



**ROSCOMMON FOREST MANAGEMENT UNIT
COMPARTMENT REVIEW PRESENTATION**

COMPARTMENT # 67 ENTRY YEAR: 2013

Compartment Acreage: 351

County: Roscommon

Revision Date: 07-21-2011

Stand Examiner: Jason Lewicki

Legal Description: T23N R03W sections 4, 5 and 6

Management Area: Upper Muskegeon

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

Soil and Topography: Topography is generally flat to slightly rolling. Soils range from Greycalm and Klacking sands.

Ownership Patterns, Development, and Land Use in and Around the Compartment: This compartment is intermixed with private residential properties.

Unique, Natural Features: None known.

Archeological, Historical, and Cultural Features: None known

Special Management Designations or Considerations: None known

Watershed and Fisheries Considerations: None known

Wildlife Habitat Considerations: Deer, grouse, Woodcock, turkey.

Mineral Resource and Development Concerns and/or Restrictions:

Sections 4 - 6, T23N-R3W, Roscommon County

Surface sediments consist of ice-contact and glacial outwash sand and gravel and postglacial alluvium. The glacial drift thickness varies between 200 and 600 feet. Beneath the glacial drift is the Mississippian Michigan Formation. The Michigan is quarried for gypsum elsewhere in the State. The nearby gravel pits are associated with upland areas. Gravel pits are located in the east end of the compartment. Gravel potential in the E $\frac{1}{2}$ of the compartment is thought to be good. East Norwich Field is located five miles to the northwest. The field has produced over 15.9 million BO and 15.7 Bcf gas primarily from the Devonian Richfield Formation. It is in secondary recovery operations currently. Most of the State mineral rights were recently leased for oil and gas development.

Vehicle Access: Vehicle access is very good throughout the compartment.

Survey Needs: None at this time

Recreational Facilities and Opportunities: Opportunities include hunting.

Fire Protection: Hardwood cover types dominate this compartment. That combined with good vehicle access throughout creates low wildfire concerns.

Additional Compartment Information:

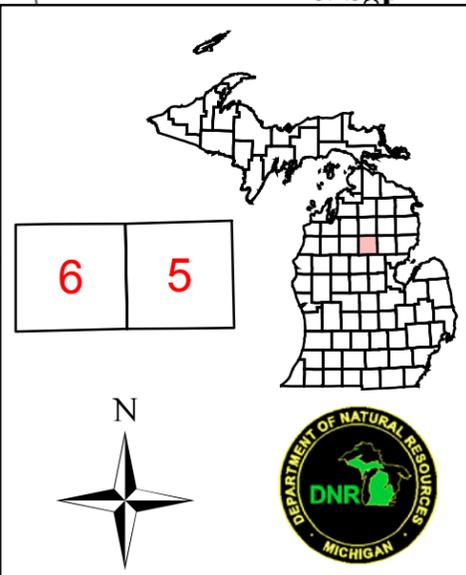
- **The following 5 reports from the Inventory System:**
 - ◆ **Cover Type by Age Class**
 - ◆ **Cover Type by Management Objective**
 - ◆ **Compartment Volume Summary**
 - ◆ **Proposed Treatments – No Limiting Factors**
 - ◆ **Proposed Treatments – With Limiting Factors**

- **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

Compartment 67
 T23N, R03W, Sec. 5, 6
 County: Roscommon
 Unit: Roscommon
 YOE: 2013
 Acres: 308 GIS Calculated
 Stand Examiner: Jason Lewicki
 Map Revised: 8/15/2011
 Map Phase: Pre-Review

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



Legend

- Paved Roads
- Poor Dirt Roads
- Closed Roads
- Pipe
- Power
- Lakes and Rivers
- State Forest Land

Treatments

- Thinning (Crown, Low, Systematic)
- Shelter Wood (w/Reserves)
- Selection (Group, Single Tree)
- Seed Tree (w/Reserves)
- Clearcut (w/Reserves, Patch/Strip)

Forest Stands

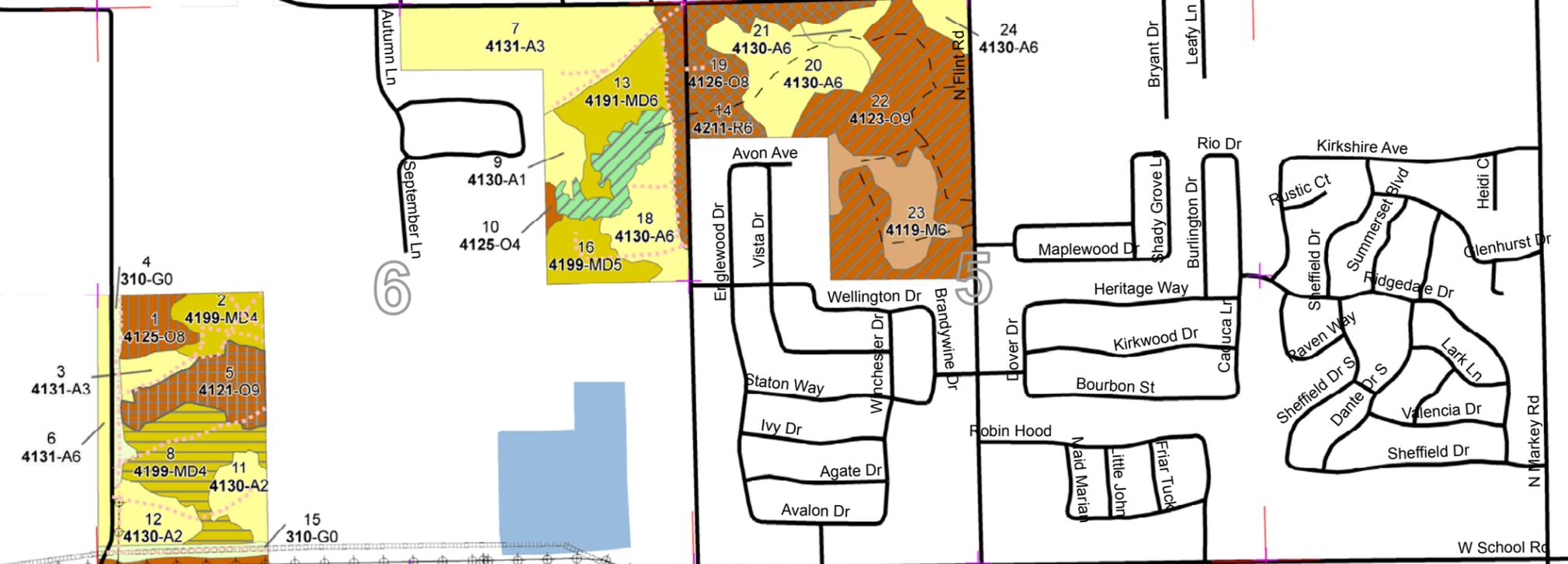
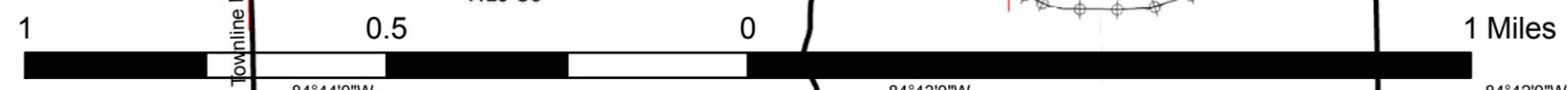
Level 3

- 411 - Northern Hardwood
- 412 - Oak Types
- 413 - Aspen Types
- 419 - Mixed Upland Deciduous
- 421 - Planted Pines

Non-Forest Stands

Level 3

- 310 - Herbaceous Openland



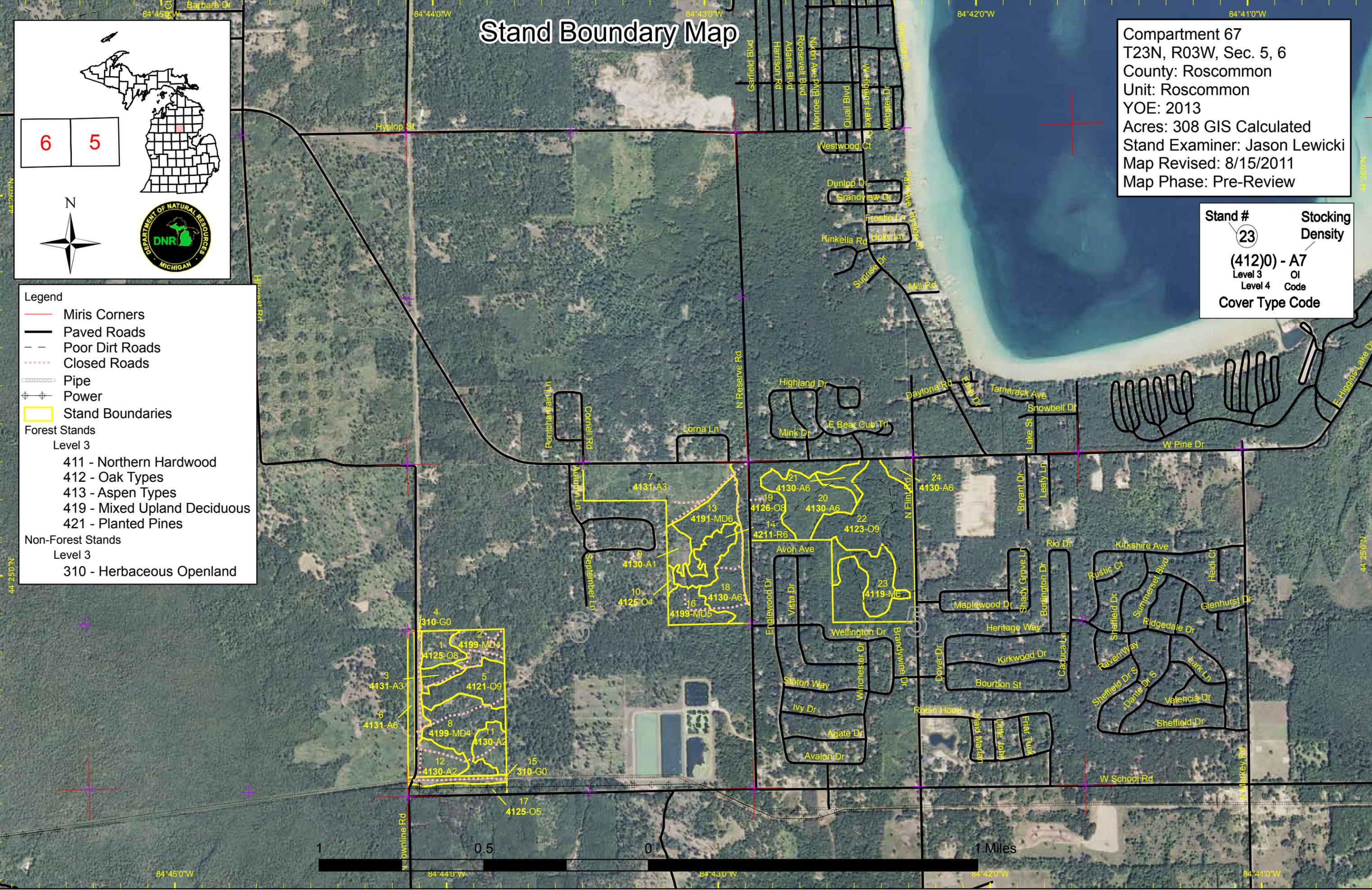
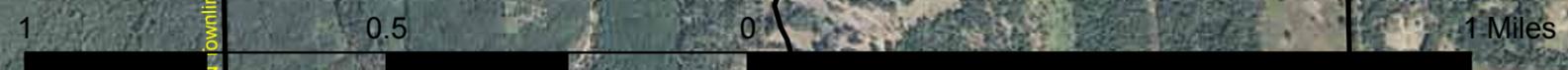
Stand Boundary Map

Compartment 67
 T23N, R03W, Sec. 5, 6
 County: Roscommon
 Unit: Roscommon
 YOE: 2013
 Acres: 308 GIS Calculated
 Stand Examiner: Jason Lewicki
 Map Revised: 8/15/2011
 Map Phase: Pre-Review

6 5

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

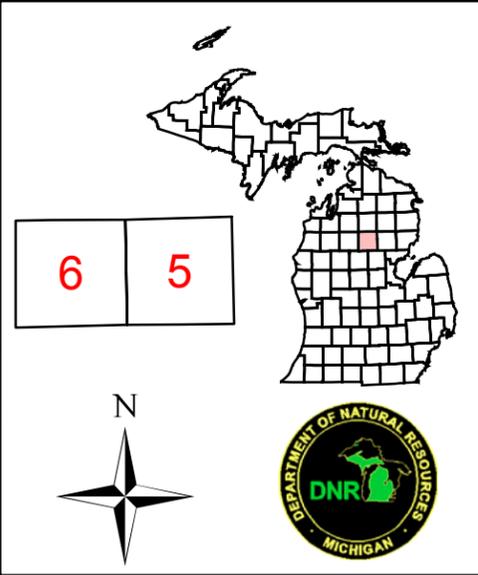
- Legend**
- Miris Corners
 - Paved Roads
 - Poor Dirt Roads
 - Closed Roads
 - Pipe
 - Power
 - Stand Boundaries
- Forest Stands**
- Level 3
- 411 - Northern Hardwood
 - 412 - Oak Types
 - 413 - Aspen Types
 - 419 - Mixed Upland Deciduous
 - 421 - Planted Pines
- Non-Forest Stands**
- Level 3
- 310 - Herbaceous Openland



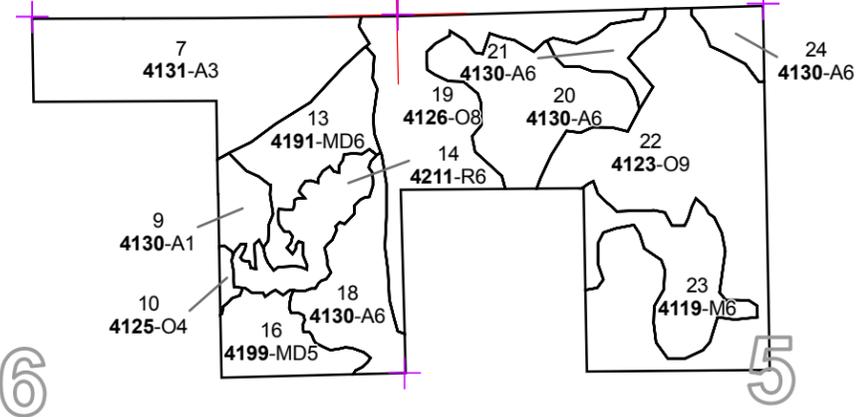
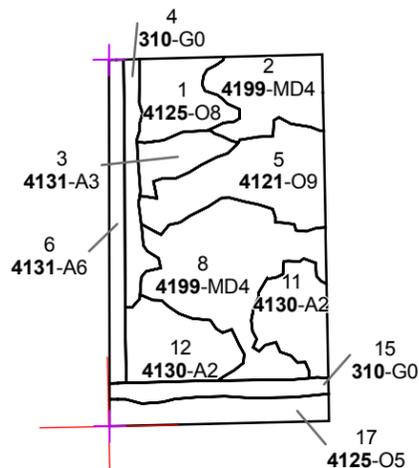
Dedicated & Proposed Special Conservation Area Map

Compartment 67
 T23N, R03W, Sec. 5, 6
 County: Roscommon
 Unit: Roscommon
 YOE: 2013
 Acres: 308 GIS Calculated
 Stand Examiner: Jason Lewicki
 Map Revised: 8/15/2011
 Map Phase: Pre-Review

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



- Legend**
- Miris Corners
 - + Remonumented Section Corners
 - Special Conservation Areas**
 - Boat Access Sites
 - Cold Water Lakes
 - Stand Boundaries
 - Forest Stands**
 - Level 3
 - 411 - Northern Hardwood
 - 412 - Oak Types
 - 413 - Aspen Types
 - 419 - Mixed Upland Deciduous
 - 421 - Planted Pines
 - Non-Forest Stands**
 - Level 3
 - 310 - Herbaceous Openland



84°45'0"W 84°44'0"W 84°43'0"W 84°42'0"W 84°41'0"W

44°26'0"N 44°25'0"N

44°26'0"N 44°25'0"N

Table 1 – Total Acres by Cover Type and Age Class



| | 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 | 61 | 0 | 43 | 0 | 0 | 0 | 0 | 0 | 6 | 0 | 0 | 0 | 0 | 0 | 110 |
| Herbaceous Openland | 10 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 10 |
| Mixed Upland Deciduous | 0 | 0 | 0 | 10 | 0 | 45 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 54 |
| Northern Hardwood | 0 | 0 | 0 | 15 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 15 |
| Oak | 0 | 0 | 0 | 1 | 0 | 7 | 0 | 0 | 0 | 22 | 81 | 0 | 0 | 0 | 0 | 110 |
| Red Pine | 0 | 0 | 0 | 0 | 0 | 10 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 10 |
| Total | 10 | 61 | 0 | 69 | 0 | 61 | 0 | 0 | 0 | 27 | 81 | 0 | 0 | 0 | 0 | 308 |



Table 2 – Proposed Treatment Summaries

Roscommon Mgt. Unit
Year of Entry 2013

Compartment 067
Total Compartment Acres: 308.4

Acres by Treatment Type

| | | | | |
|--------------------------|-------------------------|-------------------|---------------------|-----------|
| Commercial Harvest - 126 | Site Prep - 0 | Tree Planting - 0 | Prescribed Burn - 0 | Other - 0 |
| Habitat Cut - 7 | Opening Maintenance - 0 | Tree Seeding - 0 | Pesticide - 0 | |

Cover Type by Harvest Method

| | | Clearcut | Selection | Seed Tree | Shelterwood | Thinning | Other - Specify | Total Acres |
|-------------------------------|--|----------|-----------|-----------|-------------|----------|-----------------|-------------|
| Mixed Upland Deciduous | | 21 | 0 | 0 | 0 | 0 | 0 | 21 |
| Oak | | 0 | 27 | 14 | 7 | 54 | 0 | 103 |
| Red Pine | | 0 | 0 | 0 | 0 | 10 | 0 | 10 |
| Total | | 21 | 27 | 14 | 7 | 64 | 0 | 133 |



| S t a n d | Treatment Name | Acres | Stage1 CoverType | Size Density | Stand Age | Treatment Type | Treatment Method | Cover Type Objective | Approval Status |
|-----------------------|-------------------|-------|-----------------------------|-----------------------|--------------|-------------------|---------------------|------------------------------------|--|
| 1 | 71067001-Cut | 7.3 | 4125 - Black, N. Pin Oak | Medium Density Log | 83 | Harvest | Shelterwood | 4126 - White, Black, N. Pin Oak | Cmpt. Review Proposal - Incomplete |

Prescription Consider a light shelterwood treatment followed by underplanting white pine or simply underplant without a timber sale to supplement existing
Specs: regeneration and manage for an oak pine mixture

Other
Comments:

Next Trench and plant white pine.
Steps:

| | | | | | | | | | |
|---|--------------|------|-------------------|------------------|----|---------|-----------|-------------------|--|
| 5 | 71067005-Cut | 14.2 | 4121 - Oak, Aspen | High Density Log | 83 | Harvest | Seed Tree | 4131 - Aspen, Oak | Cmpt. Review Proposal - Incomplete |
|---|--------------|------|-------------------|------------------|----|---------|-----------|-------------------|--|

Prescription Consider a seed tree w/ reserves marking 10-30 BA in clumps. Regeneration will be a mix of aspen and oak. Plant white pine to supplement
Specs: regeneration. Some areas may not come back well as evidenced by surrounding stands.

Other
Comments:

Next Trench and plant white pine.
Steps:

| | | | | | | | | | |
|---|--------------|------|--|------------------|----|---------|---------------------------|-------------------|--|
| 8 | 71067008-Cut | 20.8 | 4199 - Other Mixed Upland Deciduous | Low Density Pole | 40 | Harvest | Clearcut with Reserves | 4121 - Oak, Aspen | Cmpt. Review Proposal - Incomplete |
|---|--------------|------|--|------------------|----|---------|---------------------------|-------------------|--|

Prescription Consider harvesting this stand and plant red pine around aspen clones and oak regen. Leave all oak except if high risk trees are found, if so
Specs: mark to harvest.

Other
Comments:

Next
Steps:

| | | | | | | | | | |
|----|-------------------|-----|-----------------------------|-------------------|----|---------|---------------------|-------------------|--|
| 14 | 71067014- Cut1 | 9.8 | 42110 - Planted Red Pine | High Density Pole | 46 | Harvest | Systematic Thinning | 4121 - Oak, Aspen | Cmpt. Review Proposal - Incomplete |
|----|-------------------|-----|-----------------------------|-------------------|----|---------|---------------------|-------------------|--|

Prescription Mark access and mark to cut for a thinning. Could mark access rows in yellow and then mark the rest in orange or mark all orange and use X
Specs: marks to identify skid routes. Wouldn't need to use every third row across whole stand due to the variability, but will be necessary in some spots. In several locations marking of suppressed and poor formed trees will provide enough room, but this won't work in all areas. Go around big oaks and clean up suppressed pine beneath them. Leave most deciduous comp

Other
Comments:

Next
Steps:

| | | | | | | | | | |
|----|-------------------|------|------------------------------------|-----------------------|----|---------|-----------------|------------------------------------|--|
| 19 | 71067019- Cut1 | 27.2 | 4126 - White, Black, N. Pin Oak | Medium Density Log | 94 | Harvest | Group Selection | 4126 - White, Black, N. Pin Oak | Cmpt. Review Proposal - Incomplete |
|----|-------------------|------|------------------------------------|-----------------------|----|---------|-----------------|------------------------------------|--|

Prescription Further reduce BA by marking to cut due to visual considerations. Favor white oak and maple. The previously unthinned portions could be
Specs: included in the sale with the overall goal of reducing red oak density and promoting other species. Consider underplanting white pine in about 1/3 of the understory concentrating on skid routes following the sale. Require chipping of tops to reduce visual considerations, site prep, and reduce oak wilt spread potentia

Other
Comments:

Next Trench and plant white pine in understocked areas and along skid trails..
Steps:

**Table 3 -- Treatments Prescribed
with No Limiting Factor**

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| | Treatment Name | Acres | Stage1 CoverType | Size Density | Stand Age | Treatment Type | Treatment Method | Cover Type Objective | Approval Status |
|----|----------------|-------|------------------|------------------|-----------|----------------|------------------|--------------------------|------------------------------------|
| 22 | 71067022-Cut1 | 53.8 | 4123 - Red Oak | High Density Log | 94 | Harvest | Crown Thinning | 42110 - Planted Red Pine | Cmpt. Review Proposal - Incomplete |

Prescription Mark oak to cut leaving 50-70 BA. Spec cut multi-stemmed red maple leaving single stems. Underplant red or white pine.

Specs:

Other

Comments:

Next Steps: followup treatment to restore pine species composition by planting 1/3 or 2/3 of the stand area to white or red pine depending on the amount of residual.

**Total Treatment
Acreage Proposed: 133.0**

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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
Acreage Proposed: 0

**Out of YOE -- Treatments
Prescribed with No Limiting Factor**

Year of Entry: 2013



| Treatment Name | Acres | Stage1 CoverType | Size Density | Stand Age | Treatment Type | Treatment Method | Cover Type Objective | Approval Status |
|--|-------|------------------|--------------|-----------|----------------|------------------------|---|------------------------------------|
| 71048_OutOfY OE_1-Cut | 2.2 | | | | Harvest | Low Thinning | 42111 - Planted Red Pine, Mixed Deciduous | Cmpt. Review Proposal - Incomplete |
| <p><u>Prescription</u> thin to 120 SF by concentrating on improving the quality of the stand, no retention other than residual RP, save areas heavy to oak understory <u>Specs:</u> where possible</p> <p><u>Other</u> cut with stand to the west in 71046 <u>Comments:</u></p> <p><u>Next</u> manage for utility poles next YOE <u>Steps:</u></p> | | | | | | | | |
| 71048_OutOfY OE-Cut | 4.0 | | | | Harvest | Clearcut with Reserves | 4131 - Aspen, Oak | Cmpt. Review Proposal - Incomplete |
| <p><u>Prescription</u> final harvest for aspen mgmt., mark oak SL to leave for wildlife mast, mark R/W pine SL for diversity, no retention other than marked leave <u>Specs:</u> trees, address green-up concerns on the east side of this stand if still a problem, dormant season cut to promote vigorous sprouting of the older aspen in the stand, any regeneration to a fully stocked stand is acceptable, plant RP if regeneration fails</p> <p><u>Other</u> cut with stand to the west in 71046 <u>Comments:</u></p> <p><u>Next</u> <u>Steps:</u></p> | | | | | | | | |
| 71118_OutOfY OE-Cut | 6.6 | | | | Harvest | Clearcut with Reserves | 4131 - Aspen, Oak | Cmpt. Review Proposal - Incomplete |
| <p><u>Prescription</u> final harvest for aspen mgmt. mark or leave all oak for diversity/retention/visuals. buffer low marshy ground on southwest. leave out any wetter <u>Specs:</u> areas in the north part of the stand for BMP reasons. leave out areas with heavy R/W pine component for diversity/retention/visuals. Any regeneration of aspen/oak/pine to a fully stocked stand is acceptable. regeneration alternative is to plant red pine if stand is not fully stocked but this is unlikely.</p> <p><u>Other</u> treat with stand to the west in 71117 <u>Comments:</u></p> <p><u>Next</u> <u>Steps:</u></p> | | | | | | | | |
| 71165_OutOfY OE-Cut | 5.1 | | | | Harvest | Low Thinning | 42260 - Natural Pine, Mixed Deciduous | Cmpt. Review Proposal - Incomplete |
| <p><u>Prescription</u> thin to 90-120 SF/Acre so as to enhance old growth/bio-diversity characteristics <u>Specs:</u></p> <p><u>Other</u> stand has a dense A/RM understory which will need to be addressed with appropriate sale specs, save W3 understory where possible, treat <u>Comments:</u> stand to the west in 71163 when this stand is treated (same stand)</p> <p><u>Next</u> designate as SCA next YOE?? <u>Steps:</u></p> | | | | | | | | |
| Total Treatment Acreage Proposed: | | 17.9 | | | | | | |

| Stand | Roscommon Mgt. Unit | | 5 – Forested Stands | | | Compartment: 067 | General Comments: |
|-------|--|----------------------|---------------------|-----------|----------|---------------------|---|
| | Level 4 Cover Type | Size Density | Acres | Stand Age | BA Range | Year of Entry: 2013 | |
| 1 | 4125 - Black, N. Pin Oak | Medium Density Log | 7.3 | 83 | 51-80 | | Poor quality oak stand that was recently thinned in 2005. Fairly heavy browse on low to mid level oak regen stocking. Poor enough site where red maple is not a problem. |
| 2 | 4199 - Other Mixed Upland Deciduous | Low Density Pole | 9.5 | 40 | | | Unhealthy aspen mixed with heavy cherry and some oak. Knapweed and sweet fern ground cover. |
| 3 | 4131 - Aspen, Oak | High Density Sapling | 4.2 | 6 | | | Aspen clone that regenerated from harvest to the north. Has scattered oak log tree residual as well as a clump of oak poles on the south edge. |
| 5 | 4121 - Oak, Aspen | High Density Log | 14.2 | 83 | 51-80 | | Overmature oak/aspen mixture along a small ridge. Browse impacts evident in the understory. |
| 6 | 4131 - Aspen, Oak | High Density Pole | 6.0 | 83 | | | Stands from compartment to west. |
| 7 | 4131 - Aspen, Oak | High Density Sapling | 34.7 | 5 | | | Harvested in fall 2005. 3 acre retention island as well as scattered oak along the private property line. |
| 8 | 4199 - Other Mixed Upland Deciduous | Low Density Pole | 20.8 | 40 | | | Degraded site with low density regeneration mixed with knapweed and sweet fern ground cover. Some pockets have dense oak poles and there are a couple 1 ac aspen clones, but the rest is dominated by cherry. |
| 9 | 4130 - Aspen | Low Density Sapling | 5.1 | 2 | | | Heavy windthrow with scattered residual filling in with regen. |
| 10 | 4125 - Black, N. Pin Oak | Low Density Pole | 1.0 | 25 | | | Ground cover of knapweed, willow, cherry. |
| 11 | 4130 - Aspen | Medium Density | 7.6 | 6 | | | |
| 12 | 4130 - Aspen | Medium Density | 9.0 | 6 | | | |
| 13 | 4191 - Mixed Upland Deciduous with Conifer | High Density Pole | 14.3 | 46 | 1-50 | | Oak harvested in 1984 leaving pine that was previously planted. Small clump of more dense red pine on south end. |
| 14 | 42110 - Planted Red Pine | High Density Pole | 9.8 | 46 | 111-140 | | Unthinned pine plantation with some sparse areas to the southwest. |
| 16 | 4199 - Other Mixed Upland Deciduous | Medium Density Pole | 9.9 | 27 | | | Was clearcut with parcel to the east, but couldn't find cutting record. Pine to the north was planted in 1965. Mixed deciduous stand with heavy red maple and cherry. Decent oak poles in spots, but not good stocking. |
| 17 | 4125 - Black, N. Pin Oak | Medium Density Pole | 6.6 | 40 | | | Looks like the westernmost 1 ac underburned. The middle piece was harvested in 2005, but isn't big enough to be its own stand. The eastern third is mixed age aspen. |



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Roscommon Mgt. Unit

5 – Forested Stands

Compartment: 067
Year of Entry: 2013

| | Level 4 Cover Type | Size Density | Acres | Stand Age | BA Range | General Comments: |
|----|------------------------------------|-----------------------|-------|--------------|-------------|---|
| 18 | 4130 - Aspen | High Density Pole | 14.2 | 27 | | |
| 19 | 4126 - White, Black, N. Pin Oak | Medium Density Log | 27.2 | 94 | 51-80 | CONTAINS OAK WILT. Mixed red/black/white oak that was thinned in 2005. The strip along 104 and the long finger to the south were not included in the sale. Some suppressed oak was not harvested in the last sale. Some oak stump sprout in the understory mixed with maple and cherry. Patch of 20-30 dead oak to southeast. |
| 20 | 4130 - Aspen | High Density Pole | 20.3 | 27 | | |
| 21 | 4130 - Aspen | High Density Pole | 5.0 | 27 | | |
| 22 | 4123 - Red Oak | High Density Log | 53.8 | 94 | 81-110 | Nice quality red oak that was thinned in 1984. Some of the maple regeneration is in the canopy now. Part of the treatment that had alot of this pole component was split from this stand. Diameters range from 12-16". There is a small 1 ac depression in the center. Major potential for oak wilt problems in this area, especially in a stand of this species composition. Also has major visual management concens. Did not see survey corners, but there must be some there. Previous sale used blue paint. Potential trespass issues. |
| 23 | 4119 - Mixed Northern Hardwoods | High Density Pole | 14.6 | 27 | 51-80 | Harvested in 1984 leaving large red oak and white oak. Heavier red maple and aspen was present in this part of the original stand. |
| 24 | 4130 - Aspen | High Density Pole | 4.0 | 27 | | Small opening with sumac in the center. |



| Stand | Cover Type | Acres | Managed Site | Management Priority (Objective) | General Comments: |
|-------|---------------------------|-------|--------------|---------------------------------|-------------------|
| 4 | 310 - Herbaceous Openland | 4.9 | N/A | Unspecified | |
| 15 | 310 - Herbaceous Openland | 4.6 | N/A | Unspecified | |



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 |
|-------|----------|----------|-------|----------|
| | | | | |



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 |
|--------------------------|-------------|--------------------|
|--------------------------|-------------|--------------------|
