



# Compartment Review Presentation

## Pigeon River Country Forest Management Unit

Compartment 53043

Entry Year 2018

Acreage: 1,929

County Otsego

Management Area: Pigeon River Country

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**Revision Date:** 2016-07-12

**Stand Examiner:** Greg Rekowski

**Legal Description:**

T32N R01W Sections 34, 35, and 36

**Identified Planning Goals:**

Maintain the current species mix and apply appropriate management techniques to mature stands of timber that are in need of treatment.

**Soil and topography:**

Topography in this compartment is mostly rolling uplands with a mix of aspen, pine, hardwood, and oak cover types. The west part of Section 34 is part of a large lowland coniferous swamp.

Upland soils in this compartment vary with some of the major types being Blue Lakes loamy sands, Menominee-Bamfield sand complex, and Lindquist sand. A variety of other sand types are present. Lowland soils are primarily the Tawas-Lupton and Ausable-Bowstring mucks.

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

This compartment is a solid block of state land.

**Unique Natural Features:**

There have been documented occurrences of red-shouldered hawk and bald eagle in this compartment.

**Archeological, Historical, and Cultural Features:**

A firetower that once stood in Section 36 was removed several years ago.

**Special Management Designations or Considerations:**

The Tin Shanty Dedicated Habitat Area (DHA) extends into this compartment and encompasses stands 27, 30, 31, and 32.

**Watershed and Fisheries Considerations:**

The Black River winds through the compartment and is widely recognized for its brook trout fishery. Access to the river is available off of Chandler Dam Road near the northeast corner of Section 35, and then further south through the newly acquired Craft property.

**Wildlife Habitat Considerations:**

A Wildlife Division representative will be available to participate at the Open House and in the formal Compartment Review.

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

Surface sediments consist of glacial outwash sand and gravel and postglacial alluvium and coarse-textured glacial till. The glacial drift thickness varies between 400 and 800 feet. Beneath the glacial drift is the Devonian Antrim Shale that is quarried for cement products elsewhere in the State. An inactive gravel pit is located in Section 25 and potential is good on the upland areas. However, page 30 of the Concept of Management for the PRC says that extraction of surface minerals will rarely be allowed. This area was previously leased for Niagaran oil and gas development and several wells were drilled, all dry holes. Producing wells are located just to the southwest and additional Niagaran reefs may be located in the compartment. The Antrim Shale is present and also has potential. The closest Antrim production is three miles to the southwest. However, the entire compartment is in the Consent Order area and, as provided on page 33 of the Concept of Management, no new leases will be issued in this Area.

**Vehicle Access:**

There is good access to this compartment. Roads designated as closed to wheeled motorized traffic are still closed.

**Survey Needs:**

None needed.

**Recreational Facilities and Opportunities:**

The High Country Pathway passes through Section 36. There is also a spur from the pathway that travels east to Town Corner Lake campground. The North spur of the Shore to Shore Horse Trail follows Sawdust Pile Trail through Section 35.

**Fire Protection:**

Access is good in case of any fire suppression efforts, though the area is generally at low risk for any wildfire potential.

**Additional Compartment Information:**

Deer and elk browse continues to have a significant impact on successful regeneration of aspen and hardwood tree species throughout this compartment. This has resulted in several stands with stocking way below what is desired for sustainable forestry. In some instances, browsing has converted stands into grassy openings dominated by grass and non-native sedge species.

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

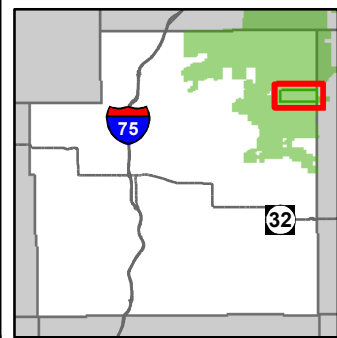
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

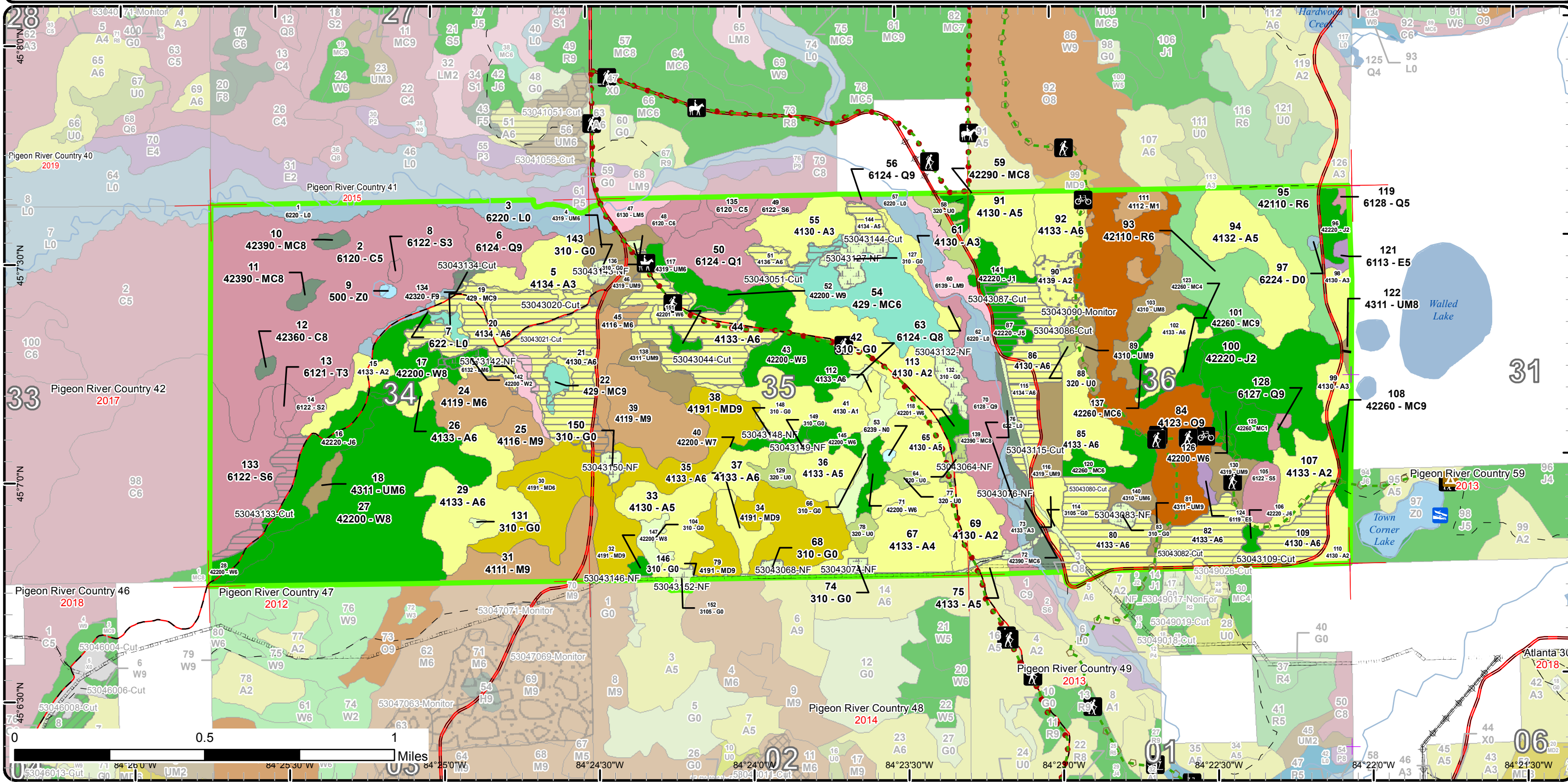
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

# Cover Type & Treatments Map

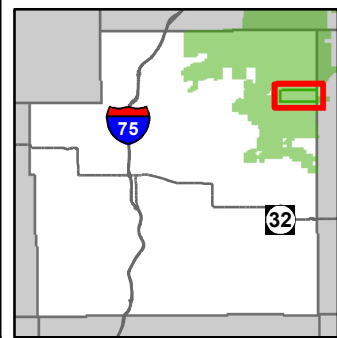
Compartment: 43  
 T32N, R01W, Sec: 34, 35, 36  
 County: Otsego  
 Unit: Pigeon River Country  
 Mgmt Area: Pigeon River Country  
 YOE: 2018  
 Acres: 1929.2 GIS Calculated  
 Examiner: Greg Rekowski  
 Map Revised: 2/7/2017  
 Map Phase: Post-Review



- Miris Corners
- + Remonumented Section Corners
- Boating Access Site
- Campground
- Bike Trails
- Hiking Trails
- Horse Trails
- Ski Trails
- - - Designated Hiking Trails
- - - Designated Bicycle Trails
- Designated Equestrian Trails
- - - Designated Ski Trails
- Designated Snowshoe Trails
- Paved Roads
- County Gravel Roads
- County Poor Dirt Roads
- Poor Dirt Roads
- Rivers
- Pipeline
- Powerline
- Compartment Boundary
- Clearcut (w/Reserves)
- Other Treatment - See Comments
- Opening Maintenance
- Regeneration Survey
- 411 - Northern Hardwood
- 412 - Oak Types
- 413 - Aspen
- 419 - Mixed Upland Deciduous
- 421 - Planted Pines
- 422 - Natural Pines
- 423 - Other Upland Conifers
- 429 - Mixed Upland Conifers
- 430 - Upland Mixed Forest
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 613 - Lowland Mixed Forest
- 310 - Herbaceous Openland
- 320 - Upland Shrub
- 500 - Water
- 622 - Lowland Shrub
- 623 - Emergent Wetland
- Lakes

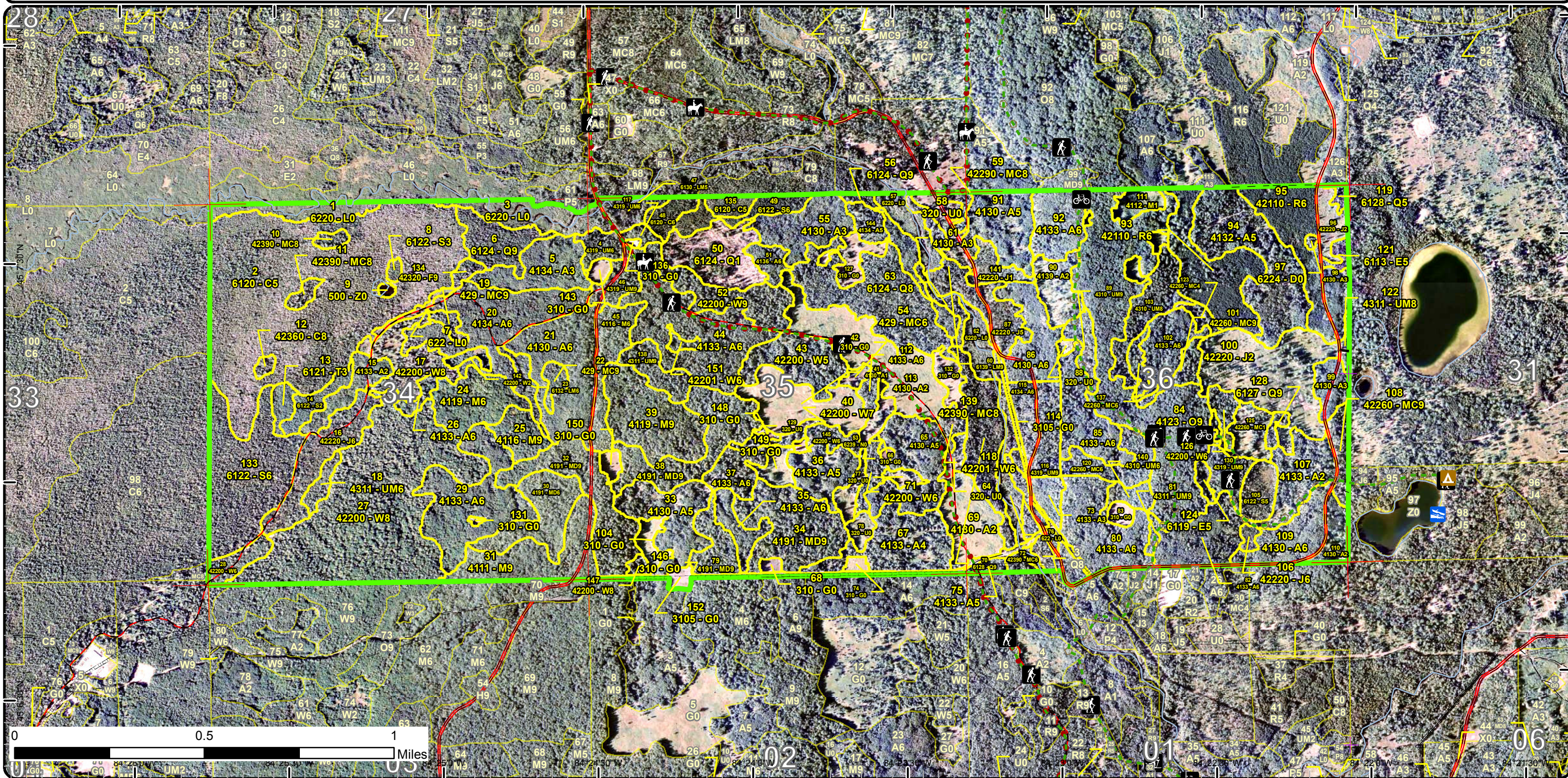


# Stand Boundary Map



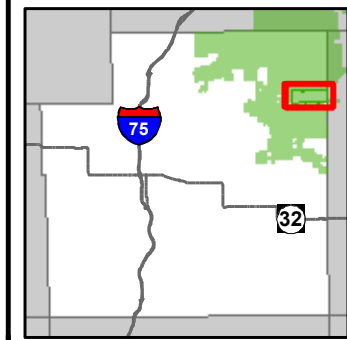
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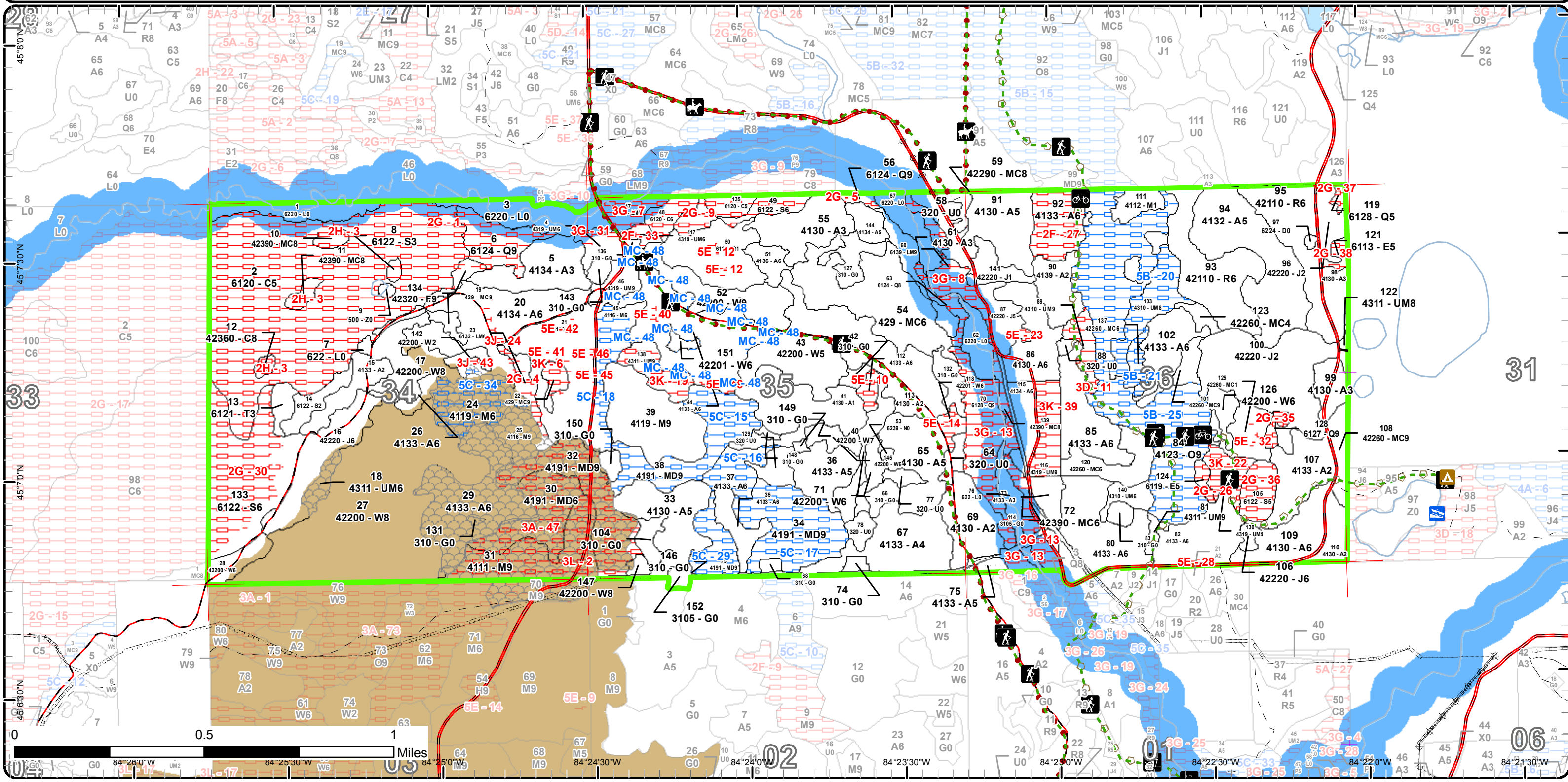


# Special Conservation Areas & Site Conditions Map

Compartment: 43  
 T32N, R01W, Sec: 34, 35, 36  
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 Unit: Pigeon River Country  
 Mgmt Area: Pigeon River Country  
 YOE: 2018  
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 Examiner: Greg Rekowski  
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- 🏠 Designated Snowshoe Trails
- Paved Roads
- County Gravel Roads
- County Poor Dirt Roads
- - Poor Dirt Roads
- Rivers
- Pipeline
- ⚡ Powerline
- ▭ Compartment Boundary
- ▭ Available w/ Constraints
- ▭ Unavailable
- 5B: Maintain for regeneration purposes
- 5C: Delay treatment for age/size class diversity or exceptional site quality
- 2F: Too steep
- 2G: Too wet (sensitive soils, does not include access issues)
- 2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)
- 3A: Potential old growth / biodiversity
- 3D: Recreational / Scenic values
- 3G: Other Influence zones - See comments
- 3J: Water quality / BMPs (stream, river, or lake)
- 3K: Rare or unique landforms
- 3L: Other wildlife concerns
- 5E: Long-Term Retention
- ▭ Stand Boundaries
- ▭ Forest Habitat Core Interior
- Cold Water Streams
- Cold Water Lakes
- High Priority Trout Stream Buffer



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	86	29	159	170	30	157	0	0	18	0	0	0	0	0	0	0	0	647
Cedar	0	0	0	0	0	0	0	0	0	0	167	0	0	0	0	0	0	0	167
Herbaceous Openland	53	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	53
Jack Pine	0	50	0	7	22	0	9	0	0	0	0	0	0	0	0	0	0	0	88
Lowland Conifers	0	21	0	0	0	0	0	14	0	6	26	2	0	0	0	0	0	0	69
Lowland Deciduous	0	0	0	0	0	0	0	5	0	0	0	0	0	0	0	0	0	0	4
Lowland Mixed Forest	0	0	0	0	0	0	6	0	11	0	5	0	0	0	0	0	0	0	22
Lowland Shrub	52	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	52
Lowland Spruce/Fir	0	0	0	7	0	1	0	0	53	0	9	0	0	0	0	0	0	0	69
Marsh	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Mixed Upland Deciduous	0	0	0	0	0	0	0	0	10	76	0	27	0	0	0	0	0	0	113
Natural Mixed Pines	0	10	0	0	15	4	0	0	0	10	5	0	0	0	0	0	0	0	44
Northern Hardwood	0	9	0	0	0	0	0	0	9	41	0	48	0	0	0	0	0	0	106
Oak	0	0	0	0	0	0	0	0	0	82	0	0	0	0	0	0	0	0	82
Red Pine	0	0	0	52	0	0	0	0	0	0	0	0	0	0	0	0	0	0	52
Tamarack	0	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
Treed Bog	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Upland Conifers	0	0	0	0	0	0	40	0	0	0	6	2	3	0	0	0	0	11	62
Upland Mixed Forest	0	0	0	0	4	5	3	0	6	10	30	11	0	0	0	0	0	11	79
Upland Shrub	22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	22
Upland Spruce/Fir	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	2
Water	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
White Pine	0	0	0	22	7	11	8	0	6	0	138	0	0	0	0	0	0	0	191
<b>Total</b>	<b>130</b>	<b>176</b>	<b>29</b>	<b>251</b>	<b>218</b>	<b>51</b>	<b>223</b>	<b>19</b>	<b>95</b>	<b>245</b>	<b>386</b>	<b>90</b>	<b>3</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>22</b>	<b>1931</b>



## Report 2 – Treatment Summary

### Acres of Harvest

Commercial Harvest - 226  
 Harvests with Site Condition - 0  
 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	168	0	0	0	0	0	0	0	0	168
Jack Pine	7	0	0	0	0	0	0	0	0	7
Lowland Spruce/Fir	11	0	0	0	0	0	0	0	0	11
Upland Mixed Forest	39	0	0	0	0	0	0	0	0	39
Upland Spruce/Fir	2	0	0	0	0	0	0	0	0	2
<b>Total</b>	<b>226</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>226</b>

### Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	226	0	0	0	0	11	0	39		277
Next Step	0	0	0	0	0	226	0	0		226
<b>Total</b>	<b>226</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>238</b>	<b>0</b>	<b>39</b>		<b>503</b>



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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
20 53043020-Cut	32.1	4134 - Aspen, Spruce/Fir	Poletimber Well	55	111-140	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	Field Boundary

**Habitat Cut: No**

**Site Condition:**

Prescription Clearcut with reserves. Use retention to protect the wet drainages and one of the pure pine pockets. No cut oak, hemlock, cedar, birch, or elm.

Specs: Mark to leave some of the larger pine, focus on the large XL trees. Mark to leave some scattered cull aspen as future snags and coarse woody debris (target 1-3 acre). Protect any red oak saplings, a few of which are along Lost Cabin Road.

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Regen: At least a medium-stocked stand dominated by aspen and fir with any additional mix of species being acceptable.

Other Comment: No harvest or chipping restrictions because this stand is dominated by quaking aspen which isn't affected as much by browse.

Proposed Start Date: 02/04/2016

21 53043021-Cut	32.8	4130 - Aspen	Poletimber Well	55	111-140	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	Field Boundary
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**Habitat Cut: No**

**Site Condition:**

Prescription Clearcut with reserves. Leave a retention pocket along Tin Shanty Road in the area where there are larger hardwoods. Utilize additional retention

Specs: around any of the larger hemlock pockets. Mark to leave 1-3 cull aspen or maple per acre to serve as future snags and coarse woody debris. Do not cut any pine, oak, basswood, birch, hemlock, or elm.

Next Step Monitoring, Natural Regen (Intermediate)

Treatments:

Acceptable Regen: A well-stocked stand dominated by aspen with any additional mix of species being acceptable.

Other Comment: Winter harvest with no chipping. Ensure residual slash is scattered evenly and not piled. Recent harvesting in the surrounding area has shown that bigtooth aspen struggles to regenerate due to elk browse.

Proposed Start Date: 02/04/2016

46 53043044-Cut	39.3	4319 - Mixed Upland Forest	Sawtimber Well	90	81-110	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	Field Boundary
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**Habitat Cut: No**

**Site Condition:**

Prescription Clearcut all species except oak, red pine, basswood, paper birch, and hemlock. Mark to leave 3-5 of the largest white pine per acre. Mark to

Specs: leave 1-3 large, cull aspen per acre to serve as coarse woody debris and snags. Utilize retention to protect areas of pure white pine poletimber or pockets of large pine.

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Regen: A well-stocked stand dominated by aspen with any additional mix of species being acceptable. Expect white pine, red maple, and fir to be the most common associates of aspen in the regeneration.

Other Comment: No chipping or seasonal restrictions required.

Goshawks were sited in this stand. Keep an eye out for nests and apply the appropriate spec's if one or more is found.

Proposed Start Date: 02/04/2016

51 53043051-Cut	7.3	4136 - Aspen, Mixed Conifer	Poletimber Well	57	111-140	Harvest	Clearcut	4136 - Aspen, Mixed Conifer	Even-Aged	Field Boundary
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**Habitat Cut: No**

**Site Condition:**

Prescription Clearcut with no area retention due to the small acreage of the stand. Cut all species except for white pine or birch, and if present any cedar,

Specs: hemlock, or oak. Mark to leave 1 poor-quality aspen per acre to serve as blowdown and coarse woody debris. Mark two clumps of 3-5 large spruce trees in the stand.

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Regen: A well-stocked stand dominated by aspen with any additional mix of species being acceptable.

Other Comment: There may be some wet soil in this stand so a winter or dry summer cut spec may need to be added.

Proposed Start Date: 02/04/2016





S t a n d	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
64	53043064-NF	3.3	320 - Upland Shrub	Nonstocked		Unspec ified	NonForestMgt	Other - Specify	310 - Herbaceous Openland		Draft Field Boundary

**Habitat Cut: No**

**Site Condition:**

Prescription Mow, plant, brush, burn, or herbicide to maintain opening. Plant hard and/or soft mast.

Specs:

Next Step

Treatments:

Acceptable

Regen:

Other

Comment:

Proposed Start Date: 10/01/2017

68	53043068-NF	1.3	310 - Herbaceous Openland	Nonstocked		Unspec ified	NonForestMgt	Other - Specify	310 - Herbaceous Openland		Draft Field Boundary
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**Habitat Cut: No**

**Site Condition:**

Prescription Mow, plant, brush, burn, or herbicide to maintain opening. Plant hard or soft mast.

Specs:

Next Step

Treatments:

Acceptable

Regen:

Other

Comment:

Proposed Start Date: 10/01/2017

74	53043074-NF	1.5	310 - Herbaceous Openland	Nonstocked		Unspec ified	NonForestMgt	Other - Specify	310 - Herbaceous Openland		Draft Field Boundary
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**Habitat Cut: No**

**Site Condition:**

Prescription Mow, plant, brush, burn, or herbicide to maintain opening. Plant hard or soft mast.

Specs:

Next Step

Treatments:

Acceptable

Regen:

Other

Comment:

Proposed Start Date: 10/01/2017

76	53043076-NF	2.2	622 - Lowland Shrub	Nonstocked		Unspec ified	NonForestMgt	Brush Cutting	622 - Lowland Shrub		Draft Field Boundary
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**Habitat Cut: No**

**Site Condition:**

Prescription Shear all tag alder and young balsam poplar regrowth. Leave all larger trees standing. Treat with herbicides any reed canary grass or phragmites

Specs: along the river corridor after shearing is complete.

Next Step

Treatments:

Acceptable

Regen:

Other

Comment:

Proposed Start Date: 10/01/2017



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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
80 53043080-Cut	29.5	4133 - Aspen, Mixed Pine	Poletimber Well	45	111-140	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	Draft Field Boundary

**Habitat Cut: No**

**Site Condition:**

Prescription Harvest all species except for any red pine, oak, or paper birch. Leave all white pine and spruce greater than 16" DBH.

Specs:

Utilize 3-10% of the area in retention pockets to protect a few of the pure white pine pockets and for visuals at the bend in Chandler Dam Road at the SW corner of the stand. Also, mark to leave some aspen clumps adjacent to the larger pine being left (target 1 clump per acre).

Next Step Monitoring, Natural Regen (Intermediate)

Treatments:

Acceptable Regen: At least a medium stocked stand of aspen with any additional mix of species being acceptable. White pine, red maple, and jack pine would be most expected to fill in the remaining regeneration.

Other - Utilize the adjacent G type as the landing.

Comment: - Due to the amount of bigtooth aspen, may want to restrict this to winter only harvest to alleviate some of the browsing.  
- Add drumming log spec.

Proposed Start Date: 10/01/2017

82 53043082-Cut	19.0	4133 - Aspen, Mixed Pine	Poletimber Well	37	81-110	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	Draft Field Boundary
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**Habitat Cut: No**

**Site Condition:**

Prescription Cut all species except for any incidental oak or birch. Mark to leave 3-5 red and white pine per acre, focus on leaving the largest trees. Mark to

Specs: leave some aspen along with the pine to make "clumps." Protect any pockets of red pine poletimber and saplings, as well as any oak saplings. Utilize 3-10% area retention, mostly near the road for visual purposes.

Next Step Monitoring, Natural Regen (Intermediate)

Treatments:

Acceptable Regen: At least a medium-stocked stand dominated by aspen with any additional mix of species being acceptable.

Other

Browsing on the bigtooth aspen will be an issue so harvest during the dormant period.

Comment:

Add drumming log spec.

Proposed Start Date: 10/01/2017

83 53043083-NF	2.4	310 - Herbaceous Openland	Nonstocked	Unspec ified	NonForestMgt	Other - Specify	310 - Herbaceous Openland			Draft Field Boundary
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**Habitat Cut: No**

**Site Condition:**

Prescription Mow, plant, brush, burn, or herbicide to maintain opening. Plant hard and/or soft mast.

Specs:

Next Step

Treatments:

Acceptable Regen:

Other

Comment:

Proposed Start Date: 10/01/2017

86 53043086-Cut	17.7	4130 - Aspen	Poletimber Well	51	111-140	Harvest	Clearcut	413 - Aspen	Even-Aged	Draft Field Boundary
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**Habitat Cut: No**

**Site Condition:**

Prescription Clearcut all species except for oak or red pine. Mark to leave some of the largest white pine and spruce (1-3/acre) which are concentrated mostly

Specs: in the portion west of Chandler Dam Road. These trees will help with aesthetics as well. Mark to leave scattered large aspen with significant amounts of decay (target 1/acre) to serve as future snags and coarse woody debris.

Next Step Monitoring, Natural Regen (Intermediate)

Treatments:

Acceptable Regen: At least a medium stocked stand dominated by aspen. Any additional mix of species is acceptable in the remaining regeneration.

Other

Browsing will be an issue here because of the bigtooth aspen. Limit harvesting to the dormant period but also during snow-free months b/c of the adjacent jack pine stand; September to December.

Comment:

Proposed Start Date: 10/01/2017



Standard

ID	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
87	53043087-Cut	7.4	42220 - Natural Jack Pine	Poletimber Medium	51	51-80	Harvest	Clearcut with Retention	4222 - Natural Jack Pine	Even-Aged	Draft Field Boundary

**Habitat Cut: No**

**Site Condition:**

Prescription Clearcut all species except for any incidental red pine or oak. Also leave any supercanopy white pine over 18" DBH. Retention has already been excluded and is the bubble on the southeast side which is a small pocket of mostly red and white pine.

Next Step Monitoring, Natural Regen (Intermediate)  
Treatments:

Acceptable At least a medium stocked stand of jack pine with any additional mix of species being acceptable.  
Regen:

Other Whole-tree harvest in snow-free conditions to promote natural seeding of jack pine.  
Comment:

Proposed Start Date: 10/01/2017

90	53043090-Monitor	11.4	4139 - Aspen, Mixed Deciduous	Sapling Medium	6	1-50	Monitoring	Natural Regen (Re-Inventory)	413 - Aspen	Even-Aged	Draft Field Boundary
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**Habitat Cut: No**

**Site Condition:**

Prescription Use regen survey protocols to monitor regen success. Stand passed at time of inventory in 2016 but elk browsing was ongoing and likely to have significant impacts.

Next Step  
Treatments:

Acceptable Aspen that meets stocking guidelines.  
Regen:

Other  
Comment:

Proposed Start Date: 10/01/2025

109	53043109-Cut	16.7	4130 - Aspen	Poletimber Well	37	81-110	Harvest	Clearcut	413 - Aspen	Even-Aged	Draft Field Boundary
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**Habitat Cut: No**

**Site Condition:**

Prescription Clearcut all species except for any red or white pine or oak. Do not leave any area retention but mark to leave clumps of aspen trees concentrated around the residual pine.

Next Step Monitoring, Natural Regen (Intermediate)  
Treatments:

Acceptable At least a medium-stocked stand dominated by aspen.  
Regen:

Other Add drumming log spec.  
Comment:

Proposed Start Date: 10/01/2017

115	53043115-Cut	7.6	4134 - Aspen, Spruce/Fir	Poletimber Well	58	81-110	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	Draft Field Boundary
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**Habitat Cut: No**

**Site Condition:**

Prescription Clearcut all species except for oak, red pine, and any incidental birch or cedar. Protect advanced oak regeneration and small poletimber that is scattered throughout the stand. Mark to leave some of the largest spruce and white pine as well as some cull aspen trees (overall target 1-3 per acre).

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

Acceptable A well-stocked stand dominated by aspen with any additional mix of species being acceptable, with the exception of scotch pine.  
Regen:

Other Retention will be the small sliver south of the access road. If desired, additional retention may be added along Chandler Dam Road to ease visual concerns.  
Comment:

There may be a few scattered scotch pine trees outside of the treatment boundary on the west side of the pipeline. Allow the operators to cut these trees to remove the seed source.

Proposed Start Date: 10/01/2017



S t a n d	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
127	53043127-NF	6.9	310 - Herbaceous Openland	Nonstocked		Unspec ified	NonForestMgt	Other - Specify	310 - Herbaceous Openland		Draft Field Boundary

**Habitat Cut: No**

**Site Condition:**

Prescription Mow, plant, brush, burn, or herbicide to maintain opening. Plant hard and/or soft mast.

Specs:

Next Step

Treatments:

Acceptable

Regen:

Other

Comment:

Proposed Start Date: 10/01/2017

132	53043132-NF	5.4	310 - Herbaceous Openland	Nonstocked		Unspec ified	NonForestMgt	Other - Specify	310 - Herbaceous Openland		Draft Field Boundary
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**Habitat Cut: No**

**Site Condition:**

Prescription Mow, plant, brush, burn, or herbicide to maintain opening. Plant hard and/or soft mast.

Specs:

Next Step

Treatments:

Acceptable

Regen:

Other

Comment:

Proposed Start Date: 10/01/2017

133	53043133-Cut	10.5	6122 - Black Spruce	Poletimber Well	79	51-80	Harvest	Clearcut	6122 - Black Spruce	Even-Aged	Draft Field Boundary
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**Habitat Cut: No**

**Site Condition:**

Prescription Clearcut all species except for red pine, white pine, cedar, or oak. Protect existing snags and blowdown.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable At least a medium-stocked stand dominated by black spruce with any additional mix of species being acceptable.

Regen:

Other There may be a few small pockets of young spruce and pine along the roadway that should be protected. A few oak saplings are also present along the road.

Comment:

Expect the treatment boundary to shift a little but don't extend too far west into this stand as the ground becomes very wet.

Proposed Start Date: 10/01/2017

134	53043134-Cut	1.5	42320 - Upland Spruce	Sawtimber Well	85	81-110	Harvest	Clearcut	4319 - Mixed Upland Forest	Even-Aged	Field Boundary
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**Habitat Cut: No**

**Site Condition:**

Prescription Clearcut all species except for cedar, white pine, or birch. Mark to leave 3 clumps of 3-5 spruce for seed source. May want to leave a few of the large, cull aspen as cut and leave trees for drumming logs.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable At least a medium-stocked stand with any mix of species being acceptable. Fir, spruce, aspen, red maple, and white pine would be the most likely species.

Regen:

Other Treatment size will likely be reduced due to wet ground at the N-NE part of the stand.

Comment:

Proposed Start Date: 02/04/2016



Stand	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
142	53043142-NF	2.5	42200 - Natural White Pine	Sapling Medium	22	1-50	NonForestMgt	Other - Specify	310 - Herbaceous Openland		Draft Field Boundary

**Habitat Cut: No**

**Site Condition:**

Prescription Mow, plant, brush, burn, and/or herbicide to maintain opening. Plant hard or soft mast.

Specs:

Next Step

Treatments:

Acceptable

Regen:

Other

Comment:

Proposed Start Date: 10/01/2017

143	53043143-NF	2.1	310 - Herbaceous Openland	Nonstocked		Unspecified	NonForestMgt	Other - Specify	310 - Herbaceous Openland		Draft Field Boundary
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**Habitat Cut: No**

**Site Condition:**

Prescription Mow, plant, brush, burn, or herbicide to maintain opening. Plant hard and/or soft mast.

Specs:

Next Step

Treatments:

Acceptable

Regen:

Other

Comment:

Proposed Start Date: 10/01/2017

144	53043144-Cut	5.0	4134 - Aspen, Spruce/Fir	Poletimber Medium	57	51-80	Harvest	Clearcut	4136 - Aspen, Mixed Conifer	Even-Aged	Field Boundary
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**Habitat Cut: No**

**Site Condition:**

Prescription Clearcut with no area retention due to the small size of the stand. Cut all species except if there are any rare species present such as birch, cedar, hemlock, or oak. Mark to leave a few of the poor quality aspen (target 1 per acre) as well as a couple of the larger spruce or pine.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable At least a medium stocked stand dominated by aspen with any additional mix of species being acceptable.

Regen:

Other Expand the treatment boundary north into the upland portion of stand 56 but do not go into the wet lowland.

Comment:

Proposed Start Date: 02/04/2016

146	53043146-NF	7.5	310 - Herbaceous Openland	Nonstocked		Unspecified	NonForestMgt	Other - Specify	310 - Herbaceous Openland		Draft Field Boundary
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**Habitat Cut: No**

**Site Condition:**

Prescription Mow, plant, brush, burn, or herbicide to maintain opening. Plant hard and/or soft mast.

Specs:

Next Step

Treatments:

Acceptable

Regen:

Other

Comment:

Proposed Start Date: 10/01/2017



S t a n d	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
148	53043148-NF	0.8	310 - Herbaceous Openland	Nonstocked	0	Unspec ified	NonForestMgt	Other - Specify	310 - Herbaceous Openland		Draft Field Boundary

**Habitat Cut: No**

**Site Condition:**

Prescription Mow, plant, brush, burn, or herbicide to maintain opening. Plant hard or soft mast.

Specs:

Next Step

Treatments:

Acceptable

Regen:

Other

Comment:

Proposed Start Date: 10/01/2017

149	53043149-NF	0.7	310 - Herbaceous Openland	Nonstocked	0	Unspec ified	NonForestMgt	Other - Specify	310 - Herbaceous Openland		Draft Field Boundary
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**Habitat Cut: No**

**Site Condition:**

Prescription Mow, plant, brush, burn, or herbicide to maintain opening. Plant hard or soft mast.

Specs:

Next Step

Treatments:

Acceptable

Regen:

Other

Comment:

Proposed Start Date: 10/01/2017

150	53043150-NF	2.4	310 - Herbaceous Openland	Nonstocked		Unspec ified	NonForestMgt	Other - Specify	310 - Herbaceous Openland		Draft Field Boundary
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**Habitat Cut: No**

**Site Condition:**

Prescription Mow, plant, brush, burn, or herbicide to maintain opening. Plant hard or soft mast.

Specs:

Next Step

Treatments:

Acceptable

Regen:

Other

Comment:

Proposed Start Date: 10/01/2017

152	53043152-NF	2.2	3105 - Mixed Upland Herbaceous	Nonstocked			NonForestMgt	Other - Specify	310 - Herbaceous Openland		Draft Field Boundary
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**Habitat Cut: No**

**Site Condition:**

Prescription Mow, plant, brush, burn, and/or herbicide to maintain opening. Plant hard or soft mast.

Specs:

Next Step

Treatments:

Acceptable

Regen:

Other

Comment:

Proposed Start Date: 10/01/2017

**Total Treatment  
Acreage Proposed: 279.0**

Availability for Management

Total Acres    Acres Available    Acres With Condition    Acres Not Available

Dominant Site Conditions

Acres	Available	With Condition	Not Available	Dominant Site Condition	Dominant Site Conditions												
					5B	5C	MC	2F	2G	2H	3A	3D	3G	3J	3K	3L	5E
647	608	13	26	Aspen		10	4	15	1				0	2	1		7
167	0	0	167	Cedar					166	2							
54	54	0	0	Herbaceous Openland													
87	87	0	1	Jack Pine													1
69	20	0	48	Lowland Conifers					19				28				1
5	0	0	5	Lowland Deciduous					5								
22	1	0	21	Lowland Mixed Forest					4				17				
52	52	0	0	Lowland Shrub					0				0				
70	16	0	54	Lowland Spruce/Fir					54								
1	1	0	0	Marsh													
113	1	67	46	Mixed Upland Deciduous		67					46						
44	39	4	1	Natural Mixed Pines	4												1
106	51	29	26	Northern Hardwood		29											26
82	0	82	0	Oak	82												
52	52	0	0	Red Pine													
4	4	0	0	Tamarack													
1	1	0	0	Treed Bog													
61	43	0	18	Upland Conifers						5			11		3		
78	24	15	38	Upland Mixed Forest	15			2				6	2		27		
22	22	0	0	Upland Shrub								0					
2	1	0	1	Upland Spruce/Fir					1								
1	1	0	0	Water					0								
190	187	0	3	White Pine													3
1,929	1,264	210	454	Total Forested Acres	101	105	4	17	248	6	46	6	58	2	31	26	13
	66%	11%	24%	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	Dominant Site Availability	Dominant Site Condition	Acres	Other Site Condition	Other Site Condition	Other Site Condition	Other Site Condition
1	Unavailable		2G: Too wet (sensitive soils, does not include access issues)	172	Unspecified	Unspecified	Unspecified	Unspecified
Comments:								

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Very wet, poor quality timber.							
2	<b>Unavailable</b>	<b>3L: Other wildlife concerns</b>	26	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Awaiting MNFI field survey. Stand is part of the Tin Shanty DHA. Stand could be thinned but wait for MNFI recommendations.							
3	<b>Unavailable</b>	<b>2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)</b>	6	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
4	<b>Unavailable</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	4	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Wet drainage.							
5	<b>Unavailable</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	2	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
6	<b>Unavailable</b>	<b>3K: Rare or unique landforms</b>	4	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Stand dominated by large hemlock.							
7	<b>Unavailable</b>	<b>3G: Other Influence zones - See comments</b>	6	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Black River flows through this stand.							



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8	<b>Unavailable</b>	<b>3G: Other Influence zones - See comments</b>	15	2G: Too wet (sensitive soils, does not include access issues)	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Influence zone of the Black River.							
9	<b>Unavailable</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	19	3G: Other Influence zones - See comments	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Wet, poor quality.							
10	<b>Unavailable</b>	<b>5E: Long-Term Retention</b>	3	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
11	<b>Unavailable</b>	<b>3D: Recreational / Scenic values</b>	6	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> High Country Pathway runs through the middle of this stand. Stand lies on a thin ridge, with portions of it being very steep.							
12	<b>Unavailable</b>	<b>5E: Long-Term Retention</b>	1	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
13	<b>Unavailable</b>	<b>3G: Other Influence zones - See comments</b>	35	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Influence zone of the Black River.							

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14	Unavailable	5E: Long-Term Retention	3	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
15	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	26	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
16	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	10	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
17	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	30	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
18	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	11	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
19	Unavailable	3K: Rare or unique landforms	9	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
Unique stand of large, old white pine with younger age classes of hardwoods and aspen. Leave unmanaged.							

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20	<b>Available</b>	<b>5B: Maintain for regeneration purposes</b>	16	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
21	<b>Available</b>	<b>5B: Maintain for regeneration purposes</b>	4	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
22	<b>Unavailable</b>	<b>3K: Rare or unique landforms</b>	8	5E: Long-Term Retention	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Unique stand of hardwoods, oak, and aspen with some dense natural pine along the north edge. Seep along the western edge appears to drain down into the bog on the eastern side. Leave this stand unmanaged.							
23	<b>Unavailable</b>	<b>5E: Long-Term Retention</b>	1	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
24	<b>Unavailable</b>	<b>3J: Water quality / BMPs (stream, river, or lake)</b>	2	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Wet drainage that has some seasonal flowage. Protect from harvesting damage.							
25	<b>Available</b>	<b>5B: Maintain for regeneration purposes</b>	82	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							

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26	<b>Unavailable</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	2	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
27	<b>Unavailable</b>	<b>2F: Too steep</b>	15	3D: Recreational / Scenic values	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Steep ridges and valleys. Old firetower location is in the NE corner. High Country Pathway runs north-south through the east side.							
28	<b>Unavailable</b>	<b>5E: Long-Term Retention</b>	1	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
29	<b>Available</b>	<b>5C: Delay treatment for age/size class diversity or exceptional site quality</b>	10	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
30	<b>Unavailable</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	35	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
31	<b>Unavailable</b>	<b>3G: Other Influence zones - See comments</b>	2	2G: Too wet (sensitive soils, does not include access issues)	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Close to the Black River. The ground is quite wet here as well and is not conducive to harvesting activities.							

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32	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
33	Unavailable	2F: Too steep	3	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
34	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	18	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
35	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	2	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
36	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	8	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
37	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	2	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							

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38	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	2	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
39	Unavailable	3K: Rare or unique landforms	11	5E: Long-Term Retention	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Unique stand that should be left unmanaged. Has never been managed before. A few seeps in the stand. Large natural pine. Browse concerns.							
40	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
41	Unavailable	5E: Long-Term Retention	0	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Small pocket of hemlock.							
42	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Mix of white pine, hemlock, and young hardwoods.							
43	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	0	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Wet seep which drains north into the opening. Small pocket of cedar as well.							
45	Unavailable	5E: Long-Term Retention	0	3G: Other Influence zones - See comments	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Small pocket of hardwoods that serves well as a visual buffer along Tin Shanty Road.							

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Compartment: 43  
Year of Entry: 2018

46	<b>Unavailable</b>	<b>5E: Long-Term Retention</b>	1	3G: Other Influence zones - See comments	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Small pocket of hardwoods that serves well as a visual buffer along Tin Shanty Road.							
47	<b>Unavailable</b>	<b>3A: Potential old growth / biodiversity</b>	46	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Stands 30 and 32 should remain unmanaged due to the large percentage of hemlock and supercanopy white pine. Both stands are part of the Tin Shanty DHA and leaving these stands unmanaged will protect core habitat species.							
48	<b>Available</b>	<b>Minor Change in Acreage</b>	4	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
49	<b>Unavailable</b>	<b>5E: Long-Term Retention</b>	1	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							



**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
	Unspecified		SCA Removal	4
<b>Comments</b> Remove this stand from the Tin Shanty DHA.				
	Unspecified		SCA Removal	9
<b>Comments</b> Remove this stand from the Tin Shanty DHA.				
	Unspecified		SCA Removal	18
<b>Comments</b> Remove this stand from the Tin Shanty DHA.				
	Unspecified		SCA Removal	35
<b>Comments</b> Remove this stand from the Tin Shanty DHA.				
	Potential Old Growth		SCA Removal	73
<b>Comments</b> This area no longer meets the criteria to be classified as a Special Conservation Area.				





### 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 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	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.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
2	6120 - Lowland Cedar	Poletimber Medium	156.3	92	51-80	A wet and very poor-quality swamp conifer stand. The only area of decent quality is in between the lake and stand 11 which is an area of mostly black spruce and extends south/southeast to stands 7 and 14. The remainder of the stand is dominated by cedar, a great deal of which is either dead or in decline. A very thick fir understory is present in these areas. The only area in which it is easy to traverse is through the spruce dominated portion. Trace of quaking aspen, red maple, and tamarack. Average ba/acre from 12 plots = 75 square feet.
4	4319 - Mixed Upland Forest	Poletimber Well	5.6	95	81-110	This stand is about half upland and half lowland. Upland surrounding the old well pad and then slopes down to wet ground as you head north. Spruce, fir, BAM mostly in the lowland. Aspen, pine, and maple mostly in the upland. Trace of red oak. Average ba/acre from 5 plots = 108 square feet. No management due to proximity to the Black River, wet ground, slopes, and travel influence.
5	4134 - Aspen, Spruce/Fir	Sapling Well	18.5	27	Immature	Stand harvested in 1990 as part of Swamp Twins Aspen sale, bought by K&R Logging. Stand regenerated well, although the diameters tend to vary a bit. Nice representation of white pine, fir, and spruce, which tend to be most numerous along the south edge as well as the SW and SE corners. Ground transitions to lowland as you move north. Trace of paper birch and red pine.
6	6124 - Lowland Spruce-Fir	Sawtimber Well	13.8	60	81-110	Some very nice white spruce along the northern half of the stand. The south half becomes wetter and declines in quality and is dominated by poor-quality cedar. There are a few nice clumps of cedar right along the southern edge though. Fir understory very heavy in spots. Trace of elm and black ash. Average ba/acre from 8 plots = 109 square feet. No management due to the wetness of the soils.
8	6122 - Black Spruce	Sapling Well	1.2	46	1-50	Cut by Wildlife in 1971. Thick regeneration with some residual cedar.
10	42390 - Mixed Non-Pine Upland Conifers	Sawtimber Medium	2.1	109	111-140	Upland stand with some very large cedar mixed in. Pockets of cedar are mostly around the perimeter of the stand. Thick fir understory. Some scattered open areas. Average ba/acre from 5 plots = 126 square feet.
11	42390 - Mixed Non-Pine Upland Conifers	Sawtimber Medium	2.6	99	81-110	Upland stand but quite a bit of low ground mixed in too. Variable stocking with some open areas. Cedar mostly around the edges. Average ba/acre from 5 plots = 104 square feet.
12	42360 - Upland Cedar	Sawtimber Medium	1.5	99	51-80	Stand a mix of upland and lowland. A few open areas. Average ba/acre from 4 plots = 75 square feet.
13	6121 - Tamarack	Sapling Well	4.0	26	Immature	Stand was clearcut as part of Free Press Pines Mix timber sale, bought and cut by Gary Haskill. Tamarack has regenerated very well and is quite thick in spots. Stand is very wet with a lot of hummocks.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
14	6122 - Black Spruce	Sapling Medium	6.5	26	Immature	Stand clearcut as part of Free Press Pines Mix timber sale, bought and cut by Gary Haskill. Stand has regenerated quite well and is still filling in with black spruce. Tamarack becomes more prevalent the further west you go in the stand. Trace of red pine, quaking aspen, balsam poplar, red maple, and paper birch.
15	4133 - Aspen, Mixed Pine	Sapling Medium	9.6	26	Immature	Stand cut as part of Free Press Pines Mix, bought and cut by Gary Haskill. Aspen regenerated ok but is not very good quality, shows a lot of signs of decay. The best aspen is the clone east of Lost Cabin Trail, this is also where the majority of the white pine saplings are. Black cherry is recruiting into the overstory and actually showing decent form up to this point. Trace of red oak and paper birch saplings.
16	42220 - Natural Jack Pine	Poletimber Well	20.4	38	51-80	Pretty nice natural jack pine stand, although quite a few of them have broken off tops and are dead. Some scattered larger jack pine here and there. Residual supercanopy of large red and white pine, which averages about 15 square feet per acre. Aspen, spruce, and fir are mostly in the portion of the stand that is west of Lost Cabin Trail. Trace of red maple and red oak. Average ba/acre from 11 plots = 77 square feet.
17	42200 - Natural White Pine	Sawtimber Medium	16.0	90	81-110	Stand cut as part of "Three Ash Pine" timber sale, # 53-023-09-01. Orange-marked red pine, white pine, and spruce were cut and the rest of the species were removed, except for oak and hemlock. As a result of the species removal, stocking is quite variable, quite a bit more open in the NW 1/2. Nice white pine in the stand. Short, steep slope along Lost Cabin Trail and this is where most of the fir and spruce understory is located. A few overstory jack pine, aspen, fir and spruce were not able to be cut on this slope. Aspen has re-sprouted well but is being hit hard by browse as are the hardwood species. Average ba/acre from 12 plots = 81 square feet.
18	4311 - Pine, Aspen Mix	Poletimber Well	4.0	38	81-110	Aspen is not very good quality. A few larger white pine are mixed in as well. Average ba/acre from 4 plots = 90 square feet.
19	429 - Mixed Upland Conifers	Sawtimber Well	2.7	90	111-140	This is a strange stand. The south half is seasonally wet with a lot of blowdown and appears to be a drainage from the higher elevations to the south. The cedar, spruce, and larger fir and aspen are mostly located in this half. The north half is mostly large white and red pine with smaller aspen around the edges. The aspen was likely cut out of this portion at the same time as the aspen in adjacent stand 20. There is a small area in the central part of the stand where there is a concentration of rocks/small boulders. Not sure if this is has any significance or not. Average ba = 127 sq ft but this is highly variable. Do not manage.
20	4134 - Aspen, Spruce/Fir	Poletimber Well	35.8	55	111-140	Diameters vary considerably throughout this stand, with the aspen in some areas being poor quality and barely merchantable. The abundance of fir may partly be the reason for the smaller aspen size. Bigtooth aspen is primarily south of Lost Cabin Road near the old opening, as site quality increases that way. Some small pockets of pure pine in the eastern section, some almost appear planted. Small areas west of Lost Cabin Road where there are lots of rocks/small boulders in the soil. A few very wet drainages are present, one on the east side of Lost Cabin with an intermittent stream and another on the thin strip south of the old opening. Trace of paper birch, hemlock, red oak, elm, and white ash. Average ba/acre from 19 plots = 122 square feet.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
21	4130 - Aspen	Poletimber Well	32.2	55	111-140	A nice stand of aspen that sits on high quality soils. As you move north towards Lost Cabin Road, site quality decreases and the stand transitions to more of a quaking aspen/balsam fir type. Small pockets of hemlock are scattered throughout. There is a small component of larger hardwoods mixed in, commonly these are in and around the hemlock pockets. There are a few small pockets of M6 east of the interior hemlock stand. Rolling terrain but none of the slopes would pose any harvesting issues. Trace of red oak, red pine, beech, basswood, paper birch, white spruce, and elm. Average ba/acre from 14 plots = 131 square feet.
22	429 - Mixed Upland Conifers	Sawtimber Well	3.3	111	141-170	Nice stand of large hemlock with a diverse mix of other species mixed in as well. Trace of red pine, cedar, and yellow birch. White pine mostly in the southern finger. A few of the smaller hemlock are dying, looks like they have quite a bit of top damage (porcupines?). Average ba/acre from 5 plots = 154 square feet.
23	6132 - Mixed Lowland Forest with Cedar	Poletimber Well	5.1	91	81-110	Wet stand with an intermittent stream running through it. Diverse overstory composition which varies depending on your location in the stand. The one constant is cedar. A few nice clumps of healthy yellow birch. A lot of the black ash still appears healthy but difficult to tell with no leaves. Small clump of upland white pine on the NE side. Average ba/acre from 6 plots = 98 square feet.
24	4119 - Mixed Northern Hardwoods	Poletimber Well	18.3	106	111-140	Stand last thinned in 1989, East and West Hardwoods. All aspen, paper birch, and ironwood were removed in addition to marked trees. Beech becomes much more abundant as you move south in the stand and up the slope. BBD is present throughout the stand but hasn't progressed much since the last site visit in 2012. Many trees show no sign of scale. BA's are higher in and around the hemlock clumps which skewed the QD averages a little. Ground becomes wetter along the east edge as you get close to the drainage. Thin in ten years and monitor for BBD resistant trees.
25	4116 - Mixed N. Hardwood - Aspen	Sawtimber Well	8.9	79	81-110	Central portion of this stand sits on a knob and slopes downward on the eastern and southern sides. There is a small drainage at the SE end which leads into stand 23. The east side slope appears seasonally wet and has some yellow birch on it. Nice pocket of white pine on the west edge. Most of the aspen is on the south end. Average ba/acre = 102 square feet.
26	4133 - Aspen, Mixed Pine	Poletimber Well	3.0	37	51-80	Stand cut in 1979 by Champion. Aspen has regenerated well. A clump of larger quaking aspen is present in the north end. Average ba/acre = 70 square feet.
27	42200 - Natural White Pine	Sawtimber Medium	102.7	90	81-110	Stand had a species removal harvest in 1989, Lost Cabin Pine, all aspen, jack pine, paper birch, and red maple was cut. As a result the stocking is highly variable throughout. Diameters vary quite a bit as well, with a lot of smaller white pine poletimber mixed in. Site quality tends to increase as you move east in the stand. Rolling ridge and valleys with some moderately steep slopes. Average ba/acre = 109 square feet.
28	42200 - Natural White Pine	Poletimber Well	6.6	38	51-80	Nice young white pine stand. Residual supercanopy of log and Xlog trees averages about 25 square feet per acre. Overall basal area per acre from 6 plots = 75 square feet.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
29	4133 - Aspen, Mixed Pine	Poletimber Well	35.2	37	81-110	Stand cut in 1979 by Champion. Aspen has regenerated well for the most part and shows good growth. Pockets of pure white pine are scattered throughout and are nice quality poletimber. Oak stump sprouts have recruited quite well and are mostly in the southern part of the stand, south of the landing and old road. Almost all of the red maple stems have been damaged from elk stripping off the bark. Rolling terrain. Average ba/acre = 94 square feet. Hold this stand for several more entries due to the quality of the soils and to allow the oak and pine component to mature.
30	4191 - Mixed Upland Deciduous with Conifer	Poletimber Well	19.5	84	111-140	Diverse northern hardwood stand. Rolling terrain. Diameters vary greatly with scattered pockets of small hemlock/maple/birch. Diameters tend to be largest on the white pine, beech, and red oak. BBD is scattered throughout the stand. All ash appear dead. Saplings in the sub-canopy data are stunted and old, they do not represent new ingrowth. This stand is part of the Tin Shanty DHA and should not be managed due to the large hemlock component and in order to preserves its core habitat values. Average ba/acre = 140 square feet.  2006 THIS STAND HAS BEEN NOMINATED AS AN SCA. THIS STAND WAS PART OF OLD STAND 24 IT NO LONGER HAS A CUTTING PRESCRIPTION, BUT STILL HAS THE SAME DESIGNATION AS POTENTIAL OLD GROWTH AS DESCRIBED ABOVE IN 2005 NOTE. THIS STAND WAS BROKE OUT OF OLD STAND 24 BECAUSE OF THE SIGNIFACANT AMOUNT OF SMALL HEMLOCK AND WHITE BIRCH PRESENT.
31	4111 - S.Maple, Hard Mast Association	Sawtimber Well	26.1	86	111-140	High quality northern hardwood stand. Densely stocked in most areas. Diameters tend to decrease quite a bit as you move west of Tin Shanty Road. Limited understory development. A few small pockets of blowdown near Tin Shanty Road from a straight line wind event in 2013. This stand is a part of the Tin Shanty DHA. Average ba/acre = 116 square feet.  2006 THIS STAND HAS BEEN NOMINATED AS AN SCA. THIS STAND WAS BROKEN OUT FROM OLD STAND 24 AND IS UNDER THE SAME CRITERIA AS MENTIONED IN THE 2005 AND 1995 NOTE. IF THIS STAND IS EVER CUT SHOULD EXPECT MIXED NORTHERN HARDWOODS TO REGENERATE IN THE REGEN HOLES.
32	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Well	27.2	104	81-110	White pine dominated stand with a diverse mix of other species. Tends to be on the lower end of hardwood quality but the white pine and oak are very nice. Rolling terrain with a few steep slopes at the northern end. Some scattered blowdown east of Tin Shanty Road. Trace of yellow birch and hemlock. This stand is a part of the Tin Shanty DHA and should remain unmanaged to preserve its core habitat values. Goshawk sighted multiple times in this stand. Average ba/acre = 99 square feet.  2006 THIS STAND HAS BEEN NOMINATED AS AN SCA. THE NOTES FROM 1995 AND 2005 APPLY AS TO OLD GROWTH POTENTIAL. IF THIS STAND IS EVER CUT SHOULD EXCEPT WHITE PINE, RED MAPLE AND SOME ASPEN TO REGENERATE N THE REGEN HOLES.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
33	4130 - Aspen	Poletimber Medium	21.7	28	51-80	<p>Stand cut as part of Section 35 Aspen, #53-009-88-01, Georgia Pacific. Browsing has had quite an impact in this stand resulting in several open areas. White pine is most common in the northwest corner of the stand. Rolling terrain. Average ba/acre = 58 square feet.</p> <p>OPIC - FMD: 2006 THERE ARE PATCHES OF A3 THAT MADE IT THOUGH THE ELK BROWSING. GUESSING 40 TO 50 % IS ASPEN, WITH THE REST A COMBINATION OF A1, W1, U TYPE AND G. BRIAN IS GOING TO HAVE SOMEONE MANUALLY CUT WHITTE PINE OUT OF THE ASPEN IN THIS STAND</p>
34	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Well	30.2	89	51-80	<p>Variable stocking throughout. Hardwoods are for the most part poor quality. A few scattered aspen clones are present. White pine displays the best growth and due to it's predominance in the understory, should be allowed to take over this stand. Somewhat steep slopes further north in the stand. Autumn olive is becoming established in pockets throughout the southwest portion of the stand. Average ba/acre = 80 square feet.</p> <p>OPIC - FMD: 2006 HARDWOODS TEND TO BE CLUMPY ESP. SUGAR MAPLE AND BEECH. OLDER (BIGGER) WHITE PINE IS OF POOR FORM, BUT WHITE PINE REGEN APPEARS TO BE OF BETTER FORM. HEAVY BROWSING HAS AND IS TAKING PLACE ON HARDWOOD REGEN AND U TYPE!</p>
35	4133 - Aspen, Mixed Pine	Poletimber Well	7.6	28	51-80	<p>Stand cut as part of Section 35 Aspen, #53-009-88-01, Georgia Pacific. Regeneration has come back ok with the exception of the east finger which is quite open. Stand is just reaching merchantability. Average ba/acre = 64 sq ft. Adjacent to the pipeline at the south end is a small opening which has rye in it, this may have been the old landing.</p>
36	4133 - Aspen, Mixed Pine	Poletimber Medium	13.2	28	51-80	<p>Stand was clearcut as part of Section 35 Aspen sale, #53-009-88-01, bought by Georgia Pacific, cut by Wood Brothers. Browsing impacted regeneration success as there are now many open areas mixed in. These areas are mostly black cherry and open-grown white pine. Variable sizes on the aspen clones that survived, a bigtooth clone at the southwest end of the stand averages close to 8" while other bigtooth clones are smaller in diameter. Most of the quaking clones are just approaching merchantability. A few pockets of nice white pine poletimber. Rolling terrain. Trace of white spruce and red pine. Average ba/acre from 5 plots = 68 square feet.</p>
37	4133 - Aspen, Mixed Pine	Poletimber Well	9.6	55	51-80	<p>Stand alternates between clumps of aspen and clumps of white pine. Scattered hardwoods are mixed in throughout, although more common along the edges. Some large white pine and hardwoods are present in the stand, including a 31" paper birch, and definitely resembles a two-aged stand. Average ba/acre = 68 square feet. Do not manage this stand for the time being, wait until the adjacent aspen stands to the south are mature.</p>
38	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Well	26.3	84	81-110	<p>Variable stocking with moderate quality hardwoods and a nice representation of large white pine. There are a few small clones of aspen mixed in throughout. Bare understory in many areas, others have evidence of heavy browse pressure, even on the ironwood and beech. Trace of red oak, white spruce, beech, red maple. Average ba/acre = 92 square feet. Stand should be ready for a thinning next entry period. Maintain the white pine and let the aspen senesce.</p>



Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
4119 - Mixed Northern Hardwoods	Sawtimber Well	29.5	101	51-80	Stand last thinned in 1989 (East and West Hardwoods, (53-005-89-01). All aspen, paper birch, and ironwood was removed as well which resulted in variable stocking. High quality hardwoods for the most part. Avg ba/acre = 78 sq ft. Steep slopes in areas.
42200 - Natural White Pine	Sawtimber Poor	4.0	77	1-50	Multiple sizes of white pine throughout the stand. The larger ones have significant weevil damage. White pine saplings are filling in the western portions of the stand. Eastern part of the stand has more of an open, grassy understory.
4130 - Aspen	Sapling Poor	22.5	7	Immature	Timberdoodle Aspen, #53-007-08-01, Nash Forest Products. Stand updated following 2014 regen survey. Regen failure because stand falls below either aspen or white pine standards. Heavy browse on bigtooth aspen, not much of it will survive. Quaking aspen seems to be doing better but is still being browsed. Many areas without any regen at all. A lot of pine cut out of this stand, including many white pine legacy trees. A1 at this point but good chance of becoming another U. A few residual oak scattered throughout.  OPIC - FMD: 2006 THIS STAND MAY HAVE TROUBLE REGENERATING IF THE ELK BROWSE IT TOO HEAVILY, WOULD EXPECT SOME WHITE PINE TO COME IN TOO.
42200 - Natural White Pine	Poletimber Medium	19.0	28	81-110	Stand was harvested in 1989 as part of Section 35 Aspen timber sale, bought by Georgia Pacific, cut by Wood Brothers. Old notes indicate heavy elk use which impacted the aspen regeneration. The stand is now a mix of open areas and denser pine pockets. As expected, white pine quality is low in the open areas but much better quality where the stocking is higher. Average ba/acre from 8 plots = 84 square feet.
4133 - Aspen, Mixed Pine	Poletimber Well	40.8	57	111-140	Mature aspen stand that is ready to harvest. Diameters on the north and east side of Sawdust Pile Road tend to be smaller. Large white pine mixed in throughout as well as pockets of poletimber. Residual hardwoods more prevalent as you move closer to the west boundary. Red maple seedlings browsed heavily in spots. Trace of basswood, black cherry, hemlock, red oak, and bigtooth aspen. Average ba/acre from 15 plots = 127 square feet.
4116 - Mixed N. Hardwood - Aspen	Poletimber Well	14.5	88	111-140	Quite a variable stand with some aspen clones mixed in, most prevalent in the far northern and southern portions of the stand. The aspen must have been removed at one point but couldn't find the sale records. A nice pocket of M9 in the north half. Trace of red pine, white spruce, balsam fir, yellow birch, white ash, and red oak. The thin central part of the stand straddles a pretty steep slope. Average ba/acre = 115 square feet.
4319 - Mixed Upland Forest	Sawtimber Well	7.6	90	81-110	Mix of large, old white pine with a second age class of smaller trees. Stand serves well as a visual buffer due to the multiple roads that intersect the stand. Trace of hemlock and paper birch. Average ba/acre from 8 plots = 109 square feet.
6130 - Fir, Aspen, Maple	Poletimber Medium	6.4	50	51-80	Wet stand, in the floodplain of the Black River. Reed canary grass present throughout. Trace of white pine and elm. Black ash used to be a moderate component but is now all dead. Average ba/acre from 5 plots = 110 square feet.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
48	6120 - Lowland Cedar	Poletimber Well	5.4	91	81-110	Overstory stocking varies quite a bit. Most lower stocked areas have a heavy fir understory. A few scattered open patches heavy to alder. Low quality and wet for the most part. Average ba/acre from 5 plots = 92 square feet.
49	6122 - Black Spruce	Poletimber Well	9.1	96	111-140	Stand varies from pure black spruce to a cedar/spruce mix. Cedar is not showing any signs of decline. Very wet, no management. Average ba/acre from 5 plots = 130 square feet.
50	6124 - Lowland Spruce-Fir	Sapling Poor	21.4	2	Immature	Stand cut as part of Black River Spruce, #53-025-09-01, bought by Precision. Stand is roughly half upland and half lowland. Transitions to lowland as you move north. There were some rutting issues during the harvest, particularly along the north end, some were fixed, some were too wet to get to. Two small retention pockets of black spruce poletimber were left. Patches of red maple, fir, and spruce advanced regeneration were protected during harvest operations, primarily in the western portion of the stand. This advanced regeneration is what is featured in the canopy species breakdown above.
51	4136 - Aspen, Mixed Conifer	Poletimber Well	5.0	57	111-140	Pretty nice stand of aspen. Diameters do seem to decrease in NW part of the stand for some reason. Nice representation of supercanopy spruce and white pine. Nannyberry understory is well-developed in spots. There may be some pockets of wet ground here but difficult to tell with the snow. Average ba/acre from 4 plots = 128 square feet.  OPIC - FMD: 1995 APPROXIMATELY 20 SQ FT OF RESIDUAL SPRUCE AND FIR. 2006 NICE STAND OF ASPEN WITH A GREAT UNDERSTORY OF WILD RAISON OR NANNY BERRY.
52	42200 - Natural White Pine	Sawtimber Well	18.5	90	111-140	Nice natural white pine stand with some very large diameters, measured a few over 35"+ DBH. Some areas where quality is not the greatest due to past weevil damage. Stocking density increases in the eastern half. A small pocket of wet ground near the west end. Average ba/acre from 10 plots = 124 square feet. This stand serves well as a representation of large, overmature trees and benefits wildlife species that rely on those characteristics.
54	429 - Mixed Upland Conifers	Poletimber Well	39.5	57	51-80	Previous inventory coded this as an aspen stand and noted that there were some residual aspen left over from the harvest in 1960. While there is a decent percentage of aspen, this is a white pine dominated stand. Overall, the aspen quality is very poor with the exception of the far western end which has a few nice clones. White pine quality is not that great either as there are many weevil-deformed stems in the semi-open areas that are found throughout. However, the denser pockets of pine show potential for good growth. 20"+ white pine are scattered throughout the stand. Log-size red pine were only found in one isolated pocket. Fir and spruce are mostly at the far western end. Trace of paper birch and red maple. Average ba/acre from 13 plots = 79 square feet. Allow the pine component to mature before deciding what to do.
55	4130 - Aspen	Sapling Well	18.1	27	Immature	Stand cut as part of Swamp Twins Aspen, bought by K&R Logging. Aspen regenerated well in most areas with the exception of the wetter areas where alder is more prevalent. Stand seems to be a near equal mix of upland and lowland but difficult to tell with the snow on the ground. Trace of jack pine and paper birch.





Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
56	6124 - Lowland Spruce-Fir	Sawtimber Well	1.6	91	81-110	Strip of upland follows the southern boundary of the stand. The remainder is wet lowland. Some old blowdown scattered throughout. Average ba/acre = 90 square feet.
59	42290 - Natural Mixed Pine	Sawtimber Medium	2.9	89	51-80	White pine and red pine mostly in the south half. Shore to Shore trail follows the small road in the stand. Average ba/acre from 5 plots = 58 square feet.
60	6139 - Mixed Lowland Forest	Sawtimber Well	10.6	75	81-110	Adjacent to the Black River. Primarily lowland except along the east edges and there is also an upland spot in the northern 1/2 that is a popular river access site. Significant beaver activity in the north 1/2 has eliminated a lot of the balsam poplar component and has expanded the adjacent lowland brush stand (#57). The central part of the stand that extends west to the river is an island as there is a small part of the river that has diverted from the main branch and cuts south through the stand (likely a result of the beaver dams). Variable diameters with some very large white pine and spruce (31" DBH spruce in the southern finger). Average ba/acre from 9 plots = 82 square feet.
61	4130 - Aspen	Sapling Well	7.7	27	Immature	Stand harvested in 1990 as Streambank Aspen sale, bought and cut by James Fenstermaker. Stand varies between upland and lowland. Looks like the spruce and fir may have been residual not cut from the harvest. Trace of white pine, paper birch, red maple. Significant beaver activity in the northern part of the stand that widens out and which is close to the Black River.
63	6124 - Lowland Spruce-Fir	Sawtimber Medium	4.0	84	51-80	Stand borders the Black River. Pretty wet, especially at the north end where there has been a lot of recent beaver activity. Aspen is most prevalent at the south end. Variable stocking with thick alder in the more open areas. Average ba/acre from 6 plots = 80 square feet.
65	4130 - Aspen	Poletimber Medium	23.9	37	81-110	This stand was heavily impacted by elk as there are numerous open areas throughout, primarily with cherry and open-grown white pine. Diameters on the aspen vary widely among the different clones in the stand, some areas have diameters just reaching merchantability while others average 7-8". White pine tends to be weeviled quite heavily. The ironwood and white ash understory picks up in the SW corner, where the site quality seems to increase. A few pockets of seasonally wet ground are present as there appears to be a clay lense in the soil. Average ba/acre from 11 plots = 91 square feet.
67	4133 - Aspen, Mixed Pine	Poletimber Poor	25.1	28	1-50	Stand cut in 1988 as part of Section 35 Aspen, bought by Georgia Pacific, cut by Wood Brothers. Elk browse has had a very significant impact in this stand, leaving many open areas with only weevil-damaged white pine. The browse pressure is still very high on the understory. The west 1/2 of the stand sits atop a slope and has better site quality and is where most of the bigtooth is growing. There was quite a bit of rutting damage on old skid trails in the central portion of the stand, east of the managed opening. Autumn olive is thick in many of these old trails. Small seep/wetland in the far western finger. Trace of red pine, red maple, and balsam fir. Average ba/acre from 10 plots = 48 square feet. Overall a pretty ugly stand with not much merchantable value. The autumn olive will have to be dealt with at some point as it is pretty thick in spots.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
69	4130 - Aspen	Sapling Medium	17.7	7	Immature	Timberdoodle Aspen, #53-007-08-01, Nash Forest Products. Stand updated after 2014 regen survey. Regen failure as stand falls below required 2000 tpa for aspen. Regen is best along the eastern half of the stand, while the western and southern portions have essentially been converted to a nonforested condition because of browse.
70	6128 - Lowland Coniferous, Mixed Deciduous	Sawtimber Well	24.2	96	81-110	Wet stand that borders the Black River. Composition varies quite a bit. In general, cedar is mostly in the south half or close to the river, tamarack mostly in the central part and spruce tends to dominate in the northern part. Heavy deer use. Average ba/acre from 10 plots = 119 square feet.
71	42200 - Natural White Pine	Poletimber Well	5.0	53	111-140	Pretty nice white pine poletimber stand, although many trees are still quite short in relation to their diameter. Continue to allow vertical growth and then thin at the appropriate time. Trace of balsam fir. Average ba/acre from 5 plots = 124 square feet.
72	42390 - Mixed Non-Pine Upland Conifers	Poletimber Well	7.1	56	111-140	Diverse and complex stand with a lot of varying diameters. Stand sits on a slope and is an upland/lowland transition zone. Directly south of the pipeline is an old elevated grade. There is also an old pit next to this old grade and Chandler Dam Road. Majority of the stand borders the Black River, no management. Average ba/acre from 9 plots = 113 square feet. There is a 33" DBH cedar and several 30"+ white pine in this stand.
73	4133 - Aspen, Mixed Pine	Sapling Well	6.9	17	Immature	Stand was cut as a part of Chandler Dam Aspen (#53-008-98-01) bought by A.J.D. Quite a bit white pine as you move east up the slope. Seems to be a wet drainage near the north boundary that flows down to the west. Autumn olive is mostly along the pipeline in the southernmost piece of the stand.
75	4133 - Aspen, Mixed Pine	Poletimber Medium	2.2	57	51-80	Not great quality aspen, manage with stand 16 in the compartment to the south. Most red pine on the west side of the road. Most spruce at the far eastern side. Trace of paper birch. Average ba/acre from 3 plots = 63 square feet.
79	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Well	10.2	79	51-80	Variable stocking throughout. Overall, the hardwoods are poor quality. Continue to let white pine take over this stand. BBD present on most of the beech. Trace of red oak and paper birch. Autumn olive is encroaching into the southwest portion of the stand. Average ba/acre = 80 square feet.  OPIC - FMD: 2006 HARDWOODS TEND TO BE CLUMPY ESP. SUGAR MAPLE AND BEECH. OLDER (BIGGER) WHITE PINE IS OF POOR FORM, BUT WHITE PINE REGEN APPEARS TO BE OF BETTER FORM. HEAVY BROWSING HAS AND IS TAKING PLACE ON HARDWOOD REGEN AND U TYPE!



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
80	4133 - Aspen, Mixed Pine	Poletimber Well	29.5	45	111-140	Variable stand. In general the south half is dominated by aspen. Diameters tend to decrease in the north half, which is where most of the small white pine and red maple is mixed in. Clumps of large pine, oak, and spruce were left from the previous harvest. These are rather infrequent throughout and should be maintained. There are also some scattered small clumps of pure white pine poletimber. Diameters are a bit smaller on the segment west of the pipeline. Most of the autumn olive is adjacent to the pipeline and is starting to encroach into the stand. Evidence of heavy elk use, browsing will be an issue here. Trace of balsam fir, white ash, and sugar maple. Average ba/acre from 12 plots = 124 square feet.
81	4311 - Pine, Aspen Mix	Sawtimber Well	1.9	100	81-110	High Country Pathway runs through the middle of this stand. Aspen mostly at the far southern end, jack pine mostly in the middle, and the red/white pine mostly at the north end. Quite a bit of the jack pine is dead. Average ba/acre from 3 plots = 100 square feet.
82	4133 - Aspen, Mixed Pine	Poletimber Well	19.6	37	81-110	Decent looking aspen stand with a supercanopy of large red pine. Diameters on the aspen tend to vary but in general growth is better than the adjacent aspen stand to the east which is the same age. Site quality increases as you move west and north in the stand. Rolling terrain. Trace of red oak in the overstory and noticed a few red and white oak saplings along the east edge. A few small scattered pockets of nice red and white pine regeneration. White pine poletimber is more prevalent at the north/northeast ends and is generally open-grown and poor-quality. Average ba/acre from 11 plots = 101 square feet, 27 of which is the supercanopy red pine.
84	4123 - Red Oak	Sawtimber Well	82.0	87	81-110	Stand thinned in 2008, High Country Oak, bought by Northwest Hardwoods. Excellent job on the thinning, residual damage is almost non-existent. The oak is moderate to high quality. Rolling terrain throughout with a few steep slopes, but all were operable. The pine component is mostly in the south half of the stand. Most white ash dead from EAB but a few still hanging on. Trace of hemlock, white spruce, basswood, paper birch, and ironwood. Average ba/acre from 19 plots = 88 square feet.
85	4133 - Aspen, Mixed Pine	Poletimber Well	19.0	37	81-110	Stand was harvested in 1979 by Harry Moran. Aspen regenerated well in pockets but there are a few areas dominated by white pine poletimber. Diameters vary considerably, some areas are just reaching merchantability while others are approaching 9-10". Some red oak stump sprouts have recruited into the overstory. A residual supercanopy of red pine, white pine, and red oak is scattered infrequently throughout. Heavy elk use evident. Rolling terrain. Trace of sugar maple, hemlock, jack pine, paper birch, balsam fir, and white spruce. Average ba/acre from 5 plots = 108 square feet.
86	4130 - Aspen	Poletimber Well	17.7	51	111-140	Good looking aspen stand. Majority of the quaking aspen, white pine and spruce is in the portion west of Chandler Dam Road. Trace of balsam fir and red pine. Average ba/acre from 8 plots = 129 square feet.  OPIC - FMD: 2006 THIS WHAT A BIG TOOTH ASPEN STAND WOULD LOOK LIKE WITHOUT ELK.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
87	42220 - Natural Jack Pine	Poletimber Medium	8.6	51	51-80	Quite a few dead jack pine with snapped off tops which has reduced the stocking a bit. Understory is primarily moss, blueberry, and wintergreen so whole-tree skidding should result in sufficient scarification. Southeast bubble of stand is mostly white pine poletimber and will serve well as retention. Average ba/acre from 6 plots = 72 square feet.
89	4310 - Pine, Oak Mix	Sawtimber Well	6.3	78	81-110	This stand sits on the top and edge of a ridge and the High Country Pathway travels through the majority of it. Jack pine is continuing to die out of this stand (it used to be a occupy a larger percentage). Average ba/acre from 5 plots = 90 sq ft. No management.
90	4139 - Aspen, Mixed Deciduous	Sapling Medium	11.4	6	1-50	Stand cut as part of High Country Oak, #53-023-08-01, bought by Northwest Hardwoods. Steep ridges and valleys but it looks like most areas were able to be harvested. Everything was cut except oak, red pine, and white pine. The oak residual is irregular throughout, with some areas being more of an O7 or O8. Supercanopy residual ba/acre = 23 square feet. Aspen regen is spotty with browse impacting a few areas. Pockets of residual red maple saplings were protected during the previous harvest, not sure why. Red maple seedlings are also abundant, so if the elk continue to eliminate the aspen, that is what this stand will turn into.  OPIC - FMD: 2006 THIS STAND OF BIG TOOTH ASPEN IS ON A SOUTHWEST SLOPE AND STANDS A GOOD CHANGE OF BEING HEAVILY BROWSED BY ELK. I'M NOT SURE WHAT THE RESULTING STAND MIGHT BE, I AM AFRAID U MIGHT BE THE RESULT.
91	4130 - Aspen	Poletimber Medium	19.4	28	51-80	Stand was cut as a part of Towersite Aspen (53-013-88-01), bought by Georgia Pacific. Browsing has significantly affected this stand which has resulted in many open areas throughout, which are mostly filled with black cherry and scattered jack pine. Site quality increases as you move east up the slope. Stand is just reaching merchantability. Average ba/acre = 57 square feet.
92	4133 - Aspen, Mixed Pine	Poletimber Well	15.0	87	81-110	Series of steep ridges and valleys running east-west in the stand. Pockets of pure pine scattered throughout. The aspen is not that great quality. Trace of white ash. Average ba/acre = 96 square feet. High Country Pathway along the east edge. Old firetower location is at the far northeast corner. Agree with previous stand examiner's notes below, let the aspen senesce and do not manage at this time.  OPIC - FMD: 2006 THIS STAND IS ON A FAIRLY STEEP WESTARD FACING SLOPE. I WOULD LIKE TO TO SEE THIS STAND CONVERT TO A PINE OAK STAND NATURALLY. THE DYING ASPEN WILL PROVIDE WILDLIFE HABITAT WHILE STANDING AND WOODY DEBRIS WHEN IT FALLS.
93	42110 - Planted Red Pine	Poletimber Well	28.7	27	81-110	Stand cut as part of Blue Flag Jack Pine (53-011-88-01), Georgia Pacific. Planted to RP in 1990. Looks good. Averages about 30-35 feet tall at time of inventory. Average ba/acre = 105 sq ft.  2006 THE RED PINE IS ABOUT 12 TO 15 FEET TALL AND ABOUT 2 INCHES IN DIA.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
94	4132 - Aspen, Jack Pine	Poletimber Medium	39.3	37	51-80	Stand clearcut in 1980 by Harry Moran. Aspen did not regenerate very well and there are quite a few open areas throughout the stand. Jack pine filled in some spots but is poor quality and open grown for the most part. Diameters vary considerably on the aspen clones, some are just reaching merchantability while several of the BTA clones are approaching log-size. Red maple understory is heavily browsed in areas. Average ba/acre from 7 plots = 67 square feet.
95	42110 - Planted Red Pine	Poletimber Well	22.9	27	111-140	Looks good. Trace of red oak sawlogs. The aspen is mostly located south of the bog, close to the road. Average ba/acre from 5 plots = 116 square feet.
96	42220 - Natural Jack Pine	Sapling Medium	7.0	8	Immature	-Town Corner Jack Pine, 353-009-08-01, Northern Timberlands. Stand updated from regen survey. MO was aspen but not much of that regenerated. However, jack pine has regenerated quite well and this was accepted at a PRC regen meeting. 2008 After setting up this stand for sale a small stand consisting of white pine, black spruce and tag alder was found in the northeast corner of the stand. Make this a new stand or comment in the next round of inventory. This stand or inclusion is about 2 acres.
98	4130 - Aspen	Sapling Well	6.6	17	Immature	Stand cut as part of Chandler Dam Aspen sale, #53-008-98-01, AJD. Aspen regenerated well except for along the private line which has some open areas. Trace of white pine and red oak saplings.
99	4130 - Aspen	Sapling Well	7.3	17	Immature	Stand cut as part of Chandler Dam Aspen sale, #53-008-98-01, bought by AJD. Stand regenerated well except for some small areas along the east and west edges. Red maple most prevalent in the SW part of the stand.
100	42220 - Natural Jack Pine	Sapling Medium	42.8	8	Immature	Town Corner Jack Pine, #53-009-08-01, Northern Timberlands. Stand updated from 2014 regen survey. Jack pine regeneration is very spotty. Abundant in skid trails and especially at the landing but patchy everywhere else. Aspen being heavily browsed. Red maple is abundant in areas but not over 3 feet for the most part. Great pine site, not so much for red maple. OPIC - FMD: 2006 SOME OF THE JACK PINE HAS DIED. THERE IS A RED MAPLE UNDERSTORY IN THIS STAND THAT HAS BEEN BROWSED. THERE IS A MINI BOG TOWARD THE SOUTH EDGE OF THE STAND WHICH SHOULD BE BUFFERED. LEAVE THE RED AND WHITE PINE SAW LOG TREES, FOR SEED AND VISUAL. WOULD EXPECT JACK AND SOME RED AND WHITE PINE TO REGENERATE AS WELL AS RED MAPLE AND ASPEN AND POSSIBLY SOME OAK. DO NOT CUT OAK. 2010 three areas of retention included in acreage of stand
101	42260 - Natural Pine, Mixed Deciduous	Sawtimber Well	5.3	97	81-110	Th pine in this stand appears to be natural. The thin finger has dense stocking, the remainder of the stand is not quite as well stocked. Short, steep slope at the SE corner. Trace of sugar maple and jack pine. Average ba/acre from 5 plots = 102 square feet. Leave unmanaged.  2006 IT WAS DECIDED AT PRE -REVIEW TO LEAVE THIS STAND UNCUT



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
102	4133 - Aspen, Mixed Pine	Poletimber Well	13.5	37	81-110	A vein of smaller pine runs through the central part of this stand. A few scattered open areas throughout. The red oak appears to be of stump sprout origin from the last time the stand was cut. Rolling terrain. Average ba/acre = 108 sq ft.
103	4310 - Pine, Oak Mix	Sawtimber Medium	15.5	97	51-80	Stand recently cut in Bugle Boy Red Pine (53-025-08-01), bought by Northern Timberlands. All aspen, hardwoods, and jack pine were removed as well as marked red pine and oak. Not much residual damage at all. Lack of slash so looks like this was a chip job. Barren understory for the most part. The pine in this stand are all natural. Some of the larger trees look like they have old fire scars. Average ba/acre = 61 square feet.  OPIC - FMD: 2006 WOULD EXPECT MIXED PINE AND SOME RED MAPLE AND ASPEN TO REGENERATE IN THIS STAND. Stand had shelterwood cut in 2012.
105	6122 - Black Spruce	Poletimber Medium	8.3	71	51-80	This stand is a treed bog with sphagnum and leatherleaf dominant at the ground level. Productivity declines sharply in the north 1/2 where there are mostly just small stunted trees. Larger white pine are located along the perimeter of the stand. Average ba/acre from 4 plots = 60 square feet.
106	42220 - Natural Jack Pine	Poletimber Well	1.9	31	51-80	Poor quality jack pine, several of which have broken off tops. A few walking paths cut up through this stand to the north as there is a small turnaround at the SW corner of the stand which is used frequently during deer hunting season. Manage with the adjacent aspen stand to the east next entry period. Average ba/acre from 4 plots = 70 square feet.
107	4133 - Aspen, Mixed Pine	Sapling Medium	17.6	27	Immature	Stand clearcut as part of Broken Arrow Aspen timber sale, #53-015-88-01, K&R Logging. Aspen did not regenerate well resulting in many open areas. White pine and jack pine are slowly filling in these areas but are open-grown and poor quality. This site appears better suited for jack pine as the aspen doesn't appear very healthy. Trace of black spruce. Small wetland depression in the central part of the stand. Stand is just reaching merchantability.
108	42260 - Natural Pine, Mixed Deciduous	Sawtimber Well	7.2	86	81-110	Entrance to Town Corner Campground is at the southern part of the stand. The High Country Pathways also travels through the stand, a little bit north of the Town Corner entrance. Quite a bit of the jack pine has died. A few very large aspen in the stand. Average ba/acre from 5 plots = 84 square feet.  OPIC - FMD: 2006 IT WAS DECIDED TO LEAVE THIS STAND UNCUT
109	4130 - Aspen	Poletimber Well	16.7	37	81-110	Stand cut in 1979 by Harry Moran. Aspen regenerated well but there are spots where the quaking aspen is small and very poor quality. The bigtooth seems to be fine but is limited throughout the stand. In general site quality seems to decrease as you move to the northern edges of the stand. This site is likely more suitable for jack pine. Average ba/acre = 93 square feet. Harvest in ten years.
110	4130 - Aspen	Sapling Medium	7.5	17	Immature	Stand clearcut as part of Chandler Dam Aspen sale, #53-008-98-01, bought by AJD. Oak residual overstory averages a little under 10 square feet per acre. Low depression in the SE corner of the stand, this as well as the central part of the stand did not regenerate well. Heavy browse on the red maple understory.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
111	4112 - Maple, Beech, Cherry Association	Sapling Poor	8.9	8	Immature	This cluster of 4 stands were small aspen clearcut pockets, included in the High Country Oak timber sale (53-023-08-01). There has been very heavy browse pressure in all 4 of these pockets. Almost all species have been browsed except for the white pine. Aspen and oak have been hit the hardest and they will only be a small component of the future stands. The few oak that did make it are not pretty, these are mostly in the larger pocket to the north. The two southern pockets are barely forested at this point with bracken and sedge starting to take over due to deer and elk use. I wouldn't be surprised if browse completely eliminates everything in these two by the next cycle.
112	4133 - Aspen, Mixed Pine	Poletimber Well	2.8	89	81-110	This stand represents the retention area that was utilized when stands 41 and 113 were cut. Trace of balsam fir. Average ba/acre from 3 plots = 90 square feet.
113	4130 - Aspen	Sapling Medium	34.4	7	Immature	Timberdoodle Aspen, #53-007-08-01, Nash Forest Products. Some browse impacts, especially near the southeast end, but not too bad in relation to the other nearby stands. Like the other nearby clearcuts, a lot of pine was cut out of this stand, including many legacy size white pine.
115	4134 - Aspen, Spruce/Fir	Poletimber Well	8.2	58	81-110	Diverse stand that used to be a part of the Craft property until it was purchased by the State in 2013. Range of diameters with some larger pine and oak mixed in throughout. The aspen seems to become larger at the south end. Nice representation of younger red oak, although it is overtopped by aspen in spots. Single clump of scotch pine in the piece of the stand west of the pipeline. Entrance road to the old Craft cabin site runs through the southern portion. Average ba/acre from 11 plots = 84 square feet.
116	4319 - Mixed Upland Forest	Sawtimber Well	10.7	98	111-140	-Very species diverse and complex stand with a lot of varying diameters. Some very large pine and oak with fire scars scattered throughout which must have been the seed source for the present day stand. Was previously under private ownership before it was acquired by the state in 2013. A few wet seeps are present. -Other species that were present but rare include jack pine, cedar, hemlock, and basswood. -This stand has never been managed and should be left alone. Average ba/acre from 8 plots = 104 square feet.
117	4319 - Mixed Upland Forest	Poletimber Well	2.5	50	81-110	Stand sits on a pretty steep slope which runs north and downhill to the swamp stand. SE 1/4 of stand has most of the pine and is atop the slope. Wide range of diameters. Trace of jack pine. Average ba/acre from 5 plots = 98 square feet.
118	42201 - Natural White Pine, Mixed Deciduous	Poletimber Well	3.2	52	81-110	Lot of white pine poletimber and small logs with a scattering of large XL-sized trees. According to the sale map, this stand represents retention from the aspen stand 113 that was cut to the north. Trace of red maple and black cherry. Average ba/acre from 4 plots = 85 square feet.
119	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Medium	1.5	82	51-80	Trace of balsam fir, paper birch, red pine, and tamarack. Mix of upland and lowland. Average ba/acre from 3 plots = 57 square feet.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
120	42260 - Natural Pine, Mixed Deciduous	Poletimber Well	12.0	37	81-110	Stand was harvested in 1979 by Harry Moran. White pine regenerated well here and is the dominant species. Some red oak stump sprouts have recruited into the overstory. A residual supercanopy of red pine, white pine, and red oak is scattered infrequently throughout. Heavy elk use evident. Rolling terrain. Trace of sugar maple, hemlock, jack pine, paper birch, balsam fir, and white spruce. Average ba/acre from 3 plots = 103 square feet.
121	6113 - Lowland Maple	Poletimber Medium	2.4	62	51-80	Mix of upland and lowland. White pine poletimber mostly in a strip at the north end. Black ash used to be a component of this stand but is now all dead. Trace of red oak, white oak, and white spruce. Average ba/acre from 4 plots = 65 square feet.
122	4311 - Pine, Aspen Mix	Sawtimber Medium	1.9	81	51-80	Entrance to Walled Lake Lodge is in the center of the stand. A lot of the jack pine is dead or dying. Trace of beech, white oak, and ironwood saplings in the understory. Average ba/acre from 3 plots = 70 square feet.
123	42260 - Natural Pine, Mixed Deciduous	Poletimber Poor	2.8	37	1-50	Open-grown poor quality pine. A few scattered pockets of aspen. Open area at NW end of stand was the landing for the timber sale in stand 103.
124	6119 - Mixed Lowland Deciduous Forest	Poletimber Medium	2.1	60	51-80	Wet, seep-like stand. There is some standing water here. Variable species composition. A lot of the ash has EAB but some of it still appears to be alive. It looks like there was some black ash in here as well but that is now all dead. Trace of sugar maple, hemlock, cedar, and balsam fir. Average ba/acre off of 3 plots = 53 square feet.
125	42260 - Natural Pine, Mixed Deciduous	Sapling Poor	9.9	8	1-50	Stand was cut as part of Town Corner Jack Pine, #53-009-08-01, whole-tree job by Northern Timberlands. Aspen is mostly in the north half and is being heavily browsed, not sure how much of it will survive. Jack pine has seeded in almost exclusively along the skid trails but nowhere else. A thin strip of retention runs north-south through the middle. The residual is variable, averaging about 25 square feet per acre.
126	42200 - Natural White Pine	Poletimber Well	4.7	49	111-140	Nice stand of white pine poletimber. The High Country Pathway travels through the south part of the stand. Average ba/acre from 5 plots = 122 square feet.
128	6127 - Lowland Pine	Sawtimber Well	2.1	107	81-110	The south half is basically a treed bog while there is a small non-forested bog in the north half. All size classes of white pine are present, including some very large XL-sized trees. Average ba/acre from 4 plots = 102 square feet.
130	4319 - Mixed Upland Forest	Sawtimber Well	7.7	86	81-110	This stand lies on an eastward facing slope. Stand composition varies quite a bit depending on slope position. Most of the oak, hardwoods, and aspen are in the western and central parts of the stand while most of the pine is on the north and east edges. Various sizes of white pine. Parts of this stand look to be seasonally wet due to the adjacent seep to the west. Average ba/acre = 110 sq ft.





	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
133	6122 - Black Spruce	Poletimber Well	45.1	79	51-80	A decent stand of black spruce, although stocking tends to vary quite a bit. The central part of the stand is very wet, has lower stocking, and is where the majority of the cedar is located. Much of the cedar is in decline. Harvesting options will be limited to a thin strip along Lost Cabin Trail which is mostly nice black spruce with a little pine mixed in. Remnants of old red paint at the far south end. Trace of red maple. Average ba/acre from 10 plots = 79 square feet.
134	42320 - Upland Spruce	Sawtimber Well	2.4	85	81-110	Nice white spruce. NE end gets low and wet, some blowdown here. Trace of white pine, cedar, paper birch, and black cherry. Noticed recent mortality on a few fir and spruce. Average ba/acre from 3 plots = 93 square feet.
135	6120 - Lowland Cedar	Poletimber Medium	3.9	96	51-80	Very wet stand and most of the cedar is in decline or dead. Scattered old blowdown. Extremely thick fir understory. Small stream near the SW corner which seems to flow N-NE. Average ba/acre from 3 plots = 73 square feet.
137	42260 - Natural Pine, Mixed Deciduous	Poletimber Well	3.8	46	111-140	Some nice looking young white pine. Larger oak and red pine more common in the north end. Trace of jack pine. Average ba/acre = 117 square feet.
138	4311 - Pine, Aspen Mix	Sawtimber Well	9.4	104	111-140	Stand lies on a transition between the aspen stand to the north and the hardwoods to the west and south. Diverse mix of species with a lot of large diameters. Trace of red pine and paper birch. Quite a bit of large coarse woody debris on the ground. Browse heavy in spots, especially on the few clumps of sugar maple saplings that are present. This is quite a unique stand that should be left unmanaged. Average ba/acre = 132 square feet.
139	42390 - Mixed Non- Pine Upland Conifers	Sawtimber Medium	3.7	58	51-80	Diverse and complex stand with a wide range of diameters. Most of the stand is on a short, steep slope directly adjacent to the Black River. Majority upland but it does dip down into lowland at the north end. The south end is where the old Craft cabin was located. There is still a patio onsite. 31" DBH cedar in this stand as well as some other large diameter spruce, white pine, and tamarack. Trace of willow, red pine, and red oak. Average ba/acre from 6 plots = 72 square feet. No management due to Black River influence zone.
140	4310 - Pine, Oak Mix	Poletimber Well	4.8	45	81-110	This stand was cut at the same time as the adjacent aspen stand to the south but came back mostly to white pine. There is also a nice representation of younger oak stump sprouts. Some scattered large white pine and red oak mixed in. Average ba/acre from 3 plots = 97 square feet.
141	42220 - Natural Jack Pine	Sapling Poor	6.7	28	Immature	Stand cut as part of Towersite Aspen (53-013-88-01), bought by Georgia Pacific. Browsing has eliminated most tree species from this stand. What remains is open-grown, poor quality jack pine and a lot of black cherry. This stand is almost more of a U type than anything else.
142	42200 - Natural White Pine	Sapling Medium	2.5	22	1-50	Previously a wildlife opening. Notes indicate it was last planted in 1982. White pine and spruce have filled in quite a bit, especially the west half. The NE part of the stand is still quite open and seems to be an occasionally used camping spot.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
144	4134 - Aspen, Spruce/Fir	Poletimber Medium	5.0	57	51-80	The aspen is not very nice quality but ready to harvest. Stand becomes more open to the north, with scattered spruce and fir. Jack pine mostly in a single clump in the SW portion. Average ba/acre from 4 plots = 83 square feet.
145	42200 - Natural White Pine	Poletimber Well	4.6	44	111-140	Nice stand of white pine poletimber with a few XL-sized white pine mixed in. Basswood mostly in a few clumps at the east end. Some poor quality aspen scattered here and there. Average ba/acre from 5 plots = 118 square feet.
147	42200 - Natural White Pine	Sawtimber Medium	1.7	77	1-50	Open stand with various sizes of white pine. The larger white pine have significant weevil damage.
151	42201 - Natural White Pine, Mixed Deciduous	Poletimber Well	1.7	49	141-170	Natural white pine stand with a wide mix of sizes giving this stand an uneven-aged appearance. Poletimber seems to be the most prevalent though. Average ba/acre from 4 plots = 150 square feet.



Stand	Cover Type	Acres	Managed Site	General Comments:
1	6220 - Alder/willow	10.1	No	
3	6220 - Alder/willow	15.7	No	Black River flows through the stand. Most trees are on the swamp edge or near Tin Shanty Road. Used to be a little black ash as well but it is all dead now.
7	622 - Lowland Shrub	3.3		Stand cut as part of "Three Ash Pine" timber sale, # 53-023-09-01, bought by Northern Timberlands. A little bit of aspen re-sprouting but otherwise the only regeneration that is present are those saplings that weren't cut during the harvest. Alder and cherry are coming in quite a bit.
9	500 - Water	0.9	No	Unnamed lake.
42	310 - Herbaceous Openland	2.0	No	Clumps of bigger trees are mostly at the south end. Quaking aspen trying to sprout in along the north and northeast edges.
53	6239 - Mixed Emergent Wetland	0.6	No	
57	6220 - Alder/willow	8.4	No	Black River flows through this stand. Some balsam poplar pockets at the north end.
58	320 - Upland Shrub	7.4	No	
62	6220 - Alder/willow	7.5	No	
64	320 - Upland Shrub	3.3	No	West side of the road is a G type and seems to be a popular camping spot. East side of the road isn't maintained and is filling in with white pine and cherry. Old notes indicate this was a managed opening at one point.
66	310 - Herbaceous Openland	8.9	No	Scattered clumps of pine along with a few hardwoods are present throughout this long linear stand. Northeast area has quaking aspen sprouts that are trying to take off. Far southwest part of stand is more of a U type as it used to be part of the adjacent aspen stand to the west but browsing knocked everything back. Maintain the larger overstory trees if this is converted to a maintained opening.
68	310 - Herbaceous Openland	1.3	Yes	Planted opening. The autumn olive appears to have been knocked back a little due to the past two cold winters. However, the autumn olive along the forested edges appear healthier and are encroaching into the adjacent stand.
74	310 - Herbaceous Openland	1.5	Yes	The autumn olive looks like it was mowed at one point and has since re-sprouted. There are two small seeps/ponds near the center of the stand. These should be protected if this site is managed.
76	622 - Lowland Shrub	6.7	No	Black River borders or flows through most of this stand.



Stand	Cover Type	Acres	Managed Site	General Comments:
77	320 - Upland Shrub	2.3	No	This stand slopes down towards the east. There is a small pocket of wet ground towards the west side and seems to drain down to the east, ending at a small seep in the SE corner of the stand.
78	320 - Upland Shrub	3.3	No	This stand was cut at the same time as the adjacent stand to the east but browsing has eliminated everything.
83	310 - Herbaceous Openland	2.4	Yes	Abandoned well site.
88	320 - Upland Shrub	1.0	No	Scenic overlook that was created for the High Country Pathway. Elk browse is doing a good job of keeping this open, although there are some maple and pine saplings starting to encroach down the slope on the west side.
97	6224 - Treed Bog	0.6	No	Treed bog, borderline forested. Quite a bit of blowdown.
104	310 - Herbaceous Openland	4.7	No	Stand was cut as part of Section 35 Aspen, #53-009-88-01. Browsing eliminated most regeneration and then Wildlife followed up by cutting all the white pine out. Even the ironwood and beech are heavily browsed.
114	3105 - Mixed Upland Herbaceous	3.8	No	Powerline
127	310 - Herbaceous Openland	6.9	Yes	Managed wildlife opening.
129	320 - Upland Shrub	4.9	No	This stand was a part of the adjacent stand to the east but browsing eliminated all regeneration after it was cut (Section 35 Aspen, #53-009-88-01). White pine is slowly filling in but a lot of the stems are showing early signs of weevil damage.
131	310 - Herbaceous Openland	0.4	No	Old landing
132	310 - Herbaceous Openland	5.4	Yes	Managed opening. A few islands of pine and aspen.
136	310 - Herbaceous Openland	0.5	No	Small opening on a slope. Possibly used to obtain gravel at one point?
143	310 - Herbaceous Openland	2.1	No	Abandoned well pad. Attempts to restore the site are being made. Knapweed is still present around the perimeter.
146	310 - Herbaceous Openland	7.5	No	2015 Pipeline corridor.  OPIC - FMD: 2006 THIS STAND CONSISTS OF THREE ABANDONED WELL SITES AND A PIPELINE CORRIDOR. AUTUMN OLIVE HAS BEEN PLANTED ON THE WELL SITES AND THE PIPELINE CORRIDOR AND IS DOING VERY WELL. THERE IS ALSO SPOTTED KNAPWEED AND ST. JOHN'S WART ON THESE AREAS, ESP PADS. THE 3 WELL SITES WHICH ARE PART OF THIS STAND WIL BE SCHEDULED TO RESTORATION.



Stand	Cover Type	Acres	Managed Site	General Comments:
148	310 - Herbaceous Openland	0.8	Yes	This stand appears to have been planted with rye in the past.
149	310 - Herbaceous Openland	0.7	Yes	It looks like this stand was planted with rye at one point.
150	310 - Herbaceous Openland	2.4	No	Old well site. White pine is mostly on the perimeter, with only a few in the middle.
152	3105 - Mixed Upland Herbaceous	2.2	No	