



# Compartment Review Presentation

## Pigeon River Country Forest Management Unit

Compartment 53033

Entry Year 2022

Acreage: 1,853

County Otsego

Management Area: Pigeon River Country

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**Revision Date:** 2020-07-22

**Stand Examiner:** Greg Rekowski

**Legal Description:**

T32N R01W Sections 1, 2, and 3

**Identified Planning Goals:**

Maintain 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 the Compartment is dominated by Blue Lake loamy sands and Leelanau loamy sands with the exception of an area of wet organics that lies primarily east of Little McMasters Creek Trail and an area of Rubicon sands in the middle of Section 3. Terrain is flat to gently rolling with some steep slopes around the sinkhole lakes.

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

This Compartment is entirely State owned.

**Unique Natural Features:**

Lost Lake, West Lost Lake, and Devil's Bowl Lake, located in Sections 2 and 3, are sinkhole lakes. There is also a dry sinkhole in stand 29, south of Hemlock Lake.

Hemlock, a relatively rare species across the PRC landscape, is a large component of several stands in the Compartment and can be found in the northern part of Section 3 and the eastern part of Section 1.

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

Stand 113 may be the site of an old homestead or logging camp.

**Special Management Designations or Considerations:**

None identified.

**Watershed and Fisheries Considerations:**

Lost Lake, West Lost Lake, and the Devil's Bowl Lake are located in Sections 2 and 3 of this Compartment. These lakes have been used by Fisheries Division for research in the past, but are now open to fishing with special regulations.

**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 200 and 600 feet, thickening to the west. Beneath the glacial drift is the Devonian Antrim Shale, quarried for clay/shale elsewhere in the State. The nearest gravel pit is located six miles to the northwest. The thick glacial moraine deposits, in Sections 1 and 2, are considered to have good gravel potential. However, page 30 of the Concept of Management for the PRC says that extraction of surface minerals will rarely be allowed. No oil and gas leases remain in effect after 2001. This area may have Guelph (Niagaran) reef trend potential and also the Antrim Shale may have some potential in this Compartment. 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:**

Vehicle access is good throughout the Compartment.

**Survey Needs:**

None identified.

**Recreational Facilities and Opportunities:**

Elk Hill Equestrian Campground is located in the southwest part of Section 3. The Shore to Shore Equestrian Trail as well as numerous equestrian connector trails can be found in the Compartment.

**Fire Protection:**

Fire risk is generally low except for Section 3 where there is a high percentage of pine cover types. Access is good, through open and closed roads, in the event of fire suppression needs.

**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**

Report 1 – Total Acres by Cover Type and Age Class

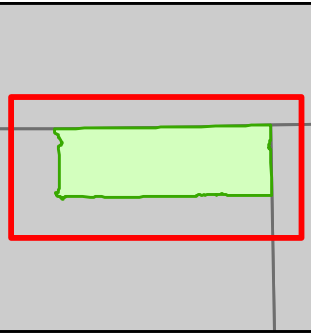


Age Class

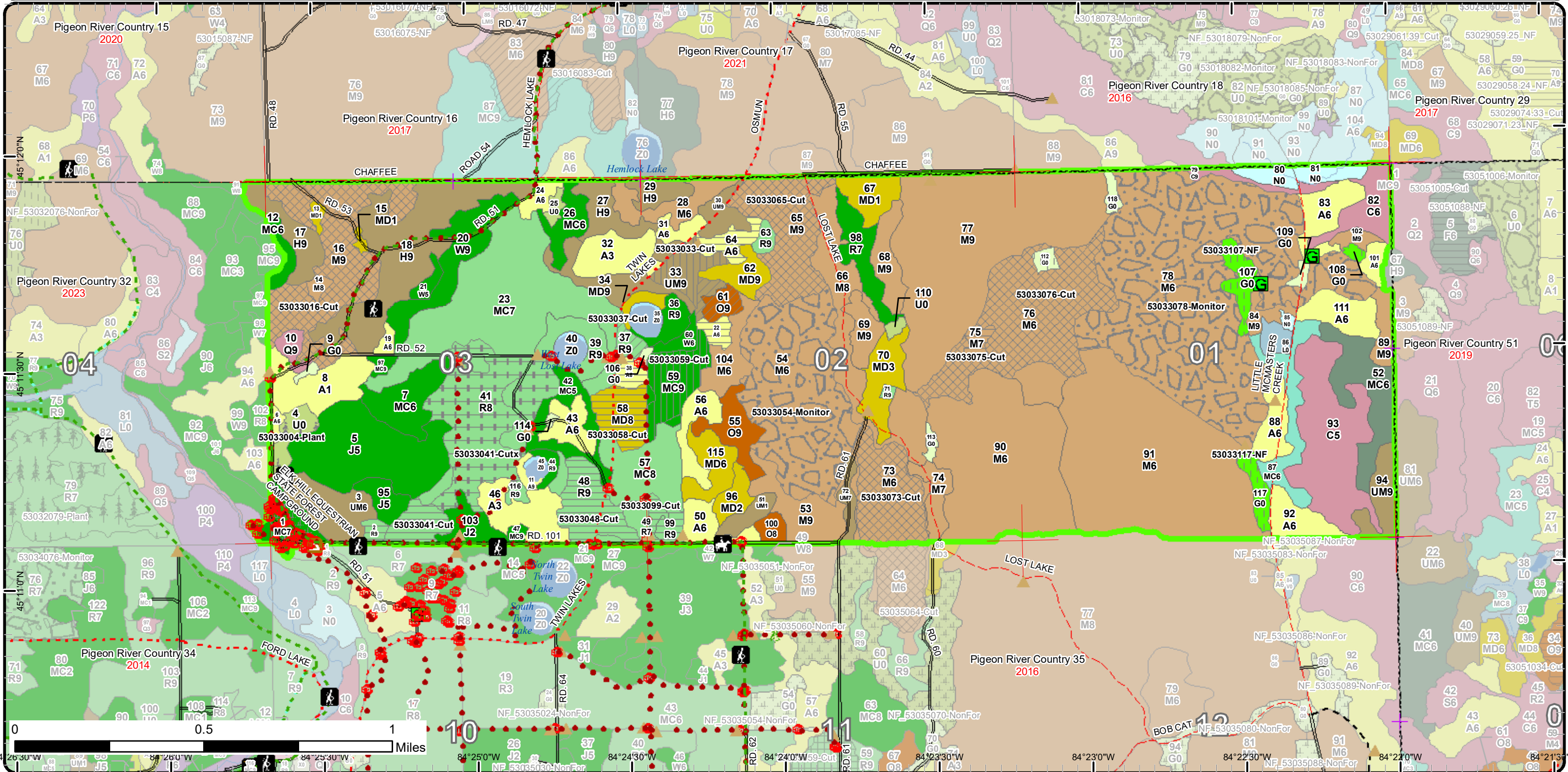
	Non-Forest	0-9	10-19	20-29	30-39	40-49	50-59	60-69	70-79	80-89	90-99	100-109	110-119	120-129	130-139	140-149	150+	Uneven-Aged	Total
Aspen	0	19	14	17	36	50	14	0	0	0	2	0	0	0	0	0	0	0	151
Cedar	0	0	0	0	0	0	0	0	0	0	47	18	0	0	0	0	0	0	65
Cropland	16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	16
Hemlock	0	0	0	0	0	0	0	0	0	0	0	0	12	0	0	0	0	67	79
Herbaceous Openland	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9
Jack Pine	0	0	0	9	0	51	0	0	0	0	0	0	0	0	0	0	0	0	60
Lowland Conifers	0	0	0	0	0	0	0	0	0	0	4	0	0	0	0	0	0	0	4
Lowland Shrub	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
Marsh	11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	11
Mixed Upland Deciduous	0	0	10	13	9	11	0	0	3	21	0	0	0	0	0	0	0	0	67
Natural Mixed Pines	0	0	0	0	26	0	0	0	0	0	50	0	0	0	0	0	0	0	76
Northern Hardwood	0	0	0	0	0	0	0	0	0	276	613	0	0	0	0	0	0	0	889
Oak	0	0	0	0	0	0	0	0	0	5	15	0	0	0	0	0	0	0	20
Planted Mixed Pines	0	0	0	0	0	0	0	0	0	0	101	0	0	0	0	0	0	0	100
Red Pine	0	0	0	0	0	0	0	0	4	0	137	0	0	0	0	6	0	0	147
Upland Conifers	0	0	0	0	16	0	0	0	0	0	0	0	0	0	0	0	0	23	39
Upland Mixed Forest	0	0	0	0	5	17	0	0	0	0	38	0	0	0	0	0	0	11	70
Upland Shrub	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10
Water	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10
White Pine	0	0	0	0	6	0	0	0	0	0	21	0	0	0	0	0	0	0	27
<b>Total</b>	<b>60</b>	<b>19</b>	<b>24</b>	<b>39</b>	<b>98</b>	<b>129</b>	<b>14</b>	<b>0</b>	<b>7</b>	<b>302</b>	<b>1028</b>	<b>18</b>	<b>12</b>	<b>0</b>	<b>0</b>	<b>6</b>	<b>0</b>	<b>101</b>	<b>1854</b>

# Cover Type & Treatments Map

Compartment: 33  
 T32N, R01W, Sec: 01, 02, 03  
 County: Otsego  
 Unit: Pigeon River Country  
 Mgmt Area: Pigeon River Country  
 YOE: 2022  
 Acres: 1852.8 GIS Calculated  
 Examiner: Greg Rekowski  
 Map Revised: 3/1/2021  
 Map Phase: Post-Review



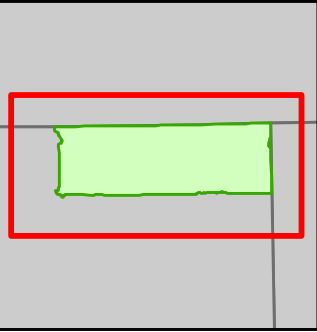
- Miris Corners
- + Remonumented Section Corners
- Counties
- DNR - Secondary Forest Road
- Federal / State - Dirt / Gravel Road
- County - Gravel Road
- County - Dirt Road (Seasonal)
- Designated Hiking Trails
- Designated Equestrian Trails
- Designated Ski Trails
- Intermittent Stream
- Lake/Pond
- Perennial River
- Lakes and Rivers
- Compartment Boundary
- Other Treatment - See Comments
- Selection (Group, Single Tree)
- Planting (tree species)
- Clearcut (w/Reserves)
- Harvest, Overstory Removal
- Thinning (Crown, Low, Systematic)
- Regeneration Survey
- Shelter Wood (w/Reserves)
- Opening Maintenance
- 411 - Northern Hardwood
- 412 - Oak Types
- 413 - Aspen
- 419 - Mixed Upland Deciduous
- 421 - Planted Pines
- 422 - Natural Pines
- 423 - Other Upland Conifers
- 429 - Mixed Upland Conifers
- 430 - Upland Mixed Forest
- 612 - Lowland Coniferous Forest
- 211 - Cropland
- 310 - Herbaceous Openland
- 320 - Upland Shrub
- 500 - Water
- 622 - Lowland Shrub
- 623 - Emergent Wetland



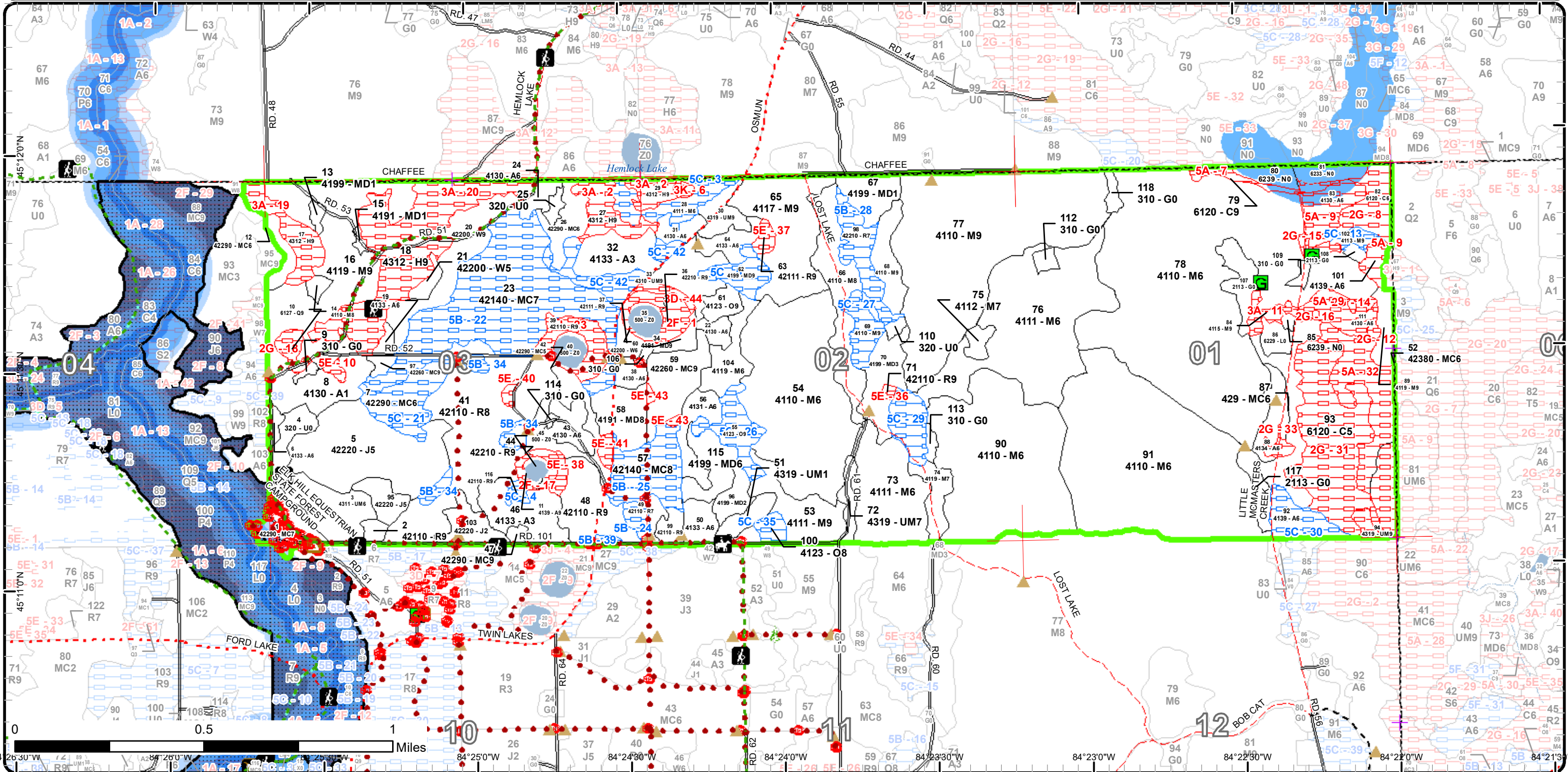


# Special Conservation Areas

Compartment: 33  
 T32N, R01W, Sec: 01, 02, 03  
 County: Otsego  
 Unit: Pigeon River Country  
 Mgmt Area: Pigeon River Country  
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- Miris Corners
- ⊕ Remonumented Section Corners
- ▭ Counties
- DNR - Secondary Forest Road
- - Federal / State - Dirt / Gravel Road
- · - County - Gravel Road
- · - County - Dirt Road (Seasonal)
- 🚶 Hiking Trails
- 🚲 Bike Trails
- 🐎 Horse Trails
- 🏂 Ski Trails
- Designated Hiking Trails
- - Designated Bicycle Trails
- Designated Equestrian Trails
- Designated Ski Trails
- 🚽 Toilet
- 🚧 Berms
- 🚪 Gate
- 🏕 Campground
- 🛑 Sign
- 🌲 Tree (marking)
- Intermittent Stream
- Lake/Pond
- Perennial River
- Lakes and Rivers
- ▭ Compartment Boundary
- ▭ Available w/ Constraints
- ▭ Unavailable
- 5B: Maintain for regeneration purposes
- 5C: Delay treatment for age/size class diversity or exceptional site quality
- 2F: Too steep
- 2G: Too wet (sensitive soils, does not include access issues)
- 3A: Conservation Values incompatible with harvest at this time
- 3D: Recreational / Scenic values
- 3J: Water quality / BMPs (stream, river, or lake)
- 3K: Rare or unique landforms
- 5A: Not able to obtain desirable regeneration
- 5E: Long-Term Retention
- ▭ Stand Boundaries
- ▭ SCA
- ▭ Natural Rivers Vegetative Buffer
- ▭ Natural Rivers Zoning District
- ▭ Cold Water Streams
- ▭ High Priority Trout Stream Buffer
- ▭ Spring or Seep





## Report 2 – Treatment Summary

### Acres of Harvest

Commercial Harvest - 338  
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	13	0	0	0	0	0	0	0	0	13
Mixed Upland Deciduous	13	0	0	0	0	0	0	0	0	13
Natural Mixed Pines	0	0	0	0	16	0	0	0	0	16
Northern Hardwood	3	181	0	0	0	0	0	0	0	185
Oak	0	0	0	0	0	7	0	0	0	7
Red Pine	37	0	0	0	0	4	54	0	0	95
Upland Mixed Forest	0	0	0	0	9	0	0	0	0	9
<b>Total</b>	<b>67</b>	<b>181</b>	<b>0</b>	<b>0</b>	<b>26</b>	<b>11</b>	<b>54</b>	<b>0</b>	<b>0</b>	<b>338</b>

### Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	338	0	7	0	0	0	264	9	18	636
Next Step	0	37	40	0	0	0	325	0	0	402
<b>Total</b>	<b>338</b>	<b>37</b>	<b>47</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>589</b>	<b>9</b>	<b>18</b>	<b>1038</b>



Standard

Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
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**Approved Treatments:**

<b>1</b>	<b>53033001-Other</b>	9.2	42290 - Natural Mixed Pine	Sawtimber Poor	95	1-50	Other	Other	4222 - Natural Jack Pine	Even-Aged	No
<p><u>Prescription</u> Treat all garlic mustard within this stand which is the site of Elk Hill Campground. This treatment will stay open until the garlic mustard is eradicated. It is associated with FTP # W53-459 and is being done in conjunction with Huron Pines.</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable</u></p> <p><u>Regen:</u></p> <p><u>Other</u> Garlic mustard found at numerous sites throughout the campground. Control efforts so far have focused on manually pulling but spraying with Roundup will be tried in the coming years.</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2020</p>											
<b>2</b>	<b>53033002-Cut</b>	2.3	42110 - Planted Red Pine	Sawtimber Well	94	81-110	Harvest	Clearcut	4211 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> Clearcut. Trench and replant to red pine. No area retention.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> SitePrep, Trenching; Planting, Initial Plant; Monitoring, Artificial Regen(1yr); Monitoring, Artificial Regen(3yr)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Fully-stocked stand of planted red pine.</p> <p><u>Regen:</u></p> <p><u>Other</u> No chipping required but ensure that tops are lopped and scattered.</p> <p><u>Comment:</u> Add horse trail specs.</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2021</p>											
<b>4</b>	<b>53033004-Plant</b>	7.1	320 - Upland Shrub	Nonstocked	0	Unspecified	Planting	ERROR	4211 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> Plant red pine without trenching the site in order to achieve full stocking in the stand. Plant at the same time as adjacent red pine stands to the east.</p> <p><u>Specs:</u></p> <p>Consult with TMS.</p> <p><u>Next Step</u> Monitoring, Artificial Regen(1yr); Monitoring, Artificial Regen(3yr)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Well-stocked stand of red pine.</p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2022</p>											





Standard

Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
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<b>16</b>	<b>53033016-Cut</b>	54.6	4119 - Mixed Northern Hardwoods	Sawtimber Well	98	111-140	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven-Aged	No
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Prescription Thin to 80-90. Focus removals on suppressed poletimber and poor quality sawlog trees. Create one large canopy gap (>66 feet in diameter) per 5 acres. Do not cut white pine, hemlock, or yellow birch. Stay a 1/2 chain away from hemlock or yellow birch clumps in order to prevent exposure shock. Leave large diameter cull trees with large amounts of rot for wildlife purposes. Leave a 1/2 chain buffer around the bog at the south end (stand #10) of the treatment.

Next Step Monitoring, Natural Regen (Intermediate)

Treatments:

Acceptable Regen: Canopy gaps filled with a diverse mix of northern hardwood species. Ironwood and beech dominated gaps will be considered a failure.

Other Comment: Add horse trail specs.

Site Condition

Proposed Start Date: 10/1 /2021

<b>22</b>	<b>53033022-Cut</b>	3.4	4130 - Aspen	Poletimber Well	52	111-140	Harvest	Clearcut	413 - Aspen	Even-Aged	No
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Prescription Clearcut with no area retention due to the small size of the stand. Leave the oak component, which is young and regenerated following the previous harvest of this stand. Leave 1 large diameter (20"+) red or white pine per acre.

Next Step Monitoring, Natural Regen (Intermediate)

Treatments:

Acceptable Regen: Fully-stocked stand dominated by aspen.

Other Comment: Add oak wilt spec.

Site Condition

Proposed Start Date: 10/1 /2021

<b>33</b>	<b>53033033-Cut</b>	9.3	4310 - Pine, Oak Mix	Sawtimber Well	93	111-140	Harvest	Shelterwood	4319 - Mixed Upland Forest	Two-Aged	No
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Prescription Mark to leave 20-30 sq ft in red pine, white pine, and red oak. Mark 1-2 poor quality trees per acre as cut and leave trees. No area retention but mark clumps of leave trees (3-5 trees) in areas that are heavy to pine.

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Regen: Any mix of pine, hardwoods, oak, and aspen resulting in a well-stocked stand will be acceptable.

Other Comment: Add oak wilt spec.

Site Condition

Proposed Start Date: 10/1 /2021



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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
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37	53033037-Cut	3.8	42111 - Planted Red Pine, Mixed Deciduous	Sawtimber Well	79	171-200	Harvest	Crown Thinning	4211 - Planted Red Pine	Even-Aged	No
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Prescription Thin down to 110 square feet. Focus on removing suppressed and overtopped red pine poletimber. Remove other species as needed for operational access.

Keep the north/northeast treatment line a 1/2 chain back of the steep slopes overlooking the lake.

Next Step  
Treatments:

Acceptable  
Regen:

Other Add horse trail specs.  
Comment:

Site Condition

Proposed Start Date: 10/1 /2021

38	53033038-Cut	3.5	4130 - Aspen	Poletimber Well	38	81-110	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
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Prescription Clearcut all species. Protect the old elk enclosure which is technically retention but it is very small, less than 0.1 acres.

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

Acceptable Fully-stocked stand dominated by aspen.  
Regen:

Other Add horse trail specs.  
Comment:

Site Condition

Proposed Start Date: 10/1 /2021

41	53033041-Cut	9.4	42110 - Planted Red Pine	Sawtimber Medium	96	51-80	Harvest	Clearcut	4211 - Planted Red Pine	Even-Aged	No
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Prescription Clearcut, trench, and replant to red pine. Reserve any red or white oak saplings that may be present.

Next Step SitePrep, Trenching; Planting, Initial Plant; Monitoring, Artificial Regen(1yr); Monitoring, Artificial Regen(3yr)  
Treatments:

Acceptable Fully-stocked stand of planted red pine.  
Regen:

Other Add 2" spec to knock down all jack pine regeneration.  
Comment: No chipping required but ensure that tops are lopped and scattered.

Add horse trail specs.

Site Condition

Proposed Start Date: 10/1 /2021



Standard

Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
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<b>41</b>	<b>53033041-Cutx</b>	53.6	42110 - Planted Red Pine	Sawtimber Medium	96	51-80	Harvest	Overstory Removal	4222 - Natural Jack Pine	Even-Aged	No
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Prescription Remove red pine overstory (anything > 5" DBH). Mark to leave 1-3 red pine trees per acre, preferably in areas where there is good jack pine regeneration and not much red pine residual. Cut all white pine from 5"-18" DBH. Leave all red oak residual.

Specs: Exclude areas of fully-stocked regeneration and little to no residual. These areas are already in the site condition layer (site condition #5B-34). Place a retention pocket around the popular camping area next to Road 52.

Next Step  
Treatments:

Acceptable Stocking that meets jack pine regeneration guidelines.  
Regen:

Other No chipping, roundwood only.  
Comment:

Add stringent specs to protect existing jack pine regeneration as much as possible.  
Add horse trail specs.

Site Condition

Proposed Start Date: 10/1 /2021

<b>48</b>	<b>53033048-Cut</b>	18.9	42110 - Planted Red Pine	Sawtimber Well	93	111-140	Harvest	Clearcut with Retention	4211 - Planted Red Pine	Even-Aged	No
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Prescription Clearcut all species. Trench and replant to red pine. Exclude the west part of the stand next to the lake for retention purposes (already in site condition layer).

Specs: Add 2" spec.

Require chipping of tops.

Next Step SitePrep, Trenching; Planting, Initial Plant; Monitoring, Artificial Regen(1yr); Monitoring, Artificial Regen(3yr)  
Treatments:

Acceptable Fully-stocked stand of planted red pine.  
Regen:

Other South side of the stand, east of Twin Lakes Road, has a small pocket of nice mixed pine regeneration that should be excluded from the treatment.  
Comment:

Add horse trail specs.

Use Road 52 for decking and landing purposes.

Site Condition

Proposed Start Date: 10/1 /2021

<b>54</b>	<b>53033054-Monitor</b>	79.5	4110 - Sugar Maple Association	Poletimber Well	95	81-110	Monitoring	Natural Regen (Intermediate)	411 - Northern Hardwood	Uneven-Aged	No
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Prescription Natural regen survey in canopy gaps. Sale was cut in the winter of 2018 so do a regen survey in 2022.

Specs:

Next Step  
Treatments:

Acceptable Northern hardwoods in canopy gaps.  
Regen:

Other  
Comment:

Site Condition

Proposed Start Date: 10/1 /2021



Standard

Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
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<b>58</b>	<b>53033058-Cut</b>	12.8	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Medium	86	51-80	Harvest	Clearcut	4191 - Mixed Upland Deciduous with Conifer	Even-Aged	No
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Prescription Clearcut with no area retention. Leave any white over 18" DBH. Leave 1 large crowned oak per acre.

Specs: Add 2" spec to ensure all understory regeneration is knocked down.

Next Step Monitoring, Natural Regen (Intermediate)

Treatments:

Acceptable Regen: Fully-stocked stand with a mix of red maple, red pine, white pine, and red oak. At least a 25% representation of red oak is required to be considered successful.

Other Comment: Utilize the closed road on the east side of the stand for decking and landing purposes.

Add horse trail specs.

Site Condition

Proposed Start Date: 10/1 /2021

<b>59</b>	<b>53033059-Cut</b>	16.4	42260 - Natural Pine, Mixed Deciduous	Sawtimber Well	93	81-110	Harvest	Shelterwood with Retention	4319 - Mixed Upland Forest	Even-Aged	No
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Prescription Shelterwood leaving 30 sq ft basal area of the largest and best quality pine. Do not mark leave trees in the few areas with high concentrations of aspen. Leave all oak. Mark 1-2 large diameter, poor quality white pine per acre as cut and leave trees for coarse woody debris.

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Regen: Any mix of pine, oak, aspen, and hardwoods resulting in a fully-stocked stand is acceptable.

Other Comment: Recommended retention areas are in the site condition layer and are areas with a large amount of younger oak mixed in. Add oak wilt specs. Add horse trail specs.

Site Condition

Proposed Start Date: 10/1 /2021

<b>61</b>	<b>53033061-Cut</b>	7.2	4123 - Red Oak	Sawtimber Well	85	111-140	Harvest	Crown Thinning	412 - Oak Types	Even-Aged	No
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Prescription Crown thin down to 80-90 square feet. Focus on removing smaller diameter oak stems from the poletimber and sawlog size classes. Extend the treatment line west into stand 33 until the closed road. In this part of the treatment (stand 33), focus on thinning red pine and releasing oak.

Next Step

Treatments:

Acceptable Regen:

Other Comment: Add bark slip and oak wilt specs - no exceptions.

Site Condition

Proposed Start Date: 10/1 /2021



Standard

Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
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<b>64</b>	<b>53033064-Cut</b>	6.5	4133 - Aspen, Mixed Pine	Poletimber Well	47	111-140	Harvest	Clearcut	413 - Aspen	Even-Aged	No
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Prescription Clearcut with no area retention due to the small size of the stand. Cut all species except for any incidental oak. Mark 1 large diameter (18"+) red or white pine per acre. If present, reserve any legacy trees. Mark 1-2 poor formed white pine per acre as cut and leave trees for coarse woody debris.

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Fully-stocked stand dominated by aspen.

Regen:

Other

Comment:

Site Condition

Proposed Start Date: 10/1 /2021

<b>65</b>	<b>53033065-Cut</b>	33.9	4117 - Mixed N. Hardwood - Pine	Sawtimber Well	93	111-140	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven-Aged	No
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Prescription Group selection. Create large (>100' gaps) in areas heavy to red pine. Take GPS points at each gap for follow-up regen monitoring. TSI/thin below the remainder of the stand to 80-90 square feet. Cut all beech but leave any large diameter wildlife trees or trees without scale. Do not cut white pine or oak which are small components of the stand. Retain some clumps of red pine (3-5 trees).

Next Step Monitoring, Natural Regen (Intermediate)

Treatments:

Acceptable Canopy gaps filled with desired hardwoods and conifers such as sugar maple, red maple, basswood, birch, red pine, and white pine. Beech and ironwood comprising more than 50% of the gaps will be considered a failure.

Other Use the landing at the northeast side that was used for the recent harvest in stand 66. No new roads.

Comment:

Site Condition

Proposed Start Date: 10/1 /2021

<b>73</b>	<b>53033073-Cut</b>	28.3	4111 - S.Maple, Hard Mast Association	Poletimber Well	89	111-140	Harvest	Group Selection	411 - Northern Hardwood	Uneven-Aged	No
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Prescription Crown thin down to 80-90 BA. Cut all beech except leave BBD resistant trees as well as large diameter wildlife trees. Create large canopy gaps in areas heavy to beech.

Next Step Monitoring, Natural Regen (Intermediate)

Treatments:

Acceptable Northern hardwood species in canopy gaps not dominated by beech and ironwood.

Regen:

Other This treatment was sold initially to Precision in the sale Stilt Root Hardwoods, #53-008-13-01. No cutting took place and the sale was dropped. It is being re-advertised in the sale Stilt Root 2, #53-014-19-01. Lines and marking had to be refreshed due to the long time since it had been initially marked.

Comment:

Site Condition

Proposed Start Date: 10/1 /2011



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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
<b>75 53033075-Cut</b>	3.2	4112 - Maple, Beech, Cherry Association	Sawtimber Poor	99	51-80	Harvest	Clearcut	411 - Northern Hardwood	Even-Aged	No
<p><u>Prescription</u> Cut all species except for basswood, white pine, or any resistant beech. Add 2" spec to get all of the regeneration knocked down. Mark 1-2 poor quality beech per acre as cut and leave trees for coarse woody debris.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Planting, Initial Plant; Monitoring, Natural Regen (Intermediate)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Hardwood regeneration not dominated by beech or ironwood.</p> <p><u>Regen:</u></p> <p><u>Other</u> To replace the loss of beech mast, after harvest plant a mix of different mast producing trees such as red oak, white oak, bur oak, hickory, and resistant chestnut. These trees will need to be fenced to protect from browse.</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2020</p>										
<b>76 53033076-Cut</b>	64.5	4111 - S.Maple, Hard Mast Association	Poletimber Well	92	81-110	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven-Aged	No
<p><u>Prescription</u> Cut all beech except leave any resistant trees or large diameter wildlife trees. Create large canopy gaps (&gt;100 foot diameter) in areas that are heavy to beech. Thin the remaining portions of the stand down to 80 square feet. Mark 1-2 large diameter cull trees per acre as cut and leave trees to enhance large coarse woody debris.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Canopy gaps that are fully-stocked and not dominated by beech or ironwood.</p> <p><u>Regen:</u></p> <p><u>Other</u> GPS canopy gaps and put them in the reference layer.</p> <p><u>Comment:</u> Exclude the far southern end which has much lower BAs and a lot of ash blowdown.</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2020</p>										
<b>78 53033078-Monitor</b>	184.6	4110 - Sugar Maple Association	Poletimber Well	90	81-110	Monitoring	Natural Regen (Re-Inventory)	411 - Northern Hardwood	Uneven-Aged	No
<p><u>Prescription</u> Natural regen survey in canopy gaps.</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Check canopy gaps for acceptable hardwood regeneration.</p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2031</p>										



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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
<b>99 53033099-Cut</b>	6.5	42110 - Planted Red Pine	Sawtimber Well	93	111-140	Harvest	Clearcut	4211 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> Clearcut, trench, and replant to red pine. No area retention but leave 1 large diameter (18"+ DBH) natural pine per acre. The treatment boundary will extend west to the closed road and include a portion of stand 49.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> SitePrep, Trenching; Planting, Initial Plant; Monitoring, Artificial Regen(1yr); Monitoring, Artificial Regen(3yr)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Fully-stocked stand of planted red pine.</p> <p><u>Regen:</u></p> <p><u>Other</u> Add 2" spec.</p> <p><u>Comment:</u> No chipping required but ensure tops are lopped and scattered evenly.</p> <p>Add horse trail specs.</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2021</p>										
<b>107 53033107-NF</b>	8.4	2113 - Forage Crops	Nonstocked			Unspec ified	NonForestMgt	Herbaceous/Crop /Grass Planting	2113 - Forage Crops	No
<p><u>Prescription</u> Mow, plant, brush, and/or herbicide to maintain opening. Planting of hard and soft mast.</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable</u></p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2021</p>										
<b>108 53033108-NF</b>	1.2	2113 - Forage Crops	Nonstocked			Unspec ified	NonForestMgt	Herbaceous/Crop /Grass Planting	2113 - Forage Crops	No
<p><u>Prescription</u> Mow, plant, brush, and/or herbicide to maintain opening. Planting of hard and soft mast.</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable</u></p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2021</p>										
<b>112 53033112-NF</b>	2.1	310 - Herbaceous Openland	Nonstocked			Unspec ified	NonForestMgt	Herbaceous/Crop /Grass Planting	2113 - Forage Crops	No
<p><u>Prescription</u> Mow, plant, brush, and/or herbicide to maintain opening. Planting of hard and soft mast.</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable</u></p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2021</p>										



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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
117 53033117-NF	5.9	2113 - Forage Crops	Nonstocked		Unspecified	NonForestMgt	Herbaceous/Crop /Grass Planting	2113 - Forage Crops		No
<p><u>Prescription</u> Mow, plant, brush, and/or herbicide to maintain opening. Planting of hard and soft mast.</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable</u></p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2021</p>										

Total Treatment Acreage Proposed: 636.1



**Availability for Management**

Total Acres	Acres Available	Acres Avail		Acres Not Available		Dominant Site Conditions										
		With Condition				5B	5C	1A	2F	2G	3A	3D	3J	3K	5A	5E
151	108	10		33	Aspen		10		2	5			0		25	1
65	0	0		65	Cedar					60					5	
16	16	0		0	Cropland											
79	0	0		79	Hemlock						78			1		
9	9	0		0	Herbaceous Openland											
61	61	0		0	Jack Pine											
4	0	0		4	Lowland Conifers					4						
4	4	0		0	Lowland Shrub											
11	11	0		0	Marsh											
66	56	8		3	Mixed Upland Deciduous		8		3							
75	57	16		2	Natural Mixed Pines		16	0	0							1
888	852	32		4	Northern Hardwood		32				4					
20	5	15		0	Oak		15									
101	0	99		2	Planted Mixed Pines	99										2
146	94	26		26	Red Pine	24	2		9				11			6
39	16	0		23	Upland Conifers										23	
71	46	11		13	Upland Mixed Forest		11				3				11	
10	10	0		0	Upland Shrub											
10	10	0		0	Water											
27	27	0		0	White Pine											
1,853	1,381	218		254	Total Forested Acres	123	95	0	13	68	82	3	11	1	64	11
	75%	12%		14%	Relative Percent											

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

Site No.	Dominant Site Cond	Dominant Site Condition	Acres	Other Site Condition	Other Site Condition	Other Site Condition	Other Site Condition
1	Unavailable	2F: Too steep	9	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Steep slopes surrounding Lost Lake.							

## Report 4 – Site Conditions

Pigeon River Country Mgt. Unit

Compartment: 33

Greg Rekowski : Examiner

Year of Entry: 2022

2	<b>Unavailable</b>	<b>3A: Conservation Values incompatible with harvest at this time</b>	15	5A: Not able to obtain desirable regeneration	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Hemlock dominated stands. If exclosures become available, consider adding some to these stands to get hemlock regeneration.							
3	<b>Available</b>	<b>5C: Delay treatment for age/size class diversity or exceptional site quality</b>	12	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Should have been thinned when stand 78 in Comp 17 was thinned. Awkward stand to manage on it's own with the terrain around the lake and poor condition of Chaffee Trail. Manage next entry when stand 31 (A6) is cut.							
4	<b>Available</b>	<b>5C: Delay treatment for age/size class diversity or exceptional site quality</b>	2	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
5	<b>Available</b>	<b>5C: Delay treatment for age/size class diversity or exceptional site quality</b>	8	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Stand is not ready for a thinning yet. Manage for oak/hardwoods using uneven-aged techniques.							
6	<b>Unavailable</b>	<b>3K: Rare or unique landforms</b>	1	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Dry sinkhole							
7	<b>Unavailable</b>	<b>5A: Not able to obtain desirable regeneration</b>	5	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Stand is not overly wet but there is no indication we are able to regenerate cedar in this area. The cedar salvage stand directly to the north does not have any regeneration.							

## Report 4 – Site Conditions

Pigeon River Country Mgt. Unit

Compartment: 33

Greg Rekowski : Examiner

Year of Entry: 2022

8	<b>Unavailable</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	13	5A: Not able to obtain desirable regeneration	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Wet stand for the most part. A stream travels north-south through the center.							
9	<b>Unavailable</b>	<b>5A: Not able to obtain desirable regeneration</b>	25	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> High deer and elk numbers in this area will present regeneration issues for these stands. Similar stands that were harvested to the east in Compartment 51 have not regenerated well, see stand 6 which was once an A6 and is now a non-forested stand.							
10	<b>Unavailable</b>	<b>5E: Long-Term Retention</b>	1	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
11	<b>Unavailable</b>	<b>3A: Conservation Values incompatible with harvest at this time</b>	4	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Multiple areas of wet ground mixed in. High hemlock component.							
12	<b>Unavailable</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	2	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Wetland/vernal pool in the north half. A forested drainage extends south out of this into stand 52. Aspen and maple are most frequent in the drainage but there is also hemlock, cedar, ash, paper birch, and yellow birch present. Protect both areas from harvesting.							
13	<b>Available</b>	<b>5C: Delay treatment for age/size class diversity or exceptional site quality</b>	3	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Thin at a later time. Transitional stand with a cedar and hemlock component.							

**Report 4 – Site Conditions**

**Pigeon River Country Mgt. Unit**

**Compartment: 33**

**Greg Rekowski : Examiner**

**Year of Entry: 2022**

14	<b>Unavailable</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	0	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Wetland/vernal pool. Protect with a buffer when harvested.							
15	<b>Unavailable</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	0	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Area of wet ground.							
16	<b>Unavailable</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	0	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Wetland/vernal pool. Protect with a buffer when harvested.							
17	<b>Unavailable</b>	<b>2F: Too steep</b>	4	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
18	<b>Unavailable</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	4	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
19	<b>Unavailable</b>	<b>3A: Conservation Values incompatible with harvest at this time</b>	12	5A: Not able to obtain desirable regeneration	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							

**Report 4 – Site Conditions**

Pigeon River Country Mgt. Unit

Compartment: 33

Greg Rekowski : Examiner

Year of Entry: 2022

20	<b>Unavailable</b>	<b>3A: Conservation Values incompatible with harvest at this time</b>	51	5A: Not able to obtain desirable regeneration	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
21	<b>Available</b>	<b>5C: Delay treatment for age/size class diversity or exceptional site quality</b>	16	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Not ready for a thinning yet.							
22	<b>Available</b>	<b>5B: Maintain for regeneration purposes</b>	79	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Retain overstory until regeneration matures.							
23	<b>Unavailable</b>	<b>3J: Water quality / BMPs (stream, river, or lake)</b>	11	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Lake buffer, also steep slopes.							
24	<b>Available</b>	<b>5B: Maintain for regeneration purposes</b>	4	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
25	<b>Available</b>	<b>5B: Maintain for regeneration purposes</b>	20	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							

**Report 4 – Site Conditions**

Pigeon River Country Mgt. Unit

Compartment: 33

Greg Rekowski : Examiner

Year of Entry: 2022

26	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	11	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> High quality oak on hardwood soils.							
27	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	8	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
28	Available	5B: Maintain for regeneration purposes	13	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
29	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	10	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
30	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	10	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Manage with the stands to the south in Comp 35 when they are ready for treatments.							
31	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	47	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							

**Report 4 – Site Conditions**

Pigeon River Country Mgt. Unit

Compartment: 33

Greg Rekowski : Examiner

Year of Entry: 2022

32	<b>Unavailable</b>	<b>5A: Not able to obtain desirable regeneration</b>	34	3A: Conservation Values incompatible with harvest at this time	Unspecified	Unspecified	Unspecified
<b>Comments:</b> High hemlock and cedar component.							
33	<b>Unavailable</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	2	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Series of wet ground and vernal pools. Standing water present in areas.							
34	<b>Available</b>	<b>5B: Maintain for regeneration purposes</b>	7	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Areas of nearly pure J3 that should be excluded from harvest.							
35	<b>Available</b>	<b>5C: Delay treatment for age/size class diversity or exceptional site quality</b>	4	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
36	<b>Unavailable</b>	<b>5E: Long-Term Retention</b>	1	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
37	<b>Unavailable</b>	<b>5E: Long-Term Retention</b>	2	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Leave this small stand untreated for retention purposes and let convert to hardwoods over time.							
38	<b>Unavailable</b>	<b>5E: Long-Term Retention</b>	2	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							

## Report 4 – Site Conditions

Pigeon River Country Mgt. Unit  
Greg Rekowski : Examiner

Compartment: 33  
Year of Entry: 2022

39	<b>Available</b>	<b>5B: Maintain for regeneration purposes</b>	1	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Area of nice mixed pine regeneration to exclude from the harvest of stand 48.							
40	<b>Unavailable</b>	<b>5E: Long-Term Retention</b>	1	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Popular camping area that should be excluded with retention.							
41	<b>Unavailable</b>	<b>5E: Long-Term Retention</b>	2	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> This area is retention for stand 57.							
42	<b>Available</b>	<b>5C: Delay treatment for age/size class diversity or exceptional site quality</b>	11	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
43	<b>Unavailable</b>	<b>5E: Long-Term Retention</b>	1	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> 2 recommended retention areas for stand 59. These areas have nice component of younger oak.							
44	<b>Unavailable</b>	<b>3D: Recreational / Scenic values</b>	3	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> This portion of stand 33 is close to the parking lot for Lost Lake and is also very close to the steep slopes surrounding the lake.							



Mgt. Unit

Compartment: #Type!

Year of Entry:



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

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

SCA Name	SCA Category	Detail Type	Recommendation	Acres
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Comments

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

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

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

Conservation Area	Type	Description
SCA	Cold Water 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	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.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																																													
1	42290 - Natural Mixed Pine	Sawtimber Poor	12.2	95	1-50	N/A	Elk Hill State Forest Equestrian Campground. Nice shrub diversity around the perimeter of some sites. There used to be more jack pine around the edges but most if it is now dead. Garlic mustard has been found on numerous sites and manure bunkers. Non-native honeysuckle clumps on the southwest side of the campground.																																																																													
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2	42110 - Planted Red Pine	Sawtimber Well	2.3	94	81-110	N/A	This stand was not harvested when any of the surrounding stands were cut. Trace of paper birch. Average ba/acre from 5 plots = 106 square feet.																																																																													
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3	4311 - Pine, Aspen Mix	Poletimber Well	17.3	44	51-80	N/A	Moderate to low quality stand, especially the quaking aspen which does not look healthy in many areas. Small inclusion of bigtooth aspen at the far southern end near the road/trail. Jack pine shows a little better growth and quality than the adjacent jack pine stands of similar age. Trace of red oak, red pine, and a few XL-sized white pine. Average ba/acre from 8 plots = 71 square feet.																																																																													
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4	320 - Upland Shrub	Nonstocked	7.1	0	Unspecified	4319 - Mixed Upland Forest	Stand cut as part of Elk Hill Mix, #53-002-12-01, bought by Precision. It had a whole-tree harvest in the summer of 2016 but not much scarification took place and as a result natural regeneration of jack pine is struggling with only a few seedlings showing up in some of the main skid trails. This stand was previously a J6 with a component of aspen. Some aspen has regenerated but it is being heavily browsed to the point that almost all of it is below 3 feet tall. It doesn't look like much of it will survive. Grass and sedge are starting to take over large areas of the stand. Small area of retention was left along the road. A few scattered white pine, white spruce, and red pine saps and poles were left.																																																																													
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5	42220 - Natural Jack Pine	Poletimber Medium	45.4	44	51-80	N/A	Moderate quality jack pine stand that has a lot of snapped-off crowns and dead trees, likely from a heavy snowstorm in the spring of 2012 which did similar damage to other jack pine stands throughout the PRC. Dry site with reindeer moss common throughout the understory. Diameters are still quite small at this point and would benefit from another entry or two of growth before harvesting. Trace of balsam fir, white spruce, and red oak. Average ba/acre from 15 plots = 63 square feet. The far NE corner of the stand was the site of a failed oil well (Corwith 1-3), plugged in 1983.																																																					
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6	4133 - Aspen, Mixed Pine	Poletimber Well	2.0	46	51-80	N/A	Moderate quality aspen stand with a nice component of mixed conifers. The aspen is quite small for its age. Apparently this stand was cut and then rollerchopped in 1975, maybe that has something to do with the small size of the aspen? Average ba/acre from 4 plots = 70 square feet.																																																					
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7	42290 - Natural Mixed Pine	Poletimber Well	16.0	94	141-170	N/A	Highly variable stand that has a wide range of diameters and ages, could potentially be called uneven-aged. The log/pole sized red pine was likely planted but there is also a component of much larger diameter, natural origin red pine. The white pine component is natural and mostly poletimber although there are scattered large sawlog stems throughout the stand. This white pine component is thick in areas, especially the interior of the stand. Jack pine is mostly along the south/southwest edge. This stand structure is likely a result of a heavy thinning that took place in the mid 1970's. Average ba/acre from 9 plots = 143 square feet. Hold ten years for the poletimber component to develop more and then thin with a goal of promoting white pine over red pine.																																																					
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8	4130 - Aspen	Sapling Poor	19.3	5	Immature	N/A	Stand cut as part of Elk Hill Mix, #53-002-12-01, bought by Precision. Stand had a whole-tree harvest in the summer of 2016. Aspen regeneration has come back well in the western 1/3rd of the stand near the road but the remainder of the stand has been hit very hard by browse. Most aspen in the browsed areas are below 3 feet and I'm doubtful they will survive. All maple stump sprouts are dead or close to it due to browse. Black cherry looks like it will take over many of the browsed areas.																																																					
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9	310 - Herbaceous Openland	Nonstocked	0.9	47	Unspecified	No	This stand was used as a landing when stands 4 and 8 were harvested. Aspen and BAM are trying to seed in. Some leftover slash is scattered throughout.																																																					
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10	6127 - Lowland Pine	Sawtimber Well	3.9	93	111-140	N/A	Unique stand dominated by white pine. The northern 2/3rds of the stand transitions to lowland with an interior pocket of leatherleaf and standing water, and surrounded by a ring of very large white pine and smaller red maple. The southern 1/3rd of the stand is upland and has some aspen mixed in. Average ba/acre from 5 plots = 128 square feet.																																																															
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11	4139 - Aspen, Mixed Deciduous	Sawtimber Well	2.0	92	111-140	N/A	Stand sits on very steep slopes leading down to Devil's Bowl Lake. More red pine on the upper slopes. Trace of jack pine poletimber. Average ba/acre from 3 plots = 127 square feet. Beavers have girdled many of the aspen at the base over the years. Newer beaver activity is present at the north end of the stand.																																																															
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12	42290 - Natural Mixed Pine	Poletimber Well	4.7	31	51-80	N/A	Stand was clearcut in 1990 and was formerly a mixed hardwood/aspen/jack pine stand. It has regenerated to a nice mix of white and red pine. Aspen only regenerated in a small clone in the center part of the stand. The rest of the deciduous species are still in the sapling size class and are mostly undesirables, except for a small amount of paper birch. The north and south ends have some areas where regeneration is sparse. Average ba/acre from 5 plots = 65 square feet. Mostly flat terrain except for a steep valley in the middle part of the stand.																																																															
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13	4199 - Other Mixed Upland Deciduous	Sapling Poor	1.6	31	1-50	N/A	Semi-open stand with a sparse overstory of larger hardwoods. Open areas are a nice mix of raspberry, milkweed, and other native herbaceous species. Ironwood is filling in along the edges. I'm guessing this area was used as a landing/decking area when the surrounding hardwood stand was last thinned.																																																															
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14	4110 - Sugar Maple Association	Sawtimber Medium	1.8	98	51-80	N/A	Heavily cut-over stand with a lot of ironwood regeneration in the understory. A few small herbaceous open areas are mixed in, mostly on the east/southeast side.																																																															
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15	4191 - Mixed Upland Deciduous with Conifer	Sapling Poor	1.1	31	1-50	N/A	Small semi-open stand that is filling in with ironwood around the edges while the interior is more of a G type. Sparse supercanopy of older white pine, sugar maple, basswood, and black cherry. I'm guessing this was used as a landing/decking area when the adjacent hardwoods were thinned in 1983.																																																															
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16	4119 - Mixed Northern Hardwoods	Sawtimber Well	54.6	98	111-140	N/A	High quality hardwood stand that is heavy to sugar maple, especially in the north half of the stand. Quality declines slightly at the far southern end where species composition shifts towards a red maple/sugar maple/birch mix. Nice representation of hemlock throughout, both individual trees and in clumps. Most of the hemlock are healthy although some have signs of old porcupine damage. Although rare, there is a small component of a 2nd age class of larger, older hardwoods, most of which are sugar maple greater than 20" DBH. Stand was last thinned in 1985, an old road network is still visible from that harvest. Most beech in the stand have BBD. Average ba/acre from 15 plots = 129 square feet. Flat terrain.																																																															
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17	4312 - Hemlock, Mixed Deciduous	Sawtimber Well	12.0	117	141-170	N/A	Nice hemlock-dominated stand with some large diameter trees present. Most of the hemlock is high quality and appears healthy. Most of the beech has BBD and quite a bit of it has died and fallen over already. As a result of this there is a lot of coarse woody debris on the ground as well as some small canopy gaps. Trace of log-sized black cherry in the overstory. Average ba/acre from 6 plots = 150 square feet. Flat terrain. No management due to the hemlock influence.																																																															
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments				
18	4312 - Hemlock, Mixed Deciduous	Sawtimber Well	50.7	148	141-170	N/A	Nice stand of healthy hemlock with a mix of other species present. Stand density is high with limited light reaching the understory so there is not much in the way of regeneration. Beech and ironwood saplings start to show up in the areas that are heavier to hardwoods. Only a few areas where it looks like porcupine damage has impacted the hemlock. Stand ages were verified from a 15" DBH hemlock and a 12" DBH sugar maple. Another 14" DBH hemlock was aged at 131 years old. Beech used to be a larger component of the stand but a lot of it is dying or dead from BBD. These dead trees are contributing to coarse woody debris and creating their own canopy gaps when falling to the ground, both of which may be beneficial to future hemlock regeneration. The far northeast corner of the stand transitions to more of a W9. Active stick nest found in the central part of the stand in a large sugar maple (see OFS layer). Trace of quaking aspen and black cherry in the overstory. Average ba/acre from 15 plots = 158 square feet. Gently rolling terrain. No management.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Ironwood		1	Pole	6		Beech		Low	Variable	Sapling	
Yellow Birch		1	Log	12		Ironwood		Low	Variable	Sapling	
Basswood		5	Log	13		Sugar Maple		Trace	Variable	Sapling	
Beech		4	Log/Pole/XLog	13							
Paper Birch		1	Log	12							
Sugar Maple		16	Log/Pole	11	98						
Red Maple		15	Log/Pole/XLog	12							
White Pine		6	Log/XLog	16							
Hemlock		51	Log/Pole/XLog	12	148						
19	4133 - Aspen, Mixed Pine	Poletimber Well	1.9	38	81-110	N/A		This stand was cut by George Kimball in 1983. Aspen came back well in the south half of the stand but is mostly absent from the north half. White pine is dominant in the north half although it is low quality from past weevil damage. Some of the black cherry look like they will be merchantable stems. Lots of serviceberry in the understory. Average ba/acre from 4 plots = 90 square feet. Flat terrain.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species			Density	Avg. Height	Size
Jack Pine		1	Pole	5		Ironwood			High	Variable	Sapling
Red Pine		1	Pole	5		Beech			Trace	Variable	Sapling
Ironwood		10	Sapling	3		Black Cherry			Low	Variable	Tall Shrub
Hemlock		1	Log	15		Serviceberry (Juneberry)			Medium	Variable	Tall Shrub
Black Cherry		2	Pole	6		Witch Hazel			Trace	5 - 10 feet	Tall Shrub
White Pine		30	Pole/Log/Sap	7							
Red Maple		10	Sapling/Pole	4							
Quaking Aspen		45	Pole/Sapling	6	38						
20	42200 - Natural White Pine	Sawtimber Well	21.2	93	81-110	N/A	Stand thinned in the summer of 2012 as part of Elk Hill Mix, #53-002-12-01, bought by Precision Forestry. Nice white pine with a wide variety of diameters, including some very large trees. A few canopy gaps were created but regeneration has not responded well yet and there is evidence of heavy browse. Scattered large aspen were left as wildlife trees. A few small retention pockets were left around trees with stick nests. There is a heavy beech understory in those areas where logging equipment did not go. Average ba/acre from 6 plots = 100 square feet. Gently rolling terrain. Continue to manage in the future with uneven-aged techniques.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Red Maple		4	Pole	6		Black Cherry		Low	Variable	Tall Shrub	
Sugar Maple		1	Pole	6		Beech		High	Variable	Sapling	
Quaking Aspen		15	Log/XLog	15		Ironwood		Low	Variable	Sapling	
Red Pine		14	Log	14							
White Pine		66	Log/Pole/XLog	14	93						
21	42200 - Natural White Pine	Poletimber Medium	2.7	38	51-80	N/A	This stand was cut by George Kimball in 1983. The only area that regenerated well is the far south end of the stand which has the only aspen clone in the stand as well as a pocket of dense pine. The remainder of the stand is open grown, weeviled white pine with a lot of ironwood saplings. Some of the black cherry may become merchantable. Trace of residual sugar maple, hemlock, and white pine, all mostly along the edges. Average ba/acre from 4 plots = 80 square feet. Flat terrain. Other than the south end, there is not much quality in this stand, look at options for restarting this stand next entry with the hopes of increasing diversity and quality.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Ironwood		12	Sapling	3		Ironwood		High	Variable	Sapling	
Beech		2	Sapling	2		Beech		Low	Variable	Sapling	
Black Cherry		3	Pole/Sapling	5		Black Cherry		Medium	Variable	Tall Shrub	
Quaking Aspen		8	Pole	6		White Pine		Low	Variable	Sapling	
White Pine		75	Pole/Log/Sap	8	38						



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																																	
<b>22</b>	4130 - Aspen	Poletimber Well	3.4	52	111-140	N/A	Moderate quality aspen stand sitting on a slight western aspect. Hardwood influence increases as you move east up the slope. A decent amount of oak regenerated following the original harvest, more in the north half, and it is now in the poletimber/small sawlog size classes. Average ba/acre from 5 plots = 118 square feet.																																																																	
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<b>23</b>	42140 - Planted Mixed Pine	Sawtimber Poor	78.5	93	1-50	N/A	This stand was harvested in 2010 as part of the Red Pine Project in the sale West Lost Lake RPP (#53-016-09), bought by Biewer. It doesn't look like much scarification resulted from that harvest however there is still quite a bit of red and white pine seeding in. In addition, the harvest protected some scattered clumps of advanced pine regeneration. Deciduous species regeneration is limited to mostly beech and black cherry. The cherry component becomes heavy in the middle part of the stand. Red maple would be expected to take over a site like this but it is mostly absent from the stand, with the exception of the far east side of the stand near Twin Lakes Road. The lack of red maple is a testament to the high browse pressure in this area. The southwestern part of the stand has some barren areas where regeneration is still lacking. Trace of quaking aspen and red oak in the overstory. Several retention pockets were left. Average residual ba/acre from 10 plots = 30 square feet. The residual is mostly high quality and becoming large in diameter (red pine component was planted in 1928, white pine is natural). Retain the residual overstory trees and let this stand continue to develop. As of now, it looks like it will one day be a nice mixed conifer stand. Did not see any evidence, either in FTP notes or on the ground, that oak seedlings were planted in the stand post-harvest (as mentioned in the OI rx notes below).  OPIC - FMD: 2008 RRP PROJECT TWO STAND. TAKE THE BA DOWN TO BETWEEN 30 AND 40 BA. RETAIN SOME SMALL POCKETS OF MATURE PINE IN THE STAND. PLANT ACORNS IN STAND TO HELP ESTABLISH AN OAK PINE STAND. IF ANY ASPEN IS LEFT HERE LEAVE IT FOR WILDLIFE.																																																																	
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments	
<b>24</b>	4130 - Aspen	Poletimber Well	4.1	38	51-80	N/A	Stand was clearcut in 1983 in the sale Sinkhole Aspen. Aspen regenerated well. Hardwood influence increases along the north edge. Nice component of shrubs in the understory. Trace of balsam fir in the overstory. Average ba/acre from 4 plots = 75 square feet. Manage with the adjacent aspen stand to the north in Compartment 16 (stand #86).	
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>		
White Pine		10	Pole/Sapling	6		White Pine		
Sugar Maple		2	Pole/Sapling	5		Red Maple		
Red Maple		5	Pole/Sapling	5		Sugar Maple		
Red Pine		1	Pole	6		Ironwood		
Quaking Aspen		82	Pole	7	38	Balsam Fir		
						Red Pine		
						Black Cherry		
						Serviceberry (Juneberry)		
						Witch Hazel		
<b>25</b>	320 - Upland Shrub	Nonstocked	1.9		Unspecified	No		This stand was clearcut in 1983 in the sale Sink Hole Aspen but did not regenerate successfully. Old inventory notes mention heavy browse throughout the years. White pine has filled in substantially, almost to the point of being a W1 stand, but it is very poor quality from continuous weevil damage. Trace of red maple poletimber. An old road runs north-south through the middle of the stand.
<b>Sub-Canopy Species</b>		<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>				
White Pine		High	Variable	Sapling				
White Pine		Low	Variable	Pole				
White Pine		Trace	>20 feet	Log				
Red Pine		Trace	Variable	Sapling				
Red Pine		Low	>20 feet	Pole				
Red Pine		Trace	>20 feet	Log				
Quaking Aspen		Trace	>20 feet	Pole				
Black Cherry		Medium	Variable	Tall Shrub				
Hazelnut (American)		Trace	5 - 10 feet	Tall Shrub				
Choke Cherry		Trace	5 - 10 feet	Tall Shrub				
<b>26</b>	42290 - Natural Mixed Pine	Poletimber Well	9.1	38	81-110	N/A	This stand was clearcut in 1983 in the sale Sinkhole Aspen. Red and white pine regenerated well, especially along the west edge and narrow southern finger where there are some areas of dense stocking. Some of the clumps of red pine almost appear planted, although no planting records exist. The northeast 1/2 of the stand has more open-grown patches of white pine as well as a small clone of aspen along the east edge. Old inventory notes mentioned heavy browse on aspen and other deciduous species which explains their absence in the stand. Nice shrub diversity in some areas. Trace of red oak saplings in the overstory. Average ba/acre from 9 plots = 97 square feet. Gently rolling terrain.	
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>		
Balsam Fir		1	Pole	7		White Pine		
Bigtooth Aspen		1	Pole	7		Ironwood		
Quaking Aspen		10	Pole	7		Black Cherry		
Jack Pine		5	Pole	6		Serviceberry (Juneberry)		
Red Pine		25	Pole/Log	8		Witch Hazel		
White Pine		58	Pole/Log/Sap	7	38	Hazelnut (American)		
						Maple Leaved Viburnum		



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
27	4312 - Hemlock, Mixed Deciduous	Sawtimber Well	10.1	167	111-140	N/A	<p>Old, mostly healthy hemlock stand. The stand age was taken from a 16" DBH hemlock. There are likely a variety of ages of hemlock present. North half of the stand is dominated by hemlock while the south half has more hardwoods mixed in. A lot of old blowdown at the far southeast side of the stand. Trace of red pine, paper birch, and yellow birch. Average ba/acre from 8 plots = 130 square feet. Heavy deer and elk use. Portions of the stand were thinned in 1985 in the sale Hardwood Sink, bought by Frank Barnby. The thinning stayed out of most of the hemlock pockets. No future management recommended for this stand due to the hemlock influence.</p>		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Red Oak	1	Log/XLog	17		Beech	Medium		Variable	Sapling
Ironwood	1	Pole	6		Ironwood	Low		Variable	Sapling
Beech	7	Log/XLog/Pole	13		Striped Maple	Trace		Variable	Sapling
Basswood	4	Log	13		Sugar Maple	Trace		Variable	Sapling
Red Maple	5	Pole/Log	9						
Sugar Maple	25	Log/Pole	12	90					
White Pine	9	Log/XLog	17						
Hemlock	48	Log/XLog/Pole	13	167					
28	4111 - S.Maple, Hard Mast Association	Poletimber Well	12.2	90	111-140	N/A	<p>Nice hardwood stand with a lot of high quality sugar maple stems. The stand varies in composition somewhat as the east half of the stand is almost exclusively sugar maple and basswood. The west half has much more diversity and larger diameter trees. Red oak is mostly concentrated in the central part of the stand. An older age class of large diameter maple is scattered throughout, more common along the edges of the hemlock stands. Most beech has BBD. Trace of yellow birch, ironwood, and bigtooth aspen. Average ba/acre from 12 plots = 123 square feet. Apparently this stand was thinned in 1985 in the sale Hardwood Sink, bought by Frank Barnby. However there isn't much evidence of any prior cutting.</p>		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Red Oak	5	Log/XLog	15		Beech	Medium		Variable	Sapling
White Pine	2	XLog/Log	20		Sugar Maple	Low		>20 feet	Sapling
Hemlock	3	Log/Pole/XLog	13						
Beech	6	Log/XLog/Pole	13						
Basswood	32	Log/Pole	12						
Red Maple	6	Log/Pole	10						
Sugar Maple	46	Pole/Log	9	90					
29	4312 - Hemlock, Mixed Deciduous	Sawtimber Well	6.3	107	141-170	N/A		<p>Hemlock and mixed hardwood stand of moderate quality. There are a few clumps of nearly pure hemlock but most is scattered throughout. Most of the hemlock appears healthy and there are likely a variety of ages present. Most of the beech has BBD. Trace of black cherry and yellow birch. Average ba/acre from 6 plots = 142 square feet. This stand was apparently thinned in 1985 in the sale Hardwood Sink, bought by Frank Barnby, but there is not much evidence of any past cutting. The east end of the stand is a deep, dry sinkhole with hardwoods growing along the side walls and at the bottom. Quite a unique feature. No management in this stand.</p>	
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height		Size
Paper Birch	1	Pole/Log	8		Beech	Medium	Variable		Sapling
Basswood	4	Log	12						
Red Oak	3	Log/XLog	16						
Beech	12	Log/Pole/XLog	12						
Sugar Maple	15	Log/Pole	10						
Red Maple	22	Pole/Log	8	90					
White Pine	3	XLog/Log	19						
Hemlock	40	Log/Pole/XLog	13	107					
30	4319 - Mixed Upland Forest	Sawtimber Well	7.0	93	81-110	N/A	<p>Scattered red pine mixed in with hardwoods. BAs aren't nearly as high as surrounding stands. Some areas of lower stocking that look like they had a partial harvest long ago. Trace of balsam fir, red maple, black cherry, and paper birch in the overstory. Average ba/acre from 6 plots = 97 square feet. See previous OI comments below and retain for aesthetics at this time.</p> <p>OPIC - FMD: 2010 LET THIS STAND NATURALLY CONVERT TO HARDWOODS ALONG OSMUN ROAD</p>		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Quaking Aspen	3	Pole/Log	8		Beech	Medium		Variable	Sapling
Ironwood	5	Pole	6		Ironwood	Medium		Variable	Sapling
Basswood	6	Log/Pole	11		White Ash	Trace		Variable	Sapling
Sugar Maple	33	Pole/Log	8		Sugar Maple	Trace		Variable	Sapling
Red Pine	43	Log/XLog	15	93					
White Pine	10	Log/XLog	15						



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																																						
<b>31</b>	4130 - Aspen	Poletimber Well	4.1	47	141-170	N/A	Decent looking aspen stand, diameters are still small in some areas though. An old enclosure is present next to Twin Lakes Road. The smaller sugar maple component, which is the same age as the aspen, is abundant in a few localized areas of the stand understory. A couple of larger red oak saplings are present but mostly overtopped. Trace of paper birch. Average ba/acre from 5 plots = 150 square feet. Flat terrain.																																																																						
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<b>32</b>	4133 - Aspen, Mixed Pine	Sapling Well	13.8	16	Immature	N/A	Stand cut in 2004 in the sale Lost Lake Aspen Block, #53-011-02, bought by AJD. All species cut except for a clump of residual oak in the middle of the stand. Regeneration came in well throughout most of the stand. Previous OI noted heavy browse in the west half of the stand which is likely the reason there is a lot of pine in that area and not much aspen. Thick understory of shrubs and ironwood in some areas. Rolling terrain but no steep slopes.																																																																						
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<b>33</b>	4310 - Pine, Oak Mix	Sawtimber Well	25.7	93	111-140	N/A	Planted red pine mixed in with several other species. Stand does not resemble a plantation due to the other species present. Areas with lesser amounts of red pine have more of the maple and oak component mixed in. The aspen component, similar to the red pine, occurs in clumps and is not uniform. More of the white pine can be found west of the road. There is a small percentage of larger, natural origin red pine present. Site quality becomes better along the east line as the hardwood influence starts to increase. Trace of basswood and paper birch. Average ba/acre from 16 plots = 131 square feet. Rolling terrain but no steep slopes.																																																																						
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<b>34</b>	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Well	2.9	79	81-110	N/A	Like stand 36, this stand sits on steep slopes leading down to Lost Lake. Oak is more dominant in the west half of the stand. One very large white oak is near the lake edge and then another smaller 9" tree is in the parking lot. In addition to the parking lot at the top of the ridge, there is also a small trail that traverses down to the lake. Average ba/acre from 5 plots = 88 square feet.																																																																						
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<b>35</b>	500 - Water	Nonstocked	3.9		Unspecified	No	Lost Lake																																																																						



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36	42210 - Natural Red Pine	Sawtimber Well	6.1	141	81-110	N/A	Stand of very old and large natural origin red pine that sits on steep slopes surrounding Lost Lake. Stand age was verified from a 21" DBH red pine. Many of the larger red pine have old fire scars. A second age class of smaller red pine is present in a few areas, not sure whether or not they are planted. Hemlock in a clump on the south side of the lake. Average ba/acre from 6 plots = 110 square feet. No management due to steep slopes.																																																																
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37	42111 - Planted Red Pine, Mixed Deciduous	Sawtimber Well	3.8	79	171-200	N/A	Dense red pine stand that hasn't been thinned before. Quite a few of the red pine are smaller poletimber trees that are overtopped. The red pine component is mostly planted although there are a few larger XL-sized natural red pine along the north/northeast edge. The east half of the stand has a larger concentration of deciduous species. White pine is not common except for the small sliver of the stand south of the closed road. Striped maple becomes common in the understory along the north/northeast edge. Average ba/acre from 6 plots = 175 square feet.																																																																
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38	4130 - Aspen	Poletimber Well	3.5	38	81-110	N/A	Stand was cut in 1983 in the sale Sink Hole Aspen. Aspen regenerated well except for the southeast part of the stand which is now mostly a mix of white pine, ironwood, and red maple. Average ba/acre from 5 plots = 104 square feet. Mostly flat terrain. An old elk enclosure is present in the middle of the stand. Aspen stocking is much higher inside than outside of the enclosure. Sugar maple saplings are also present inside the enclosure but absent from the rest of the stand.																																																																
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39	42110 - Planted Red Pine	Sawtimber Well	10.9	93	111-140	N/A	Stand serves as a buffer around West Lost Lake. There are some steep slopes immediately adjacent to the lake on which there is some natural pine. The upper slopes and flat ground are planted pine and were left as retention during the harvest of stand 23. Average ba/acre from 7 plots = 136 square feet. No management.																																																																
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																											
41	42110 - Planted Red Pine	Sawtimber Medium	70.8	96	51-80	N/A	Scattered red pine overstory with a nice understory of jack pine. The regeneration is a result of a species removal harvest in 1992 by Crawford Forest Products (Horseshoe Jack Pine, #53-015-91) where everything was cut out of the stand except for red pine, white pine, and red oak. The red pine residual is moderate quality and variable in stocking with some areas having nearly pure jack pine saplings with hardly any residual while other areas are more dense clumps with BAs over 100. In particular, the southwest area of the stand has a much higher BA with less jack pine regeneration and is more like an R9. More white pine residual can be found in the NW part of the stand. Trace of red maple and log size jack pine in the overstory. Average ba/acre from 17 plots = 70 square feet. Flat terrain.																																																											
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42	42290 - Natural Mixed Pine	Poletimber Medium	12.2	38	51-80	N/A	Stand was harvested in 1983 in the sale Sink Hole Aspen. Regeneration came back pretty well to mixed pine although there are a few areas of lower stocking. Diameters tends to vary considerably with some areas being mostly sub-merchantable saplings while others are in the poletimber size class. Majority of the white pine is low quality from weevil damage. Nice representation of natural red pine. Most of the aspen is either at the far north end or the southwest corner. Trace of red oak saplings. Average ba/acre from 11 plots = 71 square feet. Flat terrain.																																																											
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43	4130 - Aspen	Poletimber Well	8.1	38	81-110	N/A	Stand was harvested in 1983 in the sale Sink Hole Aspen. Aspen regeneration came back well. Some open areas in the middle adjacent to the road without much regeneration. Well-developed shrub layer throughout much of the stand. Trace of red oak ingrowth. There is an old elk enclosure in the northeast part of the stand. Average ba/acre from 6 plots = 87 square feet. Gently rolling terrain. Stand may be ready for a treatment next entry.																																																											
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44	42210 - Natural Red Pine	Sawtimber Well	2.5	98	201+	N/A	Natural red pine stand sitting on steep slopes that lead down to Devil's Bowl Lake. Ongoing beaver activity at the NW end of the stand. Average ba/acre from 3 plots = 210 square feet.																																																											
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<b>46</b>	4133 - Aspen, Mixed Pine	Sapling Well	16.5	29	1-50	N/A	Mostly well-stocked stand that alternates between patches of aspen and mixed pine. The northwest part of the stand is almost all mixed pine and could probably be typed on it's own if desired. A nice component of natural red pine is filling in some areas. The stand was harvested in 1992 in the sale Horseshoe Jack Pine, #53-015-91-01, bought by Crawford Forest Products. A horse trail runs east-west through the western half of the stand.																																																											
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<b>47</b>	42290 - Natural Mixed Pine	Sawtimber Well	1.5	93	141-170	N/A	Mixed pine stand that has not been treated before. The red pine was planted but no planting records exist for the white pine. Relatively dense stand but there are a lot of smaller white pine stems. A couple of large, old natural pine are present, more along the southern edge of the stand. Average ba/acre from 4 plots = 145 square feet.																																																											
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<b>48</b>	42110 - Planted Red Pine	Sawtimber Well	22.1	93	111-140	N/A	Variable stocking due to a species removal harvest in 1992 that cut everything except red pine, white pine, and oak (Horseshoe Jack Pine, #53-015-91-01, Crawford Forest Products). The residual pine is moderate quality with some variability in diameters. Following the harvest, bigtooth aspen regenerated well in a few scattered clumps. The south side of the part of the stand that is east of the road has some nice mixed pine regeneration. A few small pockets along the western stand boundary were not included in the harvest and still have some larger aspen, maple, and birch mixed in. Although rare, there is a small component of much older natural red pine scattered throughout. Trace of jack pine and paper birch in the overstory. Average ba/acre from 12 plots = 113 square feet.																																																											
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<b>49</b>	42110 - Planted Red Pine	Sawtimber Poor	6.2	93	1-50	N/A	This stand had a partial harvest in 1992 in the sale Horseshoe Jack Pine (#53-015-91), bought by Crawford Forest Products. Everything was cut from this stand except for red pine, white pine, and red oak. As a result of the species removal the overstory residual is irregularly stocked and not uniform throughout. The residual stems are also not very good quality except for a few large red pine. Jack pine regenerated well in the stand, mostly west of the closed road. Average ba/acre from 5 plots = 50 square feet. The old chip landing is at the northeast end of the stand.																																																											
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
50	4133 - Aspen, Mixed Pine	Poletimber Well	8.8	34	51-80	N/A	This stand was clearcut in 1974 and then the regeneration was burned in a wildfire in 1987 which reset the stand. Aspen came back moderately well and is mostly in the north half of the stand as well as the finger that extends east. The far eastern end has better site quality and a few more species are present including trace amounts of sugar maple, red maple, paper birch, and red oak saplings. Mixed pine regenerated very well in the southwest part of the stand. Rolling terrain throughout. There is a small, old elk enclosure on the south side of the stand adjacent to the road.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Ironwood	1	Sapling	3		White Pine	Medium		Variable	Sapling
Jack Pine	11	Sapling/Pole	4		Red Maple	Low		Variable	Sapling
White Pine	12	Pole/Sapling	5		Black Cherry	Low		Variable	Tall Shrub
Red Pine	11	Pole/Sap/Log	5		Witch Hazel	Trace		5 - 10 feet	Tall Shrub
Red Maple	14	Sapling/Pole	3						
Quaking Aspen	24	Pole/Sapling	5						
Bigtooth Aspen	27	Pole/Sapling	5	34					
51	4319 - Mixed Upland Forest	Sapling Poor	5.2	34	Immature	N/A		This stand was clearcut in 1974 and then was burned in a wildfire in 1987. It has not regenerated well except for the central part of the stand which has some clumps of hardwoods. However, the hardwoods that did regenerate are primarily ironwood and beech. Open-grown, weevil damaged white pine is filling in both the southwest and northeast parts of the stand. The stand slopes up to the northeast and site quality increases as you move up the slope, most jack pine is at the lower slope on the southwest end. Trace of red oak, white oak, and quaking aspen saplings. Old OI notes indicate that elk browse was a significant factor in regeneration success.	
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height		Size
Red Pine	1	Sapling/Pole	4		Black Cherry	Medium	Variable		Tall Shrub
Red Oak	1	Log/XLog	16						
Sugar Maple	2	Sapling	2						
Red Maple	5	Sapling	3						
Jack Pine	11	Sapling/Pole	4						
Ironwood	22	Sapling	2						
Beech	20	Sapling	2						
White Pine	38	Sapling/Pole	3	34					
52	42380 - Non Pine Upland Conifer, Mixed Deciduous	Poletimber Well	23.1	137	111-140	N/A	Mixed species stand with a large component of cedar and hemlock. Most of the stand is upland although it appears the water table is very close to the surface with the stand perhaps being seasonally wet in the spring. Undulating pit and mound topography throughout. Wetter areas along the east and west edges of the stand. Most of the hemlock and cedar is healthy. Cedar age verified from an 13" DBH tree. Trace of black spruce, beech, and quaking aspen. Average ba/acre from 6 plots = 118 square feet. No management due to the sensitive soils and hemlock and cedar component.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Yellow Birch	1	Pole	7		Balsam Fir	Medium		Variable	Sapling
White Pine	2	Log/XLog	17						
Paper Birch	14	Pole/Log	8						
Red Maple	23	Log/Pole	10	87					
Balsam Fir	3	Pole	6						
Hemlock	21	Log/XLog/Pole	13						
53	4111 - S.Maple, Hard Mast Association	Sawtimber Well	16.8	92	51-80	N/A	Moderate quality hardwoods with a component of high quality red oak. A wildfire ran through this stand in 1987 and had a subsequent savage harvest. Several stems have damage on the lower boles which may be either fire scars or damage from logging equipment. Heavy understory of ironwood. Not much coarse woody debris in the stand, very simplistic looking hardwood stand. Northwest area of the stand has lower BAs with trace amounts of more diverse regeneration like red maple, sugar maple, white pine, and red pine. Average ba/acre from 8 plots = 76 square feet. Rolling terrain.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
White Pine	2	Log/XLog	15		Ironwood	Full		Variable	Sapling
Red Oak	25	Log/XLog	16		Beech	Low		5 - 10 feet	Sapling
Red Maple	5	Log	11		White Ash	Trace		Variable	Sapling
Basswood	12	Log/Pole	11						
Sugar Maple	56	Log/Pole	10	92					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																					
<b>54</b>	4110 - Sugar Maple Association	Poletimber Well	79.8	95	81-110	N/A	Stand thinned in the sale Bolt Hardwoods, #53-004-12-01, bought and cut by Precision in the winter of 2017-18. Nice job on the sale, minimal residual damage. All unmarked beech were added to the harvest as an amendment, a few were left here and there. Nice poletimber in the stand, particularly the further west you go. A few large canopy gaps made, mostly in the eastern half. A small exclosure was placed in one of the canopy gaps.																																																					
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<b>55</b>	4123 - Red Oak	Sawtimber Well	11.4	92	111-140	N/A	Nice red oak stand with a component of smaller diameter hardwoods mixed in. Basal areas vary and are lower at the south and north ends. The middle part of the stand has higher BAs and is very high quality. The finger that extends west is mostly red oak and lower quality as it is sitting near the bottom of a western slope. The remainder of the stand is on somewhat of a ridgeline or slight west-facing slopes. Suppressed sugar maple saplings are old and do not represent new ingrowth. Trace of paper birch. Average ba/acre from 7 plots = 117 square feet. Should have been lumped in with the hardwood stand to the east and thinned at the same time. Will have to wait to thin until adjacent hardwood stands are ready.																																																					
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<b>56</b>	4131 - Aspen, Oak	Poletimber Well	9.1	47	81-110	N/A	This stand was clearcut in 1974 by Shankleton Forest Products. Aspen is dominant but red oak regenerated very well in the stand too. The stand is sitting on a slight west facing slope and site quality increases as you head east up the slope. Trace amounts of large white pine supercanopy trees. Average ba/acre from 7 plots = 110 square feet.																																																					
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<b>57</b>	42140 - Planted Mixed Pine	Sawtimber Medium	22.2	93	51-80	N/A	This stand was cut in 2013 in the sale Double Digit Pine (#53-005-12-01), bought by Biewer, cut by a roundwood crew. The residual pine stems are high quality. Although rare, there is a second age class of larger, older pine scattered throughout. The portion of the stand west of the road was used for retention purposes. Regeneration hasn't responded well at this point and most seedlings appear to be either white pine or red maple with a few red pine seedlings mixed in. Average ba/acre of the residual = 54 square feet. Hold this stand for one entry before treating.																																																					
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58	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Medium	12.8	86	51-80	N/A	Stand was last harvested in 1992 in the sale Horseshoe Jack Pine, removing everything except paper birch, red oak, white pine, and red pine. Regeneration has come back mostly to red maple and ironwood. Red maple regeneration is abundant in the west half of the stand but shifts to more of a mix with ironwood the further east you go. The red oak residual is moderate quality with a few large diameter trees here and there. The paper birch residual is mostly dead at this time. Trace of red and sugar maple poletimber. Average ba/acre from 9 plots = 71 square feet. Mostly flat terrain except for west of the road which is on a slight west-facing slope.																																																																					
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59	42260 - Natural Pine, Mixed Deciduous	Sawtimber Well	17.5	93	81-110	N/A	Clumps of mature pine dominate the stand. Quality is good on many of the stems but there are a few pockets of poor quality, weeviled white pine. Apparently the red pine was planted but no planting records exist for the white pine. Overall the stand does not resemble a planted stand as there is no evidence of rows. A few small clones of aspen are present but it is not widespread throughout the stand. A decent amount of red oak regenerated following the last harvest and can be found more in the south half of the stand. Site quality increases slightly as you move east. Flat terrain. Trace of paper birch and poletimber black cherry. Average ba/acre from 14 plots = 97 square feet.																																																																					
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60	42200 - Natural White Pine	Poletimber Well	3.3	38	81-110	N/A	Stand was cut in the sale Sinkhole Aspen, #53-006-83-01. It has regenerated well to white pine. Small representation of red and white oak saplings and poles. Mostly flat terrain except for the east end which gradually slopes down. Average ba/acre from 5 plots = 86 square feet.																																																																					
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61	4123 - Red Oak	Sawtimber Well	4.6	85	111-140	N/A	Dominant oak overstory with smaller, suppressed hardwoods underneath. The oak is mostly high quality and on a hardwood site. Stand sits on a slight west facing aspect. Average ba/acre from 5 plots = 130 square feet. No treatment has taken place in this stand up to this point.																																																																					
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<b>62</b>	4199 - Other Mixed Upland Deciduous	Sawtimber Well	8.0	85	81-110	N/A	Moderate quality oak/hardwood stand with some variation in species distribution. The east half of the stand sits at a higher elevation, has more maple than oak, and is generally good quality. The remainder of the stand sits on a west facing downward slope with oak becoming dominant. Hardwood quality and diameters decrease on the slope. Pine is also more prevalent in the west half. Most beech has BBD. Trace of paper birch. Some old blowdown scattered throughout. Average ba/acre from 8 plots = 110 square feet. Stand is not ready for a thinning yet but may be next entry.																																																														
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<b>63</b>	42111 - Planted Red Pine, Mixed Deciduous	Sawtimber Well	2.4	93	171-200	N/A	Small pocket of mature planted pine that has never been treated before. Some red pine stems with deformed tops from old porcupine damage. Average ba/acre from 4 plots = 175 square feet. Leave this stand unmanaged and let convert to hardwoods over time.																																																														
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<b>64</b>	4133 - Aspen, Mixed Pine	Poletimber Well	6.5	47	111-140	N/A	Decent aspen with a few clumps of mature pine mixed in. Diameters on the aspen are still quite small at this point. Hardwood species more prevalent along the edges. Trace of red oak, balsam fir, and basswood in the overstory. Average ba/acre from 8 plots = 140 square feet. Gently rolling terrain.																																																														
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<b>65</b>	4117 - Mixed N. Hardwood - Pine	Sawtimber Well	33.9	93	111-140	N/A	Moderate to high quality hardwood stand with a significant component of planted red pine mixed in. Red pine tends to be more numerous in the northern half of the stand and declines in abundance southward. Hardwood quality is generally good but declines at the northwest corner and far southern end. Most beech has BBD. Trace of white pine, elm, balsam fir, red oak, and paper birch. Average ba/acre from 17 plots = 129 square feet. Rolling terrain but no inoperable slopes. And old road cuts east-west through the stand at the southern end.																																																														
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																		
<b>66</b>	4110 - Sugar Maple Association	Sawtimber Medium	23.2	93	51-80	N/A	Stand cut in the winter of 2013 in the sale Double Digit Pine, #53-005-12-01, bought by Biewer, roundwood harvest. The harvest was mostly a red pine removal with just a few other hardwoods cut out. Scattered clumps of red pine were left as supercanopy trees. As a result of the overstory removal, BAs are highly variable. Residual hardwoods are moderate quality with some large diameter trees present. Many of the gaps created from the harvest are filling in nicely with sugar maple, white ash, and raspberry. Some of the gaps at the south end of the stand haven't responded well with regeneration yet. In addition to the sugar maple seedlings that are coming in, there some areas with 5-10 foot tall sugar maple saplings that were not damaged during the previous harvest. Average ba/acre from 8 plots = 69 square feet.																																																		
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<b>67</b>	4199 - Other Mixed Upland Deciduous	Sapling Poor	10.0	11	Immature	N/A	Stand was cut in 2010 in the sale West Lost Lake RPP, #53-016-09-01. For some reason clumps of advanced hardwood regeneration were left and they are almost all ironwood and beech. Regeneration has not responded well as hardwood seedlings are mostly absent except for along the west side of the stand. Heavy raspberry component. Rolling terrain. This was formerly an R9 stand.																																																		
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<b>68</b>	4110 - Sugar Maple Association	Sawtimber Well	10.1	99	81-110	N/A	Moderate quality hardwood stand. Some large diameter sugar maple are present. Pine component is mostly along the west edge. Not thinned at the same time as adjacent stand 77 to the east due to lower BAs. Average ba/acre from 6 plots = 98 square feet.																																																		
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<b>69</b>	4110 - Sugar Maple Association	Sawtimber Well	7.7	83	111-140	N/A	Nice hardwood stand that was last thinned in 1994. Trace of beech and red maple. Average ba/acre from 4 plots = 138 square feet. Terrain is mostly flat but the stand sits on somewhat of an elevated position compared to adjacent stands to the east and west.																																																		
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Potentially active stick nest in the part of the stand that just out towards the east. Did not see the nest but couldn't get close to the area as I was being harassed by some kind of raptor (was not a goshawk).



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
<b>70</b>	4199 - Other Mixed Upland Deciduous	Sapling Well	13.3	27	Immature	N/A	Stand was clearcut in 1994 by Dave Bunker & Sons in the sale County Line Pine/Hardwood. The south half of the stand regenerated very well to a diverse mix of hardwoods and looks like what a young hardwood stand should be in the absence of browse. However, as you travel north away from the road influence it is evident that browse had an impact as the stand loses most of its diversity and shifts to primarily a mix of black cherry, ironwood, beech, and some shrubs. Included black cherry in the canopy data and not as a shrub species because it looks like some stems may become merchantable. Trace of red oak supercanopy trees. Trace of basswood, white oak, white pine, and red maple saplings. Flat terrain.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
White Ash	2	Sapling	3		Serviceberry (Juneberry)	Low		Variable	Tall Shrub
Beech	5	Sapling/Pole	3		Choke Cherry	Trace		Variable	Tall Shrub
Jack Pine	4	Pole	6		Hawthorn (spp.)	Trace		5 - 10 feet	Tall Shrub
Red Pine	10	Pole/Log	8		Nannyberry	Trace		5 - 10 feet	Tall Shrub
Paper Birch	2	Sapling	3						
American Elm	1	Sapling	3						
Red Oak	4	Sapling/Pole	3						
Sugar Maple	17	Sapling	3						
Black Cherry	22	Sapling	3						
Ironwood	33	Sapling	2	27					
<b>71</b>	42110 - Planted Red Pine	Sawtimber Well	0.8	93	111-140	N/A	Small stand of large diameter red pine. Trace of red maple and white ash. Average ba/acre from 2 plots = 140 square feet. Leave unmanaged. Stand serves somewhat as a retention area for the adjacent stands.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Beech	1	Pole	6		Ironwood	Medium		Variable	Sapling
Ironwood	9	Pole/Sapling	6		Beech	Medium		Variable	Sapling
Basswood	3	Log	14						
Sugar Maple	6	Log/Pole	10						
White Pine	2	Log	14						
Red Pine	79	XLog/Log	20	93					
<b>72</b>	4319 - Mixed Upland Forest	Sawtimber Poor	4.5	93	51-80	N/A	Sparse overstory with a range of diameters. The red pine in particular ranges from saplings and poletimber to large XL-sized sawlog trees. No cutting history was found but this stand appears two-aged with many areas in the north half having a nice understory of sugar maple. There are some scattered open areas as apparently parts of the stand were nonforested openings long ago. Small clone of aspen west of the road in the northern part of the stand. Average ba/acre from 7 plots = 64 square feet. Flat terrain. Leave the overstory and manage for the understory.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Quaking Aspen	13	Pole/Log	9		Ironwood	High		Variable	Sapling
Black Cherry	2	Pole	7		Sugar Maple	Medium		Variable	Sapling
Ironwood	2	Pole	5		Beech	Low		Variable	Sapling
Basswood	8	Log	13		Red Pine	Low		Variable	Sapling
Sugar Maple	13	Log/Pole	12		Black Cherry	Low		Variable	Tall Shrub
Red Oak	8	Log/XLog	13		American Elm	Trace		Variable	Sapling
White Pine	4	Log/XLog	14		White Pine	Trace		Variable	Sapling
Red Pine	50	Log/XLog/Pole	14	93	White Ash	Trace		Variable	Sapling
					Serviceberry (Juneberry)	Trace		Variable	Tall Shrub



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments				
73	4111 - S.Maple, Hard Mast Association	Poletimber Well	41.6	89	111-140	N/A	This stand was selected for ash and beech salvage and was sold to Precision in the sale Stilt Root Hardwoods, #53-008-13-01. No harvesting ever took place and Precision dropped the sale in 2018. The stand was re-marked and currently has a bid date for December 2019, sale name Stilt Root 2, #53-014-19-01. A detailed QD inventory was done in 2012 to determine how much ash and beech were in the stand and these numbers are reflected in the stand canopy data. Overall stand BA from 10 plots = 123 square feet.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
White Ash		3	Log	12		Beech		Low	Variable	Sapling	
Red Pine		2	Log	16		Ironwood		Low	Variable	Sapling	
Ironwood		3	Pole	7							
Red Oak		1	Log/XLog	16							
Beech		24	Pole/Log	9							
Basswood		22	Log/Pole	11							
Sugar Maple		45	Pole/Log	8	89						
74	4119 - Mixed Northern Hardwoods	Sawtimber Poor	7.7	93	1-50	N/A		Stand was cut in 2013 in the sale Double Digit Pine, #53-005-12-01, bought by Biewer. This harvest was mostly a red pine removal with a few clumps left for supercanopy trees. All of the ironwood and beech were also supposed to be cut but there are still quite a few trees left, particularly ironwood in the 3-5" DBH range. A few clumps of smaller sugar maple saplings and poletimber were protected from damage. A small retention pocket was left in the northeast corner. In the areas that have been opened up there is a dense understory of white ash seedlings about 2-3 feet tall, all of which are being browsed. A couple of white ash poletimber stems are still alive. Average ba/acre from 7 plots = 41 square feet. 7.5" DBH striped maple at the south end of the stand, east of the road.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species			Density	Avg. Height	Size
White Ash		1	Pole	6		Sugar Maple			Low	>20 feet	Sapling
Red Oak		2	Log	11		Ironwood			Medium	Variable	Sapling
Ironwood		8	Pole	5		Beech			Medium	Variable	Sapling
Basswood		7	Log	13		White Ash			High	< 5 feet	Seeding
Beech		5	Log/Pole	11							
Red Pine		15	Log/XLog	16							
Sugar Maple		62	Log/Pole	10	93						
75	4112 - Maple, Beech, Cherry Association	Sawtimber Poor	3.2	99	51-80	N/A	This stand apparently had the beech released in 2000 to stimulate mast production. Odd looking stand as it resembles somewhat of a beech shelterwood. Thick regeneration of beech and ironwood, especially at the south end. I didn't see evidence of any other species regeneration. Most beech appears infected with BBD and some are already dead. Evidence of very heavy bear use on many of the beech. Small open area in the middle that was likely used as a landing area. Possible stick nest at the SW corner. Trace of white pine. Average ba/acre from 4 plots = 57 square feet.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Basswood		15	Log	14		Beech		High	Variable	Sapling	
Sugar Maple		10	Pole/Log	9		Ironwood		Medium	Variable	Sapling	
Beech		75	Log/Pole	12	99						
76	4111 - S.Maple, Hard Mast Association	Poletimber Well	72.2	92	81-110	N/A	Moderate quality hardwood stand on rolling terrain. Diameters tend to vary somewhat as there are smaller stems in the southern half of the stand but more sawtimber in the north half. Most areas of the stand have BAs high enough to warrant a thinning but there are a few areas of low basal area which dropped down the BA average, especially at the far southern end which had a significant amount of ash which is now all dead and mostly fallen over. The remainder of the stand does not have much ash. Beech is a major component of the stand and tends to occur in clumps rather than a uniform distribution. Most of it has BBD although a few healthy trees were present. Trace of red oak and white pine. Average ba/acre from 17 plots = 103 square feet.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Bigtooth Aspen		1	Log/XLog	15		Beech		High	Variable	Sapling	
Ironwood		2	Pole/Sapling	5		Ironwood		Medium	Variable	Sapling	
Red Maple		1	Log	11							
Beech		22	Log/Pole/XLog	11							
Basswood		24	Log/Pole	11							
Sugar Maple		50	Pole/Log	9	92						



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																				
77	4110 - Sugar Maple Association	Sawtimber Well	112.6	99	81-110	N/A	Moderate to high quality hardwood stand. Quality seems somewhat better in the north half of the stand. Thinned in 2004 in the sale County Line Hardwoods (53-001-031-01), bought by Watson Forest Products. Terrain is gently rolling with a series of north-south running ridges and valleys. Old roads run north-south through these valleys. There used to be a moderate component of ash, around 10-20 BA and higher in the south half, but it is now all dead and a lot of it is on the ground. Most beech has BBD. Trace of white pine and red pine, mostly near the roads in the valleys. Average ba/acre from 15 plots = 96 square feet. May be ready for a thinning in 10 years.																																																				
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78	4110 - Sugar Maple Association	Poletimber Well	184.6	90	81-110	N/A	Stand was thinned in 2018 in the sale Little McChaffee Hardwoods, bought and cut by Precision. Some residual damage here and there. A few small instances of rutting but nothing widespread or in excess of guidelines. Residual stand is mediocre quality. Stand was marked by a contract crew and they took out a lot of the better and bigger sawtimber stems. All ash was harvested and there was a lot of it in the southern half of the stand. Trace of yellow birch. Average ba/acre from 80 plots = 86 square feet. Rolling terrain but no inoperable slopes.																																																				
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79	6120 - Lowland Cedar	Sawtimber Well	4.8	104	141-170	N/A	Healthy cedar with some large diameter trees present. Stand sits at the bottom of a slope and has some hardwoods mixed in along the upland/lowland transition. Found two healthy green ash (or white?). Trace of paper birch. Average ba/acre from 5 plots = 164 square feet. Did not visit the far western end of the stand. From imagery it looks like there is some kind of an open area, perhaps old blowdown? Old OI notes it as a U type with cherry and fir.																																																				
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80	6239 - Mixed Emergent Wetland	Nonstocked	4.8		Unspecified	No	This used to be a cedar stand but was salvaged after being flooded by beavers. Timber sale was 2 County Cedar, #53-011-94-01, bought by Van Alstine. Cut over the years of 1994-96. A stream flows east through the stand. The site is still very wet but is not dammed by beavers at this time. Virtually no tree regeneration at all. A few seedlings along the edges but that's about it.																																																				
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81	6233 - Wet Meadow	Nonstocked	5.4		Unspecified	No	Open meadow/wetland. Little McMasters Creek flows through. An old railroad grade borders the west edge. The creek is able to pass through but it is not an ideal stream crossing, could use an improvement, such as removing a larger chunk of the grade. A small wooden bridge currently crosses the creek.																																																				
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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<b>82</b>	6120 - Lowland Cedar	Poletimber Well	13.1	104	81-110	N/A	Diverse stand along the upland/lowland transition zones with a wide mix of species. Quality is also best along these areas with some large diameter cedar, hemlock, and maple. The interior of the stand becomes very wet and is dominated by lower quality cedar. A lot of blowdown in the westward running finger of the stand. Quite a bit of black ash used to be present in the interior but it is now all dead. I did find one green ash that is still alive. White spruce is mostly at the south end while black spruce is mostly at the far northern end. Trace of balsam poplar. Average ba/acre from 10 plots = 82 square feet. A small stream runs north through the middle of the stand, draining into the wetland at the northwest corner.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
White Spruce		2	Log	12		Balsam Fir		High	Variable	Sapling	
Quaking Aspen		2	Log	14		Tag Alder		Low	5 - 10 feet	Tall Shrub	
Basswood		2	Log	11							
Yellow Birch		2	Pole/Log	8							
Paper Birch		4	Pole/Log	8							
White Pine		2	XLog/Log	18							
Red Maple		10	Log/Pole	11							
Hemlock		2	Log/XLog	15							
Balsam Fir		7	Pole/Log	8							
Black Spruce		7	Pole/Log	8							
Northern White Cedar		60	Pole/Log	9	104						

<b>83</b>	4130 - Aspen	Poletimber Well	12.4	49	111-140	N/A	Nice aspen stand although quaking aspen diameters are still small in some areas. Cut in 1972 by Kujawa Forest Products, cut volume had aspen but also a lot of hardwoods including maple, birch, basswood, and elm. A couple of pockets heavy to fir in the middle of the stand. Stand is on somewhat of a knob and slopes down to the north. The only wet area is the sliver of the stand on the west side of the road. Smaller, suppressed sugar maple is abundant in some places, particularly as you move west closer to the hardwoods. Trace of yellow birch, paper birch, elm, and white ash. Average ba/acre from 11 plots = 134 square feet. Heavy deer and elk use in the stand. Browse damage is a concern here and has negatively impacted several nearby stands to the east.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Northern White Cedar		1	Pole/Log	8		Sugar Maple		Medium	>20 feet	Sapling	
Hemlock		1	Log/XLog	13		Red Maple		Low	>20 feet	Sapling	
Balsam Poplar		2	Pole/Log	8		Balsam Fir		Low	Variable	Sapling	
Black Cherry		1	Pole	6		White Ash		Trace	>20 feet	Sapling	
Balsam Fir		10	Pole/Log	8		Ironwood		Trace	>20 feet	Sapling	
Sugar Maple		3	Pole/Sapling	5							
Red Maple		11	Pole	7							
Bigtooth Aspen		15	Log/Pole	10							
Quaking Aspen		56	Pole/Log	8	49						

<b>84</b>	4115 - Y.Birch, Hemlock NH	Sawtimber Well	4.1	88	111-140	N/A	Nice red maple dominated stand that is mostly upland but does have a few wet areas. Some very large diameter hemlock are present and most appear healthy. Fir mostly along the western edge. Trace of paper birch and beech in the overstory. Average ba/acre from 5 plots = 114 square feet. No management due to the hemlock influence and wet ground.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Northern White Cedar		2	Log	11		Beech		Medium	Variable	Sapling	
Hemlock		18	Log/XLog	15		Balsam Fir		Medium	Variable	Sapling	
Balsam Fir		3	Pole/Log	8		Sugar Maple		Low	>20 feet	Sapling	
Yellow Birch		4	Pole/Log	8		Tag Alder		Trace	5 - 10 feet	Tall Shrub	
Basswood		6	Log	12							
Sugar Maple		10	Pole/Log	8							
Red Maple		57	Log/Pole	10	88						

<b>85</b>	6239 - Mixed Emergent Wetland	Nonstocked	0.9		Unspecified	No	THIS IS AN OLD, INACTIVE BEAVER FLOODING. STANDING WATER STILL EXISTS.	
Sub-Canopy Species		Density	Avg. Height	Size				
Balsam Fir		Trace	Variable	Sapling				
Tag Alder		Medium	5 - 10 feet	Tall Shrub				



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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**86**      6229 - Mixed lowland shrub      Nonstocked      4.1           Unspecified      No      This stand was flooded by beavers many years ago but water levels have receded and shrubs have filled in. Lots of dead standing cedar.

Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	Low	Variable	Sapling
Balsam Fir	Low	>20 feet	Pole
White Pine	Trace	>20 feet	Pole
Northern White Cedar	Trace	>20 feet	Pole
Paper Birch	Trace	Variable	Sapling
Red Maple	Trace	Variable	Sapling
Tag Alder	High	5 - 10 feet	Tall Shrub
Michigan Holly	Low	< 5 feet	Tall Shrub

**87**      429 - Mixed Upland Conifers      Poletimber Well      16.1      36      51-80      N/A      Stand was clearcut in 1985 in the sale Marble Grade North, bought by Champion. Regeneration came back to a wide mix of species but overall is dominated by fir and spruce. A lot wet ground mixed in throughout, also the northwest part of the stand currently has some standing water in it. Trace of residual cedar along the east edges. Trace of red oak and black ash saplings. Stand still has a ways to go before it could be harvested, as a lot of the species are still sub-merchantable.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Black Cherry	2	Sapling	4		Black Cherry	Low	Variable	Tall Shrub
Quaking Aspen	12	Pole/Sapling	5		Tag Alder	Low	5 - 10 feet	Tall Shrub
Balsam Poplar	4	Pole/Sapling	6		Nannyberry	Trace	5 - 10 feet	Tall Shrub
Paper Birch	2	Sapling	3		Balsam Fir	Medium	Variable	Sapling
Sugar Maple	2	Sapling	3					
Ironwood	1	Sapling	3					
White Oak	1	Sapling	3					
Red Pine	1	Pole/Log	9					
White Pine	8	Pole/Sap/Log	6					
Red Maple	12	Sapling/Pole	3					
Black Spruce	20	Pole/Sapling	5					
Balsam Fir	35	Pole/Sapling	5	36				

**88**      4134 - Aspen, Spruce/Fir      Poletimber Well      10.0      36      111-140      N/A      This stand was cut in 1985 in the sale Marble Grade North, bought by Champion. Aspen came back well although not in all areas of the stand. Diameters on the aspen vary considerably with some areas approaching sawlog size while others, like east of the road, are smaller. Wet areas present in the south half and along the grade, some areas have standing water. Trace of white oak, red pine, black spruce, and white ash. Average ba/acre from 7 plots = 114 square feet. Manage with adjacent stand #87.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Oak	1	Pole/Sapling	5		Ironwood	Medium	Variable	Sapling
White Pine	1	Pole/Sapling	5		Balsam Fir	Low	Variable	Sapling
Balsam Fir	25	Pole/Sap/Log	6		Red Maple	Low	Variable	Sapling
Sugar Maple	2	Pole	7		White Ash	Low	Variable	Sapling
Red Maple	7	Pole/Sapling	5		White Pine	Trace	Variable	Sapling
Black Cherry	1	Pole	5		Black Cherry	Low	Variable	Tall Shrub
Balsam Poplar	6	Pole/Sapling	6		American Elm	Trace	Variable	Sapling
Quaking Aspen	57	Pole/Log	8	36	Sugar Maple	Trace	Variable	Sapling





Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																																
<b>89</b>	4119 - Mixed Northern Hardwoods	Sawtimber Well	6.3	89	81-110	N/A	Diverse stand that is dominated by nice quality red maple. The red maple/birch component is better quality than the sugar maple/basswood component. South end of the stand appears to be a little wetter and has signs of pit and mound topography. A small ridge runs along the western stand boundary. Most of the hemlock appears healthy. White ash used to be a small component but is now all dead. Average ba/acre from 5 plots = 110 square feet. No even-aged management due to the high browse pressure in this area. Use uneven-aged management techniques.																																																																
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<b>90</b>	4110 - Sugar Maple Association	Poletimber Well	83.3	89	81-110	N/A	This stand was selected for ash and beech salvage and was sold to Precision in the sale Stilt Root Hardwoods, #53-008-13-01. No harvesting ever took place within the stand and Precision dropped the sale in 2018. This stand will not be put up for re-bid as the ash is past the point of salvage and much of it has fallen over. A detailed QD inventory was done in 2012 to determine how much ash and beech were in the stand. The calculated data indicated there was roughly 27 square feet of ash out of a stand-wide average of 115 square feet. The beech component equaled about 3 square feet and most of this has BBD. With the loss of ash and beech, the overall stand basal area sits at 85 square feet. There are a lot of small maple stems in this stand and it will not need to be thinned for a long time. Periodic visits to the stand should be made to see how regeneration responds and to check for any resistant trees. The amount of coarse woody debris from the dead ash and beech may provide areas of shelter from deer and elk browse (at least we can hope). Also, QD seemed to underestimate the amount of beech in the stand. The central and northwestern parts of the stand have some pockets that are heavy to beech.																																																																
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<b>91</b>	4110 - Sugar Maple Association	Poletimber Well	118.6	89	81-110	N/A		This stand was selected for ash and beech salvage and was sold to Precision in the sale Stilt Root Hardwoods, #53-008-13-01. No harvesting ever took place within the stand and Precision dropped the sale in 2018. This stand will not be put up for re-bid as the ash is past the point of salvage and much of it has fallen over. A detailed QD inventory was done in 2012 to determine how much ash and beech were in the stand. The calculated data indicated there was roughly 28 square feet of ash out of a stand-wide average of 122 square feet. The beech component equaled about 4 square feet and most of this has BBD. With the loss of ash and beech, the overall stand basal area sits at 90 square feet. This stand will not need to be thinned for a long time. Periodic visits to the stand should be made to see how regeneration responds. The amount of coarse woody debris from the dead ash may provide areas of shelter from deer and elk browse (at least we can hope).																																																															
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<b>92</b>	4139 - Aspen, Mixed Deciduous	Poletimber Well	10.3	53	81-110	N/A	Nice, younger stand that has a large component of red maple. Aspen is most numerous along the west edge but transitions to red maple the further east you travel. A lot of pit and mound topography as well as two large seasonally wet vernal pool complexes (see OFS layer). A few massive legacy size white pine scattered throughout (35"+ DBH). Cedar and hemlock mostly along the east/northeast edge as the ground becomes wetter adjacent to the lowland stand. Trace of red oak, paper birch, and yellow birch. Average ba/acre from 8 plots = 89 square feet. Browse pressure is too high to cut this stand on its own. Lump with adjacent aspen stands to the south in Compartment 35 and treat with those stands when they are ready to be harvested.																																																												
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<b>93</b>	6120 - Lowland Cedar	Poletimber Medium	46.6	99	81-110	N/A	Wet, poor-quality cedar stand. Some areas with standing water. A lot of the cedar is stagnant or in decline. Small upland island in the middle of the stand. There used to be a lot of black ash in the stand but all of the overstory trees are dead. Trace of hemlock, white pine, and quaking aspen. Average ba/acre from 8 plots = 98 square feet.																																																												
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<b>94</b>	4319 - Mixed Upland Forest	Sawtimber Well	11.0	87	111-140	N/A	Mixed species stand with a large component of hemlock. Most of the hemlock is healthy. Undulating terrain with some linear lowland areas mixed in. This stand is just barely upland, the water table seems to be very close to the surface. Trace of yellow birch and quaking aspen. Average ba/acre from 6 plots = 123 square feet. No management due to the sensitive soils and hemlock component.																																																												
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<b>95</b>	42220 - Natural Jack Pine	Poletimber Medium	6.4	44	51-80	N/A	Poor quality jack pine. The north half of the stand has lower stocking with many open grown stems. The red pine component is mostly along the E/NE side in a small clump. Average ba/acre from 5 plots = 80 square feet. Stand may be ready for a regeneration harvest in 10 years.																																																												
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
96	4199 - Other Mixed Upland Deciduous	Sapling Medium	5.8	34	Immature	N/A	This stand was cleacut in 1974 and then the resulting regeneration was burned in a wildfire in 1987. Regeneration has come back moderately well to mixed hardwoods although ironwood becomes more dominant the further north you go in the stand. The western part of the stand didn't regenerate as well and is more open with scattered pine. Most of the red maple stems have been damaged by elk stripping off the bark. Included black cherry in the canopy data as it looks like some of the stems will be of merchantable quality. Trace of sugar maple, red oak, white pine residual trees at the far north end. Rolling terrain.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Paper Birch	1	Pole/Sapling	5		White Pine	Low		5 - 10 feet	Sapling
Beech	3	Sapling	2		Sugar Maple	Trace		5 - 10 feet	Sapling
Red Pine	4	Pole/Sapling	5		Ironwood	Low		5 - 10 feet	Sapling
White Pine	13	Pole/Sapling	6						
Jack Pine	2	Pole/Sapling	6						
Black Cherry	3	Sapling/Pole	3						
Quaking Aspen	7	Pole/Sapling	5						
Red Oak	7	Sapling/Pole	3						
Sugar Maple	12	Sapling	3						
Ironwood	21	Sapling	2						
Red Maple	27	Sapling	3	34					
97	42260 - Natural Pine, Mixed Deciduous	Sawtimber Well	2.0	93	141-170	N/A		Nice pine stand that wasn't cut during the adjacent harvests on either side. The pine appears natural as there is not any row orientation. Some large legacy size trees are mixed in. Trace of sugar maple. Average ba/acre from 3 plots = 153 square feet. Flat terrain. Leave alone for now due to it's small acreage.	
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height		Size
Paper Birch	1	Pole/Log	8		White Pine	Medium	Variable		Sapling
Red Maple	9	Pole	7		Beech	Low	Variable		Sapling
Quaking Aspen	20	Log/Pole	13		Black Cherry	Trace	Variable		Tall Shrub
White Pine	37	Log/XLog/Pole	14	93	Ironwood	Trace	Variable		Sapling
Red Pine	33	Log/Pole/XLog	13						
98	42210 - Natural Red Pine	Sawtimber Poor	12.7	93	1-50	N/A	This stand had a partial harvest in 1994 leaving a sparse residual of primarily red pine. There are a variety of red pine sizes in the stand, from saplings and poletimber to trees in excess of 20" DBH. Regeneration came back moderately well and includes a large component of sugar maple saplings, a rarity in the PRC. There are some scattered openings in the middle that did not regenerate well. Trace of red oak sawlog-sized trees. Average ba/acre from 7 plots = 27 square feet. Can probably code as an M2 next entry. Flat terrain. There appears to be remnants of an old railroad grade running north-south through the middle of the stand.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
White Pine	1	Log/XLog	15		Sugar Maple	Medium		Variable	Sapling
Basswood	2	Log	12		Ironwood	Medium		Variable	Sapling
Ironwood	4	Pole/Sapling	5		Beech	Low		Variable	Sapling
Sugar Maple	5	Pole/Sapling	5		Black Cherry	Low		Variable	Tall Shrub
Jack Pine	10	Pole/Log	9		Red Pine	Trace		Variable	Sapling
Red Pine	78	Log/XLog/Pole	14	93					
99	42110 - Planted Red Pine	Sawtimber Well	3.9	93	111-140	N/A	Small stand that had a partial harvest in 1992 in the sale Horseshoe Jack Pine (#53-015-91). Everything except red pine, white pine, and red maple was supposed to be cut but there are a few leftover aspen and red maple stems along the east and south sides. The residual pine is high quality except for some suppressed poletimber stems. Planting records exist for the red pine but the stand itself does not resemble a plantation. Although rare, there is a second age class of larger and older natural origin red and white pine. Trace of paper birch. Average ba/acre from 4 plots = 115 square feet.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Red Oak	2	Log	13		Red Maple	Low		Variable	Sapling
Red Maple	5	Pole	7		White Pine	Low		Variable	Sapling
Quaking Aspen	1	Pole	7		Witch Hazel	Trace		5 - 10 feet	Tall Shrub
Bigtooth Aspen	4	Pole	7						
White Pine	20	Log/Pole/XLog	13						
Red Pine	68	Log/Pole/XLog	13	93					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																								
<b>100</b>	4123 - Red Oak	Sawtimber Medium	3.6	97	51-80	N/A	Moderate quality oak stand that, according to OI notes, was severely burned in a 1987 wildfire. Numerous stems have fire scars at the base of the bole. A salvage harvest took place after the fire. Average ba/acre from 4 plots = 55 square feet. Site quality increases as you head east in the stand.																																																								
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<b>101</b>	4139 - Aspen, Mixed Deciduous	Poletimber Well	3.9	49	111-140	N/A	Mixed aspen and red maple stand with a hemlock supercanopy. Most of the hemlock appears unhealthy. Fir component is more pronounced west of the closed road. A few nice cherry poles mixed in. Trace of sugar maple, paper birch, and cedar. Average ba/acre from 3 plots = 113 square feet. Deer and elk browse damage is a concern here and has negatively impacted several nearby stands to the east.																																																								
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<b>102</b>	4113 - R.Maple, Conifer	Sawtimber Well	3.1	89	141-170	N/A	Hardwood stand dominated by red maple that transitions down to the adjacent Q stand. Some big diameters are present. A few portions of this may have had the aspen removed, likely at the same time the adjacent aspen stands were cut. Trace of sugar maple and paper birch. Average ba/acre from 3 plots = 140 square feet. No even-aged management due to the high browse pressure.																																																								
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<b>103</b>	42220 - Natural Jack Pine	Sapling Medium	9.1	29	Immature	N/A	This stand was harvested in 1992, along with adjacent stand 41, in the sale Horseshoe Jack Pine (#53-015-91), bought by Crawford Forest Products. All species were cut except for red pine, white pine, and red oak. Jack pine regenerated well in most areas of this stand and there isn't much of a residual except for along the east boundary. The center part of the stand was the old landing and you can tell where the chips were piled based on a random clump of cherry and some herbaceous species that otherwise wouldn't be growing in these sandy soils (nettle, mint, etc.).																																																								
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<b>104</b>	4119 - Mixed Northern Hardwoods	Poletimber Well	10.8	85	81-110	N/A	Small diameter hardwoods with a supercanopy of large oak. Stand sits on a slight west-facing slope which may explain the smaller diameters as compared to the adjacent hardwood stand to the east. Most of the beech has BBD. Average ba/acre from 8 plots = 89 square feet. No record of a past thinning.
		<b>Canopy Species</b>	<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	
		White Pine	2	Log/XLog	14		
		Red Pine	5	Log/XLog	14		
		Red Oak	14	Log/XLog	16		
		Bigtooth Aspen	3	Log	13		
		Ironwood	3	Pole	5		
		Basswood	7	Log/Pole	10		
		Beech	16	Pole/Log	8		
		Red Maple	5	Pole/Log	8		
		Sugar Maple	45	Pole/Log	8	85	
		<b>Sub-Canopy Species</b>	<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>		
		Beech	Low	>20 feet	Sapling		
		Sugar Maple	Low	>20 feet	Sapling		
		Ironwood	Low	< 5 feet	Seeding		
		Ironwood	Low	5 - 10 feet	Sapling		
<b>106</b>	310 - Herbaceous Openland	Nonstocked	0.8		Unspecified	No	Not a managed opening.
		<b>Sub-Canopy Species</b>	<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>		
		White Pine	Medium	Variable	Sapling		
		Red Pine	Medium	Variable	Sapling		
		Red Pine	Low	>20 feet	Pole		
		Jack Pine	Trace	Variable	Sapling		
<b>107</b>	2113 - Forage Crops	Nonstocked	8.4		Unspecified	Managed Opening	This stand is planted and maintained as a food plot.
<b>108</b>	2113 - Forage Crops	Nonstocked	1.2		Unspecified	Managed Opening	Maintained opening.
<b>109</b>	310 - Herbaceous Openland	Nonstocked	1.5		Unspecified	No	This stand has not been maintained as a food plot for many years. Not much room to work with, what with the two roads intersecting the stand.
		<b>Sub-Canopy Species</b>	<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>		
		Blackberry/Raspberry	Low	< 5 feet	Tall Shrub		
		Spotted Knapweed	Low	Unspecified	Non-Wood		
		White Pine	Trace	Variable	Sapling		
		Beech	Trace	Variable	Sapling		
		Ironwood	Trace	Variable	Sapling		
<b>110</b>	320 - Upland Shrub	Nonstocked	1.3	0	Unspecified	No	This stand was cut at the same time as stand 70 to the south but browsing prevented it from becoming forested. Now it has a few scattered trees along with some cherry brush.
		<b>Sub-Canopy Species</b>	<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>		
		Red Pine	Low	Variable	Sapling		
		Red Pine	Low	Variable	Pole		
		Jack Pine	Trace	Variable	Sapling		
		American Elm	Trace	Variable	Sapling		
		White Pine	Trace	Variable	Sapling		
		Ironwood	Low	Variable	Sapling		
		Black Cherry	Medium	Variable	Tall Shrub		



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<b>111</b>	4130 - Aspen	Poletimber Well	11.7	49	111-140	N/A	<p>Nice aspen stand. Cut in 1972 by Kujawa Forest Products, cut volume had aspen but also a lot of hardwoods including maple, birch, basswood, and elm. Undulating terrain with several vernal pools and wetland pockets mixed in. A larger inclusion is present at the east end and there appears to be a drainage out of it which goes south into stand 52 (Q6). Smaller, suppressed sugar maple is abundant in some places, particularly as you move north closer to the hardwood stand. Fir component picks up along the southern edge of the stand. Much of the hemlock looks unhealthy and close to death, multiple forked tops indicate porcupines may be responsible for the decline. Trace of yellow birch, white pine, elm, and balsam poplar. Average ba/acre from 7 plots = 129 square feet. Very heavy deer and elk use in the stand. Browse damage is a concern here and has negatively impacted several stands further to the east.</p>																																																																		
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<b>112</b>	310 - Herbaceous Openland	Nonstocked	2.1		Unspecified	No	<p>Old well site Corwith 1-1, #2-86, plugged in 1987. Difficult to tell with the snow but this looks like it was planted recently as a food plot.</p>																																																																		
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<b>113</b>	310 - Herbaceous Openland	Nonstocked	1.5		Unspecified	No	<p>Old inventory notes speculate that a homestead or logging camp may have been here at one time. They noted several apple trees that were present at the south end. I only found one. There is evidence of a small pit in the center of the stand, perhaps related to an old foundation? 1934 PRC base features map shows that an old railroad grade passed close by (Black River or Hardwood Bridge grade).</p> <p>Looks like there is a lot of bee balm growing here during the summer.</p>																																																																		
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<b>114</b>	310 - Herbaceous Openland	Nonstocked	0.5		Unspecified	No	<p>Small open area that is a popular camping/party spot. It's likely this area was the landing when the surrounding stands were cut. Some pine filling in along the edges.</p>																																																																		
<b>115</b>	4199 - Other Mixed Upland Deciduous	Poletimber Well	11.1	47	81-110	N/A	<p>This stand was clearcut in 1974 at the same time as adjacent stand #56 to the west but regenerated to primarily red oak. This is probably one of the only young red oak stands that has successfully regenerated on high quality soils in the PRC. While aspen and maple are mixed in throughout, there are still many areas that resemble an almost pure O6. There is a small amount of residual supercanopy oak. The southwest corner is where almost all of the pine component is located. Most of the stand sits on a slight west-facing slope, site quality increases as you move east up the slope. Average ba/acre from 8 plots = 86 square feet.</p>																																																																		
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																		
<b>116</b>	42110 - Planted Red Pine	Sawtimber Well	1.8	96	111-140	N/A	Small red pine plantation which has much better stocking than adjacent stand 41. It was harvested at the same time as stand 41 in 1992 by Crawford Forest Products (Horseshoe Jack Pine, #53-015-91) where everything was cut out of the stand except for red pine, white pine, and red oak. The red pine residual is moderate quality. Trace of paper birch. Average ba/acre from 3 plots = 130 square feet. Flat terrain.																																		
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<b>117</b>	2113 - Forage Crops	Nonstocked	5.9		Unspecified	Managed Opening	Most of this opening is a maintained food plot, except for a small area along the northeast side.																																		
<b>118</b>	310 - Herbaceous Openland	Nonstocked	2.1		Unspecified	No	Small opening. Does not look like it has been maintained for years. Most recently it was used as a landing and decking area for the harvest in stand 78.																																		