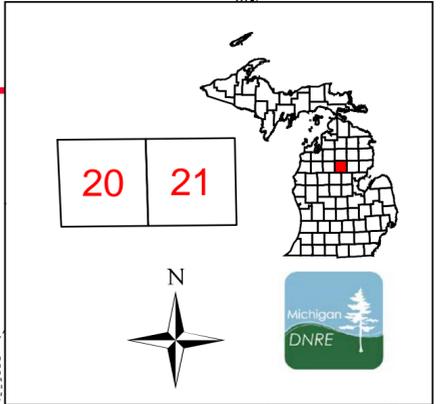
- **The following 5 reports from the Inventory are attached:**
 - ◆ **Cover Type by Age Class**
 - ◆ **Cover Type by Management Objective**
 - ◆ **Compartment Volume Summary**
 - ◆ **Proposed Treatments – No Limiting Factors**
 - ◆ **Proposed Treatments – With Limiting Factors**

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

Cover Type & Treatment-Map

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

Compartment 126
 T22N, R01W, Sec. 20, 21
 County: Roscommon
 Unit: Roscommon
 YOE: 2012
 Acres: 1,121 GIS Calculated
 Stand Examiner: Ben Wiese
 Map Revised: 08/27/2010
 Map Phase: Pre-Review



Legend

- Miris Corners
- Remonumented Section Corners
- Highway
- Paved Roads
- County Gravel Roads
- Poor Dirt Roads
- County Poor Dirt Roads
- Trails
- Interstate Highway
- State Highway
- ORV Trails
- ORV Routes
- MCCCT Trails
- Motorcycle Trails
- Snowmobile Trails
- Intermittent Stream/Drain
- Stream
- Lakes and Rivers
- Selection (Group, Single Tree)
- Forest Stands**
- Level 3
- 411 - Northern Hardwood
- 412 - Oak Types
- 413 - Aspen Types
- 419 - Mixed Upland Deciduous
- 421 - Planted Pines
- 422 - Natural Pines
- 431 - Upland Mixed Forest
- Non-Forest Stands**
- Level 3
- 310 - Herbaceous Openland
- 330 - Low-Density Trees
- 622 - Lowland Shrub

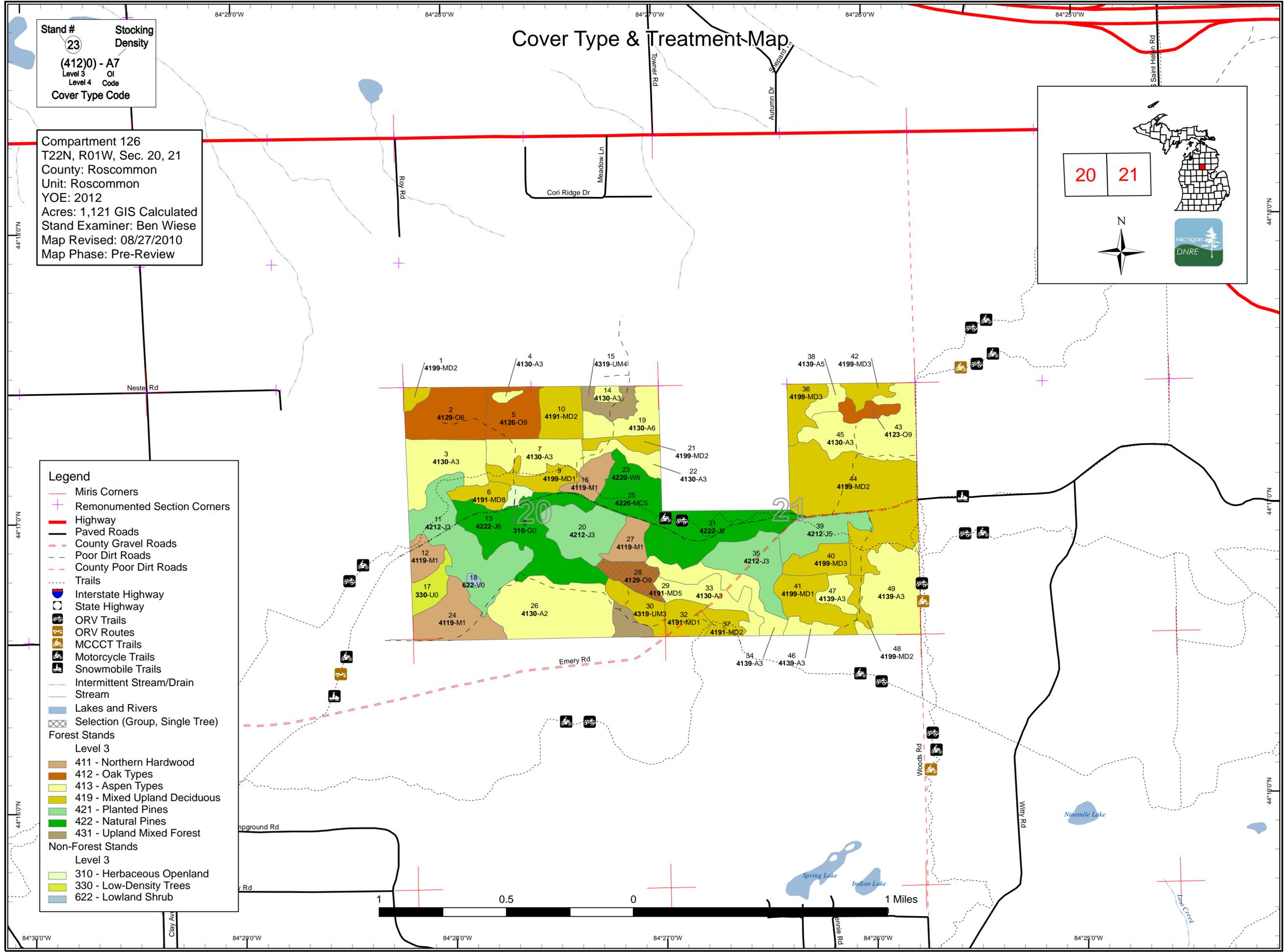
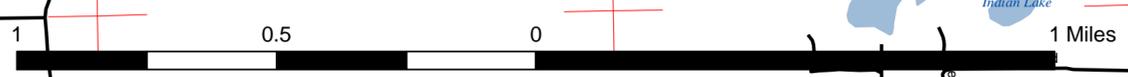
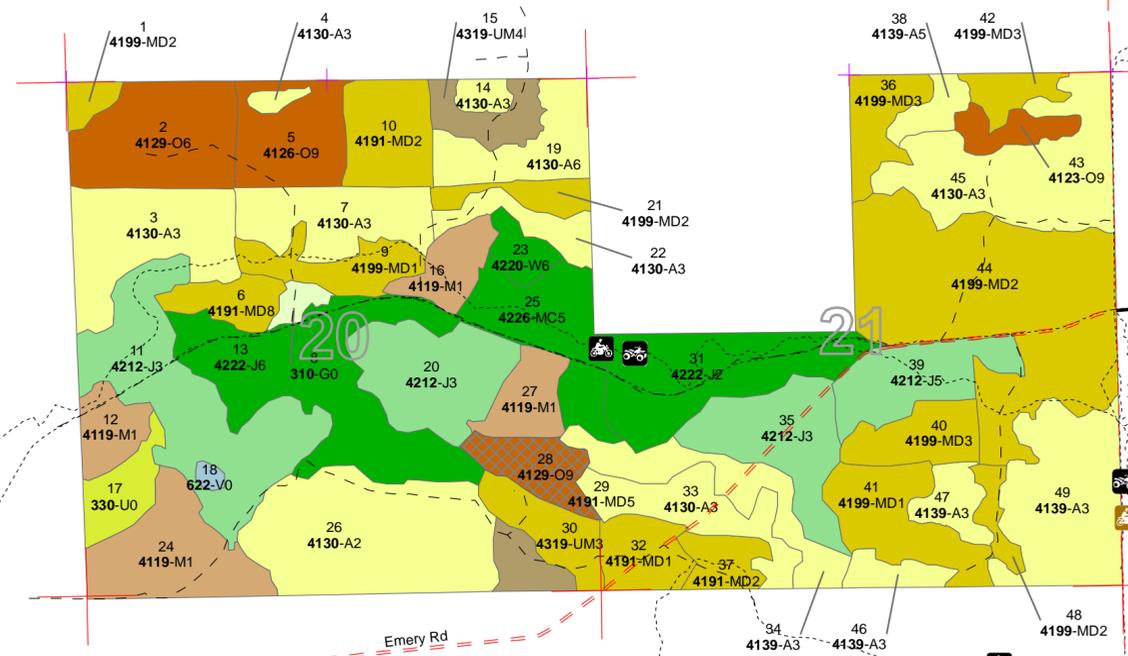


Table 1 – Total Acres by Cover Type and Age Class

Data updated before 10:00 AM



| | Age Class | | | | | | | | | | | | | | Total | |
|------------------------|--------------|------------|------------|------------|----------|------------|----------|----------|----------|-----------|----------|----------|----------|----------|----------|-------------|
| | Non-Forested | 1-9 | 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 |
| Aspen | 0 | 47 | 11 | 284 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 343 |
| Bog | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |
| Herbaceous Openland | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 |
| Jack Pine | 0 | 45 | 128 | 26 | 0 | 64 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 264 |
| Low-Density Trees | 13 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 13 |
| Mixed Upland Deciduous | 0 | 176 | 0 | 92 | 0 | 0 | 0 | 0 | 11 | 0 | 0 | 0 | 0 | 0 | 0 | 279 |
| Natural Mixed Pines | 0 | 0 | 0 | 0 | 0 | 31 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 31 |
| Northern Hardwood | 0 | 71 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 71 |
| Oak | 0 | 0 | 0 | 38 | 0 | 0 | 0 | 0 | 0 | 49 | 0 | 0 | 0 | 0 | 0 | 87 |
| Upland Mixed Forest | 0 | 0 | 0 | 9 | 0 | 12 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 21 |
| White Pine | 0 | 0 | 0 | 7 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 7 |
| Total | 18 | 339 | 140 | 457 | 0 | 107 | 0 | 0 | 0 | 60 | 0 | 0 | 0 | 0 | 0 | 1121 |



Table 2 – Proposed Treatment Summaries

Data updated before 10:00 AM

Roscommon Mgt. Unit
Year of Entry 2012

Compartment 126
Total Compartment Acres: 1121

Acres by Treatment Type

| | | | | |
|-------------------------|-------------------------|-------------------|----------------------|-----------|
| Commercial Harvest - 15 | Site Prep - 0 | Tree Planting - 0 | Prescribed Burn - 13 | Other - 0 |
| Habitat Cut - 0 | Opening Maintenance - 0 | Tree Seeding - 0 | Pesticide - 0 | |

Cover Type by Harvest Method

| | Clearcut | Selection | Seed Tree | Shelterwood | Thinning | Other - Specify | Total Acres |
|-------|----------|-----------|-----------|-------------|----------|-----------------|-------------|
| Oak | 0 | 15 | 0 | 0 | 0 | 0 | 15 |
| Total | 0 | 15 | 0 | 0 | 0 | 0 | 15 |



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| Treatment Name | Acres | Stage1 CoverType | Size Density | Stand Age | Treatment Type | Treatment Method | Cover Type Objective | Approval Status |
|-----------------|-------|------------------|------------------|-----------|----------------|-----------------------|----------------------|-----------------------|
| 28 71126028-Cut | 14.5 | 4129 - Mixed Oak | High Density Log | 84 | Harvest | Single Tree Selection | Mixed Oak | Cmpt. Review Proposal |

Prescription Harvest objective - thin pin oak, red oak, white oak and red maple through all diameter classes selecting suppressed and poor quality trees first, to a range of 80 - 100 BA. to improve the health and saw log potential of the residual stand. Create 7 or 8 large regeneration gaps in the canopy by selecting several healthy oaks to encourage stump sprouting. Leave some large aspen standing for future snags and CWD. Scarify the soil in the regeneration gaps.

Other Comments: There is some natural oak regen. along the edges of stand. Red maple is a major component of the stand and should be encouraged to grow into quality sawlogs.

Next Steps: Plant three northern red oak seedlings per regeneration gap in cages ~ 3' diameter x 6' height

**Total Treatment
 Acreage Proposed: 14.5**



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| Treatment Name | Acres | Stage1 CoverType | Size Density | Stand Age | Treatment Type | Treatment Method | Cover Type Objective | Approval Status |
|----------------|-------|------------------|--------------|-----------|----------------|------------------|----------------------|-----------------|
|----------------|-------|------------------|--------------|-----------|----------------|------------------|----------------------|-----------------|

#Error

Prescription
Specs:

Other
Comment:

Next
Steps:

Limiting Factor and No
Treatment Reason

Total Treatment
Acres Proposed: 0

Data updated before 10:00 AM

Out of YOE -- Treatments
Prescribed with No Limiting Factor

Year of Entry: 2012



| Treatment Name | Acres | Stage1 CoverType | Size Density | Stand Age | Treatment Type | Treatment Method | Cover Type Objective | Approval Status |
|----------------|-------|------------------|--------------|-----------|----------------|------------------|----------------------|-----------------|
|----------------|-------|------------------|--------------|-----------|----------------|------------------|----------------------|-----------------|

Prescription
Specs:

Other
Comments:

Next
Steps:

**Total Treatment
Acreage Proposed: 0**

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Roscommon Mgt. Unit

5 – Forested Stands
Data updated before 10:00 AMCompartment: 126
Year of Entry: 2012

| | Level 4 Cover Type | Size Density | Acres | Stand Age | BA Range | General Comments: |
|----|--|----------------------|-------|--------------|-------------|--|
| 1 | 4199 - Other Mixed Upland Deciduous | Medium Density | 4.6 | 27 | | Gets wet in NW corner. |
| 2 | 4129 - Mixed Oak | High Density Pole | 38.3 | 25 | | Trace red pine and balsam fir. |
| 3 | 4130 - Aspen | High Density Sapling | 38.0 | 7 | | Stand established, regenerated well. |
| 4 | 4130 - Aspen | High Density Sapling | 2.4 | 5 | | |
| 5 | 4126 - White, Black, N. Pin Oak | High Density Log | 25.4 | 87 | 81-110 | Many of the red oak and pin oak are multi stemmed. Scattered white pine and jack pine seedlings. Stand looks healthy, some mortality of suppressed trees. |
| 6 | 4191 - Mixed Upland Deciduous with Conifer | Medium Density Log | 11.3 | 89 | 1-50 | Poor quality pin oak logs. Heavy firewood cutting in stand. Oak still healthy. |
| 7 | 4130 - Aspen | High Density Sapling | 28.6 | 27 | | Trace white oak, red pine, jack pine and white pine. |
| 9 | 4199 - Other Mixed Upland Deciduous | Low Density Sapling | 16.5 | 25 | | Stand open with cherry and oak mix, understory open |
| 10 | 4191 - Mixed Upland Deciduous with Conifer | Medium Density | 22.2 | 7 | | Stand was clearcut. Oak single stem and stump sprouts. Heavy browse. Red maple and bigtooth aspen dense in some areas. Stand regenerating well. |
| 11 | 42121 - Planted Jack Pine, Mixed Deciduous | High Density Sapling | 60.9 | 16 | | |
| 12 | 4119 - Mixed Northern Hardwoods | Low Density Sapling | 11.6 | 6 | | Jack pine planted < 6" |
| 13 | 42220 - Natural Jack Pine | High Density Pole | 64.4 | 41 | | Stand may be natural, could not find planting record. BA varies with dense pockets of jack pine. Scattered super canopy pin oak. |
| 14 | 4130 - Aspen | High Density Sapling | 4.2 | 27 | | Small stand well stocked, witch hazel understory dense in some places. |
| 15 | 4319 - Mixed Upland Forest | Low Density Pole | 11.9 | 40 | | Stand is open, savannah like, possible barrens. Trees are all open grown with large canopies and low diameter to height ratio. Bigtooth occurs on E. edge near stand 17. |
| 16 | 4119 - Mixed Northern Hardwoods | Low Density Sapling | 12.6 | 7 | | Stand was planted to jack pine seedlings are < 6" have not reached canopy. |
| 19 | 4130 - Aspen | High Density Pole | 22.6 | 27 | | Aspen stand with barren pocket. Remnant burned wp stumps. |

| Stand | Roscommon Mgt. Unit | | 5 – Forested Stands | | | Compartment: 126 |
|-------|--|----------------------|---------------------|-----------|----------|---|
| | Level 4 Cover Type | Size Density | Acres | Stand Age | BA Range | Year of Entry: 2012 |
| | | | | | | General Comments: |
| 20 | 42120 - Planted Jack Pine | High Density Sapling | 34.8 | 17 | | Jack pine plantation. |
| 21 | 4199 - Other Mixed Upland Deciduous | Medium Density | 8.8 | 6 | | Stand was clearcut, Pin oak is sprouting from stumps and growing individual stems. Red maple from stump sprouts. Canopy not fully closed, stand doing well. |
| 22 | 4130 - Aspen | High Density Sapling | 11.2 | 17 | | Stand regenerating nicely. Small white pine pocket in south central part of stand. Pin oak growing from stump sprouts. |
| 23 | 42200 - Natural White Pine | High Density Pole | 7.4 | 27 | | Stand is wet there is a small water seep. Nice white pine and red, unique micro habitat. Lot of blowdown oak. Super canopy white oak, red oak, white pine and red maple. Trace red pine. |
| 24 | 4119 - Mixed Northern Hardwoods | Low Density Sapling | 33.2 | 7 | | Planted to red pine < 6". Has not reached canopy yet |
| 25 | 42260 - Natural Pine, Mixed Deciduous | Medium Density Pole | 31.1 | 49 | | Stand is a mixture with pockets of jack pine and white pine with black cherry scattered throughout. White pine more dense in the north part of stand. Pocket of cherry in central and east part of stand. |
| 26 | 4130 - Aspen | Medium Density | 65.0 | 27 | | Pole sized stand. |
| 27 | 4119 - Mixed Northern Hardwoods | Low Density Sapling | 13.5 | 7 | | Jack pine plantation < 8" with scattered natural jack pine. Pin oak stump sprouts. Cherry and maple thick in some places especially red maple in southwest part of stand. |
| 28 | 4129 - Mixed Oak | High Density Log | 14.5 | 84 | 141-170 | Nice mature oak stand with decent logs. Some areas have thick red maple understory. Trace red pine. White pine moving in on south edge. Some oak regen. along edges. Many oak are healthy with full crowns. Stand is converting to maple. |
| 29 | 4191 - Mixed Upland Deciduous with Conifer | Medium Density Pole | 15.9 | 27 | | Mixed stand, large grassy opening/frost pocket. |
| 30 | 4319 - Mixed Upland Forest | High Density Sapling | 8.6 | 27 | | |
| 31 | 42221 - Natural Jack Pine, Mixed Deciduous | Medium Density | 44.9 | 7 | | |
| 32 | 4191 - Mixed Upland Deciduous with Conifer | Low Density Sapling | 14.6 | 7 | | Planted to jack pine seedlings are 8-14" natural jack regen also present. Aspen concentrated mostly in the sw corner. |
| 33 | 4130 - Aspen | High Density Sapling | 23.6 | 27 | | The stand has several patches of pin oak and cherry. Red maple is mostly mixed with the quaking aspen where it is co-dominant. |
| 34 | 4139 - Aspen, Mixed Deciduous | High Density Sapling | 24.6 | 25 | | Trace red pine. |



| S t a n d | Roscommon Mgt. Unit | | 5 – Forested Stands | | | Compartment: 126 |
|-----------------------|--|----------------------|---------------------|--------------|-------------|--|
| | Level 4 Cover Type | Size Density | Acres | Stand Age | BA Range | Year of Entry: 2012 |
| | | | | | | General Comments: |
| 35 | 42121 - Planted Jack Pine, Mixed Deciduous | High Density Sapling | 32.9 | 17 | | Pin oak and cherry are dense in some areas. Jack pine was planted in 1993. |
| 36 | 4199 - Other Mixed Upland Deciduous | High Density Sapling | 14.5 | 27 | | Stand was cut in 1982. Natural white oak regen and trace white pine in understory. Witch hazel in pockets. |
| 37 | 4191 - Mixed Upland Deciduous with Conifer | Medium Density | 9.9 | 25 | | Scattered super canopy red pine and pin oak. |
| 38 | 4139 - Aspen, Mixed Deciduous | Medium Density Pole | 7.1 | 27 | | Very mixed stand, canopy density is variable. Oak from stump sprouts, trace white pine. |
| 39 | 42120 - Planted Jack Pine | Medium Density Pole | 25.7 | 27 | | |
| 40 | 4199 - Other Mixed Upland Deciduous | High Density Sapling | 16.7 | 27 | | Pockets of bigtooth aspen and quaking aspen. Cherry throughout trace jack pine. |
| 41 | 4199 - Other Mixed Upland Deciduous | Low Density Sapling | 26.9 | 7 | | Stand did not regenerate well |
| 42 | 4199 - Other Mixed Upland Deciduous | High Density Sapling | 8.3 | 27 | | Oak is regenerating from stump sprouts. Trace white ash. |
| 43 | 4123 - Red Oak | High Density Log | 8.7 | 85 | 81-110 | Very nice red oak stand, nice logs. Heavy maple understory. Oak canopy looks very healthy will live for a long time. |
| 44 | 4199 - Other Mixed Upland Deciduous | Medium Density | 103.4 | 7 | | Planted to red pine in 2004, seedlings still to small to show up in canopy. |
| 45 | 4130 - Aspen | High Density Sapling | 51.4 | 27 | | Very dense stand excellent aspen regen. oak is from stump sprouts. |
| 46 | 4139 - Aspen, Mixed Deciduous | High Density Sapling | 7.0 | 8 | | Trace jack pine |
| 47 | 4139 - Aspen, Mixed Deciduous | High Density Sapling | 9.6 | 27 | | Let grow nice stand. |
| 48 | 4199 - Other Mixed Upland Deciduous | Medium Density | 5.7 | 27 | | Scattered white, red and jack pine. |
| 49 | 4139 - Aspen, Mixed Deciduous | High Density Sapling | 47.6 | 27 | | Cut in 1982 pole sized oak stump sprouts, red maple starting to reach canopy. |





| Stand | Cover Type | Acres | Gen Cmts: |
|-------|-----------------------------------|-------|-----------|
| 8 | 3102 - Grass | 3.9 | |
| 17 | 3301 - Low Density Deciduous Tree | 12.7 | |
| 18 | 6225 - Bog | 1.6 | |



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.

Data updated before 10:00 AM

| Stand | SCA Type | SCA Name | Acres | Comments |
|-------|----------|----------|-------|----------|
| | | | | |



8 – DEDICATED CONSERVATION AREA DETAILS

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

Data updated before 10:00 AM

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

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