



Compartment Review Presentation

Pigeon River Country Forest Management Unit

Compartment 53030

Entry Year 2019

Acreage: 1,922

County Otsego

Management Area: Pigeon River Country

Revision Date: 2017-05-25

Stand Examiner: Greg Rekowski

Legal Description:

T32N R02W Sections 2, 11, and 14

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:

The majority of this Compartment is upland and dominated by four main soil types: Lindquist sand, Rubicon sand, Blue Lakes loamy sand, and Leelanau loamy sand.

Topography is generally flat to gently rolling with some steeper slopes present in the hardwood and oak stands in the far southeast corner. A few small wetlands and swamp conifer stands are found within water influence zones.

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

This Compartment is a solid block of state land, bordered to the north and south by private land.

Unique Natural Features:

A scenic overlook of the Sturgeon River Valley is located on Pickerel Lake Road.

Archeological, Historical, and Cultural Features:

The original site of the CCC Camp Vanderbilt is located south of Pickerel Lake Campground.

Special Management Designations or Considerations:

None identified.

Watershed and Fisheries Considerations:

Pickerel Lake is a designated trout lake. The Little Pigeon River, which is part of the natural river system of the Pigeon River, passes through the northeast corner of the Compartment. Pickerel Creek flows out of Pickerel Lake. Phillips Creek flows through the western part of Section 14.

Wildlife Habitat Considerations:

A Wildlife representative will be available for comment at the Open House and 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 600 feet. Beneath the glacial drift is the Devonian Antrim Shale that is quarried for cement products elsewhere in the State. Gravel pits are located 2 miles to the north and potential considered good. 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 but is four miles north of the Niagaran reef trend. The Antrim Shale is present and may have potential. The closest Antrim production is one mile to the west. 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 vehicle access throughout this Compartment.

Survey Needs:

None

Recreational Facilities and Opportunities:

Pickerel Lake State Forest Campground and an associated hiking trail are located on Pickerel Lake.

Fire Protection:

Fire risk is low to moderate in this Compartment with aspen and oak being the dominant cover types. Access is good in case of fire suppression needs. Many closed roads are accessible through locked gates.

Additional Compartment Information:

The following reports from the Inventory are attached:

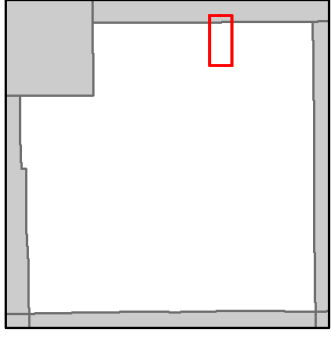
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

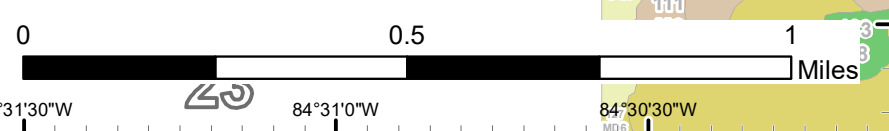
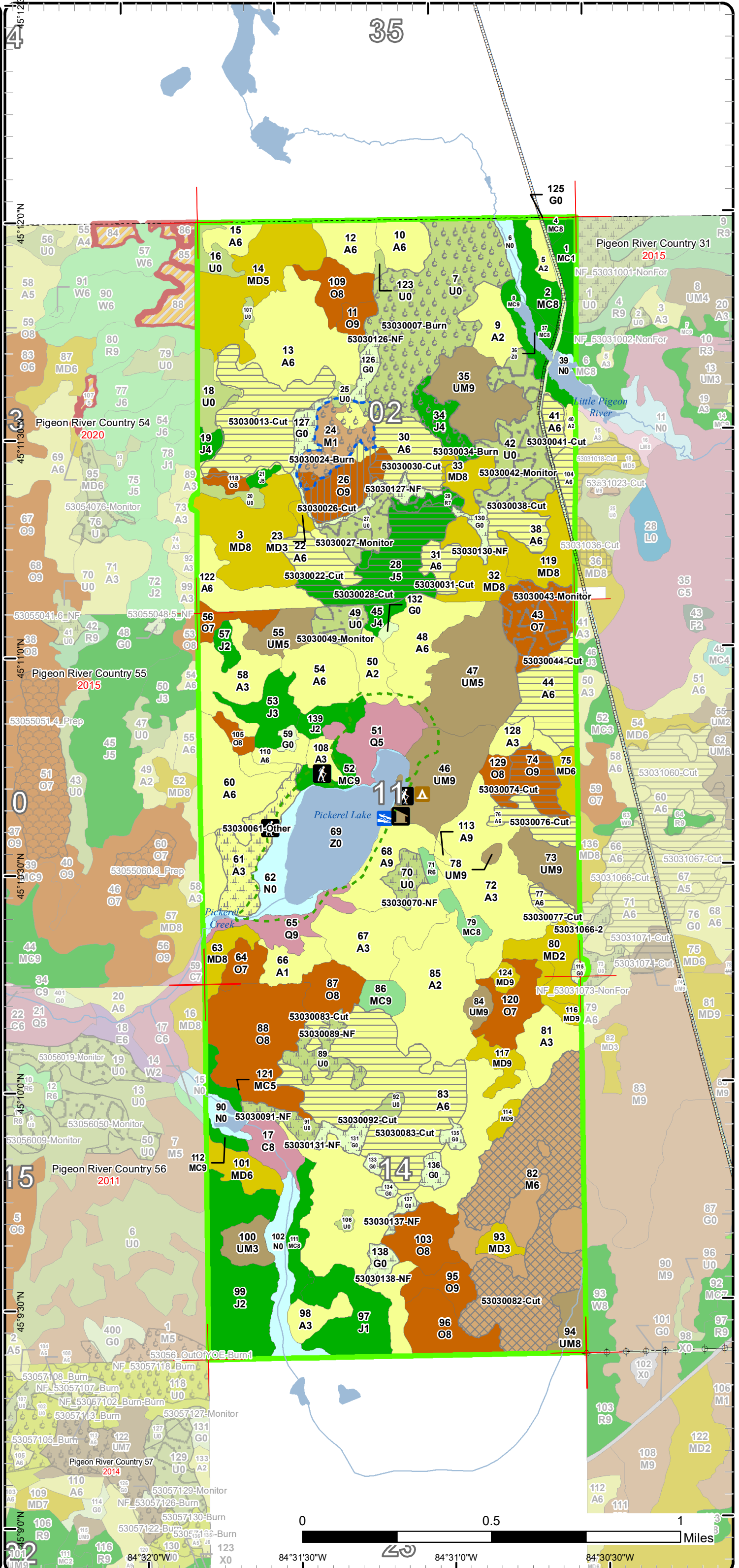
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

Cover Type & Treatments Map

Compartment: 30
 T32N, R02W, Sec. 02, 11, 14
 County: Otsego
 Unit: Pigeon River Country
 Mgmt Area: Pigeon River Country
 YOE: 2019
 Acres: 1922.2 GIS Calculated
 Examiner: Greg Rekowski
 Map Revised: 1/10/2018
 Map Phase: Post-Review

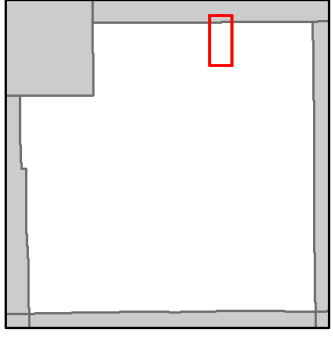


- Miris Corners
- Counties
- Toilet
- Boating Access Site
- Campground
- Bike Trails
- Hiking Trails
- Ski Trails
- Designated Hiking Trails
- Designated Bicycle Trails
- Designated Ski Trails
- Streams
- Lakes and Rivers All
- Pipeline
- Powerline
- Compartment Boundary
- Treatments with Site Conditions
- Other Treatment - See Comments
- Selection (Group, Single Tree)
- Clearcut (w/Reserves)
- Prescribed Burn
- Regeneration Survey
- Shelter Wood (w/Reserves)
- 411 - Northern Hardwood
- 412 - Oak Types
- 413 - Aspen Types
- 419 - Mixed Upland Deciduous
- 421 - Planted Pines
- 422 - Natural Pines
- 430 - Upland Mixed Forest
- 612 - Lowland Coniferous Forest
- 310 - Herbaceous Openland
- 320 - Upland Shrub
- 500 - Water
- 623 - Emergent Wetland
- Lakes

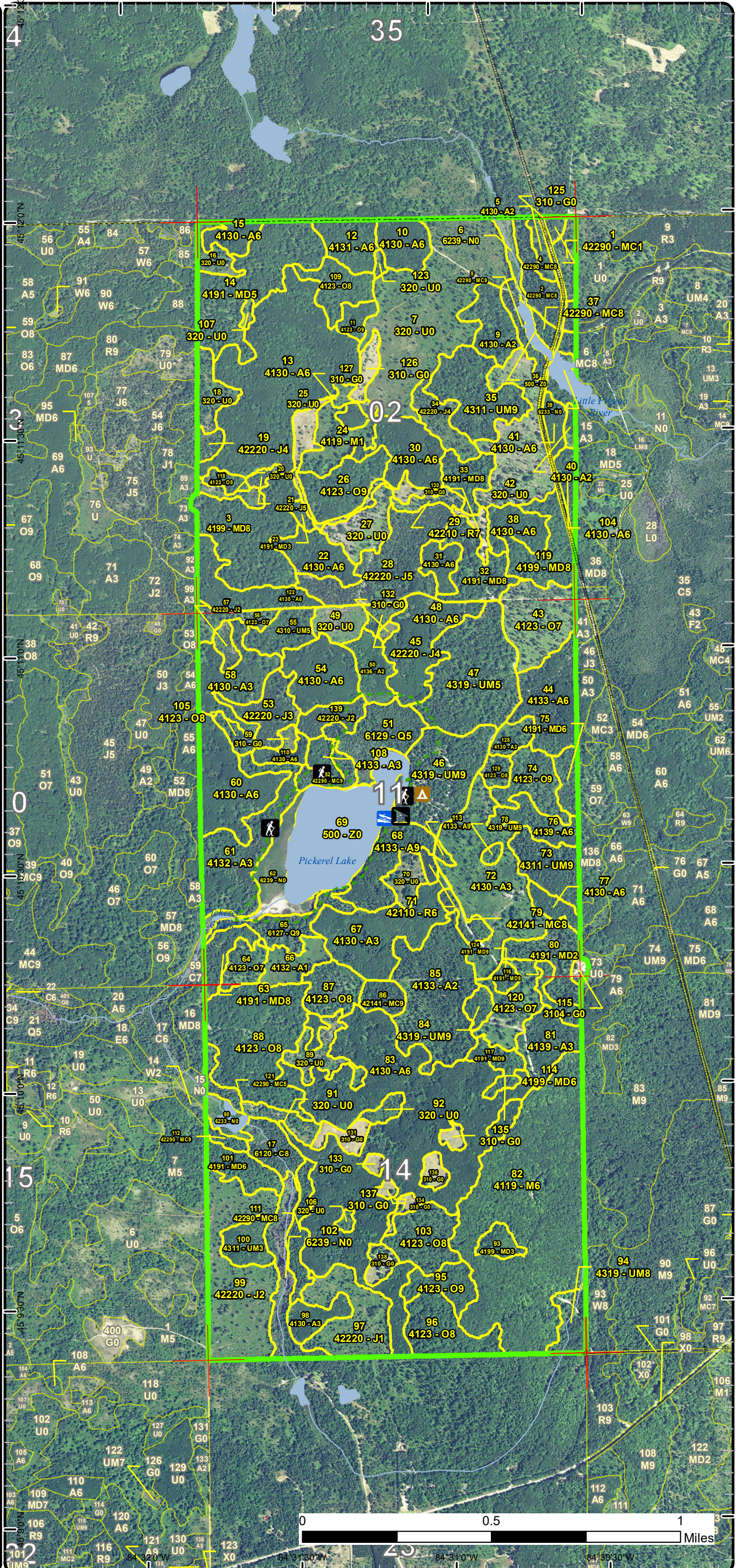


Stand Boundary Map

Compartment: 30
 T32N, R02W, Sec. 02, 11, 14
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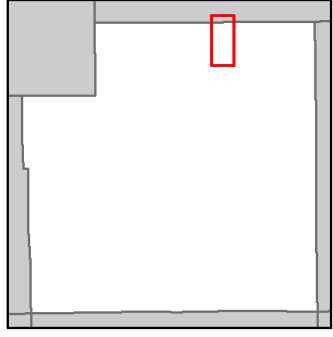


- Miris Corners
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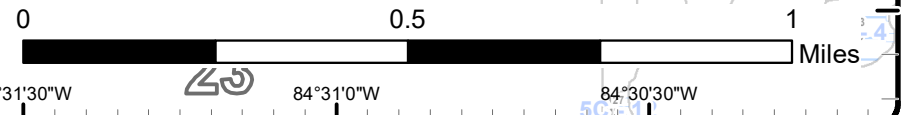
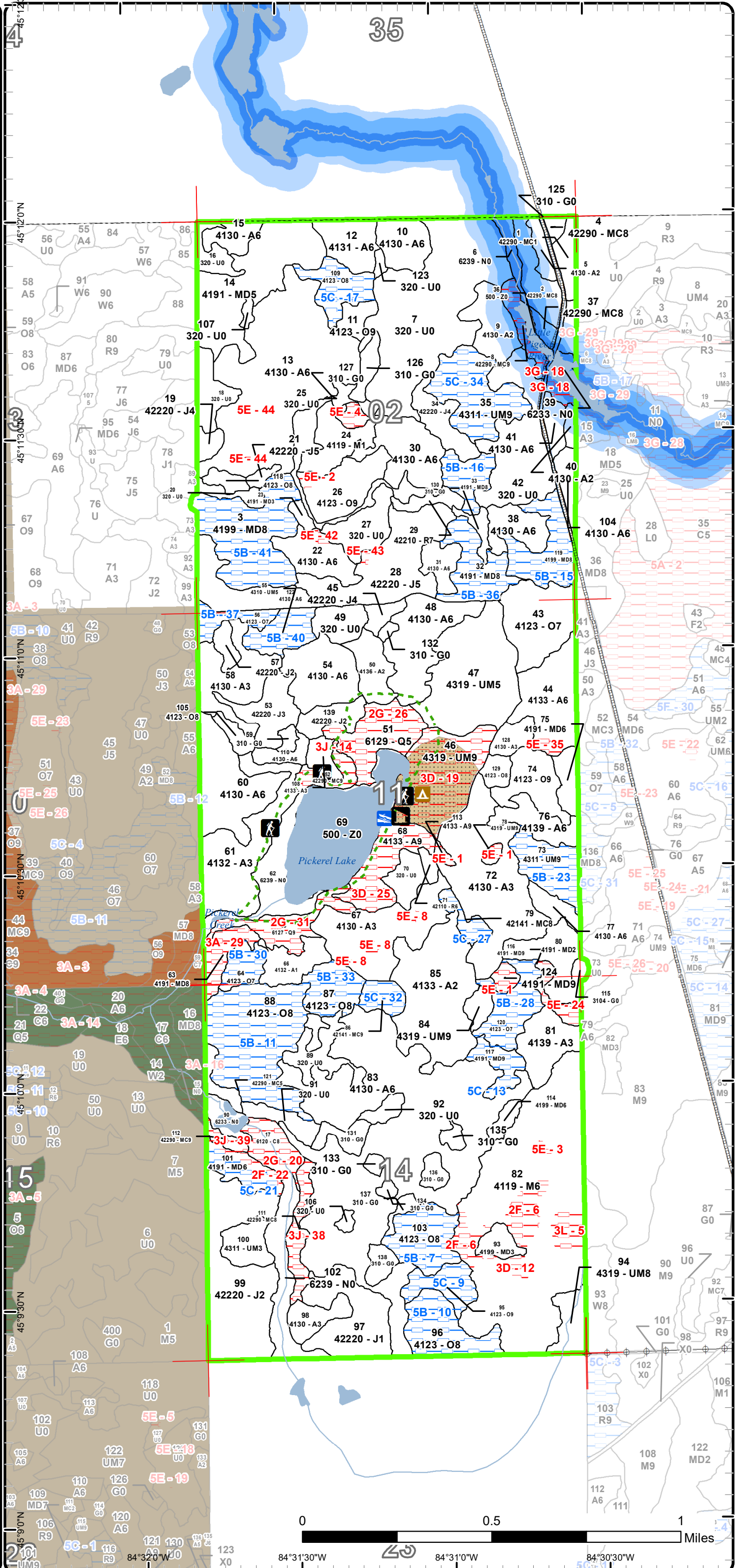


Special Conservation Areas & Site Conditions Map

Compartment: 30
 T32N, R02W, Sec. 02, 11, 14
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 YOE: 2019
 Acres: 1922.2 GIS Calculated
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 Map Revised: 1/10/2018
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- Designated Ski Trails
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- Pipeline
- Powerline
- Compartment Boundary
- SCA Proposed
- 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)
- 3A: Conservation Values incompatible with harvest at this time
- 3D: Recreational / Scenic values
- 3G: Other Influence zones - See comments
- 3J: Water quality / BMPs (stream, river, or lake)
- 3L: Other wildlife concerns
- 5E: Long-Term Retention
- Stand Boundaries
- Natural Rivers Vegetative Buffer
- Natural Rivers Zoning District
- Dedicated Management Areas
- Cold Water Streams
- Cold Water Lakes
- High Priority Trout Stream Buffer
- State Forest Campground
- Habitat Corridor
- Other Habitat Area



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 | 61 | 62 | 114 | 75 | 367 | 0 | 0 | 17 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 696 |
| Cedar | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 10 | 0 | 10 |
| Herbaceous Openland | 48 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 48 |
| Jack Pine | 0 | 67 | 0 | 24 | 7 | 43 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 143 |
| Lowland Conifers | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 32 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 32 |
| Marsh | 46 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 46 |
| Mixed Upland Deciduous | 0 | 0 | 0 | 14 | 7 | 46 | 0 | 0 | 0 | 68 | 42 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 177 |
| Natural Mixed Pines | 0 | 0 | 0 | 6 | 0 | 0 | 0 | 4 | 0 | 23 | 9 | 0 | 0 | 0 | 0 | 0 | 0 | 12 | 54 |
| Northern Hardwood | 0 | 13 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 116 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 128 |
| Oak | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 46 | 80 | 85 | 0 | 0 | 0 | 0 | 0 | 0 | 209 |
| Planted Mixed Pines | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 11 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 11 |
| Red Pine | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 6 |
| Upland Mixed Forest | 0 | 0 | 9 | 0 | 42 | 0 | 0 | 8 | 0 | 54 | 32 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 145 |
| Upland Shrub | 171 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 171 |
| Water | 46 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 46 |
| Total | 311 | 141 | 71 | 158 | 133 | 456 | 0 | 12 | 17 | 325 | 195 | 85 | 0 | 0 | 0 | 0 | 10 | 12 | 1922 |



Report 2 – Treatment Summary

Acres of Harvest

Commercial Harvest - 362
 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 | 206 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 206 |
| Jack Pine | 32 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 32 |
| Northern Hardwood | 0 | 94 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 94 |
| Oak | 14 | 0 | 0 | 0 | 14 | 0 | 0 | 0 | 0 | 28 |
| Upland Shrub | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 |
| Total | 255 | 94 | 0 | 0 | 14 | 0 | 0 | 0 | 0 | 363 |

Proposed and Next Step Treatments by Method

| | Harvest | Site Prep | Planting | Seeding | Burning | Pesticide | Monitoring | Other | Non-Forest Mgt. | Total Acres |
|------------------|------------|-----------|----------|----------|------------|-----------|------------|-----------|-----------------|-------------|
| Current | 363 | 0 | 0 | 0 | 98 | 0 | 77 | 20 | 59 | 617 |
| Next Step | 0 | 0 | 0 | 0 | 39 | 0 | 461 | 0 | 0 | 500 |
| Total | 363 | 0 | 0 | 0 | 137 | 0 | 538 | 20 | 59 | 1117 |



| Stand | Treatment Name | Acres | Stand CoverType | Size Density | Stand Age | BA Range | Treatment Type | Treatment Method | Cover Type Objective | Age Structure | Approval Status |
|-------|-------------------------|-------|-----------------|--------------------|-----------|----------|----------------|------------------|---|---------------|-----------------|
| 104 | 53030_OutOfY OE-Cut1 | 5.1 | 4130 - Aspen | Poletimber Well | 43 | 51-80 | Harvest | Clearcut | 4199 - Other Mixed Upland Deciduous | Even-Aged | Field Boundary |

Habitat Cut: No

Site Condition:

Prescription -Clearcut all aspen and red maple. Leave all other species.

Specs: -No retention needed due to the small size of the stand.

Next Step Burn, Understory; Monitoring, Natural Regen (Intermediate)

Treatments:

Acceptable Regen: Acceptable regeneration will be any mix of species resulting in at least a medium stocked stand.

Other Comment: -This stand will be cut and burned along with stands 18, 23, 25, and 36 in Compartment 31. Old next step comments: -Acceptable regeneration will be any mix of species resulting in at least a medium stocked stand.

-Regen check at the appropriate interval.

-Burn this stand after harvest with the objective of promoting a seed bed for oak regeneration.

Proposed Start Date: 10/01/2014

| | | | | | | | | | | | |
|---|-------------------|------|--------------------|------------|---|-----------------|------|---------|-----------------------|--|-------------------------|
| 7 | 53030007- Burn | 70.7 | 320 - Upland Shrub | Nonstocked | 0 | Unspec ified | Burn | Opening | 320 - Upland Shrub | | Draft Field Boundary |
|---|-------------------|------|--------------------|------------|---|-----------------|------|---------|-----------------------|--|-------------------------|

Habitat Cut: No

Site Condition:

Prescription Burn this stand to maintain it as a natural opening and to mimic a pine barrens natural community. A mosaic type of burn is acceptable. A few large patches of hawthorn are present near Pickerel Lake Road which should be protected. Refer to the MNFI Pine Barrens for further guidance. Burn this stand on a ten year interval.

Next Step Monitoring, Other - Specify

Treatments:

Acceptable Regen:

Other Comment: WLD is funding this burn.

Proposed Start Date: 10/01/2017

| | | | | | | | | | | | |
|----|--------------|------|--------------|--------------------|----|--------|---------|----------------------------|-------------|-----------|----------------|
| 13 | 53030013-Cut | 39.1 | 4130 - Aspen | Poletimber Well | 42 | 81-110 | Harvest | Clearcut with Retention | 413 - Aspen | Even-Aged | Field Boundary |
|----|--------------|------|--------------|--------------------|----|--------|---------|----------------------------|-------------|-----------|----------------|

Habitat Cut: No

Site Condition:

Prescription Clearcut all species except for all incidental white pine, red pine, and birch. Mark to leave 3-5 red oak per acre, in clumps if possible. If present, leave any oak advanced regeneration, trees less than 10 inches DBH. Utilize retention to protect a few of the pockets dominated by oak.

Next Step Monitoring, Natural Regen (Intermediate)

Treatments:

Acceptable Regen: At least a medium-stocked stand with maple, oak, and pine being acceptable associates. Browse resulting in a less than medium-stocked stand should not be accepted.

Other Comment: Winter cut only to try and alleviate browsing concerns and to minimize damage to the opening to the east which will be used for a haul road.

Deck wood inside the stand boundary.Add brush pile and drumming log specs.

Proposed Start Date: 10/01/2017

| | | | | | | | | | | | |
|----|--------------|------|--------------|--------------------|----|--------|---------|----------------------------|-------------|-----------|-------------------------|
| 22 | 53030022-Cut | 11.7 | 4130 - Aspen | Poletimber Well | 43 | 81-110 | Harvest | Clearcut with Retention | 413 - Aspen | Even-Aged | Draft Field Boundary |
|----|--------------|------|--------------|--------------------|----|--------|---------|----------------------------|-------------|-----------|-------------------------|

Habitat Cut: No

Site Condition:

Prescription Cut all species except leave 1-3 of the best quality oak per acre. Leave some in clumps if possible. Put area retention at the far north end where there is a small pocket of nearly pure oak.

Next Step Monitoring, Natural Regen (Intermediate)

Treatments:

Acceptable Regen: Well-stocked stand that meets minimum stocking guidelines for aspen. Any additional mix of species in the remaining regeneration will be acceptable. If browse results in a less than well-stocked stand consult with TMS and WLD Biologist and leave the option open to plant additional trees to achieve full stocking.

Other Comment: Based on the browse damage that is occurring in stand 27 to the east, there is a high likelihood of heavy browse damage here.

Add brush pile and drumming log spec.

Proposed Start Date: 10/01/2018



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| Stand | Treatment Name | Acres | Stand CoverType | Size Density | Stand Age | BA Range | Treatment Type | Treatment Method | Cover Type Objective | Age Structure | Approval Status |
|-------|----------------|-------|---------------------------------|--------------|-----------|----------|----------------|------------------|----------------------------|---------------|----------------------|
| 24 | 53030024-Burn | 17.8 | 4119 - Mixed Northern Hardwoods | Sapling Poor | 7 | Immature | Burn | Understory | 4319 - Mixed Upland Forest | Even-Aged | Draft Field Boundary |

Habitat Cut: No **Site Condition:** Long-Term Retention

Prescription Understory burn in conjunction with adjacent stands. Ensure overstory white pine, red pine and oak are not killed. This will be a one-time burn of this stand unless follow-up regen survey indicates inadequate regen. If that is the case then consider burning again when stand 7 is burned.
Specs:

Next Step Monitoring, Natural Regen (Intermediate)
Treatments:

Acceptable Regen:

Other Comment: WLD is funding this burn. Control line on the west side will be the opening (stand 127).

Proposed Start Date: 10/01/2017

| | | | | | | | | | | | |
|----|--------------|------|----------------|----------------|-----|--------|---------|-------------|-------------------------------------|----------|----------------|
| 26 | 53030026-Cut | 14.0 | 4123 - Red Oak | Sawtimber Well | 103 | 81-110 | Harvest | Shelterwood | 4199 - Other Mixed Upland Deciduous | Two-Aged | Field Boundary |
|----|--------------|------|----------------|----------------|-----|--------|---------|-------------|-------------------------------------|----------|----------------|

Habitat Cut: No **Site Condition:**

Prescription Mark to leave 20-30 square feet per acre in red oak. Leave the largest and healthiest trees. Exclude the far northwestern corner as retention as it is a pocket of smaller aspen and oak. Leave all incidental pine and birch. Start date has been moved up to 2018 POW. Add specs to get this stand cut in the winter of 2017-18. A burn is scheduled to take place in the stand following harvest in the spring of 2018. However if the burn is delayed a year for whatever reason, then remove the burn prescription from this stand so the new regeneration isn't harmed.
Specs:

Next Step Burn, Understory; Monitoring, Natural Regen (Intermediate)
Treatments:

Acceptable Regen: At least a medium-stocked stand with a combination of maple, aspen, oak, and pine being acceptable. Browse resulting in less than a medium-stocked should not be accepted.

Other Comment: Winter cut to try and alleviate browse concerns and also to minimize damage to the adjacent G type to the south which will have to be used as a haul road. Deck wood inside the stand but do not build a new landing inside the stand boundary.

Proposed Start Date: 10/01/2017

| | | | | | | | | | | | |
|----|------------------|------|--------------------|------------|---|-------------|------------|------------------------------|-------------|-----------|----------------|
| 27 | 53030027-Monitor | 12.0 | 320 - Upland Shrub | Nonstocked | 0 | Unspecified | Monitoring | Natural Regen (Intermediate) | 413 - Aspen | Even-Aged | Field Boundary |
|----|------------------|------|--------------------|------------|---|-------------|------------|------------------------------|-------------|-----------|----------------|

Habitat Cut: No **Site Condition:**

Prescription Natural regen survey.
Specs:

Next Step
Treatments:

Acceptable Regen: Meets aspen regen stocking guidelines.

Other Comment:

Proposed Start Date: 10/01/2019



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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 |
|-----------------|-------|---------------------------|-------------------|-----------|----------|----------------|-------------------------|--------------------------|---------------|----------------------|
| 28 53030028-Cut | 31.8 | 42220 - Natural Jack Pine | Poletimber Medium | 43 | 51-80 | Harvest | Clearcut with Retention | 4222 - Natural Jack Pine | Even-Aged | Draft Field Boundary |

Habitat Cut: No

Site Condition:

Prescription Cut all species except leave all red pine and oak and also leave any white pine over 10 inches DBH. Mark to leave 1 clump of 2-3 jack pine trees per acre to provide an additional seed source. Retain all snags. One retention pocket has been added to MiFI on the NW side. Add 1-2 more additional pockets (<0.5 acre).
Specs:

Next Step Monitoring, Natural Regen (Intermediate)

Treatments:

Acceptable Regen: Jack pine that meets minimum stocking guidelines. Any additional mix of species in the remaining regeneration will be acceptable. Consult with TMS and WLD Biologist if stand falls below stocking guidelines and leave the option open for follow-up planting.

Other Comment: Require whole-tree harvesting in snow-free months (May-November) to maximize ground scarification. Request loggers to utilize numerous skid trails to spread out scarification as much as possible.

Use the same landing as was used for stand 27 adjacent to the north.

Oak saplings are rare but add a provision in the specs to protect them.

Proposed Start Date: 10/01/2018

| | | | | | | | | | | |
|---------------------|-----|--------------------------|----------------|----|------|------------|------------------------------|----------------------------|----------|----------------|
| 29 53030029-Monitor | 4.0 | 42210 - Natural Red Pine | Sawtimber Poor | 83 | 1-50 | Monitoring | Natural Regen (Intermediate) | 4319 - Mixed Upland Forest | Two-Aged | Field Boundary |
|---------------------|-----|--------------------------|----------------|----|------|------------|------------------------------|----------------------------|----------|----------------|

Habitat Cut: No

Site Condition:

Prescription Natural regen survey

Specs:

Next Step

Treatments:

Acceptable Regen: RED, WHITE AND JACK PINE AS WELL AS ASPEN RED MAPLE AND OAK WOULD BE ACCEPTABLE FOR REPRODUCTION.

Other

Comment:

Proposed Start Date: 10/01/2019

| | | | | | | | | | | |
|-----------------|------|--------------|-----------------|----|---------|---------|-------------------------|-------------|-----------|----------------|
| 30 53030030-Cut | 20.0 | 4130 - Aspen | Poletimber Well | 43 | 111-140 | Harvest | Clearcut with Retention | 413 - Aspen | Even-Aged | Field Boundary |
|-----------------|------|--------------|-----------------|----|---------|---------|-------------------------|-------------|-----------|----------------|

Habitat Cut: No

Site Condition:

Prescription Clearcut all species except for any incidental oak, pine, or birch. Retention will be the far western island of the stand. Start date has been moved up to 2018 POW. Add specs to get this stand cut in the winter of 2017-18. A burn is scheduled to take place in the stand following harvest in the spring of 2018. However if the burn is delayed a year for whatever reason, then remove the burn prescription from this stand so the new regeneration isn't harmed.
Specs:

Next Step Monitoring, Natural Regen (Re-Inventory); Burn, Understory

Treatments:

Acceptable Regen: At least a medium-stocked stand dominated by aspen with red maple, pine, and oak being acceptable associates. Browse resulting in a less than medium-stocked stand is not acceptable.

Other Comment: Winter cut only to try to alleviate browse concerns and to minimize damage to the G type to the south which will be used as a haul road. Deck wood inside the stand but do not build a landing inside the stand boundary. Add brush pile and drumming log spec.

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 |
|-----------------------|-------------------|-------|--------------------|--------------------|--------------|-------------|-------------------|---------------------|-------------------------|------------------|-------------------------|
| 31 | 53030031-Cut | 6.5 | 4130 - Aspen | Poletimber Well | 43 | 81-110 | Harvest | Clearcut | 413 - Aspen | Even-Aged | Draft Field Boundary |

Habitat Cut: No

Site Condition:

Prescription Clearcut all species except leave 1-3 of the best quality oak and pine per acre. No area retention due to the small size of the stand.
Specs:

Next Step Monitoring, Natural Regen (Intermediate)
Treatments:

Acceptable Well-stocked stand that meets minimum stocking guidelines for aspen. Any additional mix of species in the remaining regeneration will be
Regen: acceptable. If browse results in a less than well-stocked stand consult with TMS and WLD Biologist and leave the option open to plant additional trees to achieve full stocking.

Other High likelihood of heavy browse damage here.
Comment:

Proposed Start Date: 10/01/2018

| | | | | | | | | | | | |
|----|---------------|-----|------------------------------|--------------------|----|------|------|------------|-------------------------------|-----------|-------------------------|
| 34 | 53030034-Burn | 9.8 | 42220 - Natural Jack Pine | Poletimber Poor | 43 | 1-50 | Burn | Understory | 42290 - Natural Mixed Pine | Even-Aged | Draft Field Boundary |
|----|---------------|-----|------------------------------|--------------------|----|------|------|------------|-------------------------------|-----------|-------------------------|

Habitat Cut: No

Site Condition:

Prescription Understory burn in conjunction with adjacent stands. Ensure red pine and oak are not killed. This will be a one-time burn of this stand unless
Specs: follow-up regen survey indicates inadequate regen. If that is the case then consider burning again when stand 7 is burned.

Next Step Monitoring, Natural Regen (Intermediate)
Treatments:

Acceptable
Regen:

Other WLD is funding this burn.
Comment:

Proposed Start Date: 10/01/2017

| | | | | | | | | | | | |
|----|--------------|------|--------------|--------------------|----|--------|---------|----------|-------------|-----------|-------------------------|
| 38 | 53030038-Cut | 10.1 | 4130 - Aspen | Poletimber Well | 43 | 81-110 | Harvest | Clearcut | 413 - Aspen | Even-Aged | Draft Field Boundary |
|----|--------------|------|--------------|--------------------|----|--------|---------|----------|-------------|-----------|-------------------------|

Habitat Cut: No

Site Condition:

Prescription Clearcut with no area retention due to the small size of the stand. Cut all trees except for any oak, red pine, or white pine. Mark to leave some of
Specs: the larger aspen that shows sign of decay, target 1 per acre. Protect any oak saplings/poletimber that are present.

Next Step Monitoring, Natural Regen (Intermediate)
Treatments:

Acceptable Regeneration that meets aspens stocking guidelines. Any additional mix of pine, maple, and oak is acceptable.
Regen:

Other Recommend a dormant season harvest (fall/winter) to minimize browsing impacts.
Comment:

After harvest, ensure that the illegal ORV trail which cuts through the stand is closed.

Proposed Start Date: 10/01/2018

| | | | | | | | | | | | |
|----|--------------|-----|--------------|--------------------|----|------|---------|----------|-------------|-----------|-------------------------|
| 41 | 53030041-Cut | 4.7 | 4130 - Aspen | Poletimber Well | 43 | 1-50 | Harvest | Clearcut | 413 - Aspen | Even-Aged | Draft Field Boundary |
|----|--------------|-----|--------------|--------------------|----|------|---------|----------|-------------|-----------|-------------------------|

Habitat Cut: No

Site Condition:

Prescription Clearcut with no area retention due to the small size of the stand. Cut all species except for red pine and white pine. Mark to leave 1 large-
Specs: crowned oak per acre.

Next Step Monitoring, Natural Regen (Intermediate)
Treatments:

Acceptable Aspen regeneration that meets the minimum stocking guidelines for aspen. Any additional mix of oak, maple, and pine will be acceptable.
Regen:

Other - Add this stand as an amendment to the adjacent Mud Lake Mix sale (#53-005-15-01) which is already set-up and sold to Precision. Mud Lake
Comment: Mix sale consists of stand 104 in Comp 30 and then several adjacent stands to the east in Comp 31.

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 |
|-----------------------|------------------|-------|--------------------|--------------|-----------|-------------|----------------|------------------------------|----------------------|---------------|-----------------|
| 42 | 53030042-Monitor | 30.8 | 320 - Upland Shrub | Nonstocked | 0 | Unspecified | Monitoring | Natural Regen (Intermediate) | 413 - Aspen | Even-Aged | Field Boundary |

Habitat Cut: No **Site Condition:**

Prescription Natural regen survey

Specs:

Next Step

Treatments:

Acceptable Meets aspen regen stocking guidelines.

Regen:

Other

Comment:

Proposed Start Date: 10/01/2019

| | | | | | | | | | | | |
|----|------------------|------|----------------|----------------|-----|------|------------|------------------------------|----------------------------|----------|----------------|
| 43 | 53030043-Monitor | 22.5 | 4123 - Red Oak | Sawtimber Poor | 108 | 1-50 | Monitoring | Natural Regen (Intermediate) | 4319 - Mixed Upland Forest | Two-Aged | Field Boundary |
|----|------------------|------|----------------|----------------|-----|------|------------|------------------------------|----------------------------|----------|----------------|

Habitat Cut: No **Site Condition:**

Prescription Natural regen survey.

Specs:

Next Step

Treatments:

Acceptable A MIXTURE OF SPECIES WILL BE ACCEPTABLE FOR REPRODUCING THE STAND, SUCH AS OAK, RED MAPLE, ASPEN, AND RED WHITE AND JACK PINE.

Regen:

Other

Comment:

Proposed Start Date: 10/01/2019

| | | | | | | | | | | | |
|----|--------------|------|--------------------------|-----------------|----|--------|---------|-------------------------|-------------|-----------|----------------------|
| 44 | 53030044-Cut | 21.0 | 4133 - Aspen, Mixed Pine | Poletimber Well | 49 | 81-110 | Harvest | Clearcut with Retention | 413 - Aspen | Even-Aged | Draft Field Boundary |
|----|--------------|------|--------------------------|-----------------|----|--------|---------|-------------------------|-------------|-----------|----------------------|

Habitat Cut: No **Site Condition:**

Prescription Cut all species except for oak. Mark to leave 3-5 of the largest red and white pine per acre, concentrate more of these along Pickerel Lake Road for visual purposes. Retain all jack pine snags. Mark to leave a few of the larger aspen that have large amounts of rot, target 1 per acre.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable A fully-stocked stand that meets aspen regeneration guidelines. A component of pine, oak, and maple will also be acceptable.

Regen:

Other

Comment: -Recommend but not require a full-tree harvest operation to increase ground scarification to get some pine regeneration. Protect the few oak saplings that are present. Dormant season harvest (fall/winter) to minimize browsing impacts.

-Area retention has already been excluded and is at the far south end.

-Put the landing at the far northeast end of stand 128 (A3) where browsing has impacted regeneration and has created a semi-open area.

Proposed Start Date: 10/01/2018

| | | | | | | | | | | | |
|----|------------------|-----|--------------------|------------|---|-------------|------------|------------------------------|----------------------------|-----------|----------------|
| 49 | 53030049-Monitor | 7.8 | 320 - Upland Shrub | Nonstocked | 0 | Unspecified | Monitoring | Natural Regen (Intermediate) | 4319 - Mixed Upland Forest | Even-Aged | Field Boundary |
|----|------------------|-----|--------------------|------------|---|-------------|------------|------------------------------|----------------------------|-----------|----------------|

Habitat Cut: No **Site Condition:**

Prescription Natural regen survey.

Specs:

Next Step

Treatments:

Acceptable A MIXTURE OF SPECIES WILL BE ACCEPTABLE FOR REPRODUCING THE STAND, SUCH AS OAK, RED MAPLE, ASPEN, AND RED WHITE AND JACK PINE.

Regen:

Other

Comment:

Proposed Start Date: 10/01/2019



| Stand Name | Treatment Name | Acres | Stand CoverType | Size Density | Stand Age | BA Range | Treatment Type | Treatment Method | Cover Type Objective | Age Structure | Approval Status |
|------------|----------------|-------|-------------------------|--------------|-----------|----------|----------------|------------------|----------------------|---------------|----------------------|
| 61 | 53030061-Other | 20.2 | 4132 - Aspen, Jack Pine | Sapling Well | 26 | Immature | Other | Other | 4131 - Aspen, Oak | Even-Aged | Draft Field Boundary |

Habitat Cut: No**Site Condition:**

Prescription TSI - Release suppressed red and white oak saplings that are being overtopped by aspen, red maple, and jack pine saplings. Using chainsaws or handsaws, cut the 2 nearest competitors (or more) of the oak sapling to allow better growth. Oak saplings that have crowns in the co-dominant canopy position do not need to be released.

Next Step
Treatments:

Acceptable
Regen:

Other This would be a good project for a volunteer work crew.

Comment: Add signage along Pathway to warn recreational users of work activity.

Proposed Start Date: 10/01/2017

| | | | | | | | | | | | |
|----|-------------|-----|--------------------|------------|--|-------------|--------------|-----------------|---------------------------|--|----------------------|
| 70 | 53030070-NF | 6.5 | 320 - Upland Shrub | Nonstocked | | Unspecified | NonForestMgt | Other - Specify | 310 - Herbaceous Openland | | Draft Field Boundary |
|----|-------------|-----|--------------------|------------|--|-------------|--------------|-----------------|---------------------------|--|----------------------|

Habitat Cut: No**Site Condition:**

Prescription Remove invasive species and restore. Mow, brush, burn, or herbicide to maintain opening and restore. Take into account SHIPO concerns.

Specs:

Next Step
Treatments:

Acceptable
Regen:

Other
Comment:

Proposed Start Date: 10/01/2018

| | | | | | | | | | | | |
|----|--------------|------|----------------|----------------|-----|--------|---------|----------|----------------|-----------|----------------------|
| 74 | 53030074-Cut | 13.5 | 4123 - Red Oak | Sawtimber Well | 103 | 81-110 | Harvest | Clearcut | 4123 - Red Oak | Even-Aged | Draft Field Boundary |
|----|--------------|------|----------------|----------------|-----|--------|---------|----------|----------------|-----------|----------------------|

Habitat Cut: No**Site Condition:**

Prescription Clearcut with scattered small retention pockets. Leave all pine over 10" DBH. Mark to leave a few of the poor-quality aspen to serve as future snag material.

Specs:

Next Step Monitoring, Natural Regen (Intermediate)
Treatments:

Acceptable Regeneration that meets the stocking guidelines for oak.
Regen:

Other -Recommend a dormant season harvest (fall/winter) to minimize browsing impacts.

Comment: -Landing placement should be at the far northeast end of stand 128 (A3 stand) where browsing has impacted regeneration and has created a semi-open area.

Proposed Start Date: 10/01/2018

| | | | | | | | | | | | |
|----|--------------|------|-------------------------------|-----------------|----|-------|---------|-------------------------|-------------|-----------|----------------------|
| 76 | 53030076-Cut | 10.1 | 4139 - Aspen, Mixed Deciduous | Poletimber Well | 49 | 51-80 | Harvest | Clearcut with Retention | 413 - Aspen | Even-Aged | Draft Field Boundary |
|----|--------------|------|-------------------------------|-----------------|----|-------|---------|-------------------------|-------------|-----------|----------------------|

Habitat Cut: No**Site Condition:**

Prescription Clearcut with scattered small pockets of area retention. Mark to leave some of the larger, poor-quality aspen. Exclude the far east end where diameters are very small. Add drumming log spec.

Specs:

Next Step Monitoring, Natural Regen (Intermediate)
Treatments:

Acceptable Regeneration that meets aspen stocking guidelines. Any additional mix of red maple, oak, and pine will be acceptable.
Regen:

Other -Recommend a dormant season harvest (fall/winter) to minimize browsing impacts.

Comment: -Landing placement should be at the far northeast end of stand 128 (A3 stand) where browsing has impacted regeneration and has created a semi-open area.

Proposed Start Date: 10/01/2018



| Stand | Treatment Name | Acres | Stand CoverType | Size Density | Stand Age | BA Range | Treatment Type | Treatment Method | Cover Type Objective | Age Structure | Approval Status |
|-------|----------------|-------|-----------------|-----------------|-----------|----------|----------------|------------------|----------------------|---------------|-----------------|
| 77 | 53030077-Cut | 4.2 | 4130 - Aspen | Poletimber Well | 49 | 81-110 | Harvest | Clearcut | 413 - Aspen | Even-Aged | Field Boundary |

Habitat Cut: No Site Condition:

Prescription Clearcut with no area retention due to the small size of the stand. Cut all species except mark to leave 1-3 of the largest oak and pine per acre.
Specs:

Next Step Monitoring, Natural Regen (Intermediate)
Treatments:

Acceptable Regen: Aspen regeneration that meets minimum aspen stocking guidelines. Any additional mix of oak, pine, and maple will be acceptable.

Other Comment: - A portion of the southeast end of this stand is part of the Sightline Aspen sale (#53-006-15-01) which is already set-up and sold to Precision and is adjacent to the east in Compartment 31.
- Add the remainder of this stand as an amendment to the adjacent Sightline Aspen sale.

Proposed Start Date: 10/01/2017

| | | | | | | | | | | | |
|----|--------------|------|---------------------------------|-----------------|----|---------|---------|-----------------------|-------------------------|-------------|----------------|
| 82 | 53030082-Cut | 93.6 | 4119 - Mixed Northern Hardwoods | Poletimber Well | 89 | 111-140 | Harvest | Single Tree Selection | 411 - Northern Hardwood | Uneven-Aged | Field Boundary |
|----|--------------|------|---------------------------------|-----------------|----|---------|---------|-----------------------|-------------------------|-------------|----------------|

Habitat Cut: No Site Condition:

Prescription Thin stand to 80-90 square feet. Remove most of the beech, except retain large diameter wildlife trees and those exhibiting no signs of BBD.
Specs: Create large canopy gaps where opportunities exist, target those areas heavy to beech. For the remainder of the stand focus marking on trees below the 16" size classes and apply the standard hardwood marking guidelines (see QD report for stocking by size class). Do not mark any pine or in hemlock pockets.

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

Acceptable Regen: Canopy gaps filled with maple, basswood, oak, birch, and pine will be considered a success. Beech and ironwood will not be acceptable.

Other Comment: Exclude steep slopes and areas of low stocking. Buffer the active RSH nest. Exclude a small area directly adjacent to the scenic vista pull-off.
Expect treatment boundaries to differ from what is currently shown due to slopes and areas of low stocking.

Proposed Start Date: 10/01/2016

| | | | | | | | | | | | |
|----|--------------|------|--------------|-----------------|----|--------|---------|-------------------------|-------------|-----------|----------------------|
| 83 | 53030083-Cut | 73.4 | 4130 - Aspen | Poletimber Well | 45 | 81-110 | Harvest | Clearcut with Retention | 413 - Aspen | Even-Aged | Draft Field Boundary |
|----|--------------|------|--------------|-----------------|----|--------|---------|-------------------------|-------------|-----------|----------------------|

Habitat Cut: No Site Condition:

Prescription Cut all species except for any incidental oak, red pine, white pine, or birch. Mark to leave aspen trees with lots of rot as future snags and coarse woody debris, target 1 per acre. Add brush pile and drumming log spec.

Next Step Monitoring, Natural Regen (Intermediate)
Treatments:

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

Other Comment: - Winter harvest only to try and alleviate browse concerns. Utilize the road that runs through the G types as a haul road and then put the landing in stand 92 (U type). Winter harvest should minimize damage to the openings.
- No new roads, use existing roads. Protect the integrity of the old railroad grade by limiting the number of crossings to only a few spots.

Proposed Start Date: 10/01/2018

| | | | | | | | | | | | |
|----|-------------|------|--------------------|------------|----|------|--------------|-----------------|---------------------------|--|----------------------|
| 89 | 53030089-NF | 10.0 | 320 - Upland Shrub | Nonstocked | 45 | 1-50 | NonForestMgt | Other - Specify | 310 - Herbaceous Openland | | Draft Field Boundary |
|----|-------------|------|--------------------|------------|----|------|--------------|-----------------|---------------------------|--|----------------------|

Habitat Cut: No Site Condition:

Prescription Mow, plant, brush,burn, or herbicide to maintain openings. Plant hard or soft mast.
Specs:

Next Step Treatments:

Acceptable Regen:

Other Comment:

Proposed Start Date: 10/01/2018



| 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 |
|-----------------------|----------------|-------|--------------------|--------------|-----------|--------------|----------------|------------------|---------------------------|---------------|----------------------|
| 91 | 53030091-NF | 6.0 | 320 - Upland Shrub | Nonstocked | 45 | 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 openings. Plant hard or soft mast.

Specs:

Next Step

Treatments:

Acceptable

Regen:

Other

Comment:

Proposed Start Date: 10/01/2018

| | | | | | | | | | | | |
|----|--------------|-----|--------------------|------------|----|--------------|---------|----------|---------------------------|--|----------------------|
| 92 | 53030092-Cut | 3.3 | 320 - Upland Shrub | Nonstocked | 45 | Unspec ified | Harvest | Clearcut | 310 - Herbaceous Openland | | Draft Field Boundary |
|----|--------------|-----|--------------------|------------|----|--------------|---------|----------|---------------------------|--|----------------------|

Habitat Cut: No

Site Condition:

Prescription Cut all species and lump in with surrounding aspen harvest. Protect any oak saplings that are present.

Specs:

Next Step

Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable

This harvest is intended to set back woody vegetation and so a non-forested stand is acceptable.

Regen:

Other

Comment:

Proposed Start Date: 10/01/2018

| | | | | | | | | | | | |
|-----|-------------|-----|-----------------|------------|---|--------------|--------------|-----------------|---------------------------|--|----------------------|
| 115 | 53030115-NF | 0.9 | 3104 - Degraded | 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 openings. Plant hard or soft mast. Incorporate any tree plantings and opening work in an effort to stop the RDR.

Specs:

Next Step

Treatments:

Acceptable

Regen:

Other

Comment:

Proposed Start Date: 10/01/2018

| | | | | | | | | | | | |
|-----|-------------|-----|---------------------------|------------|--|--------------|--------------|-----------------|---------------------------|--|----------------------|
| 126 | 53030126-NF | 4.5 | 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 openings. Plant hard or soft mast.

Specs:

Next Step

Treatments:

Acceptable

Regen:

Other

Comment:

Proposed Start Date: 10/01/2018



| 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 | 53030127-NF | 10.5 | 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 openings. Plant hard or soft mast.

Specs:

Next Step

Treatments:

Acceptable

Regen:

Other

Comment:

Proposed Start Date: 10/01/2018

| | | | | | | | | | | | |
|-----|-------------|-----|------------------------------|------------|--|-----------------|--------------|-----------------|---------------------------------|--|-------------------------|
| 130 | 53030130-NF | 3.2 | 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 openings. Plant hard or soft mast.

Specs:

Next Step

Treatments:

Acceptable

Regen:

Other

Comment:

Proposed Start Date: 10/01/2018

| | | | | | | | | | | | |
|-----|-------------|-----|------------------------------|------------|--|-----------------|--------------|-----------------|---------------------------------|--|-------------------------|
| 131 | 53030131-NF | 5.1 | 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 openings. Plant hard or soft mast. No landing in opening.

Specs:

Next Step

Treatments:

Acceptable

Regen:

Other

Comment:

Proposed Start Date: 10/01/2018

| | | | | | | | | | | | |
|-----|-------------|-----|------------------------------|------------|--|-----------------|--------------|-----------------|---------------------------------|--|-------------------------|
| 133 | 53030133-NF | 1.5 | 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 openings. Plant hard or soft mast. No landing in opening.

Specs:

Next Step

Treatments:

Acceptable

Regen:

Other

Comment:

Proposed Start Date: 10/01/2018



| 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 |
|-----------------------|-------------------|-------|------------------------------|-----------------|--------------|-----------------|-------------------|---------------------|---------------------------------|------------------|-------------------------|
| 134 | 53030134-NF | 1.3 | 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 openings. Plant hard or soft mast. No landing in opening.

Specs:

Next Step

Treatments:

Acceptable

Regen:

Other

Comment:

Proposed Start Date: 10/01/2018

| | | | | | | | | | | | |
|-----|-------------|-----|------------------------------|------------|--|-----------------|--------------|-----------------|---------------------------------|--|-------------------------|
| 135 | 53030135-NF | 2.2 | 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 openings. Plant hard or soft mast. No landing in opening.

Specs:

Next Step

Treatments:

Acceptable

Regen:

Other

Comment:

Proposed Start Date: 10/01/2018

| | | | | | | | | | | | |
|-----|-------------|-----|------------------------------|------------|--|-----------------|--------------|-----------------|---------------------------------|--|-------------------------|
| 136 | 53030136-NF | 3.3 | 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 openings. Plant hard or soft mast. No landing in opening.

Specs:

Next Step

Treatments:

Acceptable

Regen:

Other

Comment:

Proposed Start Date: 10/01/2018

| | | | | | | | | | | | |
|-----|-------------|-----|------------------------------|------------|--|-----------------|--------------|-----------------|---------------------------------|--|-------------------------|
| 137 | 53030137-NF | 2.2 | 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 openings. Plant hard or soft mast. No landing in opening.

Specs:

Next Step

Treatments:

Acceptable

Regen:

Other

Comment:

Proposed Start Date: 10/01/2018



| 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 |
|-----------------------|-------------------|-------|------------------------------|-----------------|--------------|-----------------|-------------------|---------------------|---------------------------------|------------------|-------------------------|
| 138 | 53030138-NF | 4.1 | 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 openings. Plant hard or soft mast. No landing in opening.

Specs:

Next Step

Treatments:

Acceptable

Regen:

Other

Comment:

Proposed Start Date: 10/01/2018

| | | | | | | | | | | | |
|----|------------|-----|--------------|--------------------|----|--------|---------|----------|-------------|-----------|----------------|
| 77 | 53031066-2 | 0.4 | 4130 - Aspen | Poletimber Well | 49 | 81-110 | Harvest | Clearcut | 413 - Aspen | Even-Aged | Field Boundary |
|----|------------|-----|--------------|--------------------|----|--------|---------|----------|-------------|-----------|----------------|

Habitat Cut: No

Site Condition:

Prescription This small treatment sliver is actually a part of the stand 66 treatment to the east in Compartment 31. Was unable to merge the treatments together across Compartment lines. This stand has been sold and is part of the Sightline Aspen timber sale.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Aspen regeneration that meets minimum aspen stocking guidelines. Any additional mix of oak, pine, and maple will be acceptable.

Regen:

Other

Comment:

Proposed Start Date: 08/28/2017

**Total Treatment
Acreage Proposed: 619.4**

Report 4 – Site Conditions

Pigeon River Country Mgt. Unit

Compartment: 30

Greg Rekowski : Examiner

Year of Entry: 2019

Availability for Management

| Total Acres | Acres Available | Acres Avail | | Dominant Site Conditions | Dominant Site Conditions | | | | | | | | | | |
|----------------|--------------------|----------------|---------------|--------------------------|--------------------------|----|----|----|----|----|----|----|----|----|---|
| | | With Condition | Not Available | | 5B | 5C | 2F | 2G | 3A | 3D | 3G | 3J | 3L | 5E | |
| 697 | 671 | 0 | 26 | Aspen | 0 | | | | | 17 | | | | | 9 |
| 10 | 0 | 0 | 10 | Cedar | | | | 10 | | | | | | | |
| 48 | 48 | 0 | 0 | Herbaceous Openland | | | | | | | | | | | |
| 142 | 141 | 0 | 1 | Jack Pine | | | | | | | | | | | 1 |
| 32 | 0 | 0 | 32 | Lowland Conifers | | | | 32 | | | | | | | |
| 46 | 46 | 0 | 0 | Marsh | | | | | | | | | | | |
| 177 | 67 | 92 | 18 | Mixed Upland Deciduous | 78 | 14 | 3 | | 8 | | | | | | 7 |
| 54 | 28 | 0 | 26 | Natural Mixed Pines | | | | | | | 8 | 18 | | | |
| 128 | 106 | 0 | 22 | Northern Hardwood | | | 13 | | | 2 | | | | 6 | 1 |
| 209 | 66 | 141 | 1 | Oak | 120 | 21 | | | | | | | | | 1 |
| 11 | 0 | 11 | 0 | Planted Mixed Pines | | 11 | | | | | | | | | |
| 6 | 6 | 0 | 0 | Red Pine | | | | | | | | | | | |
| 145 | 63 | 50 | 33 | Upland Mixed Forest | 25 | 24 | | | | 32 | | | | | 1 |
| 171 | 171 | 0 | 0 | Upland Shrub | | | | | | | | | | | |
| 46 | 46 | 0 | 0 | Water | | | | | | | | | | | |
| 1,922 | 1,460 | 294 | 168 | Total Forested Acres | 223 | 71 | 16 | 42 | 8 | 51 | 8 | 18 | 6 | 20 | |
| | 76% | 15% | 9% | Relative Percent | | | | | | | | | | | |

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

| Site No. | Dominant Site Cond Availability | Dominant Site Condition | Acres | Other Site Condition | Other Site Condition | Other Site Condition | Other Site Condition |
|---|---------------------------------|-------------------------|-------|----------------------|----------------------|----------------------|----------------------|
| 1 | Unavailable | 5E: Long-Term Retention | 5 | Unspecified | Unspecified | Unspecified | Unspecified |
| Comments: These three areas were left as retention in the Pickerel Lake Aspen sale. | | | | | | | |
| 2 | Unavailable | 5E: Long-Term Retention | 1 | Unspecified | Unspecified | Unspecified | Unspecified |
| Comments: | | | | | | | |

Report 4 – Site Conditions

Pigeon River Country Mgt. Unit
Greg Rekowski : Examiner

Compartment: 30
Year of Entry: 2019

| | | | | | | | |
|---|-------------|--|----|-------------|-------------|-------------|-------------|
| 3 | Unavailable | 5E: Long-Term Retention | 1 | Unspecified | Unspecified | Unspecified | Unspecified |
| Comments: | | | | | | | |
| 4 | Unavailable | 5E: Long-Term Retention | 3 | Unspecified | Unspecified | Unspecified | Unspecified |
| Comments: | | | | | | | |
| 5 | Unavailable | 3L: Other wildlife concerns | 6 | Unspecified | Unspecified | Unspecified | Unspecified |
| Comments: Active red-shouldered hawk nest within this area. | | | | | | | |
| 6 | Unavailable | 2F: Too steep | 13 | Unspecified | Unspecified | Unspecified | Unspecified |
| Comments: Most portions of this area are quite steep. | | | | | | | |
| 7 | Available | 5B: Maintain for regeneration purposes | 17 | Unspecified | Unspecified | Unspecified | Unspecified |
| Comments: | | | | | | | |
| 8 | Unavailable | 5E: Long-Term Retention | 2 | Unspecified | Unspecified | Unspecified | Unspecified |
| Comments: | | | | | | | |
| 9 | Available | 5C: Delay treatment for age/size class diversity or exceptional site quality | 10 | Unspecified | Unspecified | Unspecified | Unspecified |
| Comments: | | | | | | | |

Report 4 – Site Conditions

Pigeon River Country Mgt. Unit
Greg Rekowski : Examiner

Compartment: 30
Year of Entry: 2019

| | | | | | | | |
|------------------|-------------|--|----|----------------------------------|-------------|-------------|-------------|
| 10 | Available | 5B: Maintain for regeneration purposes | 18 | Unspecified | Unspecified | Unspecified | Unspecified |
| Comments: | | | | | | | |
| 11 | Available | 5B: Maintain for regeneration purposes | 45 | Unspecified | Unspecified | Unspecified | Unspecified |
| Comments: | | | | | | | |
| 12 | Unavailable | 3D: Recreational / Scenic values | 2 | Unspecified | Unspecified | Unspecified | Unspecified |
| Comments: | | | | | | | |
| 13 | Available | 5C: Delay treatment for age/size class diversity or exceptional site quality | 7 | Unspecified | Unspecified | Unspecified | Unspecified |
| Comments: | | | | | | | |
| 14 | Unavailable | 3J: Water quality / BMPs (stream, river, or lake) | 6 | 3D: Recreational / Scenic values | Unspecified | Unspecified | Unspecified |
| Comments: | | | | | | | |
| 15 | Available | 5B: Maintain for regeneration purposes | 17 | Unspecified | Unspecified | Unspecified | Unspecified |
| Comments: | | | | | | | |

Report 4 – Site Conditions

Pigeon River Country Mgt. Unit
Greg Rekowski : Examiner

Compartment: 30
Year of Entry: 2019

| | | | | | | | |
|---|-------------|--|----|---|-------------|-------------|-------------|
| 16 | Available | 5B: Maintain for regeneration purposes | 9 | Unspecified | Unspecified | Unspecified | Unspecified |
| Comments: | | | | | | | |
| 17 | Available | 5C: Delay treatment for age/size class diversity or exceptional site quality | 12 | Unspecified | Unspecified | Unspecified | Unspecified |
| Comments: | | | | | | | |
| 18 | Unavailable | 3G: Other Influence zones - See comments | 8 | 3J: Water quality / BMPs (stream, river, or lake) | Unspecified | Unspecified | Unspecified |
| Comments: Influence zone for the Little Pigeon River. | | | | | | | |
| 19 | Unavailable | 3D: Recreational / Scenic values | 32 | Unspecified | Unspecified | Unspecified | Unspecified |
| Comments: Pickerel Lake Campground | | | | | | | |
| 20 | Unavailable | 2G: Too wet (sensitive soils, does not include access issues) | 10 | 3J: Water quality / BMPs (stream, river, or lake) | Unspecified | Unspecified | Unspecified |
| Comments: | | | | | | | |
| 21 | Available | 5C: Delay treatment for age/size class diversity or exceptional site quality | 7 | Unspecified | Unspecified | Unspecified | Unspecified |
| Comments: | | | | | | | |

Report 4 – Site Conditions

Pigeon River Country Mgt. Unit
Greg Rekowski : Examiner

Compartment: 30
Year of Entry: 2019

| | | | | | | | |
|---|-------------|--|----|---|-------------|-------------|-------------|
| 22 | Unavailable | 2F: Too steep | 3 | Unspecified | Unspecified | Unspecified | Unspecified |
| Comments: | | | | | | | |
| 23 | Available | 5B: Maintain for regeneration purposes | 15 | Unspecified | Unspecified | Unspecified | Unspecified |
| Comments: | | | | | | | |
| 24 | Unavailable | 5E: Long-Term Retention | 5 | Unspecified | Unspecified | Unspecified | Unspecified |
| Comments: This area was left as retention for the sale to the west, Pickerel Lake Aspen, #53-018-09-01. See Sale Map. | | | | | | | |
| 25 | Unavailable | 3D: Recreational / Scenic values | 17 | 3J: Water quality / BMPs (stream, river, or lake) | Unspecified | Unspecified | Unspecified |
| Comments: | | | | | | | |
| 26 | Unavailable | 2G: Too wet (sensitive soils, does not include access issues) | 19 | 3J: Water quality / BMPs (stream, river, or lake) | Unspecified | Unspecified | Unspecified |
| Comments: | | | | | | | |
| 27 | Available | 5C: Delay treatment for age/size class diversity or exceptional site quality | 5 | Unspecified | Unspecified | Unspecified | Unspecified |
| Comments: | | | | | | | |

Report 4 – Site Conditions

Pigeon River Country Mgt. Unit
Greg Rekowski : Examiner

Compartment: 30
Year of Entry: 2019

| | | | | | | | |
|--|--------------------|---|----|---|----------------------------------|-------------|-------------|
| 28 | Available | 5B: Maintain for regeneration purposes | 15 | Unspecified | Unspecified | Unspecified | Unspecified |
| Comments: | | | | | | | |
| 29 | Unavailable | 3A: Conservation Values incompatible with harvest at this time | 8 | Unspecified | Unspecified | Unspecified | Unspecified |
| Comments: This stand should be part of the Green Timbers/Sturgeon River Valley SCA as it ties in nicely with stands in adjacent Compartments. Not much timber value in this stand. | | | | | | | |
| 30 | Available | 5B: Maintain for regeneration purposes | 7 | Unspecified | Unspecified | Unspecified | Unspecified |
| Comments: | | | | | | | |
| 31 | Unavailable | 2G: Too wet (sensitive soils, does not include access issues) | 13 | 3J: Water quality / BMPs (stream, river, or lake) | 3D: Recreational / Scenic values | Unspecified | Unspecified |
| Comments: Many portions of the stand are very wet. Directly adjacent to Pickerel Lake. Pathway follows the entire length of the stand. | | | | | | | |
| 32 | Available | 5C: Delay treatment for age/size class diversity or exceptional site quality | 6 | Unspecified | Unspecified | Unspecified | Unspecified |
| Comments: | | | | | | | |
| 33 | Available | 5B: Maintain for regeneration purposes | 12 | Unspecified | Unspecified | Unspecified | Unspecified |
| Comments: | | | | | | | |

Report 4 – Site Conditions

Pigeon River Country Mgt. Unit

Compartment: 30

Greg Rekowski : Examiner

Year of Entry: 2019

| | | | | | | | |
|------------------|-------------|--|----|-------------|-------------|-------------|-------------|
| 34 | Available | 5C: Delay treatment for age/size class diversity or exceptional site quality | 25 | Unspecified | Unspecified | Unspecified | Unspecified |
| Comments: | | | | | | | |
| 35 | Unavailable | 5E: Long-Term Retention | 2 | Unspecified | Unspecified | Unspecified | Unspecified |
| Comments: | | | | | | | |
| 36 | Available | 5B: Maintain for regeneration purposes | 16 | Unspecified | Unspecified | Unspecified | Unspecified |
| Comments: | | | | | | | |
| 37 | Available | 5B: Maintain for regeneration purposes | 7 | Unspecified | Unspecified | Unspecified | Unspecified |
| Comments: | | | | | | | |
| 38 | Unavailable | 3J: Water quality / BMPs (stream, river, or lake) | 9 | Unspecified | Unspecified | Unspecified | Unspecified |
| Comments: | | | | | | | |
| 39 | Unavailable | 3J: Water quality / BMPs (stream, river, or lake) | 3 | Unspecified | Unspecified | Unspecified | Unspecified |
| Comments: | | | | | | | |

Report 4 – Site Conditions

Pigeon River Country Mgt. Unit
Greg Rekowski : Examiner

Compartment: 30
Year of Entry: 2019

| | | | | | | | |
|------------------|-------------|--|----|-------------|-------------|-------------|-------------|
| 40 | Available | 5B: Maintain for regeneration purposes | 10 | Unspecified | Unspecified | Unspecified | Unspecified |
| Comments: | | | | | | | |
| 41 | Available | 5B: Maintain for regeneration purposes | 35 | Unspecified | Unspecified | Unspecified | Unspecified |
| Comments: | | | | | | | |
| 42 | Unavailable | 5E: Long-Term Retention | 1 | Unspecified | Unspecified | Unspecified | Unspecified |
| Comments: | | | | | | | |
| 43 | Unavailable | 5E: Long-Term Retention | 1 | Unspecified | Unspecified | Unspecified | Unspecified |
| Comments: | | | | | | | |
| 44 | Unavailable | 5E: Long-Term Retention | 0 | Unspecified | Unspecified | Unspecified | Unspecified |
| Comments: | | | | | | | |



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 |
|--|------------------------------|-------------------------|---------------------|-------|
| Pickereel Lake (Otsego) Campground | Concentrated Recreation Area | State Forest Campground | Proposed SCA | 25 |
| Comments | | | | |
| day use area, picnic area, fishing pier, boat lau* | | | | |



Report 6 – EXISTING SPECIAL CONSERVATION AREA DETAILS

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

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

| Conservation Area | Type | Description |
|-------------------|----------------------------|--|
| SCA | Cold Water Lake | A coldwater lake has temperature and dissolved oxygen conditions that allow naturally-reproduced or stocked trout populations and those of other coldwater fish species to persist from year to year. Suitable conditions for coldwater fishes may occur in Michigan lakes if they are relatively deep, have substantial groundwater inflows, or are located in colder (northern) areas of the state. Such lakes are established by Director's action and designated as trout resources by Fisheries Order 200. |
| SCA | Cold Water Stream | A coldwater stream has temperature and dissolved oxygen conditions that allow naturally-reproduced or stocked trout populations and those of other coldwater fish species (e.g., slimy sculpin) to persist from year to year. Coldwater streams in Michigan typically provide these conditions due to substantial contributions of groundwater to their stream flows. Such streams are established by Director's action and designated as trout resources by Fisheries Order 210. |
| SCA | 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. |
| HCVA | Dedicated Management Areas | Such areas are dedicated by the DNR Director for specific management uses through the promulgation of rules, as governed by Part 5, Department of Natural Resources, of the NREPA (MCL 324.502(2) and 324.504). Section 38 of the Administrative Procedures Act (MCL 24.238) provides for public requests for the promulgation of rules. This is an active program, with one proposed site currently under review by the DNR. |
| HCVA | Natural Rivers | There are two Natural Rivers datasets which are derived from spatial buffers set from an established and approved distance from the river centerlines. The Natural Rivers Zoning District is a 400 foot buffer for most Natural Rivers. The Vegetative Buffer ranges from 25 to 100 feet. To view specific Zoning Districts and Vegetative Buffers for each Natural River see the table located on the I:\Documentation\GDSE data folder. |



| | Level 4 Cover Type | Size Density | Acres | Stand Age | BA Range | General Comments: |
|---|--|---------------------|-------|--------------|-------------|---|
| 1 | 42290 - Natural Mixed Pine | Sapling Poor | 5.8 | 27 | Immature | Stand cut as part of Whiskey Springs Aspen sale, #53-024-89-01, Mattson Logging. Regeneration has not been successful. A few small clones of aspen made it but the remainder is mostly poor quality jack and white pine. Almost resembles a U stand due to the high black cherry component. Old OI notes indicate browsing was a factor here. Although rare, there are some scattered larger aspen, jack pine, white pine, and red pine mixed in throughout. |
| 2 | 42290 - Natural Mixed Pine | Sawtimber Medium | 12.3 | 86 | 51-80 | Variable stand in terms of stocking, looks like it may have had a partial harvest at one point although no sale records were found. Large diameter red pine with a lot of good cover in the understory. There is a clump of smaller planted red pine close to Pickerel Lake Road, old notes indicate this was an old borrow pit and was re-planted to reclaim the ground, the pine looks healthy. The aspen and jack pine are mostly along the eastern edges of the stand. The spruce is mostly along the western edge bordering the lowlands. Trace of paper birch. Average ba/acre from 10 plots = 76 square feet. |
| 3 | 4199 - Other Mixed Upland Deciduous | Sawtimber Medium | 35.5 | 84 | 51-80 | This stand had all the aspen, maple, and probably about half of the oak removed in 1975. Red oak regenerated very well following that harvest and stump sprouts are abundant in places, most are in the poletimber to small sawlog size classes. The red oak residual is in the large log/xlog size classes and averages about 30 square feet per acre, although this is highly variable and swings higher and lower throughout the stand. Aspen regenerated well in some spots, but the diameters are just over merchantability for the majority of the stand. Red maple saplings tend to dominate in those areas where the red oak residual is higher. Heavy browse observed on the smaller red maple saplings. Pine is most common in the northwest corner and the northern finger of the stand. Gently rolling terrain. Average ba/acre from 9 plots = 63 square feet. Allow the younger age class to mature before making a management decision. |
| 4 | 42290 - Natural Mixed Pine | Sawtimber Medium | 1.9 | 86 | 1-50 | Low stocking. Some big diameters on the red pine. Aspen is mostly along the east edge. Average ba/acre from 3 plots = 50 square feet. |
| 5 | 4130 - Aspen | Sapling Medium | 4.0 | 27 | Immature | Stand cut as part of Whiskey Springs Aspen sale, #53-024-89-01, Mattson Logging. Aspen has regenerated ok here although there are several open areas throughout. |
| 8 | 42290 - Natural Mixed Pine | Sawtimber Well | 8.4 | 86 | 111-140 | Wide mix of species and sizes throughout the stand. Ranges anywhere from large sawtimber to poletimber. An old road travels through the portion that is west of the ROW. Trace of white spruce. Average ba/acre from 9 plots = 130 square feet. No management because it is in the influence zone for the Little Pigeon River. |
| 9 | 4130 - Aspen | Sapling Medium | 12.6 | 27 | Immature | Stand cut as part of Whiskey Springs Aspen, #53-024-89-01, cut by Mattson Logging, everything cut except oak. A few larger pine were left as well. Stand has regenerated well in the south and eastern parts of the stand. The western parts have filled in nicely with pine in a few spots but there are also some areas of U. Some nice red oak saplings scattered throughout. Getting close to being a pole stand. |



| | Level 4 Cover Type | Size Density | Acres | Stand Age | BA Range | General Comments: |
|----|---|----------------------|-------|--------------|-------------|---|
| 10 | 4130 - Aspen | Poletimber Well | 10.8 | 42 | 81-110 | Nice stand of nearly pure aspen. A few pockets of smaller quaking aspen poletimber and red maple saplings along the east edge. Trace of paper birch, most of which is close to the road. Trace of XL-size white pine. Average ba/acre from 8 plots = 94 square feet. |
| 11 | 4123 - Red Oak | Sawtimber Well | 4.5 | 106 | 81-110 | This stand did not have the aspen and red maple removed like the adjacent stands did. The south half has almost a barren understory from the browse pressure. The north half lies on a relatively steep side slope and has most of the red maple understory. Nice quality oak with some big diameters. Average ba/acre from 4 plots = 93 square feet. Leave unmanaged. |
| 12 | 4131 - Aspen, Oak | Poletimber Well | 11.6 | 42 | 81-110 | Decent looking aspen stand, although diameters are quite a bit smaller than adjacent stands of similar age due to the higher oak residual here. There has also been quite a bit of oak regeneration in this stand, more in the south half of the stand and mostly stump sprout origin, indicating that some was cut in the first harvest. There are also some areas of nearly pure red maple saplings, these tend to be concentrated in areas with a higher oak residual. Overstory oak quality is moderate to high, with some big diameters being present. Average ba/acre from 6 plots = 82 square feet. Aspen should be ready to harvest next entry. |
| 13 | 4130 - Aspen | Poletimber Well | 77.7 | 42 | 81-110 | Stand was cut in 1976 leaving only oak. Regeneration was very good and was almost exclusively aspen and red maple. A couple small areas of almost entirely red maple reproduction. A few red oak did regenerate as well but they are few and far between. Diameters are still quite small in many areas, especially the north half, but overall this is a very nice looking bigtooth aspen stand. A few log-size red maple were left here and there. Heavy browse pressure observed on shorter red maple saplings. High quality oak in this stand with a lot of large diameters. Rolling terrain but no inoperable slopes. Trace of jack pine and paper birch. Average ba/acre from 19 plots = 96 square feet. Would prefer to hold this stand another entry until diameters get larger. |
| 14 | 4191 - Mixed Upland Deciduous with Conifer | Poletimber Medium | 37.0 | 42 | 1-50 | Old notes indicate this stand was high-graded back in the mid-1970's, likely removing only the best aspen and maple. As a result this stand is highly variable. It ranges anywhere from small A6 to O8 to W6. Regeneration has been primarily red maple and aspen, some areas have come back quite well while others have not. A small amount of oak regenerated, mostly in the south half. Due to the partial harvest there are scattered clumps of larger, older aspen and red maple mixed in throughout. The red oak is moderate quality with some large diameters mixed in. Pine is more common in the south half with some areas of nice poletimber. Some steep slopes on the side bordering the south edge of the U stand. Average ba/acre from 10 plots = 73 square feet. Let the second age class of pine, aspen, and maple mature before making a management decision. |
| 15 | 4130 - Aspen | Poletimber Well | 6.3 | 42 | 141-170 | Nice young stand of nearly pure aspen. Some larger diameters along the west edge that borders the U type. Some scattered aspen with rot and decay. Average ba/acre from 4 plots = 142 square feet. |



| Level 4 Cover Type | Size Density | Acres | Stand Age | BA Range | General Comments: |
|--|----------------------|-------|--------------|-------------|---|
| 6120 - Lowland Cedar | Sawtimber Medium | 10.0 | 166 | 81-110 | Stand of nice cedar and spruce that sits in somewhat of a ravine between the surrounding upland stands. 1 main stream goes through the center of the stand with 1-2 more feeder streams joining it. There also seems to be several seeps present along the more upland portions of the stand. Recent beaver activity is flooding the far northwest part of the stand and has resulted in a large pocket of dead trees. Heavy deer and elk use. Average ba/acre from 5 plots = 160 square feet. Current age was verified from a 14' cedar. |
| 42220 - Natural Jack Pine | Poletimber Poor | 3.1 | 34 | 1-50 | Was cut at the same time as the adjacent stand to the west across the Compartment line. Average ba/acre from 3 plots = 37 square feet. Filling in with white pine. |
| 42220 - Natural Jack Pine | Poletimber Medium | 1.8 | 83 | 1-50 | About 2/3rds of the jack pine are dead in this stand. Red oak has regenerated very well underneath of the dying overstory. Heavy browse on the oak and maple saplings that are under 5 feet. The far eastern end of the stand is a G type with only some jack pine saplings growing in it. Let the remainder of the overstory die and allow the red oak and maple understory to take over. Average ba/acre from 4 plots = 35 square feet. |
| 4130 - Aspen | Poletimber Well | 12.5 | 43 | 81-110 | Pretty nice young aspen stand, although diameters tend to be quite variable. Smaller diameters (5-6") in the west half where the oak residual is higher. Diameters become bigger (7-8") in the east/southeast half of the stand, adjacent to the jack pine stand. High quality oak for the most part. Trace of white pine and red pine. Average ba/acre from 6 plots = 100 square feet. Browsing concerns here as the adjacent stand to the northeast (stand 27) which was recently harvested is showing severe browse damage. Hold ten years until diameters increase. |
| 4191 - Mixed Upland Deciduous with Conifer | Sapling Well | 2.0 | 32 | 1-50 | Majority of the overstory jack pine is dead and the stand has filled in with aspen, maple, and a nice representation of red oak. The larger red oak are mostly along the edge of the adjacent wildlife opening. Trace of beech, white oak, and white pine. |
| 4119 - Mixed Northern Hardwoods | Sapling Poor | 12.5 | 7 | Immature | Stand cut as part of Thorny Jack Pine (#53-015-09-11), bought and cut by Northern Timberlands. Whole-tree harvest in the fall. Regen survey completed; RM 1850 TPA, JP 300 TPA, RO 175 TPA. Regen is spotty at the south end but the remainder is dominated by red maple. Heavy browse pressure. Most RM regen under 3' at this point, will likely fill in as an M3 unless browse is too severe. Average residual ba/acre = 15 square feet. |
| 4123 - Red Oak | Sawtimber Well | 16.6 | 103 | 81-110 | Well-stocked two-aged stand. All aspen and red maple was removed in the 1970's and has regenerated well. An exception is the far west end which has a barren understory due to browse. Red maple regeneration is more pronounced in the areas of higher oak basal area while aspen has filled in the gaps between the oak. High quality red oak. Average ba/acre from 8 plots = 88 square feet. Red oak is roughly 60 square feet of that total. |



| Stand | Level 4 Cover Type | Size Density | Acres | Stand Age | BA Range | General Comments: |
|-------|--|-------------------|-------|-----------|----------|---|
| 28 | 42220 - Natural Jack Pine | Poletimber Medium | 32.6 | 43 | 51-80 | Decent quality jack pine that still has a lot of small stems. There are a few pockets of larger jack pine trees, most seem to be near the closed road which runs north-south through a portion of the stand. Stocking is variable throughout. Quite a few dead jack pine with broken tops which is likely due to a heavy snow storm in 2012 which affected similar stands throughout the PRC. Red pine is scattered throughout and tends to be in clumps. The aspen is mostly in the southeast portion of the stand, as well as the oak and red maple component. Red maple understory is mostly along the east west edges of the stand. The smaller white pine is poor-quality with a lot of weevil damage. The stand sits in a small depression in relation to the adjacent stands, may be somewhat of a frost pocket. Average ba/acre from 11 plots = 58 square feet. Stand will be ready for a harvest next entry. |
| 29 | 42210 - Natural Red Pine | Sawtimber Poor | 4.0 | 83 | 1-50 | 2016 Stand cut as part of Barred Mix, whole-tree harvest by Precision. OPIC - FMD: 2007 DO NOT CUT ANY OAK OR ASPEN IN THE STAND. RED, WHITE AND JACK PINE AS WELL AS ASPEN RED MAPLE AND OAK WOULD BE ACCEPTABLE FOR REPRODUCTION. |
| 30 | 4130 - Aspen | Poletimber Well | 20.8 | 43 | 111-140 | Excellent, high quality bigtooth aspen stand. Diameters become smaller in the two fingers that extend to the west. Trace of jack pine and paper birch. Average ba/acre from 8 plots = 115 square feet. Winter cut only to try and alleviate browse concerns. |
| 31 | 4130 - Aspen | Poletimber Well | 6.5 | 43 | 81-110 | Good looking aspen stand although diameters are still quite small at this point. The red and white pine residual is not that great of quality. Oak quality is moderate to high. Trace of jack pine. Average ba/acre from 5 plots = 106 square feet. Browsing concerns here as a similar stand to the northwest (stand 27) which was recently harvested is showing severe browse damage. Consider harvesting in ten years with the adjacent jack pine stand to the west. |
| 32 | 4191 - Mixed Upland Deciduous with Conifer | Sawtimber Medium | 15.9 | 96 | 51-80 | This stand had all aspen, red maple, and jack pine removed in the mid 1970's, leaving everything else. A few small clones of aspen regenerated, mostly in the southern parts of the stand. Some jack pine is present in the northwest portion of the stand. Residual trees are moderate to high quality, the best being the oak with some very large diameter trees present. Some red oak advanced regeneration is present, more prevalent along edges close to the opening and roads. Average ba/acre from 8 plots = 78 square feet. |
| 33 | 4191 - Mixed Upland Deciduous with Conifer | Sawtimber Medium | 9.3 | 98 | 51-80 | Two-aged stand as a result of removing all aspen and red maple and leaving all the overstory oak and pine. Heavy red maple understory in many spots. Browse is heavy as well in a lot of areas. A few very large red oak. Still quite a few small stems on the second age class. Allow the red maple and bigtooth aspen to mature some more before making a management decision. Average ba/acre from 5 plots = 54 square feet. |
| 34 | 42220 - Natural Jack Pine | Poletimber Poor | 10.0 | 43 | 1-50 | Stand was harvested in 1975 but has not come back to much. The jack pine is very scrubby and open grown with little to no merchantable value. The red pine is large and high quality but are scattered infrequently throughout. Stand serves well as an upland shrub type of stand. Average ba/acre from 6 plots = 33 square feet. |



| | Level 4 Cover Type | Size Density | Acres | Stand Age | BA Range | General Comments: |
|----|-------------------------------|---------------------|-------|--------------|-------------|---|
| 35 | 4311 - Pine, Aspen Mix | Sawtimber Well | 24.5 | 86 | 51-80 | Past notes indicate portions of this stand had a partial harvest at some point, removing the aspen and red maple. Some areas were missed though as there are pockets of larger red maple as well as some scattered large aspen here and there. The larger red maple are more concentrated along the north line. Most of the stand has filled in quite well to red maple and aspen. The red maple is still quite small, some areas are dominated by saplings. Jack pine used to be a much larger component of the stand but most of it is now dead. Big diameters on the red pine. Heavy browse on the smaller red maple. Trace of paper birch. Average ba/acre from 10 plots = 98 square feet. |
| 37 | 42290 - Natural Mixed Pine | Sawtimber Medium | 4.3 | 87 | 51-80 | Nice natural pine stand with a wide variety of sizes, especially on the white pine, ranging anywhere from W6 to W9. Red pine more common the further west you go. The 138 age noted for the red pine was used from the previous inventory and was taken from one of the very large XL-size white pine trees in the stand. Stand had a salvage harvest in 1991 following a windstorm which resulted in a lot of blowdown. Open areas following the harvest have regenerated well with a mix of species. The old dispersed horse campsite #9 was located in the pipeline ROW which bisects the stand, the sign is still up. Some nice red oak regeneration around the open area on the east portion of the stand. Average ba/acre from 5 plots = 110 square feet. |
| 38 | 4130 - Aspen | Poletimber Well | 10.1 | 43 | 81-110 | Pretty nice aspen stand, although diameters tend to decrease in the southeastern 1/3rd of the stand. There are some scattered larger red maple and aspen mixed in that must have been missed the last time the stand was cut. Trace of white pine and jack pine. Some oak saplings scattered throughout. Average ba/acre from 6 plots = 88 square feet. |
| 40 | 4130 - Aspen | Sapling Medium | 2.0 | 21 | Immature | South half of the stand did not regenerate well and is a U type. Looks like the landing may have been at the far south corner but browsing also likely played a role as evidenced on the very heavy browse pressure on the red maple throughout the stand. The aspen clones are concentrated in the center of the stand while the red maple is mostly along the perimeter. |
| 41 | 4130 - Aspen | Poletimber Well | 4.8 | 43 | 1-50 | Nice aspen stand although a bit small in places. A little bit of oak in-growth from the last time the stand was clearcut, these trees are now in the pole/small sawlog size classes. Average ba/acre from 4 plots = 100 square feet. |
| 43 | 4123 - Red Oak | Sawtimber Poor | 22.5 | 108 | 1-50 | Stand cut in 2015 as part of Barred Mix, whole-tree harvest by Precision. Minimal damage, nice job on sale. Some advanced red oak regeneration was protected, mostly near Honeylocust Trail. OPIC - FMD: 2007. LEAVE ANY WHITE PINE SAWLOG TREES. A MIXTURE OF SPECIES WILL BE ACCEPTABLE FOR REPRODUCING THE STAND, SUCH AS OAK, RED MAPLE, ASPEN, AND RED WHITE AND JACK PINE. THIS WILL BE A CLEARCUT WITH RESERVES. CUT ABOUT HALF OF THE OAK IN THIS STAND. LEAVE 10 BA OF WHITE PINE (IF THERE IS 10 BA OF WHITE PINE) AND 15 BA OF OAK |



| Stand | Level 4 Cover Type | Size Density | Acres | Stand Age | BA Range | General Comments: |
|-------|-----------------------------|-------------------|-------|-----------|----------|--|
| 44 | 4133 - Aspen, Mixed Pine | Poletimber Well | 23.1 | 49 | 81-110 | Stand had all aspen, maple, and birch removed in 1969. Aspen regenerated quite well. Jack pine used to be a larger component but much of it has died. Aspen diameters become very small at the far southeastern corner and along the east line, not sure why. There is a pocket of larger aspen at the SW corner adjacent to stand 74, this area must have been missed during the previous harvest. Scattered red oak saplings, seem to be more prevalent closer to the road. Average ba/acre from 6 plots = 105 square feet. |
| 45 | 42220 - Natural Jack Pine | Poletimber Poor | 3.7 | 37 | 1-50 | Scrubby, open-grown jack pine. The aspen is in a single clone at the south end. |
| 46 | 4319 - Mixed Upland Forest | Sawtimber Well | 31.8 | 99 | 51-80 | This stand consists of Pickerel Lake Campground and a buffer area around it. White and red pine are mostly in the interior camping portion of the stand. Most of the aspen is in the non-developed area between Pickerel Lake Road and the camping sites. Variety of sizes and species. Some decent red oak regeneration here and there. Trace of tamarack, paper birch, balsam poplar, and quaking aspen. Average ba/acre from 7 plots = 74 square feet. |
| 47 | 4319 - Mixed Upland Forest | Poletimber Medium | 41.7 | 35 | 51-80 | Stand had everything but oak, red pine, and white pine removed in 1983. Some larger jack pine were marked to leave to provide a seed source, some of these are still standing and are in the sawlog size class now. Regeneration is a mixed bag and somewhat spotty. There are some decent aspen clones that are just approaching merchantability although there is also some aspen closer to the roads that is a little bigger. A few areas of nice red oak regeneration, most is concentrated adjacent to the roads as well as a nice pocket in the southwest corner of the stand, close to the hiking trail and campground. Balsam fir is mostly in the south 1/2. Heavy browse on the red maple understory. Overstory red maple are almost exclusively stump sprout origin. Average ba/acre from 7 plots = 51 square feet. |
| 48 | 4130 - Aspen | Poletimber Well | 24.5 | 37 | 51-80 | Stand was cut by Champion in the early 1980's. Stand has regenerated quite well to aspen. Diameters on the aspen tend to become smaller as you head north. There are a few small openings mixed in throughout with minimal regeneration. Trace amount of red pine poletimber and red oak sawtimber in the overstory. Small area of wet ground at the far southern end with trace amounts of quaking aspen, paper birch, balsam poplar, spruce, and fir. The Pickerel Lake Pathway also travels through the south end. Average ba/acre from 8 plots = 76 square feet. |
| 50 | 4136 - Aspen, Mixed Conifer | Sapling Medium | 10.0 | 17 | Immature | Stand cut as part of Pickerel Lake Blocks, #53-007-99-01, bought by AJD. Old OI notes indicated elk browse being an issue and it still is today. Many open areas where the aspen did not make it and are now mostly black cherry. Many of the stems that did make it have a lot of bole damage from the elk. Red maple understory is being heavily browsed. The quaking aspen, fir, and spruce component is more in the south half of the stand. Trace of paper birch regen at the far south end. The Pickerel Lake Pathway passes through the south end. |



| Level 4 Cover Type | Size Density | Acres | Stand Age | BA Range | General Comments: |
|--|----------------------|-------|--------------|-------------|--|
| 6129 - Mixed Coniferous Lowland Forest | Poletimber Medium | 18.9 | 99 | 81-110 | Wet, low quality swamp conifer stand with a large percentage of dead and dying cedar. There are still a few small pockets of large, healthy cedar but these seem to be in areas that aren't quite as wet. Black ash used to be a moderate component but it is now all dead. A few upland ridges are present with a trace amount of oak present on these as well as some very large white pine. Some pockets of smaller timber towards the east. Average ba/acre from 8 plots = 100 square feet. |
| 42290 - Natural Mixed Pine | Sawtimber Well | 6.1 | 99 | 141-170 | Very nice natural pine stand. Some wet ground mixed in here and there. White pine more dominant in the finger that extends north. Pickerel Lake hiking trail travels through the entire stand. Average ba/acre from 6 plots = 145 square feet. |
| 42220 - Natural Jack Pine | Sapling Well | 12.9 | 26 | Immature | Stand cut as part of Pickerel Lake Jack Pine, #53-048-88-01, bought by Georgia Pacific. Although there are some open areas here and there, overall this stand has regenerated quite well to jack pine. A few clumps of larger trees are present at the southern end of the stand near the G type. This stand sits in somewhat of a depression as compared to the surrounding aspen stands to the north, east, and west. |
| 4130 - Aspen | Poletimber Well | 19.3 | 37 | 51-80 | Nice, young stand of nearly pure aspen. Stand was cut by Champion in 1980-81. A small amount of oak regenerated. Rolling terrain. Average ba/acre from 6 plots = 80 square feet. There is an old enclosure located near the southern part of the stand and on the west side of the closed road. |
| 4310 - Pine, Oak Mix | Poletimber Medium | 10.4 | 86 | 51-80 | Mixed species stand of variable stocking and quality. Oak displays best growth and is most prevalent in the southwest 1/4 of the stand. A large part of the jack pine component has died out. A few small bigtooth aspen clones are present, mostly along the southeast and southwest portions of the stand. Regeneration of red maple is abundant where the jack pine has died but there is also a nice amount of red and white oak advanced regeneration. Average ba/acre from 6 plots = 52 square feet. Continue to let the jack pine and aspen component die out and manage for the understory. OPIC - FMD: 2007 THERE IS VERY GOOD OAK SAPLING REPRODUCTION IN THIS STAND. SOME OF IT IS OVER 1 INCH IN DIA. AND 10 TO 15 FEET TALL. SHOULD LET THE JACK PINE CONTINUE TO DIE ON ITS OWN AND NOT DISTURB THE OAK REPRODUCTION. |
| 4123 - Red Oak | Sawtimber Poor | 6.7 | 80 | 1-50 | Stand was cut as part of Pickerel Lake Oak, #53-024-09-01, bought by Diversified Forestry, Everything was cut except for green-marked oak. Stand has regenerated well to a heavy seedling layer of red maple and oak but it is being very heavily browsed. There are a few areas of compacted soil that are dominated by moss at the ground level. Small clump of bigtooth aspen saplings in the middle portion of the stand. Average ba/acre from 4 plots = 45 square feet. The residual oak is moderate quality and healthy. Regen survey results: red maple 1550 TPA (2'), red oak 400 TPA (1.5'), white oak 150 TPA (3'). Stand passes as a mixed stand. Monitor at next cycle to see if any oak make it past the browse level. |



| | Level 4 Cover Type | Size Density | Acres | Stand Age | BA Range | General Comments: |
|----|---|---------------------|-------|--------------|-------------|--|
| 57 | 42220 - Natural Jack Pine | Sapling Medium | 3.5 | 26 | Immature | Stand cut as part of Pickerel Lake Jack Pine, #53-048-88-01, bought by Georgia Pacific. This stand regenerated to primarily jack pine. Quality is low as most of it is open-grown. Aspen and oak are along the edges. |
| 58 | 4130 - Aspen | Sapling Well | 20.2 | 26 | Immature | Stand cut as part of Pickerel Lake Jack Pine, #53-048-88-01, bought by Georgia Pacific. Stand regenerated well to aspen. Some areas are approaching merchantability. Red oak residual is nice quality. Trace of white oak and red pine in the overstory. Heavy browse on the red maple understory in spots. |
| 60 | 4130 - Aspen | Poletimber Well | 26.5 | 37 | 81-110 | Nice looking young aspen stand. Diameters tend to vary considerably, some areas are approaching log-size while other areas are barely merchantable. Solid patch of jack pine in the central part of the stand. A small amount of oak regenerated following the last clearcut, most of these are in the poletimber and small sawlog size classes. A second, older age class of oak is present but is quite rare, most of it is along the east and south stand lines. Trace of white pine and red pine in the overstory. Average ba/acre from 8 plots = 99 square feet. |
| 61 | 4132 - Aspen, Jack Pine | Sapling Well | 30.1 | 26 | Immature | Pretty nice aspen regeneration throughout but it tends to be more dense and taller near the road. A thick area of jack pine regen close to the middle of the stand and near the lake. Oak saplings are abundant in some areas, some are free to grow but most are overtopped by aspen and red maple. The residual overstory of oak and pine is scattered irregularly throughout and there are some large diameter trees. The Pickerel Lake Pathway travels the entire length of the stand along the eastern side. Some wet ground on the east edge as the cut boundary went right up to the lake shore. |
| 63 | 4191 - Mixed Upland Deciduous with Conifer | Sawtimber Medium | 7.9 | 87 | 81-110 | Mixed pine-oak stand of moderate quality. The best oak is at the far northeast corner but this portion of the stand is also on a relatively steep side-slope. The remainder of the stand has sporadic stocking. Lower stocked areas are filling in with white pine. Oak quality becomes poorer the further south you go. Average ba/acre from 7 plots = 90 square feet. Due to the heavy browse observed in the adjacent stands to the east that were cut it would be best to leave this stand as is and let the pine continue to take over. |
| 64 | 4123 - Red Oak | Sawtimber Poor | 7.2 | 87 | 1-50 | This stand was cut as part of the Pickerel Lake Oak sale, #53-007-99-01, bought by Diversified Forestry. Whole-tree harvest in the winter of 2012. Orange-marked oak as well as all aspen and red maple were cut out of this stand. The red oak residual is moderate to low quality. Quite a bit of damage was noticed on the residual trees. Resulting regeneration is primarily red maple and aspen. Both are being browsed hard but it looks like much of the red maple will make it. The aspen on the other hand already seems to be mostly dead. Red oak stump sprouts and seedlings have been browsed badly as well and I don't much are still alive. Average ba/acre of the residual from 5 plots = 34 square feet. |
| 65 | 6127 - Lowland Pine | Sawtimber Well | 12.8 | 99 | 111-140 | Nice stand of large natural pine. Ground is about a 50/50 mix between upland and lowland. Cedar mixed in throughout. Portions of the stand, the far west end especially, lie on a steep side slope. Some areas of blowdown on the wetter soils. An old railroad grade travels the length of the stand and Pickerel Lake Pathway follows this grade. Average ba/acre from 7 plots = 134 square feet. |



| | Level 4 Cover Type | Size Density | Acres | Stand Age | BA Range | General Comments: |
|----|--------------------------|-----------------|-------|--------------|-------------|---|
| 66 | 4132 - Aspen, Jack Pine | Sapling Poor | 9.5 | 6 | Immature | <p>This stand was cut as part of the Pickerel Lake Oak sale, #53-007-99-01, bought by Diversified Forestry. Whole-tree harvest in the winter of 2012. A few clumps of red pine were left as well as a couple of smaller oak. There is a very small wet depression in the center of the stand, about 20x20 feet. Resulting regeneration is a mix of aspen/red maple in some areas with jack pine dominant in others. Jack pine seems to be more in the central parts of the stand while red maple and aspen are more along the north and south lines. Browse is pretty heavy throughout the stand on all species, even noticed jack pine browse in a few spots. Unsure how much of the aspen will survive. Right now the stand passes regeneration standards for a mixed stand but monitor again at the next inventory cycle in case browse continues.</p> <p>Regen survey results from 5 1/100th acre plots: QA 420 TPA (4.5'), BTA 400 TPA (5'), RM 480 TPA (4.5'), JP 220 TPA (3').</p> |
| 67 | 4130 - Aspen | Sapling Well | 30.9 | 17 | Immature | <p>Stand was cut as part of the Pickerel Lake Blocks timber sale, #53-007-99-01, bought by AJD. Primary volume removed was mixed aspen, red, white, and jack pine. 3 retention pockets were left. Overall, aspen has regenerated very well throughout with some areas of very dense stocking. The far west end is really the only part of the stand that didn't regenerate quite as well as there are a few scattered open areas here. A portion of a small wet drainage is along the north line and continues on into stand 65.</p> |
| 68 | 4133 - Aspen, Mixed Pine | Sawtimber Well | 17.0 | 78 | 111-140 | <p>Nice mature stand with a diverse mix of species. There is an east-west running wet drainage along the north edge of the stand which ends at Pickerel Lake. There is also a thin sliver of lowland all along the western edge of the stand next to Pickerel Lake. The remainder is upland. Trace of jack pine. Some pockets of nice advanced oak regeneration, more common in the north half. Average ba/acre from 9 plots = 111 square feet. Pickerel Lake Pathway follows an old grade which runs north-south along the west edge of the stand. No management due to the proximity to the lake. This is also the only mature aspen stand in the Compartment.</p> |
| 71 | 42110 - Planted Red Pine | Poletimber Well | 2.0 | 39 | 111-140 | <p>According to old OI notes this stand was planted with an intention of being an orchard for trees that could be transplanted to campgrounds in the PRC. I'm not sure that ever happened as this stand is fully-stocked. Average ba/acre from 3 plots = 123 square feet.</p> |
| 72 | 4130 - Aspen | Sapling Well | 46.1 | 6 | Immature | <p>This stand was cut as part of Pickerel Lake Aspen, #53-018-09-01, bought and cut by Diversified Forestry. All oak was left as well as some red and white pine. A large amount of red pine was cut from this stand. Huge landing was created at the south end, not sure why it needed to be so big. Not much is growing there yet.</p> <p>Aspen and red maple have regenerated quite well. Heavy browsing is occurring in some areas, more so along the east edge, farther away from Pickerel Lake Road. The bigtooth aspen and red maple are being browsed the hardest, the quaking aspen seems ok for the most part. Jack pine seedlings were also being hit hard in some areas. Overall the stand looks good for now but monitor for browsing impacts during the next cycle.</p> |



| | Level 4 Cover Type | Size Density | Acres | Stand Age | BA Range | General Comments: |
|----|--|---------------------|-------|--------------|-------------|---|
| 73 | 4311 - Pine, Aspen Mix | Sawtimber Well | 14.8 | 84 | 111-140 | Old notes indicate this stand had an aspen, maple, and birch species removal harvest in 1969. It appears that not all of the stand was harvested as there are still some clumps of larger aspen and red maple. There is an old north-south running road which splits the stand in two, and it looks like the part west of the road was mostly excluded from the harvest as this is where most of the larger aspen and maple is located. White pine and aspen regenerated quite well following the species removal and poletimber is abundant in some areas of the east half. The residual pine supercanopy is highly variable with some high-density areas in the interior. Most of the jack pine component was in the northwest part of the stand and the majority of it has died. Average ba/acre from 6 plots = 137 square feet. Let the younger age class grow and manage for pine. |
| 74 | 4123 - Red Oak | Sawtimber Well | 13.5 | 103 | 81-110 | Old notes indicate this stand had all aspen, maple, and birch removed in 1969. Although rare, there are a few small pockets of advanced oak regeneration, mostly at the north end of the stand. Some areas of lower oak stocking, mostly in the center of the stand. A few pockets of aspen that are barely merchantable, these seem to be more towards the far southeast corner. The red oak is low to moderate quality. Best quality is along the north and west edges. Average ba/acre from 5 plots = 90 square feet. |
| 75 | 4191 - Mixed Upland Deciduous with Conifer | Poletimber Well | 5.9 | 49 | 1-50 | Old notes indicate all aspen, maple, birch, and jack pine were removed in 1969. Stand has regenerated ok although the diameters are quite small for their age, especially on the red maple and aspen. Red oak poletimber and saplings are abundant at the north and south ends of the stand. About half of the red oak canopy % is residual log-size trees that were not cut from the original harvest. Average ba/acre from 5 plots is only 50 square feet at this time but will increase as the stems become merchantable. |
| 76 | 4139 - Aspen, Mixed Deciduous | Poletimber Well | 10.1 | 49 | 51-80 | Old notes indicate this stand was cut in 1969 but despite the age there are still a lot of small diameters on the aspen, especially at the far east end where diameters are barely merchantable. A couple scattered larger aspen and red maple that must have been missed from the previous harvest. Although rare, there are a few areas with some red oak advanced regeneration, mostly along the southern edge. Trace of jack pine. Average ba/acre from 5 plots = 76 square feet. |
| 77 | 4130 - Aspen | Poletimber Well | 5.2 | 49 | 81-110 | Stand had an aspen, maple, birch species removal back in the 1960's, leaving everything else. Diameters on the aspen are still quite small. Red oak is moderate quality and healthy. Average ba/acre from 4 plots = 113 square feet. The southeast corner of this stand has redline around it and is part of the Sightline Aspen sale to the east in Compartment 31. |
| 78 | 4319 - Mixed Upland Forest | Sawtimber Well | 1.4 | 87 | 141-170 | This stand was left as retention when the surrounding sale (Pickerel Lake Aspen, #53-018-09-01) was cut. The interior of the stand is wet. Average ba/acre from 3 plots = 147 square feet. |
| 79 | 42141 - Planted Mixed Pine, Mixed Deciduous | Sawtimber Medium | 4.9 | 87 | 81-110 | Moderately-stocked stand with a heavy understory of hardwoods. The jack pine is more common in the south half of the stand, with much of it being dead. In these places the hardwood understory is taking over with some areas resembling an M3. The red pine component is heaviest at the far north end. Some nice red oak advanced regeneration. Average ba/acre from 3 plots = 97 square feet. |



| | Level 4 Cover Type | Size Density | Acres | Stand Age | BA Range | General Comments: |
|----|---|--------------------|-------|--------------|-------------|--|
| 80 | 4191 - Mixed Upland Deciduous with Conifer | Sapling Medium | 14.4 | 27 | 1-50 | Stand had everything except red pine, white pine, and oak removed in 1991. Resulting regeneration is dominated by red maple. Aspen regeneration is limited. There are a few small areas of nice red oak regeneration. Some open areas with minimal regeneration scattered throughout the north half. The residual overstory is variable in terms of stocking, average ba/acre from 7 plots = 34 square feet. |
| 81 | 4139 - Aspen, Mixed Deciduous | Sapling Well | 13.9 | 17 | Immature | Stand was cut as part of the Philip's Creek Blocks timber sale, #53-006-99-01, bought and cut by AJD. Stand has regenerated well to aspen as well as some very nice patches of natural red pine regeneration. Some thickets of beech regeneration along the south line adjacent to the hardwood stand. A little bit of oak regeneration but it is all next to the road. |
| 82 | 4119 - Mixed Northern Hardwoods | Poletimber Well | 115.7 | 89 | 111-140 | Nice hardwood stand. Rolling terrain with steep slopes near the scenic vista. Quality declines on the steeper slopes. Beech common throughout, most prevalent in the northern half of the stand where the stand starts to transition to more of a beech/red maple/oak type at lower elevations. BBD is widespread throughout, with some mortality already occurring. Trace of red pine, bigtooth aspen, and paper birch. Average ba/acre from 23 plots = 116 square feet. |
| 83 | 4130 - Aspen | Poletimber Well | 146.1 | 45 | 81-110 | Nice stand of nearly pure aspen poletimber. Diameters tend to vary. In general the south half seems a bit smaller as does the eastern portion which borders the large hardwood stand (#82). A few scattered areas of lower stocking which are filling in with mostly scrubby jack and white pine. Overstory diversity is limited with only trace amounts of paper birch, balsam fir, white spruce, beech, and sugar maple. Old fire-charred pine stumps are scattered here and there. An old elevated railroad grade starts on the western side of the southern-most interior G stand and then runs northeast, parallel with the existing road. Average ba/acre from 28 plots = 94 square feet. |
| 84 | 4319 - Mixed Upland Forest | Sawtimber Well | 3.8 | 84 | 81-110 | Nice looking stand with a lot of large diameters. Has not been treated in the past and it should remain this way. Average ba/acre from 4 plots = 108 square feet. |
| 85 | 4133 - Aspen, Mixed Pine | Sapling Medium | 41.2 | 27 | Immature | Stand had a species removal harvest where everything was cut except red pine, white pine, and oak. There isn't much of the latter two species however red pine is quite abundant throughout. Stocking of the red pine is irregular, some areas are R8 while others have a much lower BA. In general aspen regeneration is good north of the east-west road along with a strip of pretty good regeneration along the road which heads south. The southwestern 1/3rd of the stand has very poor regeneration, most of which is scrubby jack pine and a lot of cherry brush. Old notes indicate this area was a separate stand of poor-quality jack pine but was harvested at the same time as the stuff to the east. This may explain the lack of aspen here. Browse is heavy in a few spots on the smaller red maple. Some red oak did regenerate, most seems to be concentrated near the roads. An old railroad grade runs SE to NW in the southwestern part of the stand. Average ba/acre of the residual red pine from 8 plots = 51 square feet. |



| | Level 4 Cover Type | Size Density | Acres | Stand Age | BA Range | General Comments: |
|----|---|------------------|-------|--------------|-------------|--|
| 86 | 42141 - Planted Mixed Pine, Mixed Deciduous | Sawtimber Well | 5.8 | 87 | 81-110 | Pockets of planted red pine mixed in among other species. There is also an area of natural pine at the north/northeast portion of the stand. Jack pine, aspen, and oak component is more prevalent in the south half of the stand. There are a few very large oak. An old grade runs through the northeast side of the stand. Average ba/acre from 5 plots = 104 square feet. |
| 87 | 4123 - Red Oak | Sawtimber Medium | 11.6 | 107 | 51-80 | Stand was thinned as part of Pickerel Lake Oak, #53-024-09-01, bought by Diversified Forestry. Orange-marked oak were cut out of this stand as well as all maple and aspen. Oak is moderate quality. Stump sprout regeneration of oak and maple is being heavily browsed, I don't think any of the oak sprouts will make it. There are a few areas along the north edge that were not cut. Average ba/acre from 5 plots = 56 square feet. |
| 88 | 4123 - Red Oak | Sawtimber Medium | 44.5 | 96 | 1-50 | -Stand was cut in 1973 leaving everything except oak. As a result the oak residual is highly irregular in stocking ranging from O7 to O9. The understory regeneration came back quite well to aspen and red maple. There are a few nice patches of white pine as well. The aspen is approaching merchantability and averages about 4-5 inches at this time. Red maple regeneration tends to be in the areas with a heavier oak overstory. Average ba/acre from 10 plots = 57 square feet, 45 of which is red oak. The oak is of moderate quality and most appears healthy at this time. This can probably be called an A6 stand next entry when the aspen becomes a little larger. -Rolling terrain with a few short, steep slopes. A few old roads and open areas scattered throughout that must have been from the previous timber harvest. -The west line of the stand is an old road which runs north-south. An old fence-line is still present in spots on the west side of the road. |
| 93 | 4199 - Other Mixed Upland Deciduous | Sapling Well | 4.8 | 30 | Immature | This stand is periodically cut to provide a scenic vista for the surrounding landscape. A small parking area along with a bench is present at the top of the slope at the far east end of the stand. More recently, the east 1/3rd of the stand was cut, can't find the records but it is probably about 10 years old. There is some nice oak and sugar maple regeneration in this newer cutting however ironwood is dominant. The older portion of the stand has more red maple and white pine but there are also some nice oak saplings mixed in. Some browse impacts noticed in the newer cutting at the far west side, farthest away from the road. |
| 94 | 4319 - Mixed Upland Forest | Sawtimber Medium | 8.4 | 68 | 51-80 | Highly variable stand in composition, stocking, and size. Stand ranges anywhere from M5 to W6 to MC8. Semi-open area along the western part of the stand, south of Pickerel Lake Road, which may have been an old landing at one point and is now filling in with white pine. Most beech are at the southern end near the powerline ROW and most have BBD. Continue to let the white pine fill in and mature before making any management decisions. Average ba/acre from 7 plots = 80 square feet. |
| 95 | 4123 - Red Oak | Sawtimber Well | 9.6 | 93 | 81-110 | Rolling terrain with some short, steep slopes. Red oak is moderate quality. A few small clones of aspen mixed in here and there. Stocking increases a little more at the far east end. Average ba/acre from 3 plots = 87 square feet. |



| | Level 4 Cover Type | Size Density | Acres | Stand Age | BA Range | General Comments: |
|-----|------------------------------|---------------------|-------|--------------|-------------|--|
| 96 | 4123 - Red Oak | Sawtimber Medium | 18.0 | 93 | 51-80 | Stand was cut in 1991 removing everything except pine and oak. Red oak residual is moderate to high quality. Apparently a lot of aspen was removed but the resulting regeneration is dominated by red maple. Steep slopes in some areas yet it looks like all were operated on. Red oak saplings are limited to the steepest slopes. Average ba/acre from 7 plots = 54 square feet. Manage when the understory matures. |
| 97 | 42220 - Natural Jack Pine | Sapling Poor | 24.3 | 7 | Immature | Stand harvested as part of The Barking Dog Sale, #53-010-10-01, bought by Northern Timberlands. Stand was whole-tree harvested in the summer but even with that, it did not result in enough scarification to successfully regenerate the entire stand. Regeneration is spotty and tends to be clumped around skid trails. Prior notes indicate this stand was poor quality to begin with so that may have something to do with it. Heavy deer and elk use has resulted in a thick grass and sedge layer throughout the stand. Some advanced oak regeneration was protected during the harvest, mostly at the east end. 2016 Regen survey results - Stand passes minimum standards for a mixed stand. JP 650 TPA, 3' average height. RP 100 TPA, 1" average height. WP 17 TPA, 1' average height. |
| 98 | 4130 - Aspen | Sapling Well | 7.5 | 17 | Immature | Stand was cut as part of Philip's Creek Blocks, #53-006-99-01, bought by AJD. Resulting regeneration is quite thick except for the west edge where beavers are taking out quite a bit of aspen. Most the fir and white pine regeneration is on this side. OPIC - FMD: 2001 STAND WAS CUT IN FEBRUARY OF 2001 BY A HAND CREW. THE SOUTHERN PORTION OF THE STAND WAS BURNED IN A WILDFIRE IN THE SPRING OF 2001 PRIOR TO THE ONSET OF REGENERATION. |
| 99 | 42220 - Natural Jack Pine | Sapling Medium | 42.9 | 7 | Immature | Stand was cut as part of The Barking Dog Sale, #53-010-10-01, bought and cut by Northern Timberlands. Jack pine has regenerated naturally quite well, although there are some patches where the stocking is not too great. Regen survey results are as follows (from 7 1/100th acre plots): jack pine 557 TPA (3' tall), red maple 29 TPA (2' tall). Stand falls just below required 600 TPA for jack pine but we will accept as is. Red maple regen is split between stump sprouts from the most recent cut as well as some pockets of advanced regen (>10' tall) that were left for some reason. Black cherry is abundant but was classified to the understory since it will not be a merchantable tree on this type of soil. Scattered residual red pine were left in clumps and averages 10 square feet throughout the stand. 3 small retention pockets were left as well. Producers did a nice job of retaining snags throughout the sale area. Nice looking sale, good sale set-up and good job by the logging crew. |
| 100 | 4311 - Pine, Aspen Mix | Sapling Well | 8.6 | 17 | Immature | Stand was cut as part of Philips Creek Blocks, #53-006-99-01, bought by AJD. A short-wood crew cut the sale. Previous notes indicate elk browse was an issue here. Recently there has also been a lot of beaver damage to the east side of the stand which has further reduced the aspen component. Jack pine has filled in the remaining areas quite nicely although there are some low-stocked areas mixed in. Trace of beech and red oak saplings. |



| | Level 4 Cover Type | Size Density | Acres | Stand Age | BA Range | General Comments: |
|-----|---|---------------------|-------|--------------|-------------|--|
| 101 | 4191 - Mixed Upland Deciduous with Conifer | Poletimber Well | 9.9 | 83 | 81-110 | Stand dominated by rather poor-quality red maple, most of which are stump sprouts. Stocking declines along the south edge, this is where most of the jack pine is located. Some steep slopes along the north line, most of the red pine and larger white pine are along this slope. Some areas of nice red oak regeneration in the understory. A lot of the jack pine has died. Trace of paper birch. Average ba/acre from 5 plots = 86 square feet. |
| 103 | 4123 - Red Oak | Sawtimber Medium | 16.5 | 89 | 51-80 | Stand was cut as part of the Barking Dog Sale, #53-010-10-01, bought and cut by Northern Timberlands. All red maple and orange-marked trees were removed from this stand. Nice red oak. Stump sprouts have been hammered by browse, it looks like some of the red maple may make it but none of the oak. Nice white pine understory. Southwest portion of the stand was excluded from harvest, this is where most of the red maple and aspen understory is located. Average ba/acre from 5 plots = 60 square feet. Retain the oak in this stand as browse has proven too severe here to rely on oak stump sprouts. Manage for a mixed age stand with an emphasis on the white pine understory. |
| 104 | 4130 - Aspen | Poletimber Well | 5.2 | 43 | 51-80 | Stand is under contract, Mud Lake Mix, #53-005-15-01, bought by Precision. A few areas of lower stocking, filling in with cherry and red maple saplings. Jack pine is mostly in a small clump at the south end. Remnants of an old wire fence at the south end of the stand on the side adjacent to the pipeline ROW. |
| 105 | 4123 - Red Oak | Sawtimber Medium | 3.5 | 99 | 51-80 | This stand doesn't look like it was cut when the surrounding stands were. Oak quality is pretty high. Areas of heavy browse on the red maple understory. Average ba/acre from 3 plots = 80 square feet. |
| 108 | 4133 - Aspen, Mixed Pine | Sapling Well | 4.1 | 26 | Immature | All white pine, red pine, and oak were left from the previous harvest. Variety of diameters on the residual pine. Aspen regenerated well, fully-stocked stand. |
| 109 | 4123 - Red Oak | Sawtimber Medium | 11.9 | 106 | 51-80 | Stand had all the aspen and maple removed in 1976. Other than the stump sprouts this understory is quite barren, almost park-like. A few red oak did regenerate when the stand was cut, most of this is along the north line and northeast corner. A steep slope is present along the east side. The oak is moderate quality with a lot of big diameters. Trace of red pine. Average ba/acre from 6 plots = 73 square feet. |
| 110 | 4130 - Aspen | Poletimber Well | 4.2 | 37 | 81-110 | Jack pine is mostly along the edge of the adjacent G stand. Quaking aspen clone in the west 1/3rd of the stand. Average ba/acre from 4 plots = 85 square feet. |
| 111 | 42290 - Natural Mixed Pine | Sawtimber Medium | 9.0 | 87 | 51-80 | Most of this stand lies on a slope overlooking the adjacent marsh to the west. The flatter areas of this stand may have had the aspen removed at the same time when the adjacent stand to the east was clearcut. Beavers likely removed all of it as there are scattered areas of lower stocking, most noticeable in the northern parts of the stand. Some areas of nice white pine poletimber. Average ba/acre from 6 plots = 72 square feet. No management recommended for this stand. |



| | Level 4 Cover Type | Size Density | Acres | Stand Age | BA Range | General Comments: |
|-----|---|---------------------|-------|--------------|-------------|--|
| 112 | 42290 - Natural Mixed Pine | Sawtimber Well | 2.6 | 99 | 81-110 | Nice natural pine stand along the marsh edge. Variety of diameters with some very large trees. Spruce/fir component most prominent along the marsh edge and east end of the stand. Trace of paper birch. Average ba/acre from 3 plots = 93 square feet. |
| 113 | 4133 - Aspen, Mixed Pine | Sawtimber Well | 1.1 | 87 | 81-110 | This stand was left as retention when the surrounding sale (Pickerel Lake Aspen, #53-018-09-01) was cut. A wet drainage runs down the middle of the stand. Average ba/acre from 3 plots = 90 square feet. |
| 114 | 4199 - Other Mixed Upland Deciduous | Poletimber Well | 3.2 | 45 | 81-110 | This stand was cut at the same time as the aspen stand to the west but came back to more of a hardwood/pine mix. Quite a bit of red oak regenerated here. There is also a second age class of very large red pine, white pine, and red oak scattered throughout. Let the stand mature. Average ba/acre from 4 plots = 102 square feet. |
| 116 | 4191 - Mixed Upland Deciduous with Conifer | Sawtimber Well | 4.5 | 88 | 81-110 | This stand was left as retention when the adjacent stand to the west was cut (see Sale Map for Pickerel Lake Aspen, #53-018-09-01). Moderate quality oak in the stand. The thin nature of this stand makes managing it on it's own impractical. Average ba/acre from 5 plots = 102 square feet. |
| 117 | 4191 - Mixed Upland Deciduous with Conifer | Sawtimber Well | 7.0 | 87 | 51-80 | Portions of this stand may have had the aspen and red maple removed, likely at the same time the aspen stand to the south was cut. The central part of the stand has some larger maple and aspen and must have been missed. Red oak is good quality with some big diameters. Average ba/acre from 5 plots = 78 square feet. |
| 118 | 4123 - Red Oak | Sawtimber Medium | 3.2 | 102 | 51-80 | Moderate quality oak with some large diameters. Heavy browse on the red maple understory in some areas. Far east end of stand is nearly pure red maple saplings. Single clone of aspen on the south line. Average ba/acre from 3 plots = 63 square feet. |
| 119 | 4199 - Other Mixed Upland Deciduous | Sawtimber Medium | 17.2 | 98 | 51-80 | Stand had a partial harvest at some point, removing all aspen and red maple. Diameters on the second age class are quite small. However, there are some spots that look like they were not included in the harvest. These spots are mostly along the east line and the northern end, where there are pockets of larger red maple as well as some scattered larger aspen. Some red oak did regenerate during the partial harvest, more in the west half of the stand, and are in the poletimber/small-sawlog size classes. Areas of low stocking, primarily in the west half. Areas of heavy browse on the red maple understory. Rolling terrain. The red oak is pretty high quality and healthy. Average ba/acre from 10 plots = 68 square feet. Allow the second age class to mature before managing. An illegal ORV trail originates on the east end of the stand near the pipeline ROW and cuts west into stand 38, ending at the maintained wildlife opening. |



| | Level 4 Cover Type | Size Density | Acres | Stand Age | BA Range | General Comments: |
|-----|---|----------------------|-------|--------------|-------------|--|
| 120 | 4123 - Red Oak | Sawtimber Poor | 15.0 | 84 | 1-50 | This stand was cut as part of Pickerel Lake Aspen, #53-018-09-01, bought and cut by Diversified Forestry. Everything was cut except for oak. Stand has regenerated well in spots, others are being impacted by browse such as the far southern end as well as east of Pickerel Lake Road. Very large landing was created during the sale, over an acre in size, not sure why it needed to be so big. The red oak residual is moderate quality and healthy, average ba/acre = 42 square feet. |
| 121 | 42290 - Natural Mixed Pine | Poletimber Medium | 3.9 | 69 | 51-80 | Semi-open stand. A portion of the south end sits on a steep side slope overlooking the marsh. The far northern end has some decent white pine and is where most of the aspen is located. Average ba/acre from 4 plots = 53 square feet. The west edge of the stand appears to be an old road. Where the road ends, a hunter walking trail heads east and continues through the adjacent U stand (#91). |
| 122 | 4130 - Aspen | Poletimber Well | 16.2 | 43 | 81-110 | Good looking stand of aspen but diameters are still quite small, especially in the north running portion of the stand. Diameters are larger in the east half of the stand which lies on a gentle slope. Some nice white oak regen scattered throughout, although most is overtopped by aspen. Very small amount of red oak that has regenerated and made it into the overstory. Average ba/acre from 6 plots = 95 square feet. Stand will be ready to harvest in ten years. |
| 124 | 4191 - Mixed Upland Deciduous with Conifer | Sawtimber Well | 2.6 | 84 | 81-110 | This stand is a retention pocket when the surrounding aspen stands were cut. Nice shrub representation. A few very large white pine and red oak. Trace of paper birch. Average ba/acre from 4 plots = 103 square feet. |
| 128 | 4130 - Aspen | Sapling Well | 5.3 | 6 | Immature | Stand cut as part of Pickerel Lake Aspen, #53-018-09-01, bought and cut by Diversified. Whole-tree harvest in spring/winter of 2012. Moderate to heavy browse on the red maple and aspen sprouts, heaviest along the eastern edge. Much of the aspen looks like it will make it though. |
| 129 | 4123 - Red Oak | Sawtimber Medium | 3.7 | 98 | 1-50 | Stand cut as part of Pickerel Lake Aspen, #53-018-09-01, bought and cut by Diversified. Whole-tree harvest in spring/winter of 2012. This portion of the sale has a heavy oak residual, average ba/acre = 47 square feet. Pretty heavy browse on the aspen and red maple regeneration. |
| 139 | 42220 - Natural Jack Pine | Sapling Medium | 7.3 | 26 | Immature | Stand cut as part of Pickerel Lake Jack Pine, #53-048-88-01, bought by Georgia Pacific. About 1/2 of this stand is on wet ground, with some areas dominated by leatherleaf. Regeneration is more sparse on these wetter areas. The Pickerel Lake Pathway travels through the eastern portion of the stand. |



| Stand | Cover Type | Acres | Managed Site | General Comments: |
|-------|-------------------------------|-------|--------------|---|
| 6 | 6239 - Mixed Emergent Wetland | 4.0 | No | Little Pigeon River flows through the stand. Lots of dead cedar, both standing and blown down, from previous beaver flooding. More alder to the south. Quite a bit of tree regeneration on the edges of the stand. |
| 7 | 320 - Upland Shrub | 70.8 | | <p>- Stand cut as part of Thorny Jack Pine sale (#53-015-09-01), bought and cut by Northern Timberlands. Whole-tree harvest in the fall. Regeneration has not been successful and falls below the 600 TPA minimum for a mixed stand. Jack pine has seeded in mostly in the south half. Red maple seeds and saps are mostly along northwestern edges of the stand. A few small clumps of quaking aspen saplings but they are being browsed hard. Right now the stand is dominated by black cherry, blueberry, grass, and sweetfern. A few nice clumps of hawthorn and serviceberry. Red pine residual averages about 20 square feet per acre. Regen survey results; JP 160 TPA, RM 350 TPA, RO 10 TPA, QA 10 TPA.</p> <p>- Stand sits in somewhat of a low-lying position in relation to the surrounding stands.</p> <p>- GIS indicates the habitat type is a PARVHa but I think it is more of a PVCd based on the amount of blueberry and sweetfern, Transitions to more of a PARVHa north of the road as well as the west and east stand edges. Dominant soil type is a Rubicon sand, not the Grayling sand typically associated with a barrens environment but still excessively well-drained. A few smaller types of more fertile soils are found in the north 1/3rd of the stand.</p> |
| 16 | 320 - Upland Shrub | 5.3 | No | A lot of snow on the ground but it looks like there is quite a bit of sweetfern in this stand. The southern part lies in a slight depression and may be somewhat of a frost pocket. |
| 18 | 320 - Upland Shrub | 8.6 | | Stand cut as part of Elk Rub Jack Pine timber sale, # 53-027-10-01. Cut by Northern Timberlands. Still in the process of regeneration but it looks like it will pass as a mixed stand which is acceptable in the prescription notes. The far north end has some advanced oak regeneration that was protected from harvesting damage. The middle part of the stand is coming in to red maple quite heavily, although the browse is severe. The southern part of the stand has some jack and white pine seedlings. Scattered residual red pine, white pine, and red oak. Some black cherry/sweetfern U type mixed in here and there. |
| 20 | 320 - Upland Shrub | 3.6 | No | Thin central part of the stand is where most of the red maple is located. The remaining part of the stand is mostly black cherry and scrubby jack pine. Some red oak saplings are scattered here and there. The far eastern end may be a frost pocket as it is in a slight depression. |
| 25 | 320 - Upland Shrub | 2.9 | No | |
| 27 | 320 - Upland Shrub | 12.0 | | <p>2016 Stand harvested in 2015 as part of Barred Mix, whole-tree harvest by Precision. All oak was left. Nice job on sale, minimal damage to the residual. Stand is still in the process of regeneration but deer and elk browse is already having a negative impact.</p> <p>OPIC - FMD: 2009 THIS STAND HAS BEEN SELECTED TO BE HARVESTED IN 2010 YOE AS EXTRA ACRES. OAK WILL BE LEFT AND AN AREA OF RETENTION.</p> |
| 36 | 500 - Water | 2.4 | No | |
| 39 | 6233 - Wet Meadow | 3.3 | No | Little Pigeon River flows through the stand. Standing dead cedar in the west half. |



| Stand | Cover Type | Acres | Managed Site | General Comments: |
|-------|-------------------------------|-------|--------------|--|
| 42 | 320 - Upland Shrub | 30.8 | | Stand harvested in 2015 as part of Barred Mix, whole-tree harvest by Precision. All oak and pine was left in this stand. Nice job on sale, minimal damage to the residual. |
| 49 | 320 - Upland Shrub | 7.8 | | Stand cut in 2015 as part of Barred Mix, whole-tree harvest by Precision. They didn't end up chipping this stand so not a lot of scarification took place. As a result I wouldn't expect much jack pine to regenerate. Quite a bit of red oak advanced regeneration was protected, along with some red maple unfortunately. A lot of black cherry as well. OPIC - FMD: 2007 It was agreed to at the Pre-review and Comp. Review that there would be no retention or residual for this stand. A MIXTURE OF SPECIES WILL BE ACCEPTABLE FOR REPRODUCING THE STAND, SUCH AS OAK, RED MAPLE, ASPEN, AND RED WHITE AND JACK PINE. |
| 59 | 310 - Herbaceous Openland | 1.7 | No | Assuming that this was an old landing which did not regenerate. |
| 62 | 6239 - Mixed Emergent Wetland | 16.5 | No | |
| 69 | 500 - Water | 43.5 | No | PICKEREL LAKE |
| 70 | 320 - Upland Shrub | 6.5 | No | This is the site of the former CCC Camp Vanderbilt. Some old foundation remnants are still visible. There are a few large piles of earth and stumps. The apple noted in the species coverage above is Siberian crabapple. White spruce most prevalent at the north end. |
| 89 | 320 - Upland Shrub | 10.0 | Yes | Not a managed opening. Scrubby jack pine throughout. Red maple more on the west side. Old charred stumps are present. Aspen has tried to sprout on some of the edges but browse has knocked it back. Two faint, old roads appear to converge in the central portion of the stand. |
| 90 | 6233 - Wet Meadow | 5.5 | No | Marsh that has been flooded by beavers in the past. Found a single patch of phragmites near the old beaver dam in the central part of the stand. |
| 91 | 320 - Upland Shrub | 6.0 | No | A large part of this stand is on a steep side slope overlooking the marsh and swamp to the south. Quite a bit of jack pine and red maple in the middle portion of the stand. Some barren ground here and there. |
| 92 | 320 - Upland Shrub | 3.3 | No | |
| 102 | 6239 - Mixed Emergent Wetland | 16.3 | No | This was formerly a swamp conifer stand dominated by black spruce and cedar but most of these trees have been killed by recent beaver flooding. There are still some patches of live timber along the edges, average ba/acre from 8 plots throughout the stand = 36 square feet per acre (60% cedar, 35% black spruce, 3% fir, 2% white pine). However, I would expect more trees to die in the next few years as nearly the entire southern half of the stand is under water. A fair amount of regeneration has become established along the edges of the flooding, particularly in the north half which doesn't have as much standing water. The main dam complex was in the middle portion of the stand and it looks like explosives may have been used here recently to restore flow to the creek? There is still an active dam at the far north end of the stand as well as at least one active dam in the south half. |



| Stand | Cover Type | Acres | Managed Site | General Comments: |
|-------|---------------------------|-------|--------------|--|
| 106 | 320 - Upland Shrub | 1.3 | No | Open stand, maybe this was a landing at one point? |
| 107 | 320 - Upland Shrub | 1.3 | No | |
| 115 | 3104 - Degraded | 1.6 | No | Sparsely vegetated depression that is used as a party spot and hill climb. Exposed sand/erosion is present on the side slopes. |
| 123 | 320 - Upland Shrub | 1.2 | No | Small open area, maybe used as a landing at one point? Heavy browse on the red maple seedlings. |
| 125 | 310 - Herbaceous Openland | 5.7 | No | LAKEHEAD NATURAL GAS PIPELINE RIGHT OF WAY, now Enbridge pipeline right of way. |
| 126 | 310 - Herbaceous Openland | 4.5 | Yes | MANAGED WILDLIFE OPENING. |
| 127 | 310 - Herbaceous Openland | 10.9 | Yes | Long winding opening in which nearly all of it is planted as a food plot. |
| 130 | 310 - Herbaceous Openland | 3.2 | Yes | Managed wildlife opening. Some areas haven't taken too well and are barren. |
| 131 | 310 - Herbaceous Openland | 5.1 | Yes | Entire stand is a food plot. No native herbaceous species present. |
| 132 | 310 - Herbaceous Openland | 1.0 | No | This is likely an old landing for when the surrounding stands were cut and never came back to trees. |
| 133 | 310 - Herbaceous Openland | 1.5 | Yes | MANAGED WILDLIFE OPENING. |
| 134 | 310 - Herbaceous Openland | 1.3 | Yes | Entire stand is a food plot. No native herbaceous species present. |
| 135 | 310 - Herbaceous Openland | 2.2 | Yes | Entire stand is a food plot. No native herbaceous species present. |
| 136 | 310 - Herbaceous Openland | 3.3 | Yes | Entire stand is a food plot. No native herbaceous species present. |
| 137 | 310 - Herbaceous Openland | 2.2 | Yes | Entire stand is a food plot. No native herbaceous species present. |
| 138 | 310 - Herbaceous Openland | 4.1 | Yes | Entire stand is a food plot. No native herbaceous species present. |