



## SAULT FOREST MANAGEMENT UNIT COMPARTMENT REVIEW PRESENTATION

**COMPARTMENT # 47 ENTRY YEAR: 2011**

**Compartment Acreage: 1,948 County: Chippewa**

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**Revision Date:** 8/02/2009

**Stand Examiner:** Jeff Wise

**Legal Description:** T45N R2W Sections 6,7,18; Kinross Township: T46N R2W Section 31; Superior Township

**Management Goals:** This compartment is within the North Rudyard Management Area. Plans for this MA are currently being written. Past management in this long narrow compartment has been the completion of a 728 acre aspen/balm regeneration harvest in the entire northern 2/3 of the comp. This YOE we'll back off a bit to regenerate a couple of smaller mature stands of aspen / birch. An isolated 38 acre block on the south end will be the priority with a hardwood selection. The grass openings in this block will also need scotch pine removal and other opening maintenance.

**Soil and Topography:** The soils in this compartment are extremely variable but can be generalized into poorly drained to hydric over the majority of the area to well drained sandy loams in the very south of section 7 and in section 18. The topography is level, with slopes less than 3% until you reach the area with the sandy loam soils. A steep ridge rises in the NWNW of section 18. This ridge is steep enough to somewhat limit harvesting and access except under the most optimal conditions. Local timber producers are generally not comfortable operating on these slopes so the entire area will probably not be marked.

**Ownership Patterns, Development, and Land Use in and Around the Compartment:** This block of ownership has state land on the east and west with private on the north and south. The SESE of 18 was once an old dumpsite. Private lands in the area consist primarily of cabins, with several permanent residences also.

**Unique, Natural Features:** Management will take into account the species listed as potential in the MNFI survey information.

**Archeological, Historical, and Cultural Features:** The old dump in the SESE Sec18 does not meet any criteria in this category.

**Special Management Designations or Considerations:** The eastern portion of Section 7 has been a small deer yard for several years.

**Watershed and Fisheries Considerations:** There are no fisheries values in this compartment. No trout streams or lakes. The West Branch of the Waiska River in that area is relatively unknown but probably a transition zone between cold and cool water species.

**Wildlife Habitat Considerations:** This compartment lies within a largely agricultural landscape dominated by hayfields. The forested landscape around the Tilson road is heavily influenced by the many small drainages of the Waiska River and much of it is wet. The compartment itself is fairly vegetatively diverse,

ranging from early successional lowland aspen, shrub alder and willow, interspersed with wet marshy openings, to stands of mature northern hardwoods dominated by oak and lowland spruce, tamarack and cedar stands. There is decent access to the uplands in the compartment and the area receives a good deal of recreational hunting.

Compartment 47 is within the North Rudyard Management Area and Sub-subsection VIII.1.2, Rudyard clay lake plain, as classified by Albert's "*Regional Landscape Ecosystems of Michigan, Minnesota, and Wisconsin: A Working Map and Classification*". Almost the entire sub-subsection is a broad clay lake plain, with a small area of sand lake plain present. Historic vegetation included hardwood-conifer forest of balsam fir, balsam poplar, hemlock, cedar, tamarack, aspen, white pine, black spruce and white spruce. Northern hardwoods, including sugar maple, beech, American elm, basswood, and yellow birch were locally common on slightly better drained sites. The most common historical natural disturbance was windthrow. On adjacent private lands this is the most intensively managed area for agriculture than any other part of Upper Michigan.

Species noted using this compartment include white-tailed deer, black bear, snowshoe hare, winter wren, hermit thrush, ruffed grouse, ovenbird, indigo bunting, common yellowthroat and a variety of small mammals including the southern red-backed vole. There is a good potential for nesting woodland raptors within this compartment, particularly within the hardwood stands.

Wildlife objectives in this compartment are to maintain habitat type diversity and inter-stand diversity by encouraging the retention of a variety of tree species in managed stands. Plant species diversity encourages wildlife species diversity and this is the ultimate goal. Retention of hard and soft mast bearing trees (particularly oak), under represented species (basswood and hop hornbeam in particular), trees with suitable raptor nest bearing structure, snags, wildlife den trees and down woody debris in all stands should be maintained. Stream buffers and interstand wetland features, including vernal ponds should be buffered and protected from harvesting operations. Areas of final harvest will have mature trees left within the stand to provide structural diversity and to provide for future snags and wildlife den trees as decay advances. The removal of scotch pine from within this compartment is a priority.

**Mineral Resource and Development Concerns and/or Restrictions:** Surface sediments consist of coarse-textured till, lacustrine (lake) clay and silt and peat & muck. There is insufficient data to determine the glacial drift thickness. The Ordovician Black River Group subgroups below the glacial drift. These rocks are quarried in the UP for stone/dolomite. A gravel pit is located in Section 18 and potential is good. There is no current economic oil and gas production in the UP.

**Vehicle Access:** The Tilson Road traverses the east side from north to south. The Spile Dam road enters off Tilson Rd and crosses the center of section 7 and has a State gate at both ends for protection. The Maple Block Road starts in section 7 and crosses into section 18. No new permanent roads are planned or necessary at this time. Previous timber sale roads have been bermed.

**Survey Needs:** None needed.

**Recreational Facilities and Opportunities:** The Spile Dam Road is a snowmobile trail and receives moderate use. Other activities include deer and grouse hunting, and mushroom picking in the spring. No ORV trails in this comp.

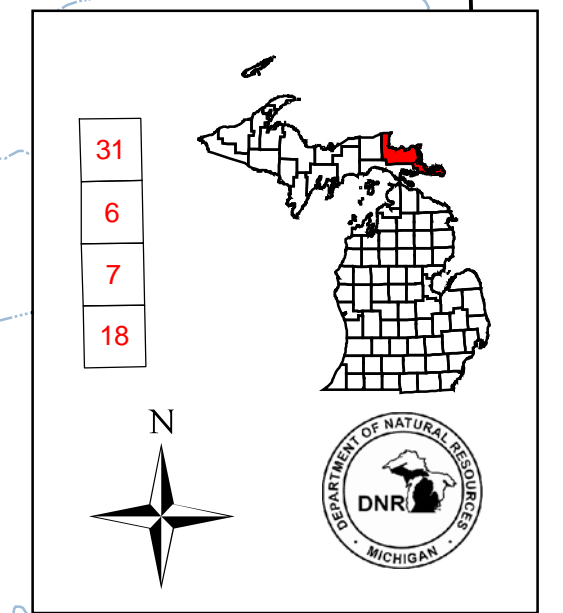
**Fire Protection:** Access is good in the southern portion but limited in the north. Water sources would be local streams and ponds along Tilson Rd.

**Additional Compartment Information:** Portions of the southern treatment block was an old landfill and has junk and debris extruding from the ground in numerous places. This could cause an equipment hazard to harvesting.

- **Cover Type details, Proposed Treatments, and Stand listings are listed in the attached reports:**
  - ◆ **Proposed Treatments – No Limiting Factors**
  - ◆ **Proposed Treatments – With Limiting Factors**
  - ◆ **Stand Listing – Forested**
  - ◆ **Stand Listing – Non Forested**
  - ◆ **Special Conservation Area (SCA) Details**
  
- **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**
  - ◆ **SCA – Special Conservation Areas**

# Cover Type & Treatment Map

Compartment 047  
 T46N, R02W, Sec. 31  
 T45N, R02W, Sec. 6, 7, 18  
 County: Chippewa  
 Unit: Sault Ste Marie  
 YOE: 2011  
 Acres: 1,948 GIS Calculated  
 Stand Examiner: Jeffrey Wise  
 Map Revised: 08/13/2009  
 Map Phase: Pre-Review



Stand # **23** Stocking Density  
**(4120) - A7**  
 Level 3 OI  
 Level 4 Code  
 Cover Type Code

### Legend

- ◆ RLS Corners
- Miris Corners
- Paved Road
- - - Poor Dirt Road
- ⋯ Closed Road
- ⋯ Trails
- ⋯ Intermittent Stream/Drain
- Stream
- Lakes and Rivers
- ⊠ Snowmobile Trails
- ⊗ Gates
- ▲ Berms
- ⬆ Structures

### Treatments

- ▨ Clearcut (w/Reserves, Patch/Strip)
- ⊠ Selection (Group, Single Tree)
- ▨ Other Harvest - See Comments
- ▨ Other Treatment - See Comments

### Forest Stands

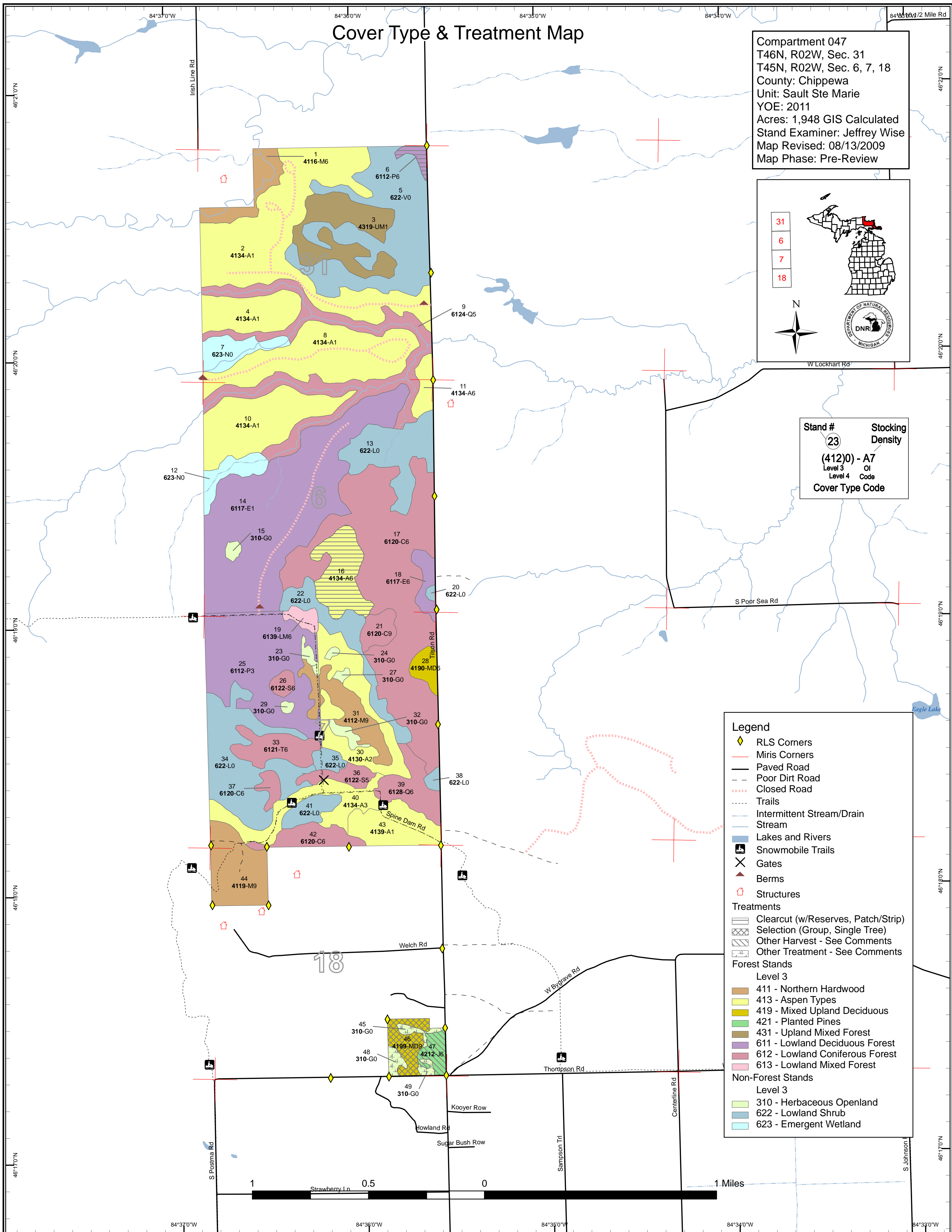
Level 3

- 411 - Northern Hardwood
- 413 - Aspen Types
- 419 - Mixed Upland Deciduous
- 421 - Planted Pines
- 431 - Upland Mixed Forest
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 613 - Lowland Mixed Forest

### Non-Forest Stands

Level 3

- 310 - Herbaceous Openland
- 622 - Lowland Shrub
- 623 - Emergent Wetland

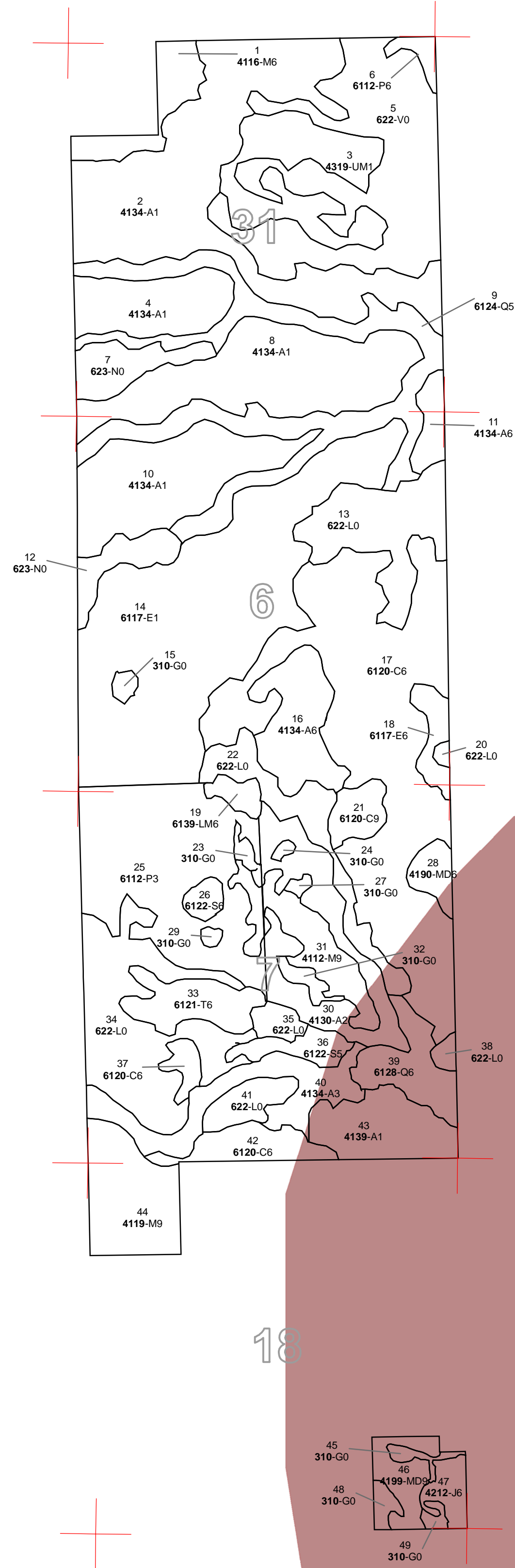
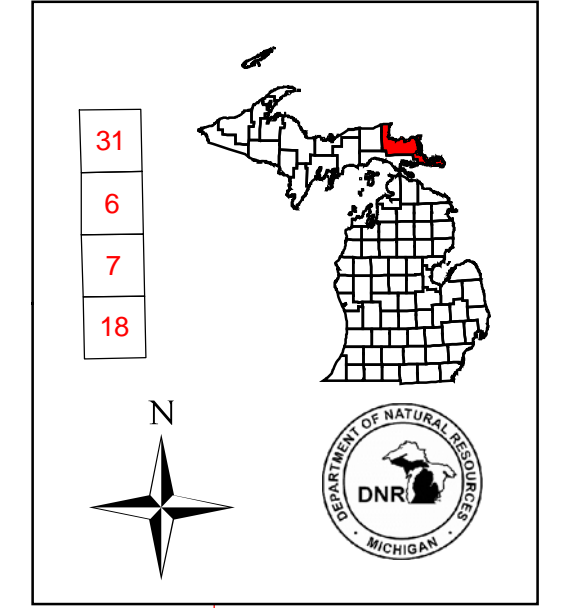




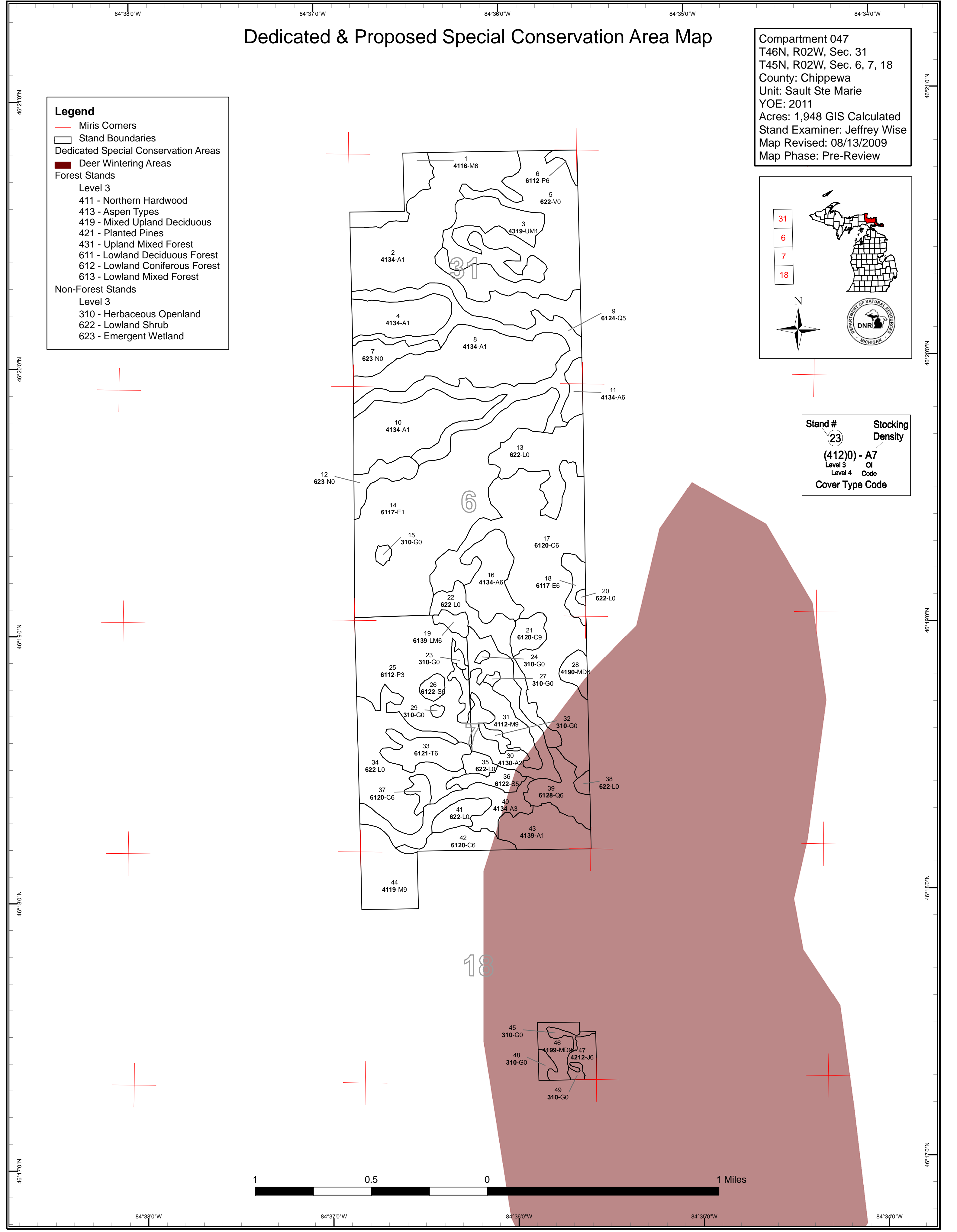
# Dedicated & Proposed Special Conservation Area Map

Compartment 047  
 T46N, R02W, Sec. 31  
 T45N, R02W, Sec. 6, 7, 18  
 County: Chippewa  
 Unit: Sault Ste Marie  
 YOE: 2011  
 Acres: 1,948 GIS Calculated  
 Stand Examiner: Jeffrey Wise  
 Map Revised: 08/13/2009  
 Map Phase: Pre-Review

- Legend**
- Miris Corners
  - Stand Boundaries
  - Dedicated Special Conservation Areas
  - Deer Wintering Areas
  - Forest Stands
  - Level 3
  - 411 - Northern Hardwood
  - 413 - Aspen Types
  - 419 - Mixed Upland Deciduous
  - 421 - Planted Pines
  - 431 - Upland Mixed Forest
  - 611 - Lowland Deciduous Forest
  - 612 - Lowland Coniferous Forest
  - 613 - Lowland Mixed Forest
  - Non-Forest Stands
  - Level 3
  - 310 - Herbaceous Openland
  - 622 - Lowland Shrub
  - 623 - Emergent Wetland



**Stand #** 23  
**Stocking Density**  
 (4120) - A7  
 Level 3 OI  
 Level 4 Code  
**Cover Type Code**



## Covertypes, Acres, and Age summary (Level 3 Cover Type)

Sault Ste. Marie Mgt. Unit

Compartment 047 Year of Entry 2011

Report Date: 08/13/2009



|                           | 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 +    |             |             |
| Aspen Types               | 0            | 167        | 96        | 0        | 0         | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 303         | 566         |
| Emergent Wetland          | 38           | 0          | 0         | 0        | 0         | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0           | 38          |
| Herbaceous Openland       | 26           | 0          | 0         | 0        | 0         | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0           | 26          |
| Lowland Coniferous Forest | 0            | 0          | 0         | 0        | 0         | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 435         | 435         |
| Lowland Deciduous Forest  | 0            | 0          | 0         | 0        | 0         | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 352         | 352         |
| Lowland Mixed Forest      | 0            | 0          | 0         | 0        | 0         | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 7           | 7           |
| Lowland Shrub             | 325          | 0          | 0         | 0        | 0         | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0           | 325         |
| Mixed Upland Deciduous    | 0            | 0          | 0         | 0        | 0         | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 27          | 27          |
| Northern Hardwood         | 0            | 0          | 0         | 0        | 0         | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 103         | 103         |
| Planted Pines             | 0            | 0          | 0         | 0        | 11        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0           | 11          |
| Upland Mixed Forest       | 0            | 57         | 0         | 0        | 0         | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0           | 57          |
| <b>Total</b>              | <b>390</b>   | <b>224</b> | <b>96</b> | <b>0</b> | <b>11</b> | <b>0</b> | <b>0</b> | <b>0</b> | <b>0</b> | <b>0</b> | <b>0</b> | <b>0</b> | <b>0</b> | <b>0</b> | <b>1227</b> | <b>1948</b> |



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| Treatment Name        | Acres | Stage1 CoverType     | Size Density      | Stand Age | Treatment Type | Treatment Method       | Cover Type Objective |
|-----------------------|-------|----------------------|-------------------|-----------|----------------|------------------------|----------------------|
| <b>6 45047006-Cut</b> | 5.5   | 6112 - Lowland Aspen | High Density Pole | 77        | Harvest        | Clearcut with Reserves | Aspen, Spruce/Fir    |

Rev Cmmt: Put with sale in C46 after Comp Review approval in 2010 POW.

Rev Spec: Cut all species except pine, oak, cedar, hemlock, and boundary trees. Regeneration of present species expected.

Next Steps: Check regen according to work instructions.

|                        |      |                          |                   |    |         |                        |                   |
|------------------------|------|--------------------------|-------------------|----|---------|------------------------|-------------------|
| <b>16 45047016-Cut</b> | 40.2 | 4134 - Aspen, Spruce/Fir | High Density Pole | 77 | Harvest | Clearcut with Reserves | Aspen, Spruce/Fir |
|------------------------|------|--------------------------|-------------------|----|---------|------------------------|-------------------|

Rev Cmmt: --Sherry MacKinnon : 07/16/2009 comments: Good species diversity within this stand.

Needs winter road to access but not factor limited.

Rev Spec: --Sherry MacKinnon : 07/16/2009 comments: In addition to the species retained below, retain a component of Aspen interior to the boundary. Avoid operation in drainage areas.

Cut all species except cedar, oak, hemlock, pine and boundary trees. Regeneration of present species expected.

Next Steps: Check regen according to work instructions..

|                        |      |                                     |                  |    |         |                       |                                |
|------------------------|------|-------------------------------------|------------------|----|---------|-----------------------|--------------------------------|
| <b>46 45047046-Cut</b> | 16.9 | 4199 - Other Mixed Upland Deciduous | High Density Log | 75 | Harvest | Single Tree Selection | S.Maple, Hard Mast Association |
|------------------------|------|-------------------------------------|------------------|----|---------|-----------------------|--------------------------------|

Rev Cmmt: --Sherry MacKinnon : 07/16/2009 comments: Very little understory shrub and ground layer in this stand. Retain old wolfy, den, hollow, trees, and minor represented species, and young aspen clones.

Rev Spec: --Sherry MacKinnon : 07/16/2009 comments: retain larger diameter acorn producing oak, wolfy trees, den trees and snags. Retain all ironwood. This stand has very little species diversity so all minor represented species should be retained. Leave all tops if the stand is chipped.

Cut trees marked with yellow or orange paint to a residual Basal Area of 80. Agree with wild life specs.

Next Steps: check regen according to work instructions..

|                        |      |                           |                   |    |         |                             |                         |
|------------------------|------|---------------------------|-------------------|----|---------|-----------------------------|-------------------------|
| <b>47 45047047-Cut</b> | 10.7 | 42120 - Planted Jack Pine | High Density Pole | 39 | Harvest | Other - Specify in Comments | Mixed Upland Herbaceous |
|------------------------|------|---------------------------|-------------------|----|---------|-----------------------------|-------------------------|

Rev Cmmt: --Sherry MacKinnon : 07/16/2009 comments: Hazardous walking...

This stand is on the site of an old landfill and re-planting is not recommended as it could cause equipment hazards...although it was planted to begin with so???

Rev Spec: --Sherry MacKinnon : 07/16/2009 comments: Remove all scotch pine from this stand also! Retaining a few conifers on this site would be desirable, retain oak.

Treatment has been removed at the Pre-review level, but still need scotch pine removal.

Next Steps:

**PROPOSED TREATMENTS  
NO LIMITING FACTORS**



| Stand | Treatment Name | Acres | Stage1 CoverType | Size Density | Stand Age | Treatment Type | Treatment Method | Cover Type Objective | Page 2 of 2 |
|-------|----------------|-------|------------------|--------------|-----------|----------------|------------------|----------------------|-------------|
|       |                |       |                  |              |           |                |                  |                      |             |

|    |                   |     |             |  |   |       |             |                         |  |
|----|-------------------|-----|-------------|--|---|-------|-------------|-------------------------|--|
| 45 | NF_45047045-Other | 3.6 | Unspecified |  | 0 | Other | Unspecified | Mixed Upland Herbaceous |  |
|----|-------------------|-----|-------------|--|---|-------|-------------|-------------------------|--|

Rev  
Cmnt:

Rev --Sherry MacKinnon : 07/16/2009 comments: Agree!  
Spec:  
Scotch pine removal

Next  
Steps: Check for scotch pine regen.

|    |                   |     |             |  |   |       |             |                         |  |
|----|-------------------|-----|-------------|--|---|-------|-------------|-------------------------|--|
| 48 | NF_45047048-Other | 4.3 | Unspecified |  | 0 | Other | Unspecified | Mixed Upland Herbaceous |  |
|----|-------------------|-----|-------------|--|---|-------|-------------|-------------------------|--|

Rev  
Cmnt: --Sherry MacKinnon : 07/16/2009 comments: Many hazards in this stand also...rusty metal poking up out of ground.

Rev --Sherry MacKinnon : 07/16/2009 comments: Scotch pine needs to be removed; retain large willows, apple trees and oak.  
Spec:  
Scotch pine removal

Next  
Steps: Check for scotch pine regen

|    |                   |     |             |  |   |       |             |                         |  |
|----|-------------------|-----|-------------|--|---|-------|-------------|-------------------------|--|
| 49 | NF_45047049-Other | 2.4 | Unspecified |  | 0 | Other | Unspecified | Mixed Upland Herbaceous |  |
|----|-------------------|-----|-------------|--|---|-------|-------------|-------------------------|--|

Rev  
Cmnt: Contains a neat little field with large willows along the edge, do not disturb.

Rev Scotch pine removal.  
Spec:

Next  
Steps: Check for scotch pine regen.

**Total Treatment  
Acreage Proposed: 83.7**

**PROPOSED TREATMENTS  
WITH LIMITING FACTORS**



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| Treatment Name | Acres | Stage1 Cover Type | Size Density | Stand Age | Treatment Type | Treatment Method | Cover Type Objective | Page 1 of 1 |
|----------------|-------|-------------------|--------------|-----------|----------------|------------------|----------------------|-------------|
|----------------|-------|-------------------|--------------|-----------|----------------|------------------|----------------------|-------------|

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Limiting Factor  
and Comment:

Rev  
Cmnt:

Rev  
Spec:

Next  
Steps:

No Treatment  
Reason

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**Total Treatment  
Acreage Proposed:      0**



### 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.

Inventory Method: IFMAP

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



**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               | Habitat Area | An area that provide some specific need for the life cycle of wildlife species, including State Wildlife Areas and Waterfowl Production Areas, deer wintering complexes in lowland conifer communities, grassland openings and savannas. Habitat areas are distinct from critical habitat designated for recovery of endangered or threatened species (such as Kirtland's warbler or piping plover areas) in that they are more general in nature, are not primarily associated with threatened or endangered species, and are not covered by species recovery plans that are developed in cooperation with Federal agencies. |