



# Compartment Review Presentation

## Gwinn Forest Management Unit

Compartment 32201

Entry Year 2021

Acreage: 1,901

County Marquette

Management Area: Huron Mountains

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**Revision Date:** 2019-07-25

**Stand Examiner:** Jason Caron

### Legal Description:

T51N R26W, Sections 19, 29, 30, 31. T51N R27W, Sections 25, 26.

### Identified Planning Goals:

Planning goals would include forest management in timber types that will promote species diversity across the compartment. Both even age and uneven aged forest management will be necessary to obtain the management goals in this compartment.

### Soil and topography:

Soils are loamy and of variable depth. Sandstone bedrock does occur within the upland portions of this compartment. The lowland portions of the compartment contain soils of various organics. The topography is fairly flat across the compartment.

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

This portion of state land is an isolated block that is surrounded by both industrial ownership and individual camp owners. Land use in and around the compartment consist of hunting, fishing, ORV & snowmobiling riding.

### Unique Natural Features:

This compartment contains the Yellow Dog River along with a broad expanse of lowland conifer swamp.

### Archeological, Historical, and Cultural Features:

None noted.

### Special Management Designations or Considerations:

### Watershed and Fisheries Considerations:

### Wildlife Habitat Considerations:

Compartment 201 is found within the Huron Mountains Management Area; on a Bedrock-Controlled Ground Moraines and till-floored lake plains in northern Baraga and Marquette Counties. Most of the natural communities in this area are mesic northern forests and poor conifer swamps. Major forest cover types include Northern Hardwood, Aspen and Hemlock. The area receives significant snowfall and represents almost 20% of the WUP State Forest hemlock resource. This area provides critical wintering habitat for white tailed deer, especially along the Lake Superior shoreline. Additionally, some of the largest tracts of mature forest in the Great Lakes (e.g. McCormick Tract, Craig's Lake Wilderness State Park, and the Huron Mountain Club) occur within or adjacent to this management area. The current condition and spatial arrangement of these areas provide some of the best opportunities within the WUP, state, and Great Lakes for area sensitive wildlife that require large tracts of mature forest, mesic conifer or corridors between such areas. The wildlife priority here is to manage for old growth forest characteristics, in a fairly un-fragmented condition, with particular emphasis on protecting the hemlock component. This strategy will protect thermal cover, provide for wildlife movement corridors, and provide habitat for a variety of species. This includes minimizing habitat fragmentation; insuring adequate coarse woody debris; retain or develop large living and dead standing trees (for cavities); mesic conifer; mature forest; within-stand diversity; closed canopy forest; and deer wintering complexes.

The following have been identified as featured species for the Huron Mountains Management Area: American Marten, Blackburnian Warbler, and White-Tailed Deer.

### Mineral Resource and Development Concerns and/or Restrictions

Active sand/gravel pits are located to the west of the compartment, and there is some sand potential within the compartment. The Jacobsville Sandstone may be near the surface in places. The Jacobsville used to be quarried for building/dimension stone, but there is not currently a significant economic value for the material. Active metallic mineral

production is occurring at Eagle Mine seven miles to the southwest. There has been little mineral exploration in this area and no history of mineral leasing, but metallic mineral potential is unknown. Any potential metallic mineral bearing formations here would be relatively deep. There is no known potential for economic hydrocarbon production in the UP. The state does not own all mineral rights within the compartment. Because the mineral estate is the dominant estate, reasonable access to the surface must be provided to private owners if they choose to explore or develop their mineral rights.

**Vehicle Access:**

Vehicle access is limited throughout the compartment due to the private ownerships that surround the State land.

**Survey Needs:**

Survey will be needed to accomplish the timber sale work within this YOE.

**Recreational Facilities and Opportunities:**

**Fire Protection:**

**Additional Compartment Information:**

**The following reports from the Inventory are attached:**

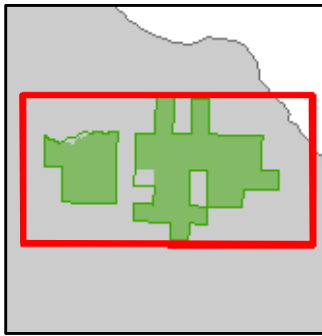
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

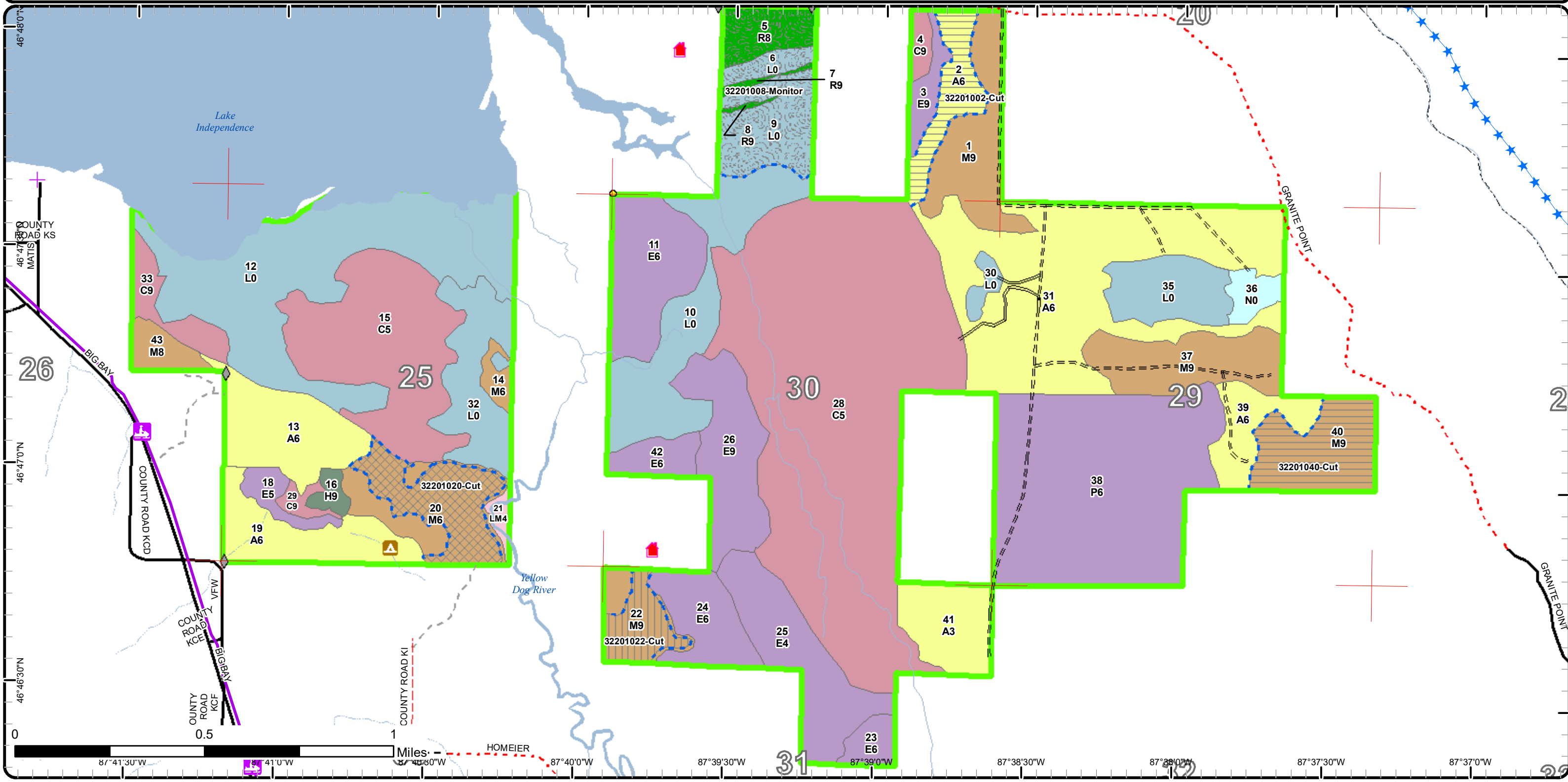
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

# Cover Type & Treatments Map

Compartment: 201  
 T51N,R27W, Sec. 25, 26  
 T51N,R26W, Sec. 19, 29, 30, 31  
 County: Marquette  
 Unit: Gwinn  
 Mgmt Area: Huron Mountains  
 YOE: 2021  
 Acres: 1,901 GIS Calculated  
 Examiner: Jason Caron  
 Map Revised: 8/14/2019  
 Map Phase: Web Post

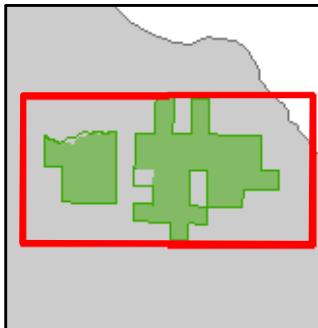


- Miris Corners
- Remonumented Section Corners
- Survey Grade Corners
- ◆ Field Grade Corners
- Counties
- == DNR - Secondary Forest Road
- == DNR - Forest Access Route
- Federal / State / County - Paved Road
- - - Federal / State - Dirt / Gravel Road
- . - . County - Gravel Road
- - - County - Dirt Road (Seasonal)
- - - Private - Dirt / Gravel Road
- Snowmobile Trails
- ★ Designated Water Trails
- Designated Snowmobile Trails
- Unspecified Structure
- ▲ Campground
- Structures
- Intermittent Stream
- Island in Lake or River
- Lake/Pond
- Perennial River
- Shoreline
- Lakes and Rivers All
- Compartment Boundary
- Treatments with Site Conditions
- Selection (Group, Single Tree)
- Clearcut (w/Reserves)
- Shelter Wood (w/Reserves)
- Monitoring
- 411 - Northern Hardwood
- 413 - Aspen
- 422 - Natural Pines
- 423 - Other Upland Conifers
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 613 - Lowland Mixed Forest
- 622 - Lowland Shrub
- 623 - Emergent Wetland
- Lakes

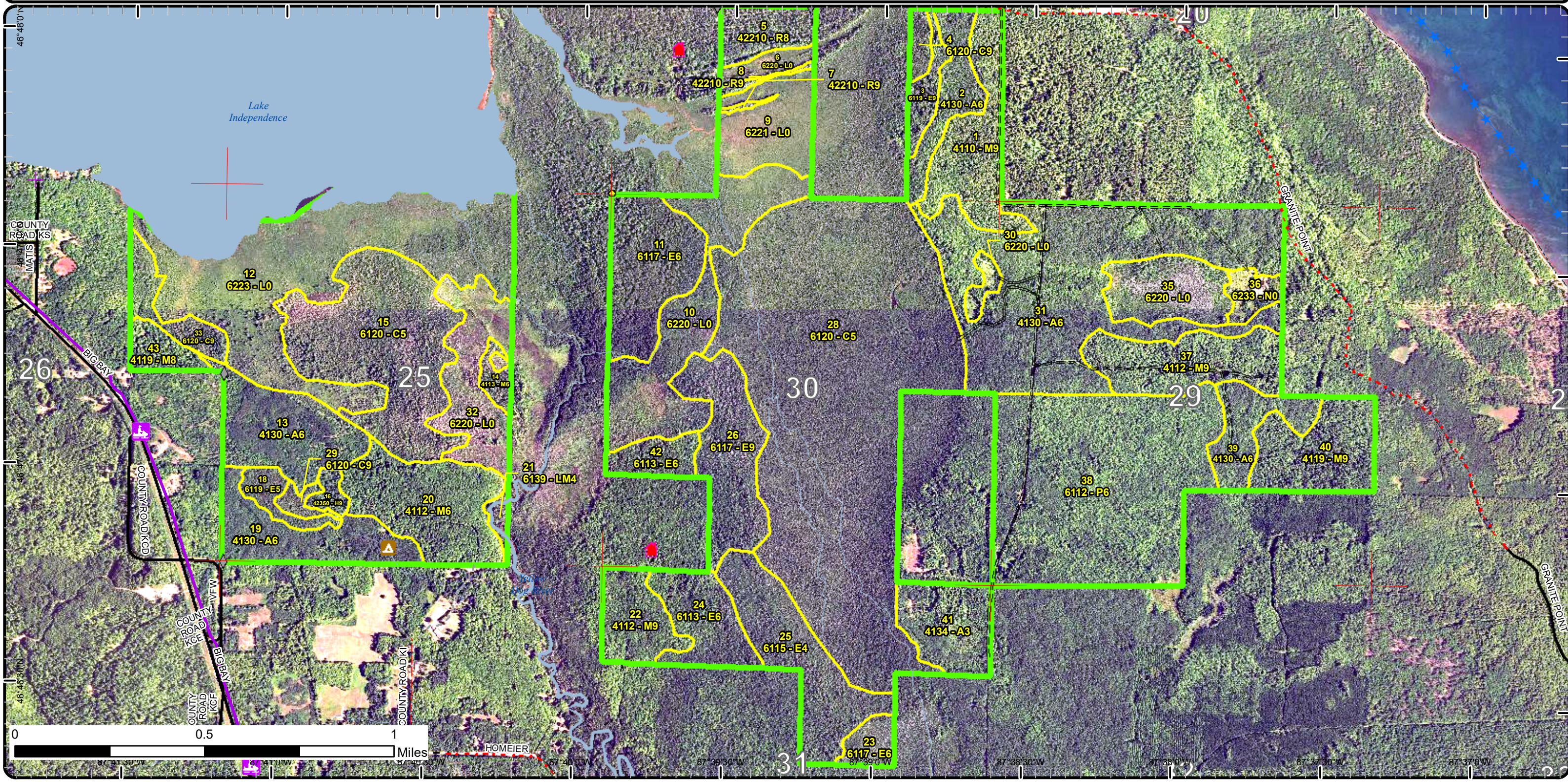


# Stand Boundary Map

Compartment: 201  
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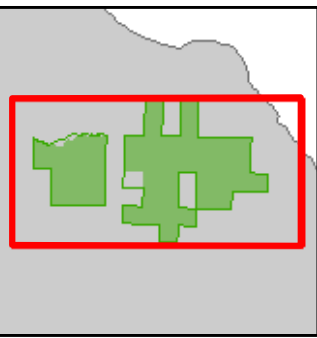


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  - 🏠 Structures
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  - Shoreline
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  - 🟩 Compartment Boundary
  - 🟨 Stand Boundaries
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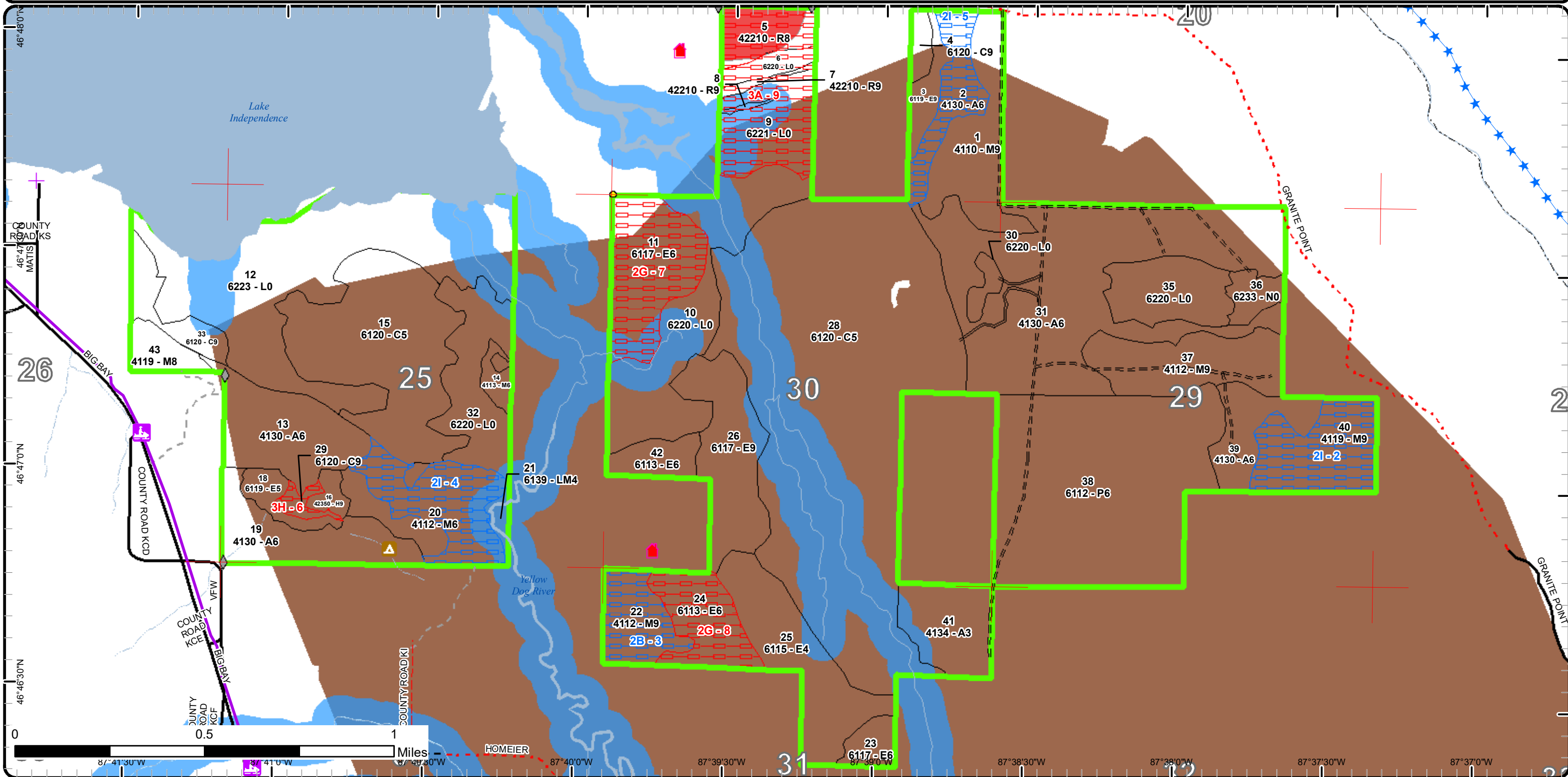


# Special Conservation Areas & Site Conditions Map

Compartment: 201  
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 T51N,R26W, Sec. 19, 29, 30, 31  
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- 🟩 Compartment Boundary
- 🟦 Available w/ Constraints
- 🔴 Unavailable
- 2I: Survey needed
- 2G: Too wet (sensitive soils, does not include access issues)
- 3A: Conservation Values incompatible with harvest at this time
- 🟨 Stand Boundaries
- 🟪 Ecological Reference Areas
- 🟩 Cold Water Streams
- 🟦 Cold Water Lakes
- 🟦 High Priority Trout Stream Buffer
- 🟤 Deer Winter Range



Report 1 – Total Acres by Cover Type and Age Class



Age Class

|                             | Non-Forest | 0-9      | 10-19     | 20-29     | 30-39      | 40-49    | 50-59     | 60-69     | 70-79      | 80-89     | 90-99    | 100-109   | 110-119  | 120-129  | 130-139  | 140-149  | 150+      | Uneven-Aged | Total       |
|-----------------------------|------------|----------|-----------|-----------|------------|----------|-----------|-----------|------------|-----------|----------|-----------|----------|----------|----------|----------|-----------|-------------|-------------|
| Aspen                       | 0          | 0        | 34        | 90        | 205        | 0        | 25        | 0         | 0          | 0         | 0        | 0         | 0        | 0        | 0        | 0        | 0         | 0           | 354         |
| Cedar                       | 0          | 0        | 0         | 0         | 0          | 0        | 0         | 0         | 0          | 0         | 23       | 0         | 0        | 0        | 0        | 5        | 450       | 0           | 478         |
| Hemlock                     | 0          | 0        | 0         | 0         | 0          | 0        | 0         | 0         | 0          | 0         | 0        | 0         | 0        | 0        | 0        | 6        | 0         | 0           | 6           |
| Lowland Aspen/Balsam Poplar | 0          | 0        | 0         | 0         | 177        | 0        | 0         | 0         | 0          | 0         | 0        | 0         | 0        | 0        | 0        | 0        | 0         | 0           | 177         |
| Lowland Deciduous           | 0          | 0        | 0         | 0         | 0          | 0        | 0         | 26        | 10         | 0         | 0        | 52        | 0        | 0        | 0        | 0        | 0         | 150         | 238         |
| Lowland Mixed Forest        | 0          | 0        | 0         | 0         | 0          | 0        | 0         | 0         | 0          | 0         | 0        | 0         | 0        | 0        | 0        | 0        | 0         | 4           | 4           |
| Lowland Shrub               | 370        | 0        | 0         | 0         | 0          | 0        | 0         | 0         | 0          | 0         | 0        | 0         | 0        | 0        | 0        | 0        | 0         | 0           | 370         |
| Marsh                       | 10         | 0        | 0         | 0         | 0          | 0        | 0         | 0         | 0          | 0         | 0        | 0         | 0        | 0        | 0        | 0        | 0         | 0           | 10          |
| Northern Hardwood           | 0          | 0        | 0         | 0         | 0          | 0        | 0         | 0         | 105        | 46        | 0        | 0         | 0        | 0        | 0        | 0        | 0         | 89          | 238         |
| Red Pine                    | 0          | 0        | 0         | 0         | 0          | 0        | 0         | 0         | 0          | 0         | 0        | 0         | 0        | 0        | 0        | 0        | 0         | 25          | 25          |
| <b>Total</b>                | <b>380</b> | <b>0</b> | <b>34</b> | <b>90</b> | <b>382</b> | <b>0</b> | <b>25</b> | <b>26</b> | <b>115</b> | <b>46</b> | <b>0</b> | <b>75</b> | <b>0</b> | <b>0</b> | <b>0</b> | <b>0</b> | <b>11</b> | <b>718</b>  | <b>1900</b> |



## Report 2 – Treatment Summary

Gwinn Mgt. Unit

Year of Entry: 2021

Acres of Harvest

Compartment 201

Total Compartment Acres: 1,901

Commercial Harvest -  
 Harvests with Site Condition - 128  
 Next Step Harvest - 0  
 Habitat Cut - 0

### Cover Type by Harvest Method

|                   | Clearcut  | Selection | Patch Clearcut | Seed Tree | Shelterwood | Thinning | Overstory Removal | Salvage  | Other    | Total Acres |
|-------------------|-----------|-----------|----------------|-----------|-------------|----------|-------------------|----------|----------|-------------|
| Aspen             | 25        | 0         | 0              | 0         | 0           | 0        | 0                 | 0        | 0        | 25          |
| Northern Hardwood | 44        | 40        | 0              | 0         | 20          | 0        | 0                 | 0        | 0        | 103         |
| <b>Total</b>      | <b>68</b> | <b>40</b> | <b>0</b>       | <b>0</b>  | <b>20</b>   | <b>0</b> | <b>0</b>          | <b>0</b> | <b>0</b> | <b>128</b>  |

### Proposed and Next Step Treatments by Method

|              | Harvest    | Site Prep | Planting | Seeding  | Burning  | Pesticide | Monitoring | Other    | Non-Forest Mgt. | Total Acres |
|--------------|------------|-----------|----------|----------|----------|-----------|------------|----------|-----------------|-------------|
| Current      | 128        | 0         | 0        | 0        | 0        | 0         | 70         | 0        | 0               | 198         |
| Next Step    | 0          | 0         | 0        | 0        | 0        | 0         | 128        | 0        | 0               | 128         |
| <b>Total</b> | <b>128</b> | <b>0</b>  | <b>0</b> | <b>0</b> | <b>0</b> | <b>0</b>  | <b>198</b> | <b>0</b> | <b>0</b>        | <b>326</b>  |



| Stand | Treatment Name | Acres | Stand CoverType | Size Density    | Stand Age | BA Range | Treatment Type | Treatment Method        | Cover Type Objective | Age Structure | Approval Status |
|-------|----------------|-------|-----------------|-----------------|-----------|----------|----------------|-------------------------|----------------------|---------------|-----------------|
| 2     | 32201002-Cut   | 24.6  | 4130 - Aspen    | Poletimber Well | 50        | 51-80    | Harvest        | Clearcut with Retention | 413 - Aspen          | Even-Aged     | Proposal        |

**Habitat Cut: No Site Condition: Survey Needed**

Prescription Clearcut with reserves. Do not harvest under-represented species. Red line out a patch of mature timber for retention purposes.

Specs:

Wildlife Comments: Look for opportunities to save fork crowned and large diameter Big Tooth Aspen (30%) for raptor and cavity nesters. Add in retain some Paper Birch (10%) – cavity nesters and seed source. Add a winter cutting specification – Deer wintering complex – State Game Fund Purchased, no chipping – American Marten

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Aspen, maple, fir, spruce, pine, birch, hemlock, cedar.

Regen:OtherComment:

Proposed Start Date: 10/1 /2020

|   |                  |      |            |            |  |  |            |                  |                     |  |          |
|---|------------------|------|------------|------------|--|--|------------|------------------|---------------------|--|----------|
| 9 | 32201008-Monitor | 69.8 | 6221 - Fen | Nonstocked |  |  | Monitoring | Invasive Species | 6220 - Alder/willow |  | Proposal |
|---|------------------|------|------------|------------|--|--|------------|------------------|---------------------|--|----------|

**Habitat Cut: No Site Condition: Conservation Values**

Prescription Monitor the stands within this treatment area for invasive species. Refer to the Lake Superior Shoreline ERA Plan and/or the current work

Specs: instructions for acceptable methods for treating invasives should they occur.

Next StepTreatments:AcceptableRegen:OtherComment:

Proposed Start Date: 10/1 /2020

|    |              |      |   |                 |    |        |         |                       |                                 |             |          |
|----|--------------|------|---|-----------------|----|--------|---------|-----------------------|---------------------------------|-------------|----------|
| 20 | 32201020-Cut | 40.0 | 4112 - Maple, Beech, Cherry Association | Poletimber Well | 70 | 81-110 | Harvest | Single Tree Selection | 4119 - Mixed Northern Hardwoods | Uneven-Aged | Proposal |
|----|--------------|------|---|-----------------|----|--------|---------|-----------------------|---------------------------------|-------------|----------|

**Habitat Cut: No Site Condition: Survey Needed**

Prescription Selectively mark the stand down to 70-80 square feet. Do not mark under-represented trees within the stand. The treatment boundary was adjusted to exclude the hemlock groves and wetland edges along the stand.

Specs:

Wildlife comments: Retain all hemlock if is not excluded already and add a winter cutting specification – Deer wintering complex – State Game Fund Purchased, no chipping – American Marten

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Maple, birch, hemlock, pine, and oak.

Regen:OtherComment:

Proposed Start Date: 10/1 /2020





| S<br>t<br>a<br>n<br>d | Treatment Name | Acres | Stand CoverType                         | Size Density   | Stand Age | BA Range | Treatment Type | Treatment Method | Cover Type Objective             | Age Structure | Approval Status |
|-----------------------|----------------|-------|---|----------------|-----------|----------|----------------|------------------|----------------------------------|---------------|-----------------|
| 22                    | 32201022-Cut   | 19.7  | 4112 - Maple, Beech, Cherry Association | Sawtimber Well | 70        | 81-110   | Harvest        | Shelterwood      | 4116 - Mixed N. Hardwood - Aspen | Even-Aged     | Proposal        |

**Habitat Cut: No****Site Condition: Unknown Access**

Prescription Specs: Perform a shelterwood harvest. Keep 20-30 square feet of residual within the stand. Do not harvest under-represented species. Red line out any vernal ponds or low areas that exist within the stand.

Wildlife Comments: Retain all Green Ash (5%) – Seed production for wildlife (wood ducks and songbirds)

Next Step Treatments: Monitoring, Natural Regen (Re-Inventory)

Acceptable Regen: Maple, spruce, fir, aspen, birch, pine, oak, and hemlock.

Other Comment:

Proposed Start Date: 10/1 /2020

|    |              |      |                                 |                |    |       |         |                         |                                     |           |          |
|----|--------------|------|---------------------------------|----------------|----|-------|---------|-------------------------|-------------------------------------|-----------|----------|
| 40 | 32201040-Cut | 43.6 | 4119 - Mixed Northern Hardwoods | Sawtimber Well | 80 | 51-80 | Harvest | Clearcut with Retention | 4199 - Other Mixed Upland Deciduous | Even-Aged | Proposal |
|----|--------------|------|---------------------------------|----------------|----|-------|---------|-------------------------|-------------------------------------|-----------|----------|

**Habitat Cut: No****Site Condition: Survey Needed**

Prescription Specs: Clearcut with retention. Do not harvest under-represented species such as hemlock, oak, and yellow birch. Red line out hemlock groves as part of the retention guidelines. Make sure to include deciduous species as part of the retention pockets.

Wildlife Comments: Add a winter cutting specification – Deer wintering complex; no chipping – American Marten, Favor Green Ash (15%) – Seed production for wildlife (wood ducks and songbirds)

Next Step Treatments: Monitoring, Natural Regen (Re-Inventory)

Acceptable Regen: Maple, spruce, fir, pine, oak, hemlock, aspen, birch, and cherry.

Other Comment:

Proposed Start Date: 10/1 /2020

**Total Treatment Acreage Proposed: 197.7**

## Report 4 – Site Conditions

Gwinn Mgt. Unit  
Jason Caron : Examiner

Compartment: 201  
Year of Entry: 2021

### Availability for Management

| Total<br>Acres | Acres<br>Available | Acres Avail    |               | Dominant Site Conditions    | Dominant Site Conditions |     |    |    |    |   |
|----------------|--------------------|----------------|---------------|-----------------------------|--------------------------|-----|----|----|----|---|
|                |                    | With Condition | Not Available |                             | 2B                       | 2I  | 2G | 3A | 3H |   |
| 354            | 329                | 25             | 0             | Aspen                       |                          | 25  |    |    |    |   |
| 478            | 473                | 0              | 5             | Cedar                       |                          |     |    |    |    | 5 |
| 6              | 6                  | 0              | 0             | Hemlock                     |                          |     |    |    |    |   |
| 177            | 177                | 0              | 0             | Lowland Aspen/Balsam Poplar |                          |     |    |    |    |   |
| 238            | 155                | 0              | 83            | Lowland Deciduous           |                          |     | 83 |    |    |   |
| 4              | 4                  | 0              | 0             | Lowland Mixed Forest        |                          |     |    |    |    |   |
| 370            | 325                | 0              | 45            | Lowland Shrub               |                          |     |    |    | 45 |   |
| 10             | 10                 | 0              | 0             | Marsh                       |                          |     |    |    |    |   |
| 239            | 125                | 114            | 0             | Northern Hardwood           | 27                       | 87  |    |    |    |   |
| 24             | 0                  | 0              | 24            | Red Pine                    |                          |     |    |    | 24 |   |
| 1,901          | 1,604              | 138            | 158           | Total Forested Acres        | 27                       | 111 | 83 | 70 |    | 5 |
|                | 84%                | 7%             | 8%            | Relative Percent            |                          |     |    |    |    |   |

*\*Due to limitations in the current Site Conditions Analysis tool, all nonforested acres are considered available. Future development will enable analysis of nonforested types.*

| Site No.         | Dominant Site Cond Availability | Dominant Site Condition   | Acres | Other Site Condition  | Other Site Condition | Other Site Condition | Other Site Condition |
|------------------|---------------------------------|---|-------|---|----------------------|----------------------|----------------------|
| 2                | Available                       | 2I: Survey needed   | 44    | Unspecified   | Unspecified          | Unspecified          | Unspecified          |
| <b>Comments:</b> |                                 |   |       |   |                      |                      |                      |
| 3                | Available                       | 2B: Unknown if access through adjacent landowner(s) is possible | 27    | 2I: Survey needed   | Unspecified          | Unspecified          | Unspecified          |
| <b>Comments:</b> |                                 |   |       |   |                      |                      |                      |
| 4                | Available                       | 2I: Survey needed   | 43    | 2B: Unknown if access through adjacent landowner(s) is possible | Unspecified          | Unspecified          | Unspecified          |
| <b>Comments:</b> |                                 |   |       |   |                      |                      |                      |

## Report 4 – Site Conditions

Gwinn Mgt. Unit  
Jason Caron : Examiner

Compartment: 201  
Year of Entry: 2021

|   |                    |  |    |             |             |             |             |
|---|--------------------|--|----|-------------|-------------|-------------|-------------|
| 5   | <b>Available</b>   | <b>2I: Survey needed</b>   | 25 | Unspecified | Unspecified | Unspecified | Unspecified |
| <b>Comments:</b>  |                    |  |    |             |             |             |             |
| 6   | <b>Unavailable</b> | <b>3H: Deer Wintering Area - habitat is incompatible with harvest at this time</b> | 5  | Unspecified | Unspecified | Unspecified | Unspecified |
| <b>Comments:</b>  |                    |  |    |             |             |             |             |
| 7   | <b>Unavailable</b> | <b>2G: Too wet (sensitive soils, does not include access issues)</b>               | 52 | Unspecified | Unspecified | Unspecified | Unspecified |
| <b>Comments:</b>  |                    |  |    |             |             |             |             |
| 8   | <b>Unavailable</b> | <b>2G: Too wet (sensitive soils, does not include access issues)</b>               | 31 | Unspecified | Unspecified | Unspecified | Unspecified |
| <b>Comments:</b>  |                    |  |    |             |             |             |             |
| 9   | <b>Unavailable</b> | <b>3A: Conservation Values incompatible with harvest at this time</b>              | 70 | Unspecified | Unspecified | Unspecified | Unspecified |
| <b>Comments:</b><br>Stand is part of the Lake Superior Shoreline ERA. |                    |  |    |             |             |             |             |

Mgt. Unit

Compartment: #Type!

Year of Entry:



## Report 5 – PROPOSED SPECIAL CONSERVATION AREA\* (SCA) DETAILS

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

| SCA Name | SCA Category | Detail Type | Recommendation | Acres |
|----------|--------------|-------------|----------------|-------|
|----------|--------------|-------------|----------------|-------|

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Comments

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**Report 6 – EXISTING SPECIAL CONSERVATION AREA DETAILS**

\* This is a list of SCA's for this compartment along with a 1/4 mile buffer surrounding the compartment. Refer to the Special Conservation Area Map for locations of the below listed Conservation Areas.

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

| Conservation Area | Type                       | Description  |
|-------------------|----------------------------|--|
| SCA               | Cold Water Lake            | A coldwater lake has temperature and dissolved oxygen conditions that allow naturally-reproduced or stocked trout populations and those of other coldwater fish species to persist from year to year. Suitable conditions for coldwater fishes may occur in Michigan lakes if they are relatively deep, have substantial groundwater inflows, or are located in colder (northern) areas of the state. Such lakes are established by Director's action and designated as trout resources by Fisheries Order 200.  |
| SCA               | Cold Water Stream          | A coldwater stream has temperature and dissolved oxygen conditions that allow naturally-reproduced or stocked trout populations and those of other coldwater fish species (e.g., slimy sculpin) to persist from year to year. Coldwater streams in Michigan typically provide these conditions due to substantial contributions of groundwater to their stream flows. Such streams are established by Director's action and designated as trout resources by Fisheries Order 210.  |
| SCA               | 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.  |
| SCA               | Riparian Area              | A transitional area between aquatic and terrestrial ecosystems in which the terrestrial ecosystem influences the aquatic ecosystem and vice-versa. Because of the unique conditions adjacent to lakes, streams and open water wetlands, riparian areas harbor a high diversity of plants and wildlife. Riparian communities are ecologically and socially significant in their effects on water quality and quantity, as well as aesthetics, habitat, bank stability, timber production, and their contribution to overall biodiversity.   |
| ERA               | Ecological Reference Areas | Ecological Reference Areas (ERAs) are high quality examples of natural communities that have been identified as Element Occurrences (EOs) by the Michigan Natural Features Inventory (MNFI) within the context of their natural community classification system. Element Occurrences with viability ranks of A (Excellent) or B (Good) and a Global (G) or State (S) element (rarity) ranking of endangered (1), threatened (2), or rare (3) serve as an initial base of ERAs. They may be located upon any ownership in the State. The system is comprised of individual or associations of natural community types that are managed for restoration and maintenance of natural ecological processes and values. The public may submit recommendations for lands as ERAs using the DNR Conservation Area Recommendation Form. |



| Stand  | Level 4 Cover Type                    | Size Density     | Acres      | Stand Age  | BA Range | Managed Site | General Comments   |     |          |    |     |   |    |                |         |             |  |            |                |             |             |   |            |                |          |              |                |            |              |                      |          |           |          |          |           |          |          |           |                      |          |          |      |  |  |  |  |
|--|---------------------------------------|------------------|------------|------------|----------|--------------|--|-----|----------|----|-----|---|----|----------------|---------|-------------|--|------------|----------------|-------------|-------------|---|------------|----------------|----------|--------------|----------------|------------|--------------|----------------------|----------|-----------|----------|----------|-----------|----------|----------|-----------|----------------------|----------|----------|------|--|--|--|--|
| <b>1</b>   | 4110 - Sugar Maple Association        | Sawtimber Well   | 45.5       | 80         | 81-110   | N/A          | Stand was selectively managed in 2003 - 2004: TS#102-01-01. Stand consists of sugar maple with scattered red maple. The understory consists of mostly red maple regeneration of poorer stocking. Basal area rangers from 80 - 100 square feet.   |     |          |    |     |   |    |                |         |             |  |            |                |             |             |   |            |                |          |              |                |            |              |                      |          |           |          |          |           |          |          |           |                      |          |          |      |  |  |  |  |
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| Canopy Species   | % Cover                               | Size Class       | DBH        | Age        |          |              |  |     |          |    |     |   |    |                |         |             |  |            |                |             |             |   |            |                |          |              |                |            |              |                      |          |           |          |          |           |          |          |           |                      |          |          |      |  |  |  |  |
| Sugar Maple  | 80                                    | Log/Pole         | 14         | 80         |          |              |  |     |          |    |     |   |    |                |         |             |  |            |                |             |             |   |            |                |          |              |                |            |              |                      |          |           |          |          |           |          |          |           |                      |          |          |      |  |  |  |  |
| Red Maple  | 10                                    | Log/Pole         | 12         |            |          |              |  |     |          |    |     |   |    |                |         |             |  |            |                |             |             |   |            |                |          |              |                |            |              |                      |          |           |          |          |           |          |          |           |                      |          |          |      |  |  |  |  |
| Bigtooth Aspen   | 10                                    | Log/Pole         | 10         |            |          |              |  |     |          |    |     |   |    |                |         |             |  |            |                |             |             |   |            |                |          |              |                |            |              |                      |          |           |          |          |           |          |          |           |                      |          |          |      |  |  |  |  |
| Canopy Species   | Density                               | Avg. Height      | Size       |            |          |              |  |     |          |    |     |   |    |                |         |             |  |            |                |             |             |   |            |                |          |              |                |            |              |                      |          |           |          |          |           |          |          |           |                      |          |          |      |  |  |  |  |
| Red Maple  | Low                                   | 5 - 10 feet      | Sapling    |            |          |              |  |     |          |    |     |   |    |                |         |             |  |            |                |             |             |   |            |                |          |              |                |            |              |                      |          |           |          |          |           |          |          |           |                      |          |          |      |  |  |  |  |
| <b>2</b>   | 4130 - Aspen                          | Poletimber Well  | 24.6       | 50         | 51-80    | N/A          | Stand of pole sized aspen both big tooth and quaking.  |     |          |    |     |   |    |                |         |             |  |            |                |             |             |   |            |                |          |              |                |            |              |                      |          |           |          |          |           |          |          |           |                      |          |          |      |  |  |  |  |
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| Canopy Species   | % Cover                               | Size Class       | DBH        | Age        |          |              |  |     |          |    |     |   |    |                |         |             |  |            |                |             |             |   |            |                |          |              |                |            |              |                      |          |           |          |          |           |          |          |           |                      |          |          |      |  |  |  |  |
| Quaking Aspen  | 60                                    | Log/Pole         | 12         | 50         |          |              |  |     |          |    |     |   |    |                |         |             |  |            |                |             |             |   |            |                |          |              |                |            |              |                      |          |           |          |          |           |          |          |           |                      |          |          |      |  |  |  |  |
| Bigtooth Aspen   | 30                                    | Log/Pole         | 10         |            |          |              |  |     |          |    |     |   |    |                |         |             |  |            |                |             |             |   |            |                |          |              |                |            |              |                      |          |           |          |          |           |          |          |           |                      |          |          |      |  |  |  |  |
| Paper Birch  | 10                                    | Log/Pole         | 10         |            |          |              |  |     |          |    |     |   |    |                |         |             |  |            |                |             |             |   |            |                |          |              |                |            |              |                      |          |           |          |          |           |          |          |           |                      |          |          |      |  |  |  |  |
| Canopy Species   | Density                               | Avg. Height      | Size       |            |          |              |  |     |          |    |     |   |    |                |         |             |  |            |                |             |             |   |            |                |          |              |                |            |              |                      |          |           |          |          |           |          |          |           |                      |          |          |      |  |  |  |  |
| Balsam Fir   | Medium                                | Variable         | Sapling    |            |          |              |  |     |          |    |     |   |    |                |         |             |  |            |                |             |             |   |            |                |          |              |                |            |              |                      |          |           |          |          |           |          |          |           |                      |          |          |      |  |  |  |  |
| Red Maple  | Medium                                | Variable         | Sapling    |            |          |              |  |     |          |    |     |   |    |                |         |             |  |            |                |             |             |   |            |                |          |              |                |            |              |                      |          |           |          |          |           |          |          |           |                      |          |          |      |  |  |  |  |
| <b>3</b>   | 6119 - Mixed Lowland Deciduous Forest | Sawtimber Well   | 11.4       | 60         | 81-110   | N/A          | Stand consists of red maple and mature paper birch. An understory of fir and red maple exists throughout. Seeps exist in numerous locations within the stand. A larger pocket of paper birch exists in the southern part of the stand.   |     |          |    |     |   |    |                |         |             |  |            |                |             |             |   |            |                |          |              |                |            |              |                      |          |           |          |          |           |          |          |           |                      |          |          |      |  |  |  |  |
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| Canopy Species   | % Cover                               | Size Class       | DBH        | Age        |          |              |  |     |          |    |     |   |    |                |         |             |  |            |                |             |             |   |            |                |          |              |                |            |              |                      |          |           |          |          |           |          |          |           |                      |          |          |      |  |  |  |  |
| Paper Birch  | 40                                    | Log              | 14         | 60         |          |              |  |     |          |    |     |   |    |                |         |             |  |            |                |             |             |   |            |                |          |              |                |            |              |                      |          |           |          |          |           |          |          |           |                      |          |          |      |  |  |  |  |
| Red Maple  | 35                                    | Log/Pole         | 10         |            |          |              |  |     |          |    |     |   |    |                |         |             |  |            |                |             |             |   |            |                |          |              |                |            |              |                      |          |           |          |          |           |          |          |           |                      |          |          |      |  |  |  |  |
| Canopy Species   | Density                               | Avg. Height      | Size       |            |          |              |  |     |          |    |     |   |    |                |         |             |  |            |                |             |             |   |            |                |          |              |                |            |              |                      |          |           |          |          |           |          |          |           |                      |          |          |      |  |  |  |  |
| Balsam Fir   | Medium                                | Variable         | Sapling    |            |          |              |  |     |          |    |     |   |    |                |         |             |  |            |                |             |             |   |            |                |          |              |                |            |              |                      |          |           |          |          |           |          |          |           |                      |          |          |      |  |  |  |  |
| Mountain Maple   | Low                                   | 10 - 20 feet     | Sapling    |            |          |              |  |     |          |    |     |   |    |                |         |             |  |            |                |             |             |   |            |                |          |              |                |            |              |                      |          |           |          |          |           |          |          |           |                      |          |          |      |  |  |  |  |
| <b>4</b>   | 6120 - Lowland Cedar                  | Sawtimber Well   | 6.1        | 100        | 81-110   | N/A          | OPIC - FMD: SCA= ERA: Great lakes marsh. Part of a larger wetland complex and winter deer yard. Stand contains merchantable softwoods in the transition from hardwood to cedar swamp.  |     |          |    |     |   |    |                |         |             |  |            |                |             |             |   |            |                |          |              |                |            |              |                      |          |           |          |          |           |          |          |           |                      |          |          |      |  |  |  |  |
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| Canopy Species   | % Cover                               | Size Class       | DBH        | Age        |          |              |  |     |          |    |     |   |    |                |         |             |  |            |                |             |             |   |            |                |          |              |                |            |              |                      |          |           |          |          |           |          |          |           |                      |          |          |      |  |  |  |  |
| Northern White Cedar   | 100                                   | Log/Pole         | 10         | 100        |          |              |  |     |          |    |     |   |    |                |         |             |  |            |                |             |             |   |            |                |          |              |                |            |              |                      |          |           |          |          |           |          |          |           |                      |          |          |      |  |  |  |  |
| Canopy Species   | Density                               | Avg. Height      | Size       |            |          |              |  |     |          |    |     |   |    |                |         |             |  |            |                |             |             |   |            |                |          |              |                |            |              |                      |          |           |          |          |           |          |          |           |                      |          |          |      |  |  |  |  |
| Tag Alder  | Medium                                | 5 - 10 feet      | Tall Shrub |            |          |              |  |     |          |    |     |   |    |                |         |             |  |            |                |             |             |   |            |                |          |              |                |            |              |                      |          |           |          |          |           |          |          |           |                      |          |          |      |  |  |  |  |
| <b>5</b>   | 42210 - Natural Red Pine              | Sawtimber Medium | 20.7       | 133        | 81-110   | N/A          | Stand is currently within the Lake Superior Shoreline ERA as the Iron River Wooded Dune and Swale Complex (EO ID: 7311). Stand was managed in 1975 in which all jack pine were cut along with marked red and white pine. TS# 15-72. Stand currently consists of red pine logs with a few white pine scattered here and there. Red pine density varies throughout the stand. Scattered oak poles exist throughout the stand. The understory is heavy to white pine in most areas. Most of the remaining jack pine are dead within the stand. East half of the stand contains younger timber primarily with a mix of red, white, and jack pine. Trees average 30+ years old. |     |          |    |     |   |    |                |         |             |  |            |                |             |             |   |            |                |          |              |                |            |              |                      |          |           |          |          |           |          |          |           |                      |          |          |      |  |  |  |  |
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| Canopy Species   | % Cover                               | Size Class       | DBH        | Age        |          |              |  |     |          |    |     |   |    |                |         |             |  |            |                |             |             |   |            |                |          |              |                |            |              |                      |          |           |          |          |           |          |          |           |                      |          |          |      |  |  |  |  |
| Red Pine   | 88                                    | XLog/Log         | 18         | 133        |          |              |  |     |          |    |     |   |    |                |         |             |  |            |                |             |             |   |            |                |          |              |                |            |              |                      |          |           |          |          |           |          |          |           |                      |          |          |      |  |  |  |  |
| Canopy Species   | Density                               | Avg. Height      | Size       |            |          |              |  |     |          |    |     |   |    |                |         |             |  |            |                |             |             |   |            |                |          |              |                |            |              |                      |          |           |          |          |           |          |          |           |                      |          |          |      |  |  |  |  |
| White Pine   | Low                                   | Variable         | Sapling    |            |          |              |  |     |          |    |     |   |    |                |         |             |  |            |                |             |             |   |            |                |          |              |                |            |              |                      |          |           |          |          |           |          |          |           |                      |          |          |      |  |  |  |  |
| Red Oak  | Medium                                | >20 feet         | Pole       |            |          |              |  |     |          |    |     |   |    |                |         |             |  |            |                |             |             |   |            |                |          |              |                |            |              |                      |          |           |          |          |           |          |          |           |                      |          |          |      |  |  |  |  |
| Black Spruce   | Medium                                | Variable         | Sapling    |            |          |              |  |     |          |    |     |   |    |                |         |             |  |            |                |             |             |   |            |                |          |              |                |            |              |                      |          |           |          |          |           |          |          |           |                      |          |          |      |  |  |  |  |
| Northern White Cedar   | Medium                                | >20 feet         | Pole       |            |          |              |  |     |          |    |     |   |    |                |         |             |  |            |                |             |             |   |            |                |          |              |                |            |              |                      |          |           |          |          |           |          |          |           |                      |          |          |      |  |  |  |  |
| Red Pine   | Low                                   | Variable         | Sapling    |            |          |              |  |     |          |    |     |   |    |                |         |             |  |            |                |             |             |   |            |                |          |              |                |            |              |                      |          |           |          |          |           |          |          |           |                      |          |          |      |  |  |  |  |
| Red Maple  | Low                                   | Variable         | Sapling    |            |          |              |  |     |          |    |     |   |    |                |         |             |  |            |                |             |             |   |            |                |          |              |                |            |              |                      |          |           |          |          |           |          |          |           |                      |          |          |      |  |  |  |  |
| <b>6</b>   | 6220 - Alder/willow                   | Nonstocked       | 8.6        |            |          | No           | This stand is part of the Iron River wooded dune and swale complex. EO ID: 7311. Stand was surveyed in the summer of 2018 by Joshua Cohen with MNFI.   |     |          |    |     |   |    |                |         |             |  |            |                |             |             |   |            |                |          |              |                |            |              |                      |          |           |          |          |           |          |          |           |                      |          |          |      |  |  |  |  |
| <b>7</b>   | 42210 - Natural Red Pine              | Sawtimber Well   | 2.5        | 133        | 81-110   | N/A          | Stand is currently within the Lake Superior Shoreline ERA as the Iron River Wooded Dune and Swale Complex (EO ID: 7311). Stand currently consists of red pine logs with a few white pine scattered here and there. Edges of the stand are wet. The understory varies depending on where you stand. With the higher water table there are scattered pole sized cedar and pockets of young black spruce within the understory.   |     |          |    |     |   |    |                |         |             |  |            |                |             |             |   |            |                |          |              |                |            |              |                      |          |           |          |          |           |          |          |           |                      |          |          |      |  |  |  |  |
| <table border="1"> <thead> <tr> <th>Canopy Species</th> <th>% Cover</th> <th>Size Class</th> <th>DBH</th> <th>Age</th> </tr> </thead> <tbody> <tr> <td>Red Pine</td> <td>90</td> <td>XLog/Log</td> <td>18</td> <td>133</td> </tr> <tr> <td>White Pine</td> <td>10</td> <td>XLog/Log</td> <td>18</td> <td></td> </tr> </tbody> </table>   |                                       | Canopy Species   | % Cover    | Size Class | DBH      | Age          | Red Pine   | 90  | XLog/Log | 18 | 133 | White Pine  | 10 | XLog/Log       | 18      |             | <table border="1"> <thead> <tr> <th>Canopy Species</th> <th>Density</th> <th>Avg. Height</th> <th>Size</th> </tr> </thead> <tbody> <tr> <td>White Pine</td> <td>Low</td> <td>Variable</td> <td>Sapling</td> </tr> <tr> <td>Black Spruce</td> <td>Medium</td> <td>Variable</td> <td>Sapling</td> </tr> <tr> <td>Red Pine</td> <td>Low</td> <td>Variable</td> <td>Sapling</td> </tr> <tr> <td>Red Maple</td> <td>Low</td> <td>Variable</td> <td>Pole</td> </tr> <tr> <td>Northern White Cedar</td> <td>Medium</td> <td>Variable</td> <td>Pole</td> </tr> </tbody> </table> |            | Canopy Species | Density     | Avg. Height | Size  | White Pine | Low            | Variable | Sapling      | Black Spruce   | Medium     | Variable     | Sapling              | Red Pine | Low       | Variable | Sapling  | Red Maple | Low      | Variable | Pole      | Northern White Cedar | Medium   | Variable | Pole |  |  |  |  |
| Canopy Species   | % Cover                               | Size Class       | DBH        | Age        |          |              |  |     |          |    |     |   |    |                |         |             |  |            |                |             |             |   |            |                |          |              |                |            |              |                      |          |           |          |          |           |          |          |           |                      |          |          |      |  |  |  |  |
| Red Pine   | 90                                    | XLog/Log         | 18         | 133        |          |              |  |     |          |    |     |   |    |                |         |             |  |            |                |             |             |   |            |                |          |              |                |            |              |                      |          |           |          |          |           |          |          |           |                      |          |          |      |  |  |  |  |
| White Pine   | 10                                    | XLog/Log         | 18         |            |          |              |  |     |          |    |     |   |    |                |         |             |  |            |                |             |             |   |            |                |          |              |                |            |              |                      |          |           |          |          |           |          |          |           |                      |          |          |      |  |  |  |  |
| Canopy Species   | Density                               | Avg. Height      | Size       |            |          |              |  |     |          |    |     |   |    |                |         |             |  |            |                |             |             |   |            |                |          |              |                |            |              |                      |          |           |          |          |           |          |          |           |                      |          |          |      |  |  |  |  |
| White Pine   | Low                                   | Variable         | Sapling    |            |          |              |  |     |          |    |     |   |    |                |         |             |  |            |                |             |             |   |            |                |          |              |                |            |              |                      |          |           |          |          |           |          |          |           |                      |          |          |      |  |  |  |  |
| Black Spruce   | Medium                                | Variable         | Sapling    |            |          |              |  |     |          |    |     |   |    |                |         |             |  |            |                |             |             |   |            |                |          |              |                |            |              |                      |          |           |          |          |           |          |          |           |                      |          |          |      |  |  |  |  |
| Red Pine   | Low                                   | Variable         | Sapling    |            |          |              |  |     |          |    |     |   |    |                |         |             |  |            |                |             |             |   |            |                |          |              |                |            |              |                      |          |           |          |          |           |          |          |           |                      |          |          |      |  |  |  |  |
| Red Maple  | Low                                   | Variable         | Pole       |            |          |              |  |     |          |    |     |   |    |                |         |             |  |            |                |             |             |   |            |                |          |              |                |            |              |                      |          |           |          |          |           |          |          |           |                      |          |          |      |  |  |  |  |
| Northern White Cedar   | Medium                                | Variable         | Pole       |            |          |              |  |     |          |    |     |   |    |                |         |             |  |            |                |             |             |   |            |                |          |              |                |            |              |                      |          |           |          |          |           |          |          |           |                      |          |          |      |  |  |  |  |



| Stand                 | Level 4 Cover Type                         | Size Density      | Acres             | Stand Age  | BA Range   | Managed Site          | General Comments   |                |                    |             |
|-----------------------|--|-------------------|-------------------|------------|------------|-----------------------|--|----------------|--------------------|-------------|
| 8                     | 42210 - Natural Red Pine                   | Sawtimber Well    | 1.0               | 133        | 81-110     | N/A                   | Stand is currently within the Lake Superior Shoreline ERA as the Iron River Wooded Dune and Swale Complex (EO ID: 7311). Stand currently consists of red pine logs with a few white pine scattered here and there. Red pine density varies throughout the stand. The understory is heavy to white pine in most areas.  |                |                    |             |
| <b>Canopy Species</b> |  | <b>% Cover</b>    | <b>Size Class</b> | <b>DBH</b> | <b>Age</b> | <b>Canopy Species</b> |  | <b>Density</b> | <b>Avg. Height</b> | <b>Size</b> |
| Red Pine              |  | 90                | XLog/Log          | 18         | 133        | White Pine            |  | High           | Variable           | Sapling     |
| White Pine            |  | 10                | XLog/Log          | 18         |            |                       |  |                |                    |             |
| 9                     | 6221 - Fen                                 | Nonstocked        | 37.0              |            |            | No                    | A portion of this stand contains the Johnson Creek Poor Fen. EO ID: 22090<br>This fen was identified and surveyed in the summer of 2018 by Joshua Cohen with MNFI.   |                |                    |             |
| 10                    | 6220 - Alder/willow                        | Nonstocked        | 76.2              |            |            | No                    | Large wetland complex.   |                |                    |             |
| 11                    | 6117 - Lowland Deciduous, Mixed Coniferous | Poletimber Well   | 52.2              | 109        | 81-110     | N/A                   | Was not able to make it to this stand. Former inventory notes state that an osprey nest exists on the SE edge of the stand. Stand is part of a large wetland complex and contains parts of the Yellow Dog River drainage.  |                |                    |             |
| 12                    | 6223 - Inundated Shrub Swamp               | Nonstocked        | 164.1             |            |            | No                    | This stand was formerly identified as Great Lakes Marsh but removed from that status in 2018 by Joshua Cohen with MNFI. This stand contains various tree and herbaceous species throughout depending on where you are within the stand. It is difficult to pick a classification in MiFI for what this stand is. In looking at the imagery it is apparent that numerous springs & seeps exist just south of the Lake Independence shoreline. Small water inclusions exist throughout the stand.  |                |                    |             |
| 13                    | 4130 - Aspen                               | Poletimber Well   | 49.2              | 20         | 81-110     | N/A                   | Stand of fully stocked aspen with inclusions of red oak and red maple.   |                |                    |             |
| <b>Canopy Species</b> |  | <b>% Cover</b>    | <b>Size Class</b> | <b>DBH</b> | <b>Age</b> | <b>Canopy Species</b> |  | <b>Density</b> | <b>Avg. Height</b> | <b>Size</b> |
| Bigtooth Aspen        |  | 50                | Pole/Sapling      | 5          | 20         | Balsam Fir            |  | Medium         | Variable           | Sapling     |
| Red Oak               |  | 10                | Pole/Sapling      | 5          |            | Red Maple             |  | Full           | Variable           | Sapling     |
| Red Maple             |  | 10                | Pole/Sapling      | 5          |            | Bigtooth Aspen        |  | Medium         | >20 feet           | Sapling     |
| Quaking Aspen         |  | 20                | Pole/Sapling      | 5          |            |                       |  |                |                    |             |
| Balsam Fir            |  | 10                | Pole/Sapling      | 4          |            |                       |  |                |                    |             |
| 14                    | 4113 - R.Maple, Conifer                    | Poletimber Well   | 6.3               | 70         | 81-110     | N/A                   | Stand appears to be an upland type.  |                |                    |             |
| 15                    | 6120 - Lowland Cedar                       | Poletimber Medium | 104.8             | 160        | 51-80      | N/A                   | Stand consists of poorer quality cedar. When doing the inventory in March of 2019 I noticed alot of surface drainage occurring within the stand. Larger areas of tag alder inclusions exist within the stand as well. A thick understory of balsam and tag alder throughout. I did hike over to a small hemlock island within the southern edge of the stand that was very unique. Previous inventory notes mention large areas being flooded due to the Yellow Dog river changing it's course. I would agree with this as I noticed larger areas of dead standing timber within the southern part of the stand as well. |                |                    |             |
| <b>Canopy Species</b> |  | <b>% Cover</b>    | <b>Size Class</b> | <b>DBH</b> | <b>Age</b> | <b>Canopy Species</b> |  | <b>Density</b> | <b>Avg. Height</b> | <b>Size</b> |
| Northern White Cedar  |  | 100               | Log/Pole          | 11         | 160        | Balsam Fir            |  | High           | Variable           | Sapling     |
|                       |  |                   |                   |            |            | Tag Alder             |  | High           | 5 - 10 feet        | Tall Shrub  |



| Stand                 | Level 4 Cover Type                      | Size Density      | Acres             | Stand Age  | BA Range   | Managed Site          | General Comments   |                    |                    |             |
|-----------------------|---|-------------------|-------------------|------------|------------|-----------------------|--|--------------------|--------------------|-------------|
| <b>16</b>             | 42350 - Upland Hemlock                  | Sawtimber Well    | 5.6               | 184        | 111-140    | N/A                   | Stand is growing on a small rise that contains higher ground than the stand to the west. Stand consists of old hemlock. Evidence of previous cutting exists with old cut stumps present within the stand. I cored a hemlock at 154 years. It's hard to say how many years to add to hemlock beings they can persist in the understory for along time. I added 30 years to the age for an estimation. |                    |                    |             |
| <b>Canopy Species</b> |   | <b>% Cover</b>    | <b>Size Class</b> | <b>DBH</b> | <b>Age</b> | <b>Canopy Species</b> |  | <b>Density</b>     | <b>Avg. Height</b> | <b>Size</b> |
| Hemlock               |   | 95                | Log               | 18         | 184        | Hemlock               |  | Low                | 5 - 10 feet        | Sapling     |
| Black Spruce          |   |                   |                   |            |            | Black Spruce          |  | Low                | < 5 feet           | Sapling     |
| Balsam Fir            |   |                   |                   |            |            | Balsam Fir            | Low  | Variable           | Sapling            |             |
| <b>18</b>             | 6119 - Mixed Lowland Deciduous Forest   | Poletimber Medium | 10.1              | 89         | 81-110     | N/A                   | Stand of low ground that contains a mix of species and ages.   |                    |                    |             |
| <b>Canopy Species</b> |   | <b>% Cover</b>    | <b>Size Class</b> | <b>DBH</b> | <b>Age</b> | <b>Canopy Species</b> | <b>Density</b>   | <b>Avg. Height</b> | <b>Size</b>        |             |
| Red Maple             |   | 50                | Pole              | 8          | 89         | Northern White Cedar  | Medium   | Variable           | Pole               |             |
| Black Ash             |   | 50                | Pole              | 7          |            | Black Ash             | Full   | Variable           | Sapling            |             |
|                       |   |                   |                   |            |            | Balsam Fir            | Low  | Variable           | Sapling            |             |
| <b>19</b>             | 4130 - Aspen                            | Poletimber Well   | 41.2              | 28         | 51-80      | N/A                   | Stand was harvested in 1991. TS# 7-91. Stand consists of fully stocked aspen of good quality. Aspen has reached the pole size class. Stand also contains scattered ash, paper birch, and maple inclusions. Low areas exist throughout the stand.   |                    |                    |             |
| <b>Canopy Species</b> |   | <b>% Cover</b>    | <b>Size Class</b> | <b>DBH</b> | <b>Age</b> | <b>Canopy Species</b> |  | <b>Density</b>     | <b>Avg. Height</b> | <b>Size</b> |
| Quaking Aspen         |   | 94                | Pole              | 7          | 28         | Balsam Fir            |  | Medium             | Variable           | Sapling     |
|                       |   |                   |                   |            |            | Red Maple             |  | Medium             | Variable           | Sapling     |
|                       |   |                   |                   |            |            | Green Ash             |  | Low                | Variable           | Sapling     |
|                       |   |                   |                   |            |            | Sugar Maple           | Medium   | Variable           | Sapling            |             |
| <b>20</b>             | 4112 - Maple, Beech, Cherry Association | Poletimber Well   | 58.3              | 70         | 81-110     | N/A                   | Stand was selectively harvested in 2004: TS# 103-01-01. Stand consists of pole sized hardwood that contains a couple dense pockets of mature hemlock. I noticed a few scattered yellow birch within the stand as well. Basal area averages 110 to 120 square feet.   |                    |                    |             |
| <b>Canopy Species</b> |   | <b>% Cover</b>    | <b>Size Class</b> | <b>DBH</b> | <b>Age</b> | <b>Canopy Species</b> |  | <b>Density</b>     | <b>Avg. Height</b> | <b>Size</b> |
| Sugar Maple           |   | 77                | Log/Pole          | 12         | 70         | Sugar Maple           |  | Medium             | Variable           | Sapling     |
| Red Maple             |   | 15                | Log/Pole          | 11         |            | Red Maple             |  | Medium             | Variable           | Sapling     |
| Hemlock               |   | 8                 | Log/XLog          | 20         |            | Balsam Fir            | Medium   | Variable           | Sapling            |             |
| <b>21</b>             | 6139 - Mixed Lowland Forest             | Poletimber Poor   | 4.3               | 50         |            | N/A                   | Stand consists of both the Yellow Dog river and it's associated riparian area. I'm sure the stand floods out on occasion during high water events. An old flooded out cabin and various yard junk exist just outside of the state land boundary within the SE corner of the stand. It didn't appear that anything is in trespass. I will verify when I set up the timber sale.                       |                    |                    |             |
| <b>Canopy Species</b> |   | <b>% Cover</b>    | <b>Size Class</b> | <b>DBH</b> | <b>Age</b> | <b>Canopy Species</b> |  | <b>Density</b>     | <b>Avg. Height</b> | <b>Size</b> |
| Black Ash             |   | 50                | Pole/Sapling      | 6          | 50         | Balsam Fir            |  | High               | Variable           | Sapling     |
| Balsam Fir            |   | 50                | Sapling/Pole      | 4          |            |                       |  |                    |                    |             |
| <b>22</b>             | 4112 - Maple, Beech, Cherry Association | Sawtimber Well    | 26.6              | 70         | 81-110     | N/A                   | Stand of poor quality red maple mixed with scattered sugar maple and quaking aspen. Maple regeneration is well established within the understory in most areas. Numerous vernal ponds exist within the stand which contain a mix of ash and maple.   |                    |                    |             |
| <b>Canopy Species</b> |   | <b>% Cover</b>    | <b>Size Class</b> | <b>DBH</b> | <b>Age</b> | <b>Canopy Species</b> |  | <b>Density</b>     | <b>Avg. Height</b> | <b>Size</b> |
| Red Maple             |   | 75                | Pole/Log          | 9          | 70         | Red Maple             |  | Medium             | Variable           | Sapling     |
| Quaking Aspen         |   | 15                | Pole              | 9          |            | Sugar Maple           |  | Medium             | Variable           | Sapling     |
|                       |   |                   |                   |            |            | Yellow Birch          |  | Medium             | Variable           | Sapling     |
|                       |   |                   |                   |            |            | Hazelnut (Beaked)     | Low  | 5 - 10 feet        | Tall Shrub         |             |





| Stand   | Level 4 Cover Type                         | Size Density      | Acres      | Stand Age  | BA Range | Managed Site | General Comments   |    |              |    |     |   |    |                |         |             |   |            |                |          |             |           |           |             |            |                      |            |             |          |         |            |        |             |            |              |     |          |         |           |        |          |         |                 |     |             |            |           |        |             |            |
|---|--|-------------------|------------|------------|----------|--------------|--|----|--------------|----|-----|---|----|----------------|---------|-------------|---|------------|----------------|----------|-------------|-----------|-----------|-------------|------------|----------------------|------------|-------------|----------|---------|------------|--------|-------------|------------|--------------|-----|----------|---------|-----------|--------|----------|---------|-----------------|-----|-------------|------------|-----------|--------|-------------|------------|
| 23  | 6117 - Lowland Deciduous, Mixed Coniferous | Poletimber Well   | 10.1       | 75         | 81-110   | N/A          | Was not able to make it to this stand. Former inventory notes state this stand is a winter deer yard. Stand was cut between 1972 & 1975. TS# 11-73.  |    |              |    |     |   |    |                |         |             |   |            |                |          |             |           |           |             |            |                      |            |             |          |         |            |        |             |            |              |     |          |         |           |        |          |         |                 |     |             |            |           |        |             |            |
| 24  | 6113 - Lowland Maple                       | Poletimber Well   | 31.3       | 70         | 51-80    | N/A          | Stand of lowland red maple and ash mixed with pockets of hemlock and ash. Some areas contain decent hemlock regeneration within the understory. Stand is currently under 6" of water due to a very wet spring. Sheet flow exists throughout. |    |              |    |     |   |    |                |         |             |   |            |                |          |             |           |           |             |            |                      |            |             |          |         |            |        |             |            |              |     |          |         |           |        |          |         |                 |     |             |            |           |        |             |            |
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| Canopy Species  | % Cover                                    | Size Class        | DBH        | Age        |          |              |  |    |              |    |     |   |    |                |         |             |   |            |                |          |             |           |           |             |            |                      |            |             |          |         |            |        |             |            |              |     |          |         |           |        |          |         |                 |     |             |            |           |        |             |            |
| Red Maple   | 70   | Pole              | 9          | 70         |          |              |  |    |              |    |     |   |    |                |         |             |   |            |                |          |             |           |           |             |            |                      |            |             |          |         |            |        |             |            |              |     |          |         |           |        |          |         |                 |     |             |            |           |        |             |            |
| Black Ash   | 20   | Pole              | 9          |            |          |              |  |    |              |    |     |   |    |                |         |             |   |            |                |          |             |           |           |             |            |                      |            |             |          |         |            |        |             |            |              |     |          |         |           |        |          |         |                 |     |             |            |           |        |             |            |
| Canopy Species  | Density                                    | Avg. Height       | Size       |            |          |              |  |    |              |    |     |   |    |                |         |             |   |            |                |          |             |           |           |             |            |                      |            |             |          |         |            |        |             |            |              |     |          |         |           |        |          |         |                 |     |             |            |           |        |             |            |
| Red Maple   | High                                       | Variable          | Sapling    |            |          |              |  |    |              |    |     |   |    |                |         |             |   |            |                |          |             |           |           |             |            |                      |            |             |          |         |            |        |             |            |              |     |          |         |           |        |          |         |                 |     |             |            |           |        |             |            |
| Balsam Fir  | Medium                                     | Variable          | Sapling    |            |          |              |  |    |              |    |     |   |    |                |         |             |   |            |                |          |             |           |           |             |            |                      |            |             |          |         |            |        |             |            |              |     |          |         |           |        |          |         |                 |     |             |            |           |        |             |            |
| Hemlock   | Medium                                     | Variable          | Sapling    |            |          |              |  |    |              |    |     |   |    |                |         |             |   |            |                |          |             |           |           |             |            |                      |            |             |          |         |            |        |             |            |              |     |          |         |           |        |          |         |                 |     |             |            |           |        |             |            |
| Yellow Birch  | Low  | Variable          | Sapling    |            |          |              |  |    |              |    |     |   |    |                |         |             |   |            |                |          |             |           |           |             |            |                      |            |             |          |         |            |        |             |            |              |     |          |         |           |        |          |         |                 |     |             |            |           |        |             |            |
| Black Ash   | Medium                                     | Variable          | Sapling    |            |          |              |  |    |              |    |     |   |    |                |         |             |   |            |                |          |             |           |           |             |            |                      |            |             |          |         |            |        |             |            |              |     |          |         |           |        |          |         |                 |     |             |            |           |        |             |            |
| Hazelnut (Spp.)   | Low  | 5 - 10 feet       | Tall Shrub |            |          |              |  |    |              |    |     |   |    |                |         |             |   |            |                |          |             |           |           |             |            |                      |            |             |          |         |            |        |             |            |              |     |          |         |           |        |          |         |                 |     |             |            |           |        |             |            |
| Tag Alder   | Medium                                     | 5 - 10 feet       | Tall Shrub |            |          |              |  |    |              |    |     |   |    |                |         |             |   |            |                |          |             |           |           |             |            |                      |            |             |          |         |            |        |             |            |              |     |          |         |           |        |          |         |                 |     |             |            |           |        |             |            |
| 25  | 6115 - Lowland Ash                         | Poletimber Poor   | 57.4       | 50         | 1-50     | N/A          | Stand is part of a large wetland complex. Former inventory notes state the stand was cut between 1972 & 1975. TS#11-73. Stand currently consists of lowland ash of various ages. Ground is very low throughout.                              |    |              |    |     |   |    |                |         |             |   |            |                |          |             |           |           |             |            |                      |            |             |          |         |            |        |             |            |              |     |          |         |           |        |          |         |                 |     |             |            |           |        |             |            |
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| Canopy Species  | % Cover                                    | Size Class        | DBH        | Age        |          |              |  |    |              |    |     |   |    |                |         |             |   |            |                |          |             |           |           |             |            |                      |            |             |          |         |            |        |             |            |              |     |          |         |           |        |          |         |                 |     |             |            |           |        |             |            |
| Black Ash   | 85   | Pole              | 8          | 50         |          |              |  |    |              |    |     |   |    |                |         |             |   |            |                |          |             |           |           |             |            |                      |            |             |          |         |            |        |             |            |              |     |          |         |           |        |          |         |                 |     |             |            |           |        |             |            |
| Red Maple   | 15   | Pole              | 9          |            |          |              |  |    |              |    |     |   |    |                |         |             |   |            |                |          |             |           |           |             |            |                      |            |             |          |         |            |        |             |            |              |     |          |         |           |        |          |         |                 |     |             |            |           |        |             |            |
| Canopy Species  | Density                                    | Avg. Height       | Size       |            |          |              |  |    |              |    |     |   |    |                |         |             |   |            |                |          |             |           |           |             |            |                      |            |             |          |         |            |        |             |            |              |     |          |         |           |        |          |         |                 |     |             |            |           |        |             |            |
| Black Ash   | Full                                       | Variable          | Sapling    |            |          |              |  |    |              |    |     |   |    |                |         |             |   |            |                |          |             |           |           |             |            |                      |            |             |          |         |            |        |             |            |              |     |          |         |           |        |          |         |                 |     |             |            |           |        |             |            |
| Balsam Fir  | Medium                                     | Variable          | Sapling    |            |          |              |  |    |              |    |     |   |    |                |         |             |   |            |                |          |             |           |           |             |            |                      |            |             |          |         |            |        |             |            |              |     |          |         |           |        |          |         |                 |     |             |            |           |        |             |            |
| Tag Alder   | High                                       | 5 - 10 feet       | Tall Shrub |            |          |              |  |    |              |    |     |   |    |                |         |             |   |            |                |          |             |           |           |             |            |                      |            |             |          |         |            |        |             |            |              |     |          |         |           |        |          |         |                 |     |             |            |           |        |             |            |
| 26  | 6117 - Lowland Deciduous, Mixed Coniferous | Sawtimber Well    | 51.5       | 50         | 51-80    | N/A          | Was not able to make it to this stand. Stand is part of a large wetland complex.   |    |              |    |     |   |    |                |         |             |   |            |                |          |             |           |           |             |            |                      |            |             |          |         |            |        |             |            |              |     |          |         |           |        |          |         |                 |     |             |            |           |        |             |            |
| 28  | 6120 - Lowland Cedar                       | Poletimber Medium | 345.1      | 116        | 51-80    | N/A          | Stand is part of a large wetland complex. Stand consists of stunted poor quality cedar. The understory consists of balsam, tag alder, and cedar. I can see some layering regeneration occurring within the cedar as well.                    |    |              |    |     |   |    |                |         |             |   |            |                |          |             |           |           |             |            |                      |            |             |          |         |            |        |             |            |              |     |          |         |           |        |          |         |                 |     |             |            |           |        |             |            |
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| Canopy Species  | % Cover                                    | Size Class        | DBH        | Age        |          |              |  |    |              |    |     |   |    |                |         |             |   |            |                |          |             |           |           |             |            |                      |            |             |          |         |            |        |             |            |              |     |          |         |           |        |          |         |                 |     |             |            |           |        |             |            |
| Northern White Cedar  | 98   | Pole/Sapling      | 7          | 116        |          |              |  |    |              |    |     |   |    |                |         |             |   |            |                |          |             |           |           |             |            |                      |            |             |          |         |            |        |             |            |              |     |          |         |           |        |          |         |                 |     |             |            |           |        |             |            |
| Canopy Species  | Density                                    | Avg. Height       | Size       |            |          |              |  |    |              |    |     |   |    |                |         |             |   |            |                |          |             |           |           |             |            |                      |            |             |          |         |            |        |             |            |              |     |          |         |           |        |          |         |                 |     |             |            |           |        |             |            |
| Balsam Fir  | Medium                                     | Variable          | Sapling    |            |          |              |  |    |              |    |     |   |    |                |         |             |   |            |                |          |             |           |           |             |            |                      |            |             |          |         |            |        |             |            |              |     |          |         |           |        |          |         |                 |     |             |            |           |        |             |            |
| Tag Alder   | High                                       | 5 - 10 feet       | Tall Shrub |            |          |              |  |    |              |    |     |   |    |                |         |             |   |            |                |          |             |           |           |             |            |                      |            |             |          |         |            |        |             |            |              |     |          |         |           |        |          |         |                 |     |             |            |           |        |             |            |
| Northern White Cedar  | Low  | 5 - 10 feet       | Sapling    |            |          |              |  |    |              |    |     |   |    |                |         |             |   |            |                |          |             |           |           |             |            |                      |            |             |          |         |            |        |             |            |              |     |          |         |           |        |          |         |                 |     |             |            |           |        |             |            |
| 29  | 6120 - Lowland Cedar                       | Sawtimber Well    | 4.9        | 160        | 111-140  | N/A          | Stand of cedar that is mixed with red maple, black ash, and a few hemlock. Some hemlock regeneration exists within the understory. Water table may be getting higher as the mature hemlock looks to be in poor condition with thin tops.     |    |              |    |     |   |    |                |         |             |   |            |                |          |             |           |           |             |            |                      |            |             |          |         |            |        |             |            |              |     |          |         |           |        |          |         |                 |     |             |            |           |        |             |            |
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| Canopy Species  | % Cover                                    | Size Class        | DBH        | Age        |          |              |  |    |              |    |     |   |    |                |         |             |   |            |                |          |             |           |           |             |            |                      |            |             |          |         |            |        |             |            |              |     |          |         |           |        |          |         |                 |     |             |            |           |        |             |            |
| Northern White Cedar  | 80   | Log/Pole          | 10         | 160        |          |              |  |    |              |    |     |   |    |                |         |             |   |            |                |          |             |           |           |             |            |                      |            |             |          |         |            |        |             |            |              |     |          |         |           |        |          |         |                 |     |             |            |           |        |             |            |
| Red Maple   | 15   | Log/Pole          | 10         |            |          |              |  |    |              |    |     |   |    |                |         |             |   |            |                |          |             |           |           |             |            |                      |            |             |          |         |            |        |             |            |              |     |          |         |           |        |          |         |                 |     |             |            |           |        |             |            |
| Canopy Species  | Density                                    | Avg. Height       | Size       |            |          |              |  |    |              |    |     |   |    |                |         |             |   |            |                |          |             |           |           |             |            |                      |            |             |          |         |            |        |             |            |              |     |          |         |           |        |          |         |                 |     |             |            |           |        |             |            |
| Hemlock   | Low  | Variable          | Sapling    |            |          |              |  |    |              |    |     |   |    |                |         |             |   |            |                |          |             |           |           |             |            |                      |            |             |          |         |            |        |             |            |              |     |          |         |           |        |          |         |                 |     |             |            |           |        |             |            |
| Red Maple   | Medium                                     | Variable          | Sapling    |            |          |              |  |    |              |    |     |   |    |                |         |             |   |            |                |          |             |           |           |             |            |                      |            |             |          |         |            |        |             |            |              |     |          |         |           |        |          |         |                 |     |             |            |           |        |             |            |
| Balsam Fir  | Medium                                     | Variable          | Sapling    |            |          |              |  |    |              |    |     |   |    |                |         |             |   |            |                |          |             |           |           |             |            |                      |            |             |          |         |            |        |             |            |              |     |          |         |           |        |          |         |                 |     |             |            |           |        |             |            |
| 30  | 6220 - Alder/willow                        | Nonstocked        | 5.6        |            |          | No           | Small lowland type.  |    |              |    |     |   |    |                |         |             |   |            |                |          |             |           |           |             |            |                      |            |             |          |         |            |        |             |            |              |     |          |         |           |        |          |         |                 |     |             |            |           |        |             |            |



| Stand   | Level 4 Cover Type                      | Size Density    | Acres      | Stand Age   | BA Range | Managed Site | General Comments   |                      |             |            |    |     |  |    |          |    |                |   |             |              |            |                |  |             |           |           |                |            |             |            |           |          |                      |             |             |          |              |           |            |          |             |         |
|---|---|-----------------|------------|-------------|----------|--------------|--|----------------------|-------------|------------|----|-----|--|----|----------|----|----------------|---|-------------|--------------|------------|----------------|--|-------------|-----------|-----------|----------------|------------|-------------|------------|-----------|----------|----------------------|-------------|-------------|----------|--------------|-----------|------------|----------|-------------|---------|
| 31  | 4130 - Aspen                            | Poletimber Well | 179.5      | 37          | 51-80    | N/A          | Stand was harvested in 1982. TS #18-71. Stand contains aspen that varies in size and diameter. A few pockets of big tooth aspen exist within the stand as well. I noticed in some areas there are some dead aspen but overall I did not notice it throughout the stand. A heavy component of sapling sized maple exists within the understory. The balsam fir understory varies from either non-existent to fairly dense. Hold this stand for 10 years to allow the diameter to increase and make more of the timber merchantable. This stand would be a good candidate to require chipping. |                      |             |            |    |     |  |    |          |    |                |   |             |              |            |                |  |             |           |           |                |            |             |            |           |          |                      |             |             |          |              |           |            |          |             |         |
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| Canopy Species  | % Cover                                 | Size Class      | DBH        | Age         |          |              |  |                      |             |            |    |     |  |    |          |    |                |   |             |              |            |                |  |             |           |           |                |            |             |            |           |          |                      |             |             |          |              |           |            |          |             |         |
| Quaking Aspen   | 75                                      | Pole            | 7          | 37          |          |              |  |                      |             |            |    |     |  |    |          |    |                |   |             |              |            |                |  |             |           |           |                |            |             |            |           |          |                      |             |             |          |              |           |            |          |             |         |
| Bigtooth Aspen  | 10                                      | Pole            | 7          |             |          |              |  |                      |             |            |    |     |  |    |          |    |                |   |             |              |            |                |  |             |           |           |                |            |             |            |           |          |                      |             |             |          |              |           |            |          |             |         |
| Red Maple   | 10                                      | Pole/Sapling    | 5          |             |          |              |  |                      |             |            |    |     |  |    |          |    |                |   |             |              |            |                |  |             |           |           |                |            |             |            |           |          |                      |             |             |          |              |           |            |          |             |         |
| Canopy Species  | Density                                 | Avg. Height     | Size       |             |          |              |  |                      |             |            |    |     |  |    |          |    |                |   |             |              |            |                |  |             |           |           |                |            |             |            |           |          |                      |             |             |          |              |           |            |          |             |         |
| Red Maple   | Full                                    | >20 feet        | Sapling    |             |          |              |  |                      |             |            |    |     |  |    |          |    |                |   |             |              |            |                |  |             |           |           |                |            |             |            |           |          |                      |             |             |          |              |           |            |          |             |         |
| Sugar Maple   | High                                    | 10 - 20 feet    | Sapling    |             |          |              |  |                      |             |            |    |     |  |    |          |    |                |   |             |              |            |                |  |             |           |           |                |            |             |            |           |          |                      |             |             |          |              |           |            |          |             |         |
| Balsam Fir  | Medium                                  | 5 - 10 feet     | Sapling    |             |          |              |  |                      |             |            |    |     |  |    |          |    |                |   |             |              |            |                |  |             |           |           |                |            |             |            |           |          |                      |             |             |          |              |           |            |          |             |         |
| 32  | 6220 - Alder/willow                     | Nonstocked      | 44.9       |             |          | No           | Stand formerly had pockets of cedar mixed throughout. Due to high water these cedar pockets have flooded out.  |                      |             |            |    |     |  |    |          |    |                |   |             |              |            |                |  |             |           |           |                |            |             |            |           |          |                      |             |             |          |              |           |            |          |             |         |
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| Canopy Species  | Density                                 | Avg. Height     | Size       |             |          |              |  |                      |             |            |    |     |  |    |          |    |                |   |             |              |            |                |  |             |           |           |                |            |             |            |           |          |                      |             |             |          |              |           |            |          |             |         |
| Tag Alder   | High                                    | 5 - 10 feet     | Tall Shrub |             |          |              |  |                      |             |            |    |     |  |    |          |    |                |   |             |              |            |                |  |             |           |           |                |            |             |            |           |          |                      |             |             |          |              |           |            |          |             |         |
| 33  | 6120 - Lowland Cedar                    | Sawtimber Well  | 17.3       | 100         | 81-110   | N/A          | Stand consists of old cedar. The north east edge of the stand is starting due die out due to a high water table. Wet ground exists throughout the stand. The understory consists of a mix of balsam, black ash, and tag alder.   |                      |             |            |    |     |  |    |          |    |                |   |             |              |            |                |  |             |           |           |                |            |             |            |           |          |                      |             |             |          |              |           |            |          |             |         |
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| Canopy Species  | % Cover                                 | Size Class      | DBH        | Age         |          |              |  |                      |             |            |    |     |  |    |          |    |                |   |             |              |            |                |  |             |           |           |                |            |             |            |           |          |                      |             |             |          |              |           |            |          |             |         |
| Northern White Cedar  | 100                                     | Log             | 16         | 100         |          |              |  |                      |             |            |    |     |  |    |          |    |                |   |             |              |            |                |  |             |           |           |                |            |             |            |           |          |                      |             |             |          |              |           |            |          |             |         |
| Canopy Species  | Density                                 | Avg. Height     | Size       |             |          |              |  |                      |             |            |    |     |  |    |          |    |                |   |             |              |            |                |  |             |           |           |                |            |             |            |           |          |                      |             |             |          |              |           |            |          |             |         |
| Balsam Fir  | Medium                                  | Variable        | Sapling    |             |          |              |  |                      |             |            |    |     |  |    |          |    |                |   |             |              |            |                |  |             |           |           |                |            |             |            |           |          |                      |             |             |          |              |           |            |          |             |         |
| Tag Alder   | Medium                                  | 5 - 10 feet     | Tall Shrub |             |          |              |  |                      |             |            |    |     |  |    |          |    |                |   |             |              |            |                |  |             |           |           |                |            |             |            |           |          |                      |             |             |          |              |           |            |          |             |         |
| Black Ash   | Medium                                  | Variable        | Sapling    |             |          |              |  |                      |             |            |    |     |  |    |          |    |                |   |             |              |            |                |  |             |           |           |                |            |             |            |           |          |                      |             |             |          |              |           |            |          |             |         |
| Northern White Cedar  | Medium                                  | Variable        | Sapling    |             |          |              |  |                      |             |            |    |     |  |    |          |    |                |   |             |              |            |                |  |             |           |           |                |            |             |            |           |          |                      |             |             |          |              |           |            |          |             |         |
| 35  | 6220 - Alder/willow                     | Nonstocked      | 33.7       | 0           |          | No           | Stand of dense tag alder. In previous inventory cycles there was a delineated stand of cedar within the middle of this stand. I hiked into it and found that it has flooded out. 95% of the cedar is dead standing. The remaining 5% are nearly dead.  |                      |             |            |    |     |  |    |          |    |                |   |             |              |            |                |  |             |           |           |                |            |             |            |           |          |                      |             |             |          |              |           |            |          |             |         |
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| Canopy Species  | Density                                 | Avg. Height     | Size       |             |          |              |  |                      |             |            |    |     |  |    |          |    |                |   |             |              |            |                |  |             |           |           |                |            |             |            |           |          |                      |             |             |          |              |           |            |          |             |         |
| Tag Alder   | Full                                    | 5 - 10 feet     | Tall Shrub |             |          |              |  |                      |             |            |    |     |  |    |          |    |                |   |             |              |            |                |  |             |           |           |                |            |             |            |           |          |                      |             |             |          |              |           |            |          |             |         |
| 36  | 6233 - Wet Meadow                       | Nonstocked      | 10.2       |             |          | No           | A flooded area created by beaver activity. With the high amount of snow it is hard to discern what type of vegetation exists. I am guessing it is a wet meadow type with heavy grass.  |                      |             |            |    |     |  |    |          |    |                |   |             |              |            |                |  |             |           |           |                |            |             |            |           |          |                      |             |             |          |              |           |            |          |             |         |
| 37  | 4112 - Maple, Beech, Cherry Association | Sawtimber Well  | 46.2       | 70          | 81-110   | N/A          | Stand was selectively managed in 2003\2004: TS#102-01-01. Stand consists of a mix of red maple and sugar maple. The understory consists of fir, ironwood, and red maple. Some areas are heavy to fir, some areas heavy to ironwood, it all depends on where you stand. Residual basal area ranges between 90 to 100 square feet. I do notice some top dieback in certain areas of the stand.   |                      |             |            |    |     |  |    |          |    |                |   |             |              |            |                |  |             |           |           |                |            |             |            |           |          |                      |             |             |          |              |           |            |          |             |         |
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| Canopy Species  | % Cover                                 | Size Class      | DBH        | Age         |          |              |  |                      |             |            |    |     |  |    |          |    |                |   |             |              |            |                |  |             |           |           |                |            |             |            |           |          |                      |             |             |          |              |           |            |          |             |         |
| Red Maple   | 70                                      | Log/Pole        | 11         | 70          |          |              |  |                      |             |            |    |     |  |    |          |    |                |   |             |              |            |                |  |             |           |           |                |            |             |            |           |          |                      |             |             |          |              |           |            |          |             |         |
| Sugar Maple   | 30                                      | Log/Pole        | 11         |             |          |              |  |                      |             |            |    |     |  |    |          |    |                |   |             |              |            |                |  |             |           |           |                |            |             |            |           |          |                      |             |             |          |              |           |            |          |             |         |
| Canopy Species  | Density                                 | Avg. Height     | Size       |             |          |              |  |                      |             |            |    |     |  |    |          |    |                |   |             |              |            |                |  |             |           |           |                |            |             |            |           |          |                      |             |             |          |              |           |            |          |             |         |
| Red Maple   | Medium                                  | Variable        | Sapling    |             |          |              |  |                      |             |            |    |     |  |    |          |    |                |   |             |              |            |                |  |             |           |           |                |            |             |            |           |          |                      |             |             |          |              |           |            |          |             |         |
| Balsam Fir  | Medium                                  | Variable        | Sapling    |             |          |              |  |                      |             |            |    |     |  |    |          |    |                |   |             |              |            |                |  |             |           |           |                |            |             |            |           |          |                      |             |             |          |              |           |            |          |             |         |
| 38  | 6112 - Lowland Aspen                    | Poletimber Well | 177.4      | 31          | 1-50     | N/A          | Stand was harvested in 1981. TS #18-71. Stand consists of aspen mixed with red maple. Mature red maple poles scattered throughout the stand as well. The understory consists of a mix of both red and sugar maple saplings. Scattered balsam exists within the understory as well.   |                      |             |            |    |     |  |    |          |    |                |   |             |              |            |                |  |             |           |           |                |            |             |            |           |          |                      |             |             |          |              |           |            |          |             |         |
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| Canopy Species  | % Cover                                 | Size Class      | DBH        | Age         |          |              |  |                      |             |            |    |     |  |    |          |    |                |   |             |              |            |                |  |             |           |           |                |            |             |            |           |          |                      |             |             |          |              |           |            |          |             |         |
| Quaking Aspen   | 50                                      | Pole            | 7          | 31          |          |              |  |                      |             |            |    |     |  |    |          |    |                |   |             |              |            |                |  |             |           |           |                |            |             |            |           |          |                      |             |             |          |              |           |            |          |             |         |
| Red Maple   | 50                                      | Pole            | 8          |             |          |              |  |                      |             |            |    |     |  |    |          |    |                |   |             |              |            |                |  |             |           |           |                |            |             |            |           |          |                      |             |             |          |              |           |            |          |             |         |
| Canopy Species  | Density                                 | Avg. Height     | Size       |             |          |              |  |                      |             |            |    |     |  |    |          |    |                |   |             |              |            |                |  |             |           |           |                |            |             |            |           |          |                      |             |             |          |              |           |            |          |             |         |
| Red Maple   | High                                    | Variable        | Sapling    |             |          |              |  |                      |             |            |    |     |  |    |          |    |                |   |             |              |            |                |  |             |           |           |                |            |             |            |           |          |                      |             |             |          |              |           |            |          |             |         |
| Balsam Fir  | Low                                     | Variable        | Sapling    |             |          |              |  |                      |             |            |    |     |  |    |          |    |                |   |             |              |            |                |  |             |           |           |                |            |             |            |           |          |                      |             |             |          |              |           |            |          |             |         |
| Paper Birch   | Low                                     | Variable        | Sapling    |             |          |              |  |                      |             |            |    |     |  |    |          |    |                |   |             |              |            |                |  |             |           |           |                |            |             |            |           |          |                      |             |             |          |              |           |            |          |             |         |
| Green Ash   | Medium                                  | Variable        | Sapling    |             |          |              |  |                      |             |            |    |     |  |    |          |    |                |   |             |              |            |                |  |             |           |           |                |            |             |            |           |          |                      |             |             |          |              |           |            |          |             |         |



| Stand                 | Level 4 Cover Type              | Size Density     | Acres             | Stand Age  | BA Range   | Managed Site          | General Comments   |                |                    |             |
|-----------------------|---------------------------------|------------------|-------------------|------------|------------|-----------------------|--|----------------|--------------------|-------------|
| <b>39</b>             | 4130 - Aspen                    | Poletimber Well  | 25.6              | 37         | 51-80      | N/A                   | Stand was harvested in 1982. TS #18-71.COMPLETED IN '82. Stand consists of fully stocked aspen mixed with red maple. Stand health looks good. The understory consists of fir and red maple. Stand contains wet pockets but it's hard to tell how much given the amount of snow.            |                |                    |             |
| <b>Canopy Species</b> |                                 | <b>% Cover</b>   | <b>Size Class</b> | <b>DBH</b> | <b>Age</b> | <b>Canopy Species</b> |  | <b>Density</b> | <b>Avg. Height</b> | <b>Size</b> |
| Quaking Aspen         |                                 | 80               | Pole              | 7          | 37         | Balsam Fir            |  | Medium         | Variable           | Sapling     |
| Red Maple             |                                 | 20               | Pole/Sapling      | 6          |            | Red Maple             |  | Full           | 10 - 20 feet       | Sapling     |
| <b>40</b>             | 4119 - Mixed Northern Hardwoods | Sawtimber Well   | 43.6              | 80         | 51-80      | N/A                   | Stand was selectively thinned in 2003 - 2004: TS# 102-01-01. Stand currently consists of poorer quality red maple mixed with some green ash, yellow birch, and hemlock. Sapling sized maple regeneration exists throughout the stand.  |                |                    |             |
| <b>Canopy Species</b> |                                 | <b>% Cover</b>   | <b>Size Class</b> | <b>DBH</b> | <b>Age</b> | <b>Canopy Species</b> |  | <b>Density</b> | <b>Avg. Height</b> | <b>Size</b> |
| Sugar Maple           |                                 | 10               | Log/Pole          | 12         |            | Red Maple             |  | Full           | 10 - 20 feet       | Sapling     |
| Red Maple             |                                 | 65               | Log/Pole          | 12         | 80         | Balsam Fir            |  | Low            | 10 - 20 feet       | Sapling     |
| Green Ash             |                                 | 15               | Log               | 14         |            | Sugar Maple           |  | High           | 10 - 20 feet       | Sapling     |
|                       |                                 |                  |                   |            |            | Striped Maple         |  | Low            | 10 - 20 feet       | Sapling     |
|                       |                                 |                  |                   |            |            | Yellow Birch          | Low  | 5 - 10 feet    | Sapling            |             |
| <b>41</b>             | 4134 - Aspen, Spruce/Fir        | Sapling Well     | 33.8              | 15         | Immature   | N/A                   | Stand of younger aspen and red maple stump sprouts. Balsam scattered throughout the stand. Stand is healthy and fully stocked. The west side of the stand contains more red maple stump sprouts and balsam fir. A pocket of mature pole sized maple exists within the center of the stand. |                |                    |             |
| <b>Canopy Species</b> |                                 | <b>% Cover</b>   | <b>Size Class</b> | <b>DBH</b> | <b>Age</b> | <b>Canopy Species</b> |  | <b>Density</b> | <b>Avg. Height</b> | <b>Size</b> |
| Quaking Aspen         |                                 | 40               | Sapling/Pole      | 4          | 15         | Balsam Fir            |  | Medium         | 5 - 10 feet        | Sapling     |
| Red Maple             |                                 | 35               | Sapling           | 3          |            | Red Maple             |  | High           | 5 - 10 feet        | Sapling     |
| Balsam Fir            |                                 | 20               | Sapling/Pole      | 3          |            |                       |  |                |                    |             |
| <b>42</b>             | 6113 - Lowland Maple            | Poletimber Well  | 14.2              | 65         | 81-110     | N/A                   | Stand consists of poorer quality red maple mixed with scattered large diameter hemlock.  |                |                    |             |
| <b>Canopy Species</b> |                                 | <b>% Cover</b>   | <b>Size Class</b> | <b>DBH</b> | <b>Age</b> | <b>Canopy Species</b> |  | <b>Density</b> | <b>Avg. Height</b> | <b>Size</b> |
| Red Maple             |                                 | 90               | Pole/Log          | 8          | 65         | Balsam Fir            |  | Low            | Variable           | Sapling     |
| Hemlock               |                                 | 10               | Log/XLog          | 17         |            | Hemlock               | Low  | Variable       | Sapling            |             |
| <b>43</b>             | 4119 - Mixed Northern Hardwoods | Sawtimber Medium | 12.1              | 70         | 51-80      | N/A                   | Small stand of hardwood that was cut hard many years ago. What remains are patches of mature timber with pockets of regeneration throughout. The basal area varies depending on where you stand. Do not harvest due to low basal area and heavy regeneration within the understory.        |                |                    |             |
| <b>Canopy Species</b> |                                 | <b>% Cover</b>   | <b>Size Class</b> | <b>DBH</b> | <b>Age</b> | <b>Canopy Species</b> |  | <b>Density</b> | <b>Avg. Height</b> | <b>Size</b> |
| Sugar Maple           |                                 | 49               | Log/Pole          | 10         | 70         | Balsam Fir            |  | Medium         | Variable           | Sapling     |
| Red Maple             |                                 | 25               | Log/Pole          | 10         |            | Red Maple             |  | High           | Variable           | Sapling     |
| Yellow Birch          |                                 | 18               | Log               | 12         |            | Striped Maple         |  | Medium         | Variable           | Sapling     |
|                       |                                 |                  |                   |            |            | Hazelnut (Beaked)     | Medium   | 5 - 10 feet    | Tall Shrub         |             |