



# Compartment Review Presentation

## Pigeon River Country Forest Management Unit

Compartment 53054

Entry Year 2020

Acreage: 2,008

County Otsego

Management Area: Pigeon River Country

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**Revision Date:** 2018-08-13

**Stand Examiner:** Greg Rekowski

**Legal Description:**

T32N - R02W

Sections 3, 4, and 5

**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 this compartment is upland with rolling terrain. Site quality varies considerably throughout the compartment, reflected by a mix of different soil types. The most common of these types are Mossback sandy loam, Blue Lake loamy sand, and Morganlake loamy sand. Site quality decreases east of the Sturgeon River with Lindquist and Rubicon sands being the primary soil type. A small sliver of lowland runs through the middle of the compartment and is characterized mostly by mucks such as the Leafriver, Tawas-Lupton, and Ausable-Bowstring.

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

This compartment is bordered by private land to the north and west. The remainder is surrounded by state land.

**Unique Natural Features:**

Past occurrences of red-shouldered hawks and wood turtles have been identified by MNFI.

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

The majority of this compartment was purchased from McClouth Steel in 1980. Some past features, such as an old bridge, are still evident in the compartment. No formal archaeological inventory has ever been initiated.

**Special Management Designations or Considerations:**

Sections 4 and 5, and the west half of section 3, are part of the Green Timbers High Conservation Value Area (HCVA). The Sturgeon River Valley Special Conservation Area (SCA) is within Green Timbers and excludes several areas along the river from forest management.

**Watershed and Fisheries Considerations:**

The Sturgeon River joins with Club Stream and flows through the west half of section 3.

**Wildlife Habitat Considerations:**

A wildlife representative will be available for comment at the public Open House and will participate in the formal Compartment Review.

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

Active sand & gravel pits are not located in the area, but there appears to be good sand & gravel potential within the compartment on the upland areas. However, page 30 of the Concept of Management for the PRC says that extraction of surface minerals will rarely be allowed. This area is north of the Niagaran reef trend but is within the Antrim Shale gas play. The Antrim Shale is present but thinning in this area and may be less productive. There is no known metallic mineral potential in this part of the state. However, the entire compartment is in the Annexed Area and, as provided on page 33 of the Concept of Management, no new development leases will be issued in this Area.

**Vehicle Access:**

All of sections 4 and 5, as well as the west half of section 3 have been closed to motor vehicle use by a Director's Order. Honeylocust Trail, which is a county road, passes through the east half of section 3.

**Survey Needs:**

Not all corners were found but a survey is not needed at this time.

**Recreational Facilities and Opportunities:**

No established recreational facilities are present although many of the closed roads that traverse the compartment are popular for hiking.

**Fire Protection:**

Fire risk is generally low with the exception of some drier pine and oak stands in the east end of the compartment. The majority of closed roads can be accessed via locked gates.

**Additional Compartment Information:**

The following reports from the Inventory are attached:

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

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

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



# Compartment Review Presentation

## Pigeon River Country Forest Management Unit

Compartment 53054

Entry Year 2020

Acreage: 2,008

County Otsego

Management Area: Pigeon River Country

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**Revision Date:** 2018-05-26

**Stand Examiner:** Greg Rekowski

**Legal Description:**

T32N - R02W

Sections 3, 4, and 5

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

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**Additional Compartment Information:**

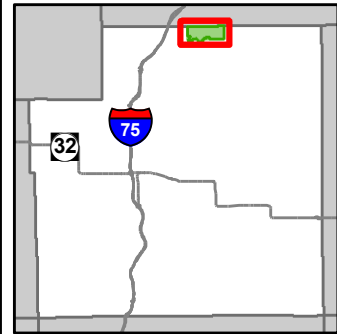
The following reports from the Inventory are attached:

- 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**

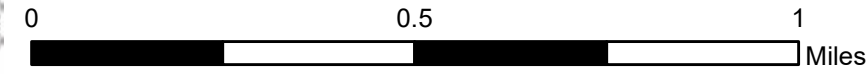
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- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

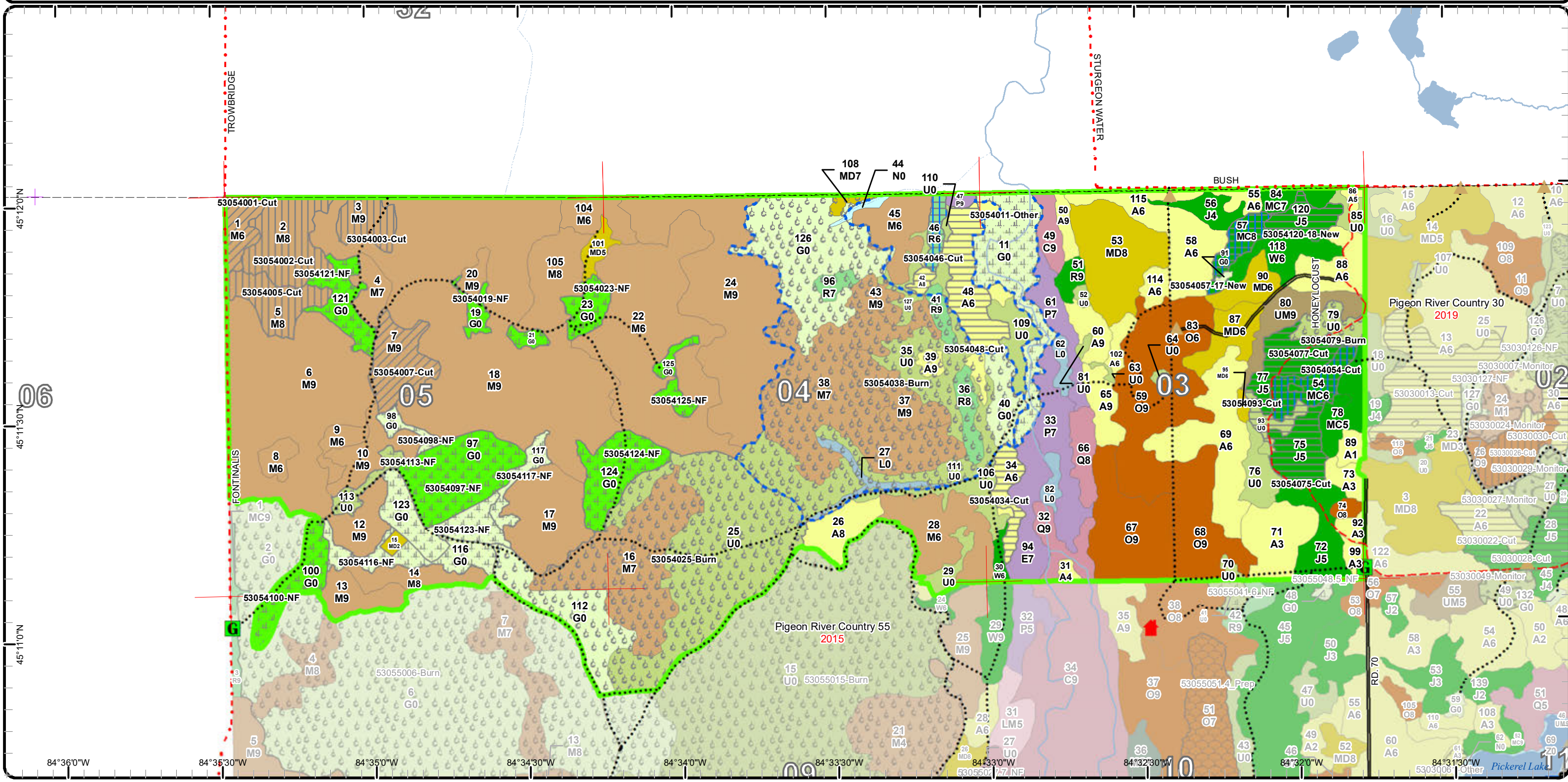
# Cover Type & Treatments Map



Compartment: 54  
 T32N, R02W, Sec: 03, 04, 25  
 County: Otsego  
 Unit: Pigeon River Country  
 Mgmt Area: Pigeon River Country  
 YOE: 2020  
 Acres: 2,008 GIS Calculated  
 Examiner: Greg Rekowski  
 Map Revised: 6/15/2018  
 Map Phase: Web-Post

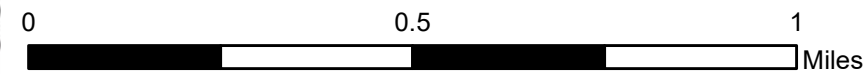
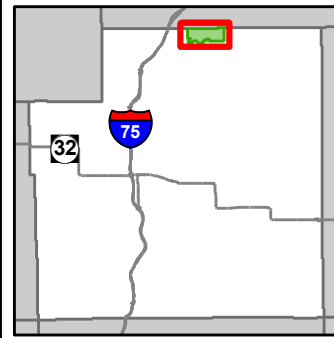


- Miris Corners
- + Remonumented Section Corners
- Compartment Boundary
- Treatments with Site Conditions
- Other Treatment - See Comments
- Clearcut (w/Reserves)
- Prescribed Burn
- Seed Tree (w/Reserves)
- Thinning (Crown, Low, Systematic)
- Shelter Wood (w/Reserves)
- 411 - Northern Hardwood
- 412 - Oak Types
- 413 - Aspen Types
- 419 - Mixed Upland Deciduous
- 421 - Planted Pines
- 422 - Natural Pines
- 430 - Upland Mixed Forest
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 211 - Cropland
- 310 - Herbaceous Openland
- 320 - Upland Shrub
- 622 - Lowland Shrub
- 623 - Emergent Wetland
- Lakes

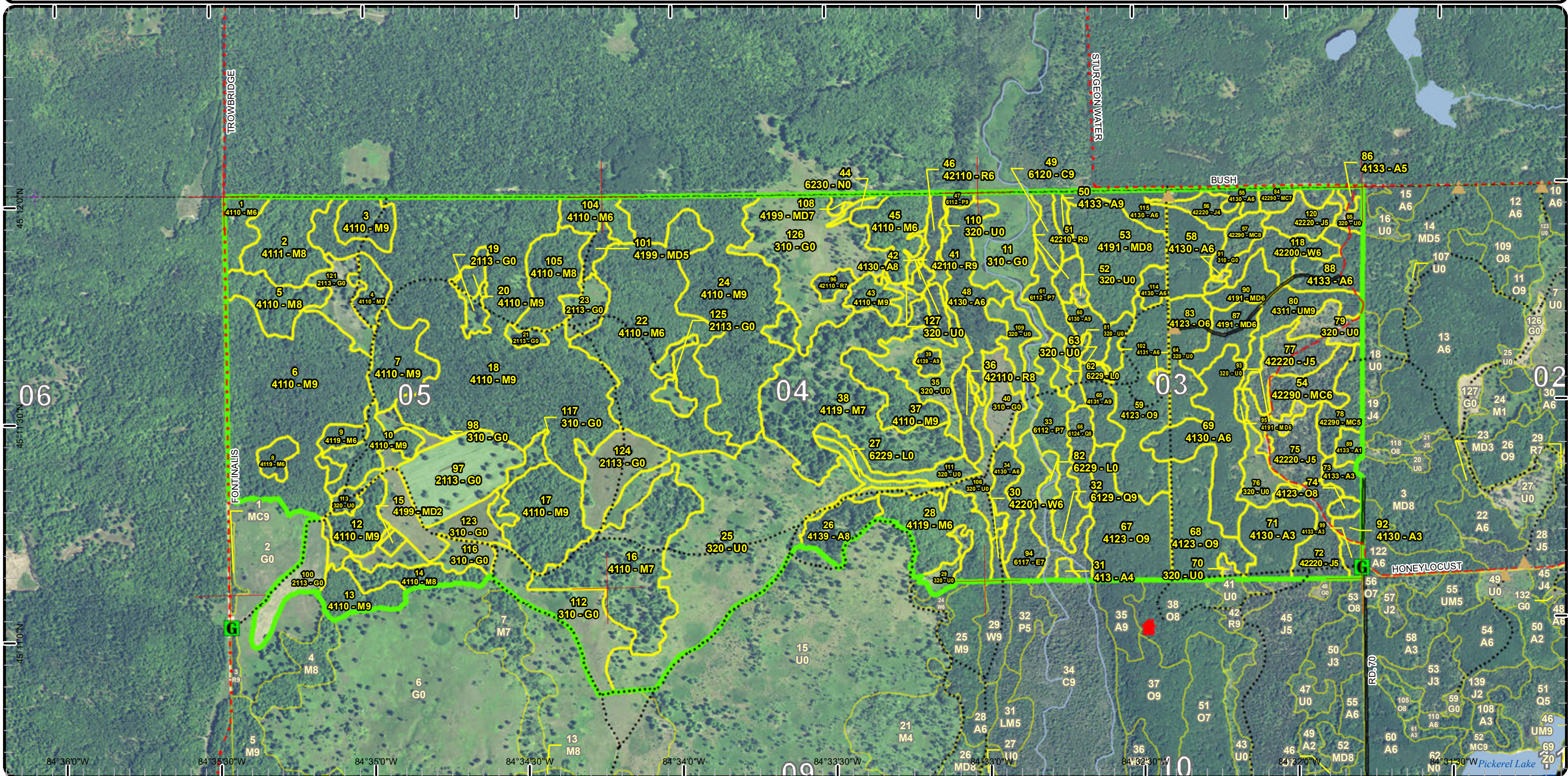


# Stand Boundary Map

Compartment: 54  
 T32N, R02W, Sec: 03, 04, 25  
 County: Otsego  
 Unit: Pigeon River Country  
 Mgmt Area: Pigeon River Country  
 YOE: 2020  
 Acres: 2,008 GIS Calculated  
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 Map Revised: 6/15/2018  
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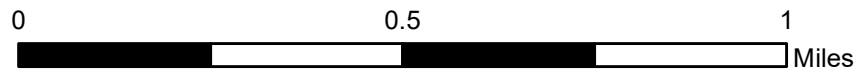
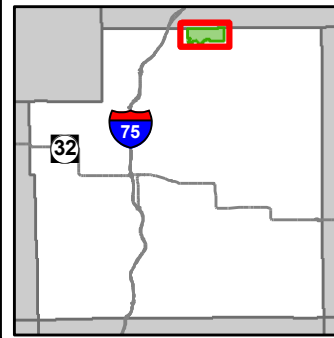


- Miris Corners
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- Stand Boundaries
- 310 - Herbaceous Openland
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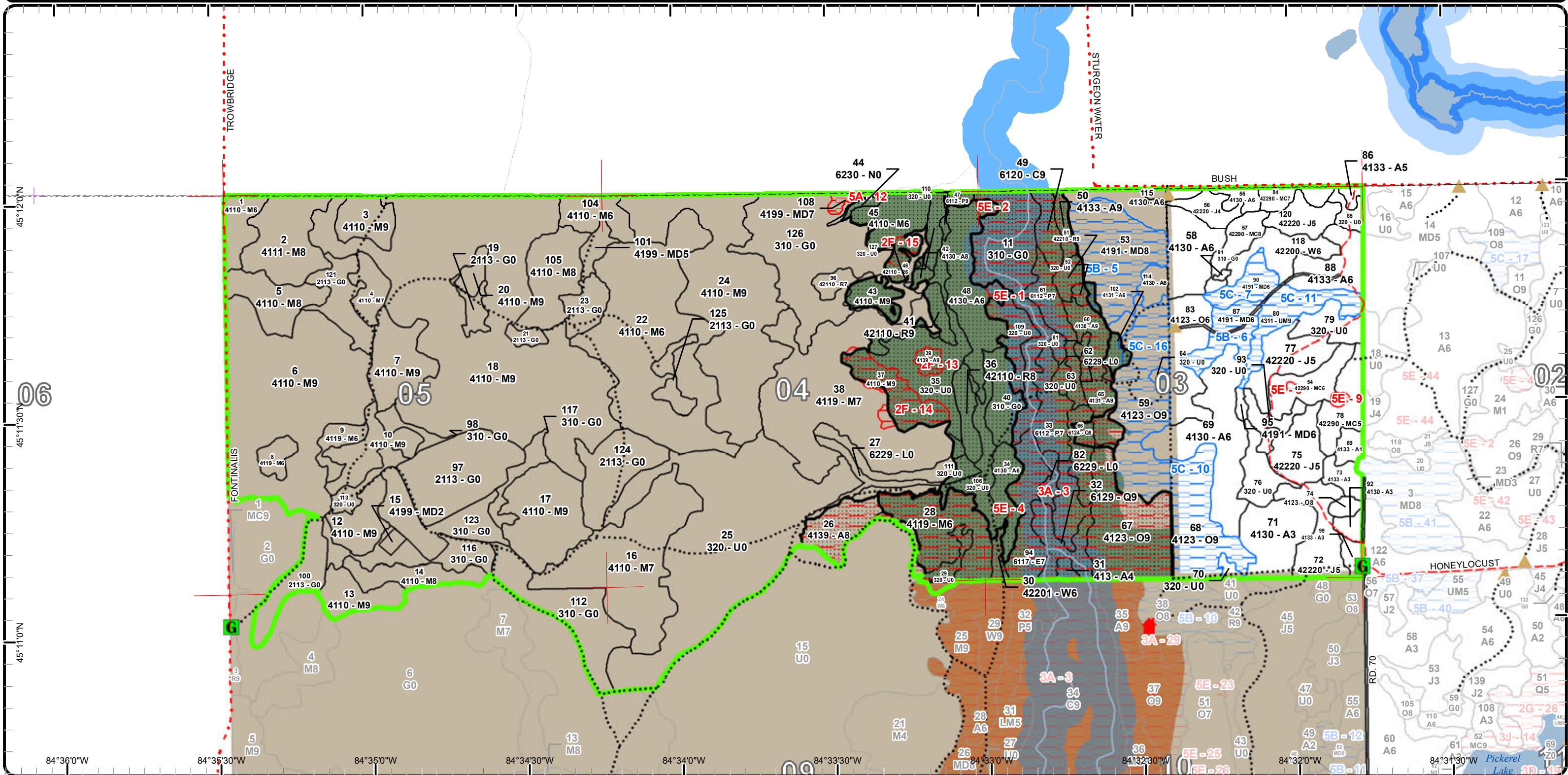


# Special Conservation Areas & Site Conditions Map

Compartment: 54  
 T32N, R02W, Sec: 03, 04, 25  
 County: Otsego  
 Unit: Pigeon River Country  
 Mgmt Area: Pigeon River Country  
 YOE: 2020  
 Acres: 2,008 GIS Calculated  
 Examiner: Greg Rekowski  
 Map Revised: 6/15/2018  
 Map Phase: Web-Post



- Miris Corners
- + Remonumented Section Corners
- 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
- 3A: Conservation Values incompatible with harvest at this time
- 5A: Not able to obtain desirable regeneration
- 5E: Long-Term Retention
- Stand Boundaries
- Natural Rivers Vegetative Buffer
- Natural Rivers Zoning District
- Dedicated Management Areas
- Cold Water Streams
- Cold Water Lakes
- High Priority Trout Stream Buffer
- Habitat Corridor
- Other Habitat Area



Report 1 – Total Acres by Cover Type and Age Class



Age Class

	Non-Forest	0-9	10-19	20-29	30-39	40-49	50-59	60-69	70-79	80-89	90-99	100-109	110-119	120-129	130-139	140-149	150+	Uneven-Aged	Total
Aspen	0	0	32	0	96	0	14	27	0	23	13	0	0	0	0	0	0	0	205
Cedar	0	0	0	0	0	0	0	0	0	0	0	0	7	0	0	0	0	0	7
Cropland	104	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	104
Herbaceous Openland	173	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	173
Jack Pine	0	0	0	0	24	9	15	14	0	0	0	0	0	0	0	0	0	0	62
Lowland Aspen/Balsam Poplar	0	0	0	0	0	0	34	0	0	0	2	0	0	0	0	0	0	0	36
Lowland Conifers	0	0	0	0	0	0	0	9	0	0	0	0	0	0	0	11	0	0	19
Lowland Deciduous	0	0	0	0	0	0	0	0	0	17	0	0	0	0	0	0	0	0	17
Lowland Shrub	13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12
Marsh	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
Mixed Upland Deciduous	0	0	0	2	13	0	0	14	0	2	34	0	0	0	0	0	0	0	65
Natural Mixed Pines	0	0	0	0	12	0	0	9	14	6	0	0	0	0	0	0	0	0	40
Northern Hardwood	0	0	0	0	11	0	0	0	100	155	126	477	0	0	0	0	0	0	869
Oak	0	0	0	0	19	0	0	0	0	2	104	0	0	0	0	0	0	0	125
Red Pine	0	0	0	0	0	0	20	0	0	0	0	0	0	0	0	4	0	0	24
Upland Mixed Forest	0	0	0	0	0	0	0	0	0	15	0	0	0	0	0	0	0	0	15
Upland Shrub	220	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	220
White Pine	0	0	0	0	0	0	3	13	0	0	0	0	0	0	0	0	0	0	16
<b>Total</b>	<b>512</b>	<b>0</b>	<b>32</b>	<b>2</b>	<b>175</b>	<b>9</b>	<b>86</b>	<b>86</b>	<b>114</b>	<b>220</b>	<b>279</b>	<b>477</b>	<b>7</b>	<b>0</b>	<b>0</b>	<b>15</b>	<b>0</b>	<b>0</b>	<b>2011</b>





## Report 2 – Treatment Summary

### Acres of Harvest

Commercial Harvest - 183  
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	33	0	0	0	0	0	0	0	0	33
Jack Pine	38	0	0	0	0	0	0	0	0	38
Natural Mixed Pines	0	0	0	21	0	0	0	0	0	21
Northern Hardwood	0	0	0	0	52	29	0	0	0	81
Red Pine	0	0	0	5	0	0	0	0	0	5
Upland Shrub	5	0	0	0	0	0	0	0	0	5
<b>Total</b>	<b>76</b>	<b>0</b>	<b>0</b>	<b>26</b>	<b>52</b>	<b>29</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>183</b>

### Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	183	0	0	0	442	0	0	35	155	814
Next Step	0	0	41	0	47	0	590	0	0	678
<b>Total</b>	<b>183</b>	<b>0</b>	<b>41</b>	<b>0</b>	<b>488</b>	<b>0</b>	<b>590</b>	<b>35</b>	<b>155</b>	<b>1492</b>



S t a n d	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
1	53054001-Cut	9.4	4110 - Sugar Maple Association	Poletimber Well	92	111- 140	Harvest	Crown Thinning	411 - Northern Hardwood	Uneven- Aged	Proposal

**Habitat Cut: No****Site Condition:**

Prescription TSI/crown thin to 80-90 square feet. Focus on thinning from the poletimber and small sawlog size classes. Cut all beech except leave large diameter wildlife trees as well as any without scale. Leave all aspen.

Next Step  
Treatments:

Acceptable  
Regen:

Other  
Comment:

Proposed Start Date: 03/13/2018

2	53054002-Cut	24.9	4111 - S.Maple, Hard Mast Association	Sawtimber Medium	92	51-80	Harvest	Shelterwood with Retention	411 - Northern Hardwood	Two-Aged	Proposal
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**Habitat Cut: No****Site Condition:**

Prescription Shelterwood. Leave 30-40 BA of the best quality basswood and sugar maple sawlog trees. If present, do not cut any birch or oak. Cut all beech except leave large diameter trees with a lot of rot as well any resistant trees. Mark some poor-quality maple and beech as cut and leave trees to increase the amount of coarse woody debris and to help shelter regeneration from deer and elk browse. Add 2" spec to get all the beech and ironwood regeneration knocked down. No chipping and require all tops to be spread evenly with the hopes it will alleviate some of the browse pressure. Add a small retention pocket or two around areas of better quality and stocking.

Next Step Planting, Underplant; Monitoring, Natural Regen (Intermediate)  
Treatments:

Acceptable Fully-stocked northern hardwood regeneration. However, any combination that results in a greater than 50% representation of either beech, ash, and/or ironwood will be considered a failure. Browsing that results in less than a fully-stocked stand will also be considered a failure.

Other Following harvest, plant a mixture of red oak, white oak, and white pine. Target 5-10 oak saplings per acre which will need to be protected with  
Comment: fencing. White pine can be seedlings and planted at a similar rate as the oak but will not need the fencing protection.

Utilize the G type to the southeast for decking but only the area that is not a maintained food plot.

No cutting during bark slip time period.

Proposed Start Date: 03/13/2018

3	53054003-Cut	11.1	4110 - Sugar Maple Association	Sawtimber Well	87	81-110	Harvest	Shelterwood	411 - Northern Hardwood	Uneven- Aged	Proposal
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**Habitat Cut: No****Site Condition:**

Prescription Shelterwood. Leave 30-40 BA of the best quality basswood and sugar maple sawlog trees. Cut all ash and beech. Mark some poor-quality maple and beech as cut and leave trees to increase the amount of coarse woody debris and to help shelter regeneration from deer and elk browse. Add 2" spec to get all regeneration knocked down. No chipping and require all tops to be spread evenly with the hopes it will alleviate some of the browse pressure.

Next Step Monitoring, Natural Regen (Intermediate)  
Treatments:

Acceptable Regeneration that meets northern hardwood stocking guidelines.  
Regen:

Other Expect the treatment boundary to decrease in acreage as there are some open areas in the middle of the stand that will likely be excluded.  
Comment:

Proposed Start Date: 03/30/2018



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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
5 53054005-Cut	16.1	4110 - Sugar Maple Association	Sawtimber Medium	99	1-50	Harvest	Shelterwood with Retention	411 - Northern Hardwood	Two-Aged	Proposal

**Habitat Cut: No Site Condition:**

Prescription Shelterwood. Leave 30-40 BA of the best quality basswood and sugar maple sawlog trees. If present, do not cut any birch or oak. Cut all beech except leave large diameter trees with a lot of rot as well any resistant trees. Mark some poor-quality maple and beech as cut and leave trees to increase the amount of coarse woody debris and to help shelter regeneration from deer and elk browse. Add 2" spec to get all the beech and ironwood regeneration knocked down. No chipping and require all tops to be spread evenly with the hopes it will alleviate some of the browse pressure. Add a small retention pocket or two around areas of better quality and stocking.

Next Step Planting, Underplant; Monitoring, Natural Regen (Intermediate)  
Treatments:

Acceptable Regen: Regeneration that meets hardwood stocking guidelines. A greater than 50% representation of ash, beech, and ironwood (singly or in combination) will be considered a failure. Also, browse that results in less than a fully-stocked stand will also be considered a failure.

Other Comment: Following harvest, plant a mixture of red oak, white oak, and white pine. Target 5-10 oak saplings per acre which will need to be protected with fencing. White pine can be seedlings and planted at a similar rate as the oak but will not need the fencing protection. This will be a good project for a volunteer group.

Utilize the G type to the east for decking but only the area that is not a maintained food plot.

No cutting during bark slip time period.

Proposed Start Date: 06/12/2018

7 53054007-Cut	19.2	4110 - Sugar Maple Association	Sawtimber Well	87	111-140	Harvest	Crown Thinning	411 - Northern Hardwood	Uneven-Aged	Proposal
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**Habitat Cut: No Site Condition:**

Prescription TSI/crown thin to 80-90 square feet. Focus on thinning from the poletimber and small sawlog size classes. Cut all beech except leave large diameter wildlife trees as well as any without scale. Cut all white ash and ironwood over 2" DBH.

Next Step  
Treatments:

Acceptable Regen:

Other Comment: Deck wood in the adjacent G types, but only those areas that are not maintained as a food plot.

Proposed Start Date: 03/13/2018

11 53054011-Other	34.9	310 - Herbaceous Openland	Nonstocked		Unspecified	Other	Other	310 - Herbaceous Openland		Field Boundary
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**Habitat Cut: No Site Condition: Conservation Values**

Prescription Treat wild parsnip with herbicide. Treatment is being done in conjunction with Huron Pines and is associated with FTP #W53-459.  
Specs:

Next Step  
Treatments:

Acceptable Regen:

Other Comment:

Proposed Start Date: 04/04/2018



S t a n d	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
19	53054019-NF	4.3	2113 - Forage Crops	Nonstocked		Unspecified	NonForestMgt	Other - Specify	310 - Herbaceous Openland		Proposal

**Habitat Cut: No**

**Site Condition:**

Prescription Brush, mow, plant, burn and/or herbicide to maintain opening. Planting of hard and soft mast.

Specs:

Next Step  
Treatments:

Acceptable  
Regen:

Other  
Comment:

Proposed Start Date: 10/01/2019

21	53054021-NF	2.7	2113 - Forage Crops	Nonstocked		Unspecified	NonForestMgt	Other - Specify	310 - Herbaceous Openland		Proposal
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**Habitat Cut: No**

**Site Condition:**

Prescription Brush, mow, plant, burn and/or herbicide to maintain opening. Planting of hard and soft mast.

Specs:

Next Step  
Treatments:

Acceptable  
Regen:

Other  
Comment:

Proposed Start Date: 10/01/2019

23	53054023-NF	8.6	2113 - Forage Crops	Nonstocked		Unspecified	NonForestMgt	Other - Specify	310 - Herbaceous Openland		Proposal
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**Habitat Cut: No**

**Site Condition:**

Prescription Brush, mow, plant, burn and/or herbicide to maintain opening. Planting of hard and soft mast.

Specs:

Next Step  
Treatments:

Acceptable  
Regen:

Other  
Comment:

Proposed Start Date: 10/01/2019

25	53054025-Burn	178.3	320 - Upland Shrub	Nonstocked		Unspecified	Burn	Opening	310 - Herbaceous Openland		Field Boundary
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**Habitat Cut: No**

**Site Condition:**

Prescription Green Timbers Rx Burn Project Area. This unit was last burned in spring of 2018.

Specs:

Next Step Monitoring, Prescribed Burn  
Treatments:

Acceptable  
Regen:

Other  
Comment:

Proposed Start Date: 10/01/2021



Stand	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
34	53054034-Cut	8.8	4130 - Aspen	Poetimber Well	59	51-80	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	Proposal

**Habitat Cut: No****Site Condition:**

Prescription Clearcut all species except for any incidental white pine, oak, elm, or basswood. Mark 1-2 cull aspen per acre as cut and leave trees to serve as drumming logs. Retention will be the small pocket dominated by spruce on the west edge of the stand.

Next Step Monitoring, Natural Regen (Intermediate)

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

Other Comment: -Winter only harvest to prevent damage to wet soils. Roundwood job only to retain slash on the site to protect wet soils. - Add decontamination spec due to the prevalence of wild parsnip in adjacent stands.

Proposed Start Date: 10/01/2019

38	53054038-Burn	254.6	4119 - Mixed Northern Hardwoods	Sawtimber Poor	108	1-50	Burn	Opening	320 - Upland Shrub		Draft Field Boundary
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**Habitat Cut: No****Site Condition: Too Steep**

Prescription Green Timbers Rx Burn Project Area - North Unit. Burn to maintain the open nature of G and U stands. Any equipment that travels the line along stand 40 must decontaminate following the burn due to the wild parsnip in that area. Unit last burned in spring of 2017.

Next Step Monitoring, Natural Regen (Intermediate)

Acceptable Regen:

Other Comment:

Proposed Start Date: 10/01/2020

42	53054042-Cut	2.2	4130 - Aspen	Sawtimber Medium	54	51-80	Harvest	Clearcut	413 - Aspen	Even-Aged	Proposal
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**Habitat Cut: No****Site Condition:**

Prescription Clearcut all species except for any incidental white pine, basswood, or spruce. Cut all cherry except leave any that are over 4 inches DBH. No area retention due to the small size of the stand. There may be a small amount of advanced oak regeneration, ensure that it is protected.

Next Step Monitoring, Natural Regen (Intermediate)

Acceptable Regen: A fully-stocked stand that meets aspen stocking guidelines.

Other Comment: Group with stand 48 to the east and utilize the same seasonal restrictions and decontamination specs.

Proposed Start Date: 10/01/2019

46	53054046-Cut	4.9	42110 - Planted Red Pine	Poetimber Well	59	81-110	Harvest	Seed Tree	4319 - Mixed Upland Forest	Even-Aged	Proposal
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**Habitat Cut: No****Site Condition:**

Prescription Leave scattered clumps of red pine spaced about a chain apart. Focus on leaving trees that have good form and no porcupine damage. There may be a very small amount of oak and white pine in the stand, do not cut these two species. No area retention.

Next Step Monitoring, Natural Regen (Intermediate)

Acceptable Regen: Any mix of species is acceptable except for any combination which results in a more than 50% representation of beech and ironwood, which will be deemed unacceptable. Leave the option open for underplanting if the regen survey indicates a failure.

Other Comment: Group this stand in a sale with adjacent stands 42 and 48, and utilize the same seasonal restrictions and decontamination specs.

Proposed Start Date: 10/01/2019

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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
48 53054048-Cut	21.7	4130 - Aspen	Poletimber Well	62	51-80	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	Proposal

**Habitat Cut: No****Site Condition:**

Prescription Clearcut all species except for any incidental white pine, elm, or spruce. Cut all cherry under 4 inches DBH, leave the rest for mast production.  
Specs: Exclude the two fingers that extend east towards the river as retention. Mark 1-2 poor quality aspen per acre as cut and leave trees to serve as drumming logs.

Next Step Monitoring, Natural Regen (Intermediate)

Treatments:

Acceptable Regen: Fully-stocked stand that meets aspen stocking guidelines.

Other

-Winter only harvest to prevent damage to wet soils. Roundwood job only to retain slash on the site to protect wet soils.

Comment: - Add decontamination spec due to the prevalence of wild parsnip in adjacent stands.

Proposed Start Date: 10/01/2019

54 53054054-Cut	12.2	42290 - Natural Mixed Pine	Poletimber Well	77	81-110	Harvest	Seed Tree with Retention	429 - Mixed Upland Conifers	Two-Aged	Proposal
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**Habitat Cut: No****Site Condition:**

Prescription Mark scattered leave trees of red, white, and jack pine of the best quality. Leave trees should be both in clumps and as individual trees to break up the homogenous look. Target ba/acre of 10-20 square feet. Leave all relict red and white pine over 18" DBH. Mark to leave a few clumps of better white pine poletimber/saplings as well. Use retention to exclude the two dense pockets of pine.

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

Treatments:

Acceptable Regen: Fully-stocked stand meeting mixed conifer guidelines. If stand falls below standards after burning, then accept as is and manage this stand with the surrounding ones (#'s 75, 77, 93) as part of a larger pine barrens community.

Other Roundwood harvest and no chipping. Add 2" spec to remove all regeneration but ensure oak saplings are protected.

Comment:

Burn after harvest.

Proposed Start Date: 10/01/2019

57 53054057-17-New	8.5	42290 - Natural Mixed Pine	Sawtimber Medium	67	51-80	Harvest	Seed Tree	429 - Mixed Upland Conifers	Two-Aged	Proposal
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**Habitat Cut: No****Site Condition:**

Prescription Leave 10-20 ba/acre of red pine, white pine, and oak. Focus on leaving the large diameter, best quality trees. Mark to leave a few clumps of the better poletimber as well. Although rare, protect any advanced red oak regeneration that may be present (poletimber included). Mark some of the rotten aspen as cut and leave trees for coarse woody debris.

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Regen: Fully-stocked stand with a mix of red, white, and jack pine being acceptable. Expect red maple, aspen, and potentially oak to make up the remainder of the regeneration.

Other Add specs that require whole-tree skidding in snow-free conditions to encourage ground scarification.

Comment:

Proposed Start Date: 10/01/2019

75 53054075-Cut	14.1	42220 - Natural Jack Pine	Poletimber Medium	63	1-50	Harvest	Clearcut	4222 - Natural Jack Pine	Even-Aged	Proposal
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**Habitat Cut: No****Site Condition:**

Prescription Clearcut with no area retention. Leave scattered clumps of jack pine with varying amounts of trees, spaced at least 100 feet apart. Leave all red pine and any merchantable black cherry. Roundwood harvest, no chipping, and add 2" spec to get all of the understory knocked down. Protect all oak regeneration and all snags.

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

Treatments:

Acceptable Regen: Regeneration that meets jack pine standards. If the follow-up burn does not result in acceptable stocking then accept as is and manage for a barrens type community on a ten year burn rotation.

Other Burn after harvest.

Comment:

Proposed Start Date: 10/01/2019



Stand Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
77 53054077-Cut	15.2	42220 - Natural Jack Pine	Poletimber Medium	59	51-80	Harvest	Clearcut	4222 - Natural Jack Pine	Even-Aged	Proposal

**Habitat Cut: No**

**Site Condition:**

Prescription Clearcut. No area retention but leave scattered clumps with varying amounts of trees to serve as a seed source. Space the clumps about 100 feet apart. Leave all red pine over 18" DBH. If present, do not cut any oak or merchantable cherry. Protect oak saplings. Roundwood job, no chipping, and add 2" spec to get the all of the understory knocked down. Protect all snags.

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

Treatments:

Acceptable Regen: Regeneration that meets jack pine standards. If the follow-up burn does not result in acceptable stocking then accept as is and manage for a barrens type community on a ten year burn rotation.

Other Comment: Burn after harvest.

Proposed Start Date: 10/01/2019

79 53054079-Burn	8.7	320 - Upland Shrub	Nonstocked		Unspecified	Burn	Opening	320 - Upland Shrub		Proposal
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**Habitat Cut: No**

**Site Condition:**

Prescription Burn to set back encroaching vegetation and in conjunction with adjacent stands to the south as part of a larger burn unit. The burn will not take place until after the stands to the south have been cut (stand #'s 75 and 77). Whether or not this stand is burned again is dependent on regeneration of the jack pine stands to the south (#'s 75 and 77). If they regenerate successfully following the burn then this will be a one time burn. If regeneration fails then this stand will be managed as part of a larger barrens community with the stands to the south and on a ten year burn rotation.

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Regen:

Other Comment:

Proposed Start Date: 10/01/2021

93 53054093-Cut	5.2	320 - Upland Shrub	Nonstocked	0	Unspecified	Harvest	Clearcut	320 - Upland Shrub		Proposal
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**Habitat Cut: No**

**Site Condition:**

Prescription Clearcut to set back encroaching vegetation and maintain this as a U type. If present, leave any oak or red pine. Leave cherry over 5" DBH.

Specs: Roundwood job and no chipping. Add 2" spec to get all regeneration knocked down except for oak saplings.

Next Step Burn, Opening

Treatments:

Acceptable Regen: Non-forested U type condition is expected and acceptable.

Regen:

Other Comment: Burn after harvest.

Comment:

Proposed Start Date: 10/01/2019

97 53054097-NF	32.6	2113 - Forage Crops	Nonstocked			NonForestMgt	Other - Specify	310 - Herbaceous Openland		Proposal
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**Habitat Cut: No**

**Site Condition:**

Prescription Brush, mow, plant, burn and/or herbicide to maintain opening. Planting of hard and soft mast.

Specs:

Next Step

Treatments:

Acceptable Regen:

Regen:

Other

Comment:

Proposed Start Date: 10/01/2019



S t a n d	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
98	53054098-NF	4.1	310 - Herbaceous Openland	Nonstocked		Unspecified	NonForestMgt	Other - Specify	310 - Herbaceous Openland		Proposal

**Habitat Cut: No**

**Site Condition:**

Prescription Brush, mow, plant, burn and/or herbicide to maintain opening. Planting of hard and soft mast.

Specs:

Next Step  
Treatments:

Acceptable  
Regen:

Other  
Comment:

Proposed Start Date: 10/01/2019

100	53054100-NF	14.3	2113 - Forage Crops	Nonstocked			NonForestMgt	Other - Specify	310 - Herbaceous Openland		Proposal
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**Habitat Cut: No**

**Site Condition:**

Prescription Brush, mow, plant, burn and/or herbicide to maintain opening. Planting of hard and soft mast.

Specs:

Next Step  
Treatments:

Acceptable  
Regen:

Other  
Comment:

Proposed Start Date: 10/01/2019

113	53054113-NF	5.8	320 - Upland Shrub	Nonstocked		Unspecified	NonForestMgt	Other - Specify	310 - Herbaceous Openland		Proposal
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**Habitat Cut: No**

**Site Condition:**

Prescription Brush, mow, plant, burn and/or herbicide to maintain opening. Planting of hard and soft mast.

Specs:

Next Step  
Treatments:

Acceptable  
Regen:

Other  
Comment:

Proposed Start Date: 10/01/2019

116	53054116-NF	15.1	310 - Herbaceous Openland	Nonstocked		Unspecified	NonForestMgt	Other - Specify	310 - Herbaceous Openland		Proposal
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**Habitat Cut: No**

**Site Condition:**

Prescription Brush, mow, plant, burn and/or herbicide to maintain opening. Planting of hard and soft mast.

Specs:

Next Step  
Treatments:

Acceptable  
Regen:

Other  
Comment:

Proposed Start Date: 10/01/2019





Stand Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
117 53054117-NF	6.3	310 - Herbaceous Openland	Nonstocked	104	1-50	NonForestMgt	Other - Specify	310 - Herbaceous Openland		Proposal

**Habitat Cut: No**

**Site Condition:**

Prescription Brush, mow, plant, burn and/or herbicide to maintain opening. Planting of hard and soft mast.

Specs:

Next Step  
Treatments:

Acceptable  
Regen:

Other  
Comment:

Proposed Start Date: 10/01/2019

120 53054120-18-New	9.1	42220 - Natural Jack Pine	Poletimber Medium	49	51-80	Harvest	Clearcut	4222 - Natural Jack Pine	Even-Aged	Proposal
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**Habitat Cut: No**

**Site Condition:**

Prescription Clearcut with no area retention due to the small size of the stand. Leave any white pine over 18" DBH and any sawlog-size red pine. If present, leave any oak. Mark a couple of the larger jack pine (1-3/acre) to serve as a seed source.

Specs:

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

Acceptable Regeneration dominated by jack pine with red and white pine expected as well. A non-forested stand will be accepted here as well if natural seeding is not satisfactory.

Other  
Comment:

Proposed Start Date: 10/01/2019

121 53054121-NF	13.7	2113 - Forage Crops	Nonstocked		Unspecified	NonForestMgt	Other - Specify	310 - Herbaceous Openland		Proposal
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**Habitat Cut: No**

**Site Condition:**

Prescription Brush, mow, plant, burn and/or herbicide to maintain opening. Planting of hard and soft mast.

Specs:

Next Step  
Treatments:

Acceptable  
Regen:

Other  
Comment:

Proposed Start Date: 10/01/2019

123 53054123-NF	20.4	310 - Herbaceous Openland	Nonstocked		Unspecified	NonForestMgt	Other - Specify	310 - Herbaceous Openland		Proposal
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**Habitat Cut: No**

**Site Condition:**

Prescription Brush, mow, plant, burn and/or herbicide to maintain opening. Planting of hard and soft mast.

Specs:

Next Step  
Treatments:

Acceptable  
Regen:

Other  
Comment:

Proposed Start Date: 10/01/2019



Standard	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
124	53054124-NF	21.1	2113 - Forage Crops	Nonstocked		Unspecified	NonForestMgt	Other - Specify	310 - Herbaceous Openland		Proposal

**Habitat Cut: No**

**Site Condition:**

Prescription Brush, mow, plant, burn and/or herbicide to maintain opening. Planting of hard and soft mast.

Specs:

Next Step

Treatments:

Acceptable

Regen:

Other

Comment:

Proposed Start Date: 10/01/2019

125	53054125-NF	6.2	2113 - Forage Crops	Nonstocked		Unspecified	NonForestMgt	Other - Specify	310 - Herbaceous Openland		Proposal
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**Habitat Cut: No**

**Site Condition:**

Prescription Brush, mow, plant, burn and/or herbicide to maintain opening. Planting of hard and soft mast.

Specs:

Next Step

Treatments:

Acceptable

Regen:

Other

Comment:

Proposed Start Date: 10/01/2019

**Total Treatment Acreage Proposed: 814.3**

Availability for Management

Total Acres	Acres Available	Acres Avail		Acres Not Available	Dominant Site Conditions	Dominant Site Conditions					
		With Condition				5B	5C	2F	3A	5A	5E
204	163	0		42	Aspen			3	36		3
7	0	0		7	Cedar				7		
103	103	0		0	Cropland						
173	138	0		35	Herbaceous Openland				35		
62	62	0		0	Jack Pine						
35	0	0		35	Lowland Aspen/Balsam Poplar				35		
20	0	0		20	Lowland Conifers				20		
17	0	0		17	Lowland Deciduous				17		
13	6	0		7	Lowland Shrub				7		
2	2	0		0	Marsh						
65	8	55		2	Mixed Upland Deciduous	47	9			2	
40	38	0		1	Natural Mixed Pines						1
868	818	0		50	Northern Hardwood			21	29		
125	21	68		35	Oak		68		35		
24	20	0		4	Red Pine				4		
15	0	15		0	Upland Mixed Forest		15				
220	203	0		17	Upland Shrub				17		
15	13	0		3	White Pine				3		
2,008	1,594	139		275	Total Forested Acres	47	92	23	245	2	5
	79%	7%		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 Availability	Dominant Site Condition	Acres	Other Site Condition	Other Site Condition	Other Site Condition	Other Site Condition
1	Unavailable	5E: Long-Term Retention	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
2	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

## Report 4 – Site Conditions

Pigeon River Country Mgt. Unit

Compartment: 54

Greg Rekowski : Examiner

Year of Entry: 2020

3	<b>Unavailable</b>	<b>3A: Conservation Values incompatible with harvest at this time</b>	244	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> These stands are part of the Sturgeon River Valley SCA and will not be managed commercially.							
4	<b>Unavailable</b>	<b>5E: Long-Term Retention</b>	1	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
5	<b>Available</b>	<b>5B: Maintain for regeneration purposes</b>	34	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Manage when the second age class of aspen matures.							
6	<b>Available</b>	<b>5B: Maintain for regeneration purposes</b>	12	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Mixed species stand that is only 36 years old. Manage when it matures.							
7	<b>Available</b>	<b>5C: Delay treatment for age/size class diversity or exceptional site quality</b>	9	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Manage for pine/oak and thin when the adjacent white pine stand to the east is next thinned (stand 118).							
8	<b>Unavailable</b>	<b>5E: Long-Term Retention</b>	0	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
9	<b>Unavailable</b>	<b>5E: Long-Term Retention</b>	1	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							

**Report 4 – Site Conditions**

Pigeon River Country Mgt. Unit

Compartment: 54

Greg Rekowski : Examiner

Year of Entry: 2020

10	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	29	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
11	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	15	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
12	Unavailable	5A: Not able to obtain desirable regeneration	2	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Small, poorly-stocked stand that doesn't make sense to manage and would be subject to very heavy browse on it's own.							
13	Unavailable	2F: Too steep	3	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Small isolated stand that sits on relatively steep slopes. Would be subject to heavy browse as well due to it's isolated nature.							
14	Unavailable	2F: Too steep	16	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
15	Unavailable	2F: Too steep	5	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							

**Report 4 – Site Conditions**

**Pigeon River Country Mgt. Unit**

**Compartment: 54**

**Greg Rekowski : Examiner**

**Year of Entry: 2020**

16	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	40	Unspecified	Unspecified	Unspecified	Unspecified
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**Comments:**

Proposed treatment rejected in 2020 YOE over browse concerns.

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	Dedicated Management Areas	Such areas are dedicated by the DNR Director for specific management uses through the promulgation of rules, as governed by Part 5, Department of Natural Resources, of the NREPA (MCL 324.502(2) and 324.504). Section 38 of the Administrative Procedures Act (MCL 24.238) provides for public requests for the promulgation of rules. This is an active program, with one proposed site currently under review by the DNR.
HCVA	Natural Rivers	There are two Natural Rivers datasets which are derived from spatial buffers set from an established and approved distance from the river centerlines. The Natural Rivers Zoning District is a 400 foot buffer for most Natural Rivers. The Vegetative Buffer ranges from 25 to 100 feet. To view specific Zoning Districts and Vegetative Buffers for each Natural River see the table located on the I:\Documentation\GDSE data folder.





	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
1	4110 - Sugar Maple Association	Poletimber Well	9.4	92	111-140	Moderate quality hardwood stand, in need of a TSI. Last record for a harvest was an elm salvage cut by Gary Haskill from 1983-85. Most of the beech has BBD. Side slope on the east edge. Average ba/acre from 7 plots = 112 square feet. Small parking lot in the north half.
2	4111 - S.Maple, Hard Mast Association	Sawtimber Medium	24.9	92	51-80	Moderate to poor quality hardwood stand with erratic stocking which is likely a result of a heavy partial harvest while under private ownership. Areas that were opened up after the harvest filled in exclusively with beech and ironwood. Residual maple quality is not too great although there are some nicer large diameter trees here and there. Beech is a heavy component and many are showing signs of BBD, although there are some without scale. Many large diameter beech have a lot of cull and are good wildlife trees. Ash was only a small component and it is now all dead. Trace of red maple and quaking aspen. Rolling terrain with a few short, steep slopes but nothing that is inoperable. Average ba/acre from 11 plots = 80 square feet. At the current BA and with such a large amount of beech, this stand won't be able to be thinned again for a very long time. Try something a little more drastic in an attempt to get more diverse regeneration back.
3	4110 - Sugar Maple Association	Sawtimber Well	11.1	87	81-110	Two-aged hardwood stand that was heavily cut in 1980. Residual hardwoods, mostly maple, were left throughout, heavier concentrations of these are found in the west half. The east half had some large gaps that were created from the harvest and have filled in with ash, ironwood, and beech, and now look like an M6. Ash came back the best and is mostly in the poletimber size class. Difficult to tell without the leaves on, but a good deal of the ash appears to be alive. Average ba/acre from 7 plots = 96 square feet. A road cuts north through the middle of the stand. Some open areas along the sides as it was recently used as a landing for the sale that took place in stand 18.
4	4110 - Sugar Maple Association	Sawtimber Poor	8.0	104	51-80	Poor quality hardwood stand that alternates between patches of M9 and open-grown hardwoods with a grassy understory. Like other open-grown stands in this Compartment, this stand was likely grazed while under private ownership. Average ba/acre from 5 plots = 66 square feet.
5	4110 - Sugar Maple Association	Sawtimber Medium	16.1	99	1-50	Degraded hardwood stand that alternates between clumps of M8 and grassy openings. Last record for a harvest was an elm salvage cut by Gary Haskill from 1983-85. Old OI notes indicate this stand may have been grazed while under private ownership which may explain some of the non-forested openings. Some of the lower-stocked areas have filled in with quite a bit of beech and ironwood poletimber. The majority of beech has BBD. Trace of quaking aspen and red maple. Rolling terrain. Average ba/acre from 7 plots = 60 square feet.
6	4110 - Sugar Maple Association	Sawtimber Well	94.8	105	81-110	Nice hardwood stand with some big diameters. Last thinned in the winter of 2001 in the sale Cook's Orchard Block, #53-003-00-01, bought by Weyerhaeuser. Quality and BA's tend to decline in the western half of the stand. A few areas heavy to beech, almost all of which have BBD. Gently rolling terrain. Average ba/acre from 17 plots = 91 square feet. Probably another 20 years before this stand is ready for a thinning. Small open area on the west edge of the stand adjacent to Fontinalis Road that is a popular camping spot. A lot of elk traffic through the stand.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
7	4110 - Sugar Maple Association	Sawtimber Well	19.2	87	111-140	Nice stand of hardwoods that is heavy to sugar maple and hasn't been thinned in a while. Last record for a harvest was an elm salvage cut by Gary Haskill from 1983-85. Stocking is somewhat variable as a result of that harvest with a few areas of lower stocking mixed in. Some larger diameter trees are present throughout. Many of the larger beech have lots of rot and are good wildlife trees. Some younger ash appears to be hanging on. Relatively flat terrain. Average ba/acre from 9 plots = 124 square feet.
8	4119 - Mixed Northern Hardwoods	Poletimber Well	5.0	38	81-110	Young hardwood stand that was cut in 1980 while under private ownership. Only a few larger residual beech and sugar maple were left. Good looking stand if only the species mix wasn't so undesirable. It appears that a good amount of the ash is still hanging on despite some signs of EAB in the stand. A couple scattered clones of aspen are present. Average ba/acre from 6 plots = 90 square feet. A small open area is at the south end, likely a landing at one point. There is also an old road that makes a big loop in the stand.
9	4119 - Mixed Northern Hardwoods	Poletimber Well	6.0	38	51-80	Stand was heavily cut over in 1980 while under private ownership. A scattered residual of large beech and various sizes of sugar maple was left. Regeneration has been primarily white ash and ironwood. A lot of the ironwood is still sub-merchantable but will increase in frequency in the canopy as it grows. Difficult to tell how much of the ash is still alive but it appears that a decent amount is still hanging on. Average ba/acre from 6 plots = 70
10	4110 - Sugar Maple Association	Sawtimber Well	14.3	97	81-110	Moderate quality hardwood stand. Old notes indicate it had a heavy partial harvest in 1980 while under private ownership. This is most noticeable in the south half of the stand where BA's are lower and residual trees tend to be more widely spaced. Quality and basal area increase in the north half with some nice sugar maple present. Average ba/acre from 9 plots = 97 square feet. There is a small non-forested opening in the middle of the stand.
12	4110 - Sugar Maple Association	Sawtimber Well	12.2	104	51-80	Overall a relatively low quality hardwood stand despite there being some large diameter trees. Northern 1/3rd of the stand has lower stocking and more open grown trees. BA's increase in the remainder. Average ba/acre from 7 plots = 66 square feet. Stand was likely heavily grazed at one point like similar stands across the Compartment. Evidence of high elk use.
13	4110 - Sugar Maple Association	Sawtimber Well	11.7	106	111-140	Pretty nice stand of hardwoods with some big diameters present. Stand continues south into the adjacent Compartment. Most beech have BBD. Average ba/acre from 3 plots = 133 square feet.
14	4110 - Sugar Maple Association	Sawtimber Medium	11.7	104	51-80	Stand of large diameter, open-grown hardwoods. This stand was likely grazed in the past but unlike similar stands in the Compartment, the understory here has mostly filled in, with the exception of the west end. Some areas of heavy browse, mostly in the west end, but there is also some nice hardwood regen at the far east end, including some good patches of sugar maple saplings. Trace of white pine. Average ba/acre from 7 plots = 79 square feet.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
15	4199 - Other Mixed Upland Deciduous	Sapling Medium	1.6	22	Immature	This is an experimental English Oak and American Chestnut plantation. Note that there is no species category for English Oak in MiFI so I used Shingle Oak. Many of the English Oak are being damaged by sapsuckers. Did not see much chestnut at all. Area no longer has a fence around it as the saplings are large enough to escape serious browse damage.
16	4110 - Sugar Maple Association	Sawtimber Poor	55.7	104	51-80	Degraded hardwood stand with large diameter, open-grown trees. Stocking is patchy with many non-forested areas mixed in throughout. An east-west running road splits this stand down the middle. All of the understory south of the road was recently sheared in order to maintain the open character of the stand. Regeneration is only about a foot tall at this point and is mostly ironwood and beech. North of the road was not sheared. Trace of red pine, balsam fir, white spruce, and bigtooth aspen. Average ba/acre from 9 plots = 60 square feet. Rolling terrain with some large hills. All of this stand is burned periodically as part of the Green Timbers prescribed burns.
17	4110 - Sugar Maple Association	Sawtimber Well	30.2	87	81-110	Moderate quality hardwood stand with variable stocking. Several areas of lower BA's and open grown trees. Best quality and stocking is in the northeast corner. Most beech has BBD. Trace of bigtooth aspen, red maple, and white spruce. Average ba/acre from 8 plots = 96 square feet. Most of the stand slopes down to the east in a series of small ridges and valleys.
18	4110 - Sugar Maple Association	Sawtimber Well	180.4	108	81-110	High quality hardwood stand. Last thinned in the winter of 2012-13 and fall of 2013 in the sale Heavy Snow Hardwoods, #53-014-10-01, bought by AJD, Haskill cut it. Some damage at the north end as there was a new operator cutting this part, this was quickly resolved and wasn't an issue for the rest of the sale. All ash was salvaged from the sale, most of which was in the northern half, and as a result BA's are quite low in areas. Regeneration up to this point is primarily undesirable species although sugar maple seedlings were noted in a few places. Raspberry is thick in some spots. Most overstory beech have BBD. Some autumn olive encroachment in the areas of the stand adjacent to openings. Trace of American elm. Gently rolling terrain. Average ba/acre from 17 plots = 81 square feet.
20	4110 - Sugar Maple Association	Sawtimber Well	3.8	105	81-110	Stand looks like it had a partial harvest at one point as lower stocked areas have quite a bit of younger ironwood which is just reaching merchantability. Used to be a decent amount of ash but it is now all dead. Average ba/acre from 5 plots = 82 square feet.
22	4110 - Sugar Maple Association	Poletimber Well	87.4	85	51-80	Variable stocking, especially in the southern half where there are areas that look like they may have been harvested long ago. Quality and stocking increase in the northern half of the stand as well as the closer you get to the eastern stand line. Rolling terrain with some steeper slopes at the far south end. Trace of elm and paper birch. BBD on most of the beech, however I noticed a few without any scale. Looks like most of the overstory ash are dead but there may be a few hanging on. Average ba/acre from 18 plots = 75 square feet. Autumn olive found near openings and road edges, starting to encroach in spots.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
24	4110 - Sugar Maple Association	Sawtimber Well	81.7	78	51-80	Stand cut in 2002-03 in the sale Elk Wallow Hardwoods, #53-004-00-01, bought by Weyerhaeuser. Residual stand is dominated by sugar maple and is very high quality. Overstory diversity is limited as all of the ash are dead and most of the beech have BBD. Appears to be a second age class of larger and older hardwoods but these are not very common. Regeneration is pure ironwood, beech, and white ash, did not notice any other species. A clear browse line is evident on the regeneration and has limited much of it to heights of 3-5 feet. This seems to decrease somewhat the further north you go in the stand as more of the beech and ironwood are over 5 feet tall. Average ba/acre from 16 points equals 79 square feet. Trace of American elm.
26	4139 - Aspen, Mixed Deciduous	Sawtimber Medium	13.1	98	1-50	Poor quality stand with open grassy areas mixed in throughout. Scattered aspen clones which appear to be several different age classes, likely a result of seeding in over the years. Clumps of large diameter hardwoods mixed in as well. Undulating terrain with some steep slopes, more so on the north edge. Trace of basswood. Average ba/acre from 5 plots = 46 square feet. Isolated stand for management would be subject to very heavy elk browse. Leave as part of the Sturgeon River Valley SCA.
28	4119 - Mixed Northern Hardwoods	Poletimber Well	29.2	97	81-110	Hardwood stand that is dominated by maple. Mediocre quality. Somewhat sporadic stocking, especially along the edges. Best stocking is in the interior portion of the stand. Far SE corner has a clump of white pine poletimber adjacent to the U stand and a little further east of there is where most of the aspen is located. Rolling terrain with some steep slopes, especially along the northern and eastern sides. Average ba/acre from 7 plots = 87 square feet.  Old notes indicate a wildfire passed through the southeast portion of the stand on May 26, 1997. The plow lines can still be seen. No negative impacts noticed on the overstory trees.
30	42201 - Natural White Pine, Mixed Deciduous	Poletimber Well	2.7	55	51-80	A few areas of dense stocking, others more open. Spruce mostly at the far NE end and eastern edge. An old road runs N-S through the middle. Flat. Average ba/acre from 4 plots = 80 square feet.
31	413 - Aspen	Poletimber Poor	1.7	84	1-50	Stand is bounded by the Sturgeon River on the east and Club Stream on the west. Did not access this stand as I did not have waiters at time of inventory.
32	6129 - Mixed Coniferous Lowland Forest	Sawtimber Well	10.5	145	111-140	Nice stand of swamp conifers, the majority of which borders the Sturgeon River and Club Stream. Did not access all parts of the stand due to the water barriers. The east side is dominated by spruce. I did notice some mortality at the far NE end, maybe spruce budworm? Trace of red oak along the eastern upland transition. Cedar is more abundant on the west side and mostly growing right along the banks of the two rivers. Some very large cedar are present, most appear healthy. Not as much spruce on the west side. Trace of yellow birch. Heavy browse on the black ash understory. Average ba/acre from 8 plots = 121 square feet.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
33	6112 - Lowland Aspen	Sawtimber Poor	21.4	57	1-50	Sparse stand of lowland aspen bordering the Sturgeon River. There almost appears to be two age classes of aspen as there are some larger trees which look older. Elm is common throughout with most of them appearing healthy at this time. There are a few small areas of almost pure elm and cherry which is somewhat unique. Some of the cherry has merchantable form so I included it in the canopy coverage but most of it will likely remain shrub quality. Trace of white pine, red maple, and cedar in the overstory. Average ba/acre from 10 plots = 40 square feet. Stand is part of the Sturgeon River Valley SCA and will not be managed.
34	4130 - Aspen	Poletimber Well	9.3	59	51-80	Moderate quality aspen stand with very little overstory diversity. Likely seasonally wet in places, especially further south as the black ash understory picks up there. Scattered areas of lower stocking. The conifer component is mostly along the west edge with a small bubble of almost pure spruce. Trace of basswood and fir. Average ba/acre from 8 plots = 80 square feet.
36	42110 - Planted Red Pine	Sawtimber Medium	7.1	59	81-110	Limby, somewhat open grown red pine. Quite a few multi-stemmed trees. Trace of red oak, sugar maple, and basswood sawlog trees. Average ba/acre from 5 plots = 82 square feet. Quite a few red pine have seeded into the more open areas of the stand.
37	4110 - Sugar Maple Association	Sawtimber Well	15.9	108	81-110	There are some nice quality stems in the interior of the stand. Sporadic stocking along the edges with larger diameter trees. Steep slopes throughout. Thick understory of ironwood in most spots. The northeast side of the stand slopes down to the northeast and may have some seasonally wet ground as there are signs of old tip up mounds. Average ba/acre from 6 plots = 85 square feet. Management options will be limited due to the steep slopes. This stand is also burned periodically as part of the Green Timbers North Rx unit.
38	4119 - Mixed Northern Hardwoods	Sawtimber Poor	82.2	108	1-50	This stand is a part of the Green Timbers North Rx Burn Unit, most recently burned in spring of 2017. This stand is basically a mix of open grassy areas and hardwood clumps. The hardwoods are mostly poor-quality, multi-stemmed and open grown. Nearly every hardwood clump has a dense understory of ironwood. That and beech are the only two species I saw regenerating. There is a small component of two-aged aspen at the far south/southeast end. BBD on most beech. Trace of white pine. Rolling terrain with a few steep slopes. Average ba/acre from 14 plots = 36 square feet. With a past history of grazing, current overbrowsing by deer and elk, and now prescribed fire, this hardwood stand has been largely degraded. Interplanting white pine would be a good option to help rehabilitate the stand.
39	4139 - Aspen, Mixed Deciduous	Sawtimber Well	2.7	55	81-110	Mix of aspen and hardwoods, the aspen tends to be more around the edges. Aspen must have been cut out at some point while under private ownership. Stand sits on a steep knob. Trace of red pine, white pine, white spruce, and basswood. Average ba/acre from 4 plots = 89 square feet. Do not harvest due to browse pressure, small acreage, steep slopes. This stand is a part of the Green Timbers North Rx Burn.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
41	42110 - Planted Red Pine	Sawtimber Well	4.2	59	81-110	Stand is pretty open-grown but it is a little better quality than the other similar stands to the north and south. Will likely be able to thin this at the next inventory cycle. This stand is occasionally burned as part of the Green Timbers North Rx Burn unit, except for a small sliver at the north end. Average ba/acre = 108 square feet.
42	4130 - Aspen	Sawtimber Medium	2.2	54	51-80	Small stand of aspen with some open areas intermixed. Some overtopped red pine mostly along the eastern edge. Appears to be a little bit of wet ground near the north end, may be a seep coming down from the adjacent hardwoods to the west. Trace of basswood and white pine in the overstory. Average ba/acre from 4 plots = 73 square feet.
43	4110 - Sugar Maple Association	Sawtimber Well	7.3	88	81-110	Rolling terrain with some steep slopes, especially the southeast end. Stand is heavily dominated by sugar maple. Quality is not too bad but stocking is very sporadic. Heavy understory of ironwood. Some larger diameter trees along the edges. Trace of white pine in the overstory. Average ba/acre from 4 plots = 93 square feet. No management needed for quite some time, 20 years at least. This stand is occasionally burned as part of the Green Timbers North Rx Burn unit.
45	4110 - Sugar Maple Association	Poletimber Well	17.8	79	81-110	Quality and stocking decline sharply in the southern half. The remainder of the stand is pretty nice quality with some areas of dense stocking in the central and eastern portions. Steep slopes throughout. The aspen component is mostly along a steep slope bordering the wetland on the northwest edge. Trace of red oak. Average ba/acre from 6 plots = 85 square feet. Could potentially thin in the future but it won't be needed for several entries, steep slopes will also reduce the amount of acreage that can be managed.
46	42110 - Planted Red Pine	Poletimber Well	4.9	59	81-110	Poor quality red pine stand that has been heavily damaged by porcupines. Many trees with only 1-2 merchantable sticks. A small patch of trees in the center is in decline, looks like it may be bark beetles as evidenced by exit holes on a few of the trees. Very undesirable understory. Trace of red maple and white ash in the overstory. Average ba/acre from 5 plots = 108 square feet.
47	6112 - Lowland Aspen	Sawtimber Well	1.7	92	81-110	The majority of this stand has wetter ground, except for the far west end which transitions into upland. Pocket of cedar in the interior. Most of the QA is in the western half. Some small ash in the eastern end that is trying to hang on. No management. Average ba/acre from 3 plots = 93 square feet. Trace of American elm.
48	4130 - Aspen	Poletimber Well	27.2	62	51-80	Stand of almost pure aspen, species diversity is low. Some scattered open areas here and there. Some of the larger aspen is in decline. Ground seems to be a mix of upland and lowland as there are several wetter areas mixed in throughout, more so in the north half as well as the closer you get to the eastern stand boundary. Nice shrub component, although it is dominated by black cherry. Average ba/acre from 13 plots = 74 square feet. Trace of American elm, basswood, and balsam fir.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
49	6120 - Lowland Cedar	Sawtimber Well	6.9	111	141-170	Stand sits on an upland/lowland transition with the eastern edge being mostly upland, the remainder is wet. Some large diameter cedar, white pine, and spruce are present. A couple of nice patches of paper birch regeneration. Black spruce is mostly confined to the far northern end of the stand. Quite a bit of blowdown. Average ba/acre from 6 plots = 143 square feet. Stand is a part of the Sturgeon River Valley SCA.
50	4133 - Aspen, Mixed Pine	Sawtimber Well	4.0	84	111-140	Stand sits on a relatively steep west-facing slope. Nice component of natural pine, including a few very large trees. Average ba/acre from 6 plots = 127 square feet. Stand is a part of the Sturgeon River Valley SCA and will not be managed.
51	42210 - Natural Red Pine	Sawtimber Well	4.0	140	171-200	Nice stand of natural red pine sitting on a steep west-facing slope. Many of the red pine have old fire scars. Old trees, the age came from a 14" red pine. Average ba/acre from 4 plots = 180 square feet. This stand is part of the Sturgeon River Valley SCA and will not be managed.
53	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Medium	34.2	94	51-80	Stand cut in 1980 while under private ownership. Everything cut except for oak and pine. Residual oak quality is moderate, some big diameters are present. Stocking is quite variable as a result of the species removal. Aspen regenerated well in some areas, particularly the east and northeast sides, but is still quite small at this point with many unmerchantable stems. Aspen is absent from other parts of the stand, mostly where the oak residual is higher, with these areas having a red maple understory. Pockets heavy to pine are along the east side and northwest corner. Average ba/acre from 11 plots = 64 square feet. Let the aspen component mature before making a management decision.
54	42290 - Natural Mixed Pine	Poletimber Well	13.5	77	81-110	Mixed conifer stand with variable stocking as trees tend to be somewhat clumpy. Areas of lower stocking are scattered throughout. A couple small areas with dense white pine poletimber and red pine sawtimber, one in the middle of the stand and one at the southeast corner. A portion of the red pine is made up of large, old relict trees, most of which have fire scars. The last harvest in this stand was by Fred Bourdeau in 1981 as part of the sale Hole Pine Block, in which marked red, white, and jack pine were cut. Rolling terrain. Trace of bigtooth aspen and red maple at the far northern end. Average ba/acre from 7 plots = 100 square feet.
55	4130 - Aspen	Poletimber Well	5.4	36	111-140	Stand clearcut by Champion in 1981 as part of sale Death Valley West Block, all species cut. Stand regenerated well and is nearly pure aspen. The quaking aspen is just reaching merchantability but diameters on the bigtooth tend to vary quite a bit, with larger stems around the southern edges of the stand. Trace of red pine. Average ba/acre from 6 plots = 117 square feet. At the western end of the stand is a small parking lot that is used by recreational users for the Green Timbers area.
56	42220 - Natural Jack Pine	Poletimber Poor	6.9	37	1-50	Stand clearcut by Champion in 1981 as part of sale Death Valley West Block, all species cut. Stand did not regenerate well and mostly came back to poor quality, open-grown jack pine. Stocking is patchy as well and there are pockets of U mixed in throughout, especially the northern and western parts. Average ba/acre from 5 plots = 38 square feet.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
57	42290 - Natural Mixed Pine	Sawtimber Medium	8.5	67	51-80	Somewhat variable stand with a mix of species and sizes. Stocking tends to be somewhat clumpy. Last harvest was in 1981 when marked red, white, and jack pine were cut by Fred Bourdeau as part of the sale Hole Pine Block. There are a few very large, relic red pine mixed in. A couple of very large white pine and oak as well. Red maple understory picks up along the western half. Small amount of younger red oak in-growth from the previous harvest. Average ba/acre from 11 plots = 72 square feet. Gently rolling terrain.
58	4130 - Aspen	Poletimber Well	17.3	36	111-140	Nice developing stand of nearly pure aspen. Stand clearcut by Champion in 1981 as part of sale Death Valley West Block, all species cut. Dominant species cut were oak, aspen, mixed hardwood, red pine, and white pine. Only a few small open areas that did not regenerate well. Some young red oak are present. Pine is mostly low quality. Gently rolling terrain. Average ba/acre from 9 plots = 116 square feet.
59	4123 - Red Oak	Sawtimber Well	39.7	94	51-80	Moderate quality oak stand with a few very large diameter trees mixed in. Rolling terrain with a few steep slopes, mostly western aspect. Stand had everything except oak and pine cut out in 1980 while under private ownership. As a result the residual stocking is highly variable, ranging from O7 to some patches of O9. A few small patches of younger aspen are present in the more open areas. Red maple regeneration is abundant in some places but not all, with some areas of heavy browse. Advanced oak regeneration is non-existent. A small sliver of the southeastern corner of the stand burned in a wildfire on 04/26/1998 (see 1998DOQ imagery). Average ba/acre from 12 plots = 77 square feet.
60	4130 - Aspen	Sawtimber Well	7.4	89	141-170	Most of the stand occupies a steep side-slope. Central part of the stand has a pocket of red pine that appears planted. Average ba/acre from 6 plots = 143 square feet. Stand is part of the Sturgeon River Valley SCA and will not be managed.
61	6112 - Lowland Aspen	Sawtimber Poor	12.3	57	1-50	Sparse stand of lowland aspen bordering the Sturgeon River. There almost appears to be two age classes of aspen as there are some larger trees which look older. Stocking is best at the south end. Elm is common throughout although many of the larger ones are dead or in decline. There may be a few cherry stems that become merchantable here and there but most of it will likely remain shrub quality. Trace of white pine, balsam fir, and cedar in the overstory. Average ba/acre from 8 plots = 46 square feet. Stand is part of the Sturgeon River SCA and will not be managed.
65	4131 - Aspen, Oak	Sawtimber Well	9.4	89	111-140	Most of this stand sits on a steep west facing slope. The red oak tends to be located at higher slopes and more concentrated in the northern parts of the stand. Barren understory in many spots, others with a red maple understory that is heavily browsed. Average ba/acre from 5 plots = 112 square feet. No management, retain this stand as part of the Sturgeon River Valley SCA.
66	6124 - Lowland Spruce- Fir	Sawtimber Medium	9.1	65	51-80	Stand of pretty nice quality spruce although stocking is not great. Some scattered mortality on the spruce was evident, likely from budworm. Deciduous understory is abundant in places and ready to take over when the spruce dies. Aspen component is mostly at the north and south ends. Ground is not overly wet and parts of the eastern edge are upland. Average ba/acre from 6 plots = 58 square feet. Stand is part of the Sturgeon River Valley SCA and will not be managed.





	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
67	4123 - Red Oak	Sawtimber Well	35.3	97	81-110	Nice stand of moderate to high quality oak. Undulating west-facing ridges and valleys throughout with some steep slopes. Barren understory throughout most of the stand, evidence of high deer use. The northeast quarter of the stand burned in a wildfire on 04/26/1998, none of the overstory oak seem to be impacted. No noticeable difference between burned and unburned area. Average ba/acre from 10 plots = 107 square feet. No management, leave as part of the Sturgeon River Valley SCA.
68	4123 - Red Oak	Sawtimber Well	28.7	95	81-110	Nice stand of nearly pure oak with little overstory diversity as a result of a cut by Champion in 1981 in the sale Death Valley West Block. All species cut except oak. The northern 1/3 of the stand has the lowest quality, the remainder is quite nice. Rolling terrain with some east-facing slopes but nothing too steep. The west edge of the stand follows the top of the ridgeline. A wildfire burned the northern half of this stand on 04/26/1998 (see 98DOQ imagery). No effects noticed on the overstory. The red maple understory does seem to pick up as you move south and outside of the burn boundary. Trace of red pine and jack pine poletimber. Average ba/acre from 11 plots = 82 square feet.
69	4130 - Aspen	Poletimber Well	35.4	36	81-110	Stand clearcut by Champion in 1981 as part of sale Death Valley West Block, all species cut. Dominant species cut were oak, aspen, mixed hardwood, red pine, and white pine. Aspen has regenerated well, as well as a nice component of oak stump sprouts, which are more prevalent in the north half of the stand. Diameters tend to vary quite a bit. The south half of the stand burned in a wildfire on 04/26/1998 (see 98DOQ imagery) but other than a few open grassy areas it did not seem to negatively impact the aspen. Average ba/acre from 12 plots = 102 square feet. Diameters are still too small at this point but will likely be ready for a harvest in ten years. Retain the immature oak.
71	4130 - Aspen	Sapling Well	20.0	17	Immature	Stand was cut in 2001 by a handcrew, #53-011-00-01, Honey Locust Trail Blocks, bought by A.J.D. Aspen regenerated pretty well with only a few areas impacted by browse. The red maple is being hit hard by browse which is limiting most of it to the understory.
72	42220 - Natural Jack Pine	Poletimber Medium	16.6	37	1-50	Poor quality jack pine stand with low to moderate stocking. Stand clearcut in 1985 by George Kimball. Jack pine with less than 2 sticks were left uncut which would explain why there are scattered larger jack pine mixed in throughout the stand at this time. Areas with larger trees are more common at the north and south ends. A few areas with decent mixed oak regen, more so at the south end. Average ba/acre from 7 plots = 44 square feet.
73	4133 - Aspen, Mixed Pine	Sapling Well	5.1	17	Immature	Stand was cut in 2001 by a handcrew, #53-011-00-01, Honey Locust Trail Blocks, bought by A.J.D. Aspen regenerated well but there has been quite a bit of damage to the boles from elk. The red maple understory is heavily browsed. Some pine regen but most of it is overtopped by the aspen. A couple of red oak stump sprouts made it past the browse.
74	4123 - Red Oak	Sawtimber Medium	2.4	84	51-80	Stand was cut in 2001 by a handcrew, #53-011-00-01, Honey Locust Trail Blocks, bought by A.J.D. Oak were marked to leave in this area. Stand was supposedly scarified after the harvest in 2001 as part of FTP #53-315. Heavily browsed red maple understory, no evidence of oak regeneration. Average ba/acre from 3 plots = 73 square feet. The eastern part of the stand is a popular camping area which has resulted in heavy soil compaction.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
75	42220 - Natural Jack Pine	Poletimber Medium	14.1	63	1-50	Low quality jack pine stand with several non-forested openings mixed in throughout. A few denser pockets of jack pine are present, some of these pockets have quite a bit of mortality and blowdown. A couple areas with red oak regeneration, although the quality of oak is low here. Average ba/acre from 7 plots = 41 square feet.
77	42220 - Natural Jack Pine	Poletimber Medium	15.2	59	51-80	Moderate quality jack pine stand. Stocking tends to be clumpy in nature with non-forested openings mixed in throughout. A few large, relict red pine. White pine most common at the far southern end of the stand. Average ba/acre from 8 plots = 61 square feet.
78	42290 - Natural Mixed Pine	Poletimber Medium	12.0	34	1-50	Variable stand with a wide range of diameters on the white pine. Last harvest was in 1984 along with stand 19 in the adjacent Compartment to the east. I'm guessing they cut everything except the red pine, white pine, and oak. As a result the residual pine is erratically spaced and not very good quality. Southwest portion of the stand sits on a slight west-facing slope and is where most of the jack pine is located. Scattered pockets of red maple regen in the remaining east part of the stand, some oak saplings and poletimber are mixed in as well. Far north end has a pocket of nicer pine with some aspen mixed in. Average ba/acre from 9 plots = 50 square feet.
80	4311 - Pine, Aspen Mix	Sawtimber Well	15.1	88	111-140	Natural oak/pine stand with a variety of diameters and evidence of past fire history. Many of the larger red pine have fire scars. Scattered clones of aspen mixed in throughout. About half of the stand sits on a south or east facing slope while the remainder is on top of the ridge. No evidence of previous harvesting. Trace of paper birch. Average ba/acre from 14 plots = 115 square feet. Quite a unique stand, leave as is for now.
83	4123 - Red Oak	Poletimber Well	18.7	36	51-80	Stand was clearcut by Champion in 1981-82. Very nice red oak regeneration, almost all are stump sprout origin. Only a few open areas scattered throughout that didn't regenerate. Diameters on the aspen and red maple are a little smaller than similar aged stands likely due to the competition with the oak. Small clump of mature oak at the far northwest corner. Average ba/acre from 8 plots = 79 square feet.
84	42290 - Natural Mixed Pine	Sawtimber Poor	5.8	88	1-50	Patchy clumps of trees mixed in with scattered U type areas. Some large diameter trees are present but most are open-grown and poor form. Better quality and stocking in the east half of the stand, with some nicer clumps of red and white pine. Most of the stand sits on somewhat of a ridge overlooking a valley to the south. Average ba/acre from 5 plots = 49 square feet.
86	4133 - Aspen, Mixed Pine	Poletimber Medium	1.7	37	81-110	Scattered clones of aspen mixed in with larger trees. Some larger BTA at the south end. Trace of red oak poletimber. Average ba/acre from 4 plots = 108 square feet. Some U type mixed in throughout.
87	4191 - Mixed Upland Deciduous with Conifer	Poletimber Well	12.3	36	111-140	Two-aged stand that is a nice mix of species, it looks like all red pine and white pine were left when it was last cut. A couple of larger red oak were left but the rest were cut. A good amount of the red oak stump sprouts have recruited into the overstory. Average ba/acre from 7 plots = 116 square feet. Let this stand grow and manage for a mixed pine-oak stand.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
88	4133 - Aspen, Mixed Pine	Poletimber Well	14.7	36	Unspecified	Stand was harvested while under private ownership. Looks like everything except oak and pine were cut. Aspen regeneration is somewhat sporadic and not uniform throughout. Some areas are just oak and pine with little understory development. Diameters on the aspen tend to vary as well, with some clumps barely merchantable. Rolling terrain with some steep slopes. Trace of paper birch. Average ba/acre from 10 plots = 76 square feet.  An illegal ORV/truck trail runs parallel to Honeylocust Trail and cuts up through the steep hill in the far northern part of the stand.
89	4133 - Aspen, Mixed Pine	Sapling Poor	3.9	17	Immature	Stand was cut in 2001 by a handcrew, #53-011-00-01, Honey Locust Trail Blocks, bought by AJD. Elk browse has eliminated a lot of the aspen and red maple regeneration which has resulted in a poorly-stocked stand. What regeneration there is, is mostly in the north half. A couple of red oak stump sprouts made it. Bushy white and jack pine, as well as cherry, are slowly filling in the south half.
90	4191 - Mixed Upland Deciduous with Conifer	Poletimber Well	8.9	68	111-140	Stand lies on a moderately steep, northwest facing slope. Diameters tend to vary on most species, likely a two-aged stand. All pine in the stand is natural and fire scars are evident on some of the larger trees, a few charred stumps can be found throughout as well. Some clumps of larger pine along the northern boundary. No evidence that this stand has had a partial harvest. Average ba/acre from 6 plots = 138 square feet.
92	4130 - Aspen	Sapling Well	3.0	17	Immature	Sale was cut in 2001 by a handcrew, #53-011-00-01, Honey Locust Trail Blocks, bought by AJD. Aspen came back pretty well and a few red oak stump sprouts made it as well. Red maple understory is being heavily browsed. Quite a bit of damage to the aspen boles due to elk rubs.
94	6117 - Lowland Deciduous, Mixed Coniferous	Sawtimber Poor	16.8	84	1-50	Lowland stand of poor stocking and quality. Majority of the trees are in the south half. The north half is barely forested, more of a U/L type. This could probably be broken out as a separate stand next entry. A lot of large coarse woody debris from trees that have fallen. Not sure if this is from past beaver activity or just old age. Very heavy black ash understory in the south half, despite the small size a lot of it still appears to have EAB. Average ba/acre from 11 plots = 25 square feet. Stand is part of the Sturgeon River Valley SCA and will not be managed.  Invasive honeysuckle is starting to take off in the far north end.
95	4191 - Mixed Upland Deciduous with Conifer	Poletimber Well	1.4	36	51-80	Small stand that was cut at the same time as the adjacent aspen stand to the west but came back to mostly oak and pine. Stand sits on an east-facing slope. Average ba/acre from 3 plots = 63 square feet.
96	42110 - Planted Red Pine	Sawtimber Poor	3.7	59	1-50	Open grown, limby red pine stand. Far southwest corner has a clump of large diameter hardwoods. No management due to the small size of the stand. Average ba/acre from 4 plots = 48 square feet. This stand is occasionally burned as part of the Green Timbers North Rx Burn unit.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
99	4133 - Aspen, Mixed Pine	Sapling Well	3.1	33	51-80	Stand cut in 1985 by George Kimball. Aspen regenerated well but there are still a lot of small stems that are just reaching merchantability. Quite a bit of oak regeneration, mostly in the east/northeast part. There are a few sawlog-sized oak at the south end. Average ba/acre from 4 plots = 55 square feet. Small parking area next to the closed road and gate.
101	4199 - Other Mixed Upland Deciduous	Poletimber Medium	4.6	61	51-80	<p>Strange looking stand with a mix of different species. I'm guessing that this stand was harvested while under private ownership and everything was cut except for the larger hardwoods. Currently it is a stand of large diameter sugar maple and basswood with a younger age class of poplars, ash, and ironwood. A decent percentage of the smaller ash seems to be hanging on despite signs of EAB, although it is difficult to tell without any leaves on the trees. Average ba/acre from 6 plots = 52 square feet. An old trail road winds along the western edge. Autumn olive is established throughout the stand with heavier concentrations at the north and south ends.</p> <p>Browse pressure is too high and acreage is too small to cut on its own. Consider cutting next entry if adjacent hardwood stands are thinned. Retain the large diameter sugar maple and basswood. The autumn olive understory also needs to be dealt with at some point prior to harvesting.</p>
102	4131 - Aspen, Oak	Poletimber Well	4.0	38	81-110	Stand cut in 1980 while still under private ownership. Smaller diameters because of the oak competition. Some large oak are present. Average ba/acre from 5 plots = 100 square feet.
104	4110 - Sugar Maple Association	Poletimber Well	10.8	91	81-110	Pretty nice quality stand. More sugar maple poletimber on the southeast finger, the remainder is more log-sized. Stocking starts to decline in the far western side. Some autumn olive encroachment in the middle part of the stand around what appears to be an old trail road that runs north up to the private property. Average ba/acre from 4 plots = 108 square feet. Stand may be ready for a thinning next entry.
105	4110 - Sugar Maple Association	Sawtimber Medium	20.9	91	51-80	This stand definitely had a partial harvest at some time long ago while under private ownership. Large gaps from that harvest have filled in with only ash, beech, and ironwood. Some of the younger ash are still hanging on. There is a third age-class of older, large diameter trees mixed in throughout. Autumn olive is encroaching into the stand along the opening edges. Average ba/acre from 6 plots equals 78 square feet per acre. Trace of paper birch.
108	4199 - Other Mixed Upland Deciduous	Sawtimber Poor	2.2	88	1-50	Small mixed stand with an open non-forested area in the middle. Aspen is mostly along the wetland edge in the east half and then along the southern edge at the west end. Small clump of hardwoods makes up the remainder. Black cherry is poletimber size but mostly shrub-quality. Average ba/acre from 4 plots = 48 square feet. This stand is occasionally burned as part of the Green Timbers North Rx Burn unit. Do not manage due to the small size and poor-stocking.
114	4130 - Aspen	Poletimber Well	4.3	38	111-140	Nice developing aspen stand that was last cut while under private ownership. Diameters tend to vary and are a bit smaller where the oak and pine residual is more concentrated. A couple very large red oak are present as well as a couple of old, fire-charred red pine. An open area is present at the northeast corner. Average ba/acre from 4 plots = 133 square feet.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
115	4130 - Aspen	Poletimber Well	9.6	38	111-140	Stand cut while under private ownership, oak and pine were left. Aspen has regenerated well. Diameters vary considerably, becoming barely merchantable in the west half of the stand where the residual is higher. A few very large red oak are present as well as some old, natural red pine. Average ba/acre from 8 plots = 120 square feet. Stand should be ready for a final harvest next entry.
118	42200 - Natural White Pine	Poletimber Well	12.7	68	111-140	Stand appears to have had a partial harvest while under private ownership. Looks like everything except oak and pine were removed, however there are scattered red maple and aspen that were left, especially in the far eastern part of the stand. Stocking tends to vary somewhat as a result of the species removal. Some dense pockets are present in the northwest part of the stand. Larger pine and oak are more common in the east half, diameters decrease in the remainder. Browse is holding the red maple understory back in some areas. Average ba/acre from 4 plots = 138 square feet. Stand could be looked at for a thinning next entry.
120	42220 - Natural Jack Pine	Poletimber Medium	9.1	49	51-80	Low quality jack pine stand, the majority of which are quite small but there are some larger stems mixed in. White and red pine are generally low quality as well except for a few XL-sized trees. The central part of the stand is in a bowl-like depression and is likely a frost pocket. Trace of red maple and red oak in the overstory. Average ba/acre from 7 plots = 50 square feet.



Stand	Cover Type	Acres	Managed Site	General Comments:
11	310 - Herbaceous Openland	34.9	No	<p>Sturgeon River floodplain that is likely seasonally wet however it is several feet above the level of the river. A few signs of newer beaver activity. Tag alder more common on the east side of the river.</p> <p>Wild parsnip and reed canary grass are abundant in many spots. Spot treatments for the wild parsnip have been done the past couple of years, mostly on the west side of the river but it doesn't appear to have been very effective. The east side of the of the river appears to have even more parsnip.</p>
19	2113 - Forage Crops	4.3	Yes	Managed wildlife opening. Went around some clumps of hardwoods. Autumn olive around the edges and it is encroaching into the surrounding hardwood stands.
21	2113 - Forage Crops	2.7	Yes	<p>Managed wildlife opening. Went around some clumps of hardwoods. Autumn olive around the edges and it is encroaching into the surrounding hardwood stands.</p> <p>Found a single American Chestnut sapling at the northeast corner of the stand adjacent to the road. It's mixed in with some other saplings and is currently 4.2 inches in diameter. It appears mostly healthy except for some birdpeck on the bole and it is already producing mast based on some husks that I found at the base of the tree.</p>
23	2113 - Forage Crops	8.6	Yes	This used to be an old U stand that was dominated by autumn olive. It has mostly been cleared and is now a managed food plot. One clump of ash poletimber and autumn olive was excluded. A few scattered log-size sugar maple in the managed portion. Areas of heavy autumn olive around the perimeter, encroaching into the surrounding hardwoods, seemed most prevalent along the northern and southern edges. An old FTP# C53-262 indicates 1000 chestnut saplings were planted here in 1989, roughly 2.5 acres in the SE portion of the stand? I did not see any evidence of chestnut saplings.
25	320 - Upland Shrub	114.5	No	Large grassland/upland shrub complex that is part of the Green Timbers Prescribed Burns. The far northeast part of the stand is part of the North Burn Unit. A couple more burns and this can probably be coded as G type as there isn't a whole lot of black cherry left. Rolling terrain.
27	6229 - Mixed lowland shrub	5.6	No	Wet drainage, a good part of which borders a road.
29	320 - Upland Shrub	5.0	No	South end of the stand widens out into a bowl-like depression. Old notes indicate a wildfire burned here on May 26, 1997.
35	320 - Upland Shrub	21.5	No	Nice U stand, some areas of grass intermixed throughout. Some wet ground on the SW side of the interior A9 island, looks like a seep coming down from the hardwood stand to the west. Red pine saplings become more common in the thin finger to the north. This stand is occasionally burned as part of the Green Timbers North Rx Burn unit.
40	310 - Herbaceous Openland	11.3	No	<p>Some scattered cherry throughout but this stand is dominated by grass and knapweed. Large old white pine stumps are present. Mostly a dry site but there is some moist ground, especially along the eastern edges.</p> <p>Manage for native species, do not turn this into another food plot.</p>
44	6230 - Cattail	2.0	No	Wet stand occupying a valley bottom. Cattail is dominant throughout but starts to decrease as you move to the west.



Stand	Cover Type	Acres	Managed Site	General Comments:
52	320 - Upland Shrub	1.3	No	Ridgetop/knob with only a few trees growing on it. Provides a decent view of the surrounding river valley. Almost looks like some kind of structure was here at one point. Stand is part of the Sturgeon River Valley SCA and will not be managed.
62	6229 - Mixed lowland shrub	3.5	No	Stand does not appear very wet but based on it's landscape position in the floodplain I am calling it lowland. Stand is a part of the Sturgeon River Valley SCA.
63	320 - Upland Shrub	0.8	No	Small, semi-open area that sits on a few side slopes. Leave as is.
64	320 - Upland Shrub	0.8	No	Small depression that may be a frost pocket.
70	320 - Upland Shrub	1.5	No	Small open area, maybe an old landing?
76	320 - Upland Shrub	9.1	No	<p>Stand cut in fall of 2012 as part of the Elk Rub Jack Pine timber sale. #53-027-10-01. Bought and cut by Northern Timberlands. No chipping took place so not a lot of ground scarification. As a result, jack pine has not seeded in too well with the exception of some of the heavily impacted areas like skid trails. The remainder of the sale does not have much coming in other than cherry.</p> <p>Regen survey numbers indicate a failure for either a mixed species or jack pine management objective. Survey results: jack pine 314 TPA (1.5'), red maple 171 TPA (1'). Browse noted on most of the red maple and some of the jack pine. Some advanced white pine and red oak regeneration was protected during harvesting. OI acceptable regen comments: Jack, red and white pine as well as oak, aspen and red maple would be expected to regenerate the stand.</p>
79	320 - Upland Shrub	8.7	No	Natural opening about half of which sits on a side-slope. The remainder is in a valley-like depression along with the adjacent jack pine stand to the south (#77). The depression is likely a frost pocket. Full coverage of grass at the ground level and a good component of reindeer moss. Clumps of trees are scattered throughout. Some illegal off-road use on both sides of Honeylocust Trail. Appears to be an old grade or road that runs parallel to Honeylocust up the hill.
81	320 - Upland Shrub	1.0	No	Small open area that is on a slight side slope. This stand is part of the Sturgeon River Valley SCA and will not be managed.
82	6229 - Mixed lowland shrub	3.4	No	Ninebark is mostly along the Sturgeon River. Reed canary grass established in places along the riverbank. Open grassy areas mixed in throughout. This stand is part of the Sturgeon River Valley SCA.
85	320 - Upland Shrub	3.7	No	Patches of scrubby jack and white pine. Rolling terrain. Honeylocust Trail splits the stand and there is a lot of erosion where it comes down the hill from the south. There is also an illegal trail road adjacent to Honeylocust on the west side.
91	310 - Herbaceous Openland	0.5	No	Small little opening that was likely a landing at one point. Sits on a slight side slope.
93	320 - Upland Shrub	5.8	No	Borderline U/J4 stand. Several clumps of jack pine scattered throughout, especially west of Honeylocust Trail. Various sizes of black cherry, some over 5" DBH but not merchantable quality.



Stand	Cover Type	Acres	Managed Site	General Comments:
97	2113 - Forage Crops	32.6	Yes	This is a managed wildlife opening, usually planted with corn.
98	310 - Herbaceous Openland	4.1	No	Small opening between stands that is not a maintained food plot. Decent amount of raspberry. Elk browse on the ironwood and BAM regeneration.
100	2113 - Forage Crops	14.3	Yes	This is a managed wildlife opening, most recently planted with corn.
106	320 - Upland Shrub	15.3	No	Nice looking U stand, black cherry most abundant in the finger that extends north. Not a part of the prescribed burns in the area.
109	320 - Upland Shrub	9.1	No	Stand is a mix of wet and dry ground. The south half tends to be a little drier and has more of the cherry. The north half becomes wet in spots and is where most of the alder is located. Far northwest corner has some conifers seeing in, including a few scotch pine, not sure how they got there. Scattered beaver activity throughout. Wild parsnip becomes abundant in some areas along the eastern edge of the stand, closer to the river.  No management. Continue to treat invasives.
110	320 - Upland Shrub	0.8	No	
111	320 - Upland Shrub	9.8	No	Stand is periodically burned as part of the Green Timbers North Rx Burn. Most of the stand sits on slight side slope. Most recently burned in spring of 2017. Some areas of barren soil as a result of that burn.
112	310 - Herbaceous Openland	27.8	Yes	This stand is periodically burned with other stands to the south.
113	320 - Upland Shrub	5.8	No	A lot of autumn olive. Far east end turns into a G type.
116	310 - Herbaceous Openland	15.1	No	G type stand that is not burned, mowed, or planted. Blackberry and raspberry pick up at the east end.
117	310 - Herbaceous Openland	6.3	No	M7 type of stand with an open grassy understory. Some seedlings and raspberry mixed in throughout.
121	2113 - Forage Crops	13.7	Yes	A little under half of this stand is a managed wildlife opening. Some scattered open-grown hardwoods mixed in, most of which are dead ash. About 15 red oak sapling planted on the south side of the maintained area. Rolling terrain.
123	310 - Herbaceous Openland	20.4	Yes	This stand is periodically mowed. It has not been planted with forage crops as of yet.
124	2113 - Forage Crops	21.1	Yes	This is a managed wildlife opening. Some autumn olive around the perimeter as well as a single clump in the interior. A few scattered hardwoods.
125	2113 - Forage Crops	6.2	Yes	This is a managed wildlife opening with a couple of scattered hardwoods in it.





Stand	Cover Type	Acres	Managed Site	General Comments:
126	310 - Herbaceous Openland	52.4	No	This stand is occasionally burned as part of the Green Timbers North Rx Burn unit. Has responded very well to the most recent burn and looks like a very high quality grassland. Scattered red pine, sugar maple, and basswood are present.
127	320 - Upland Shrub	5.5	No	Nice U stand with a few good patches of grass. The southern half of this stand sits in a valley and is occasionally burned as part of the Green Timbers North Rx Burn unit.

Report 1 – Total Acres by Cover Type and Age Class



Age Class

	Non-Forest	0-9	10-19	20-29	30-39	40-49	50-59	60-69	70-79	80-89	90-99	100-109	110-119	120-129	130-139	140-149	150+	Uneven-Aged	Total
Aspen	0	0	32	0	96	0	14	27	0	23	13	0	0	0	0	0	0	0	205
Cedar	0	0	0	0	0	0	0	0	0	0	0	0	7	0	0	0	0	0	7
Cropland	104	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	104
Herbaceous Openland	173	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	173
Jack Pine	0	0	0	0	24	9	15	14	0	0	0	0	0	0	0	0	0	0	62
Lowland Aspen/Balsam Poplar	0	0	0	0	0	0	34	0	0	0	2	0	0	0	0	0	0	0	36
Lowland Conifers	0	0	0	0	0	0	0	9	0	0	0	0	0	0	0	11	0	0	19
Lowland Deciduous	0	0	0	0	0	0	0	0	0	17	0	0	0	0	0	0	0	0	17
Lowland Shrub	13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12
Marsh	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
Mixed Upland Deciduous	0	0	0	2	13	0	0	14	0	2	34	0	0	0	0	0	0	0	65
Natural Mixed Pines	0	0	0	0	12	0	0	9	14	6	0	0	0	0	0	0	0	0	40
Northern Hardwood	0	0	0	0	11	0	0	0	100	155	126	477	0	0	0	0	0	0	869
Oak	0	0	0	0	19	0	0	0	0	2	104	0	0	0	0	0	0	0	125
Red Pine	0	0	0	0	0	0	20	0	0	0	0	0	0	0	0	4	0	0	24
Upland Mixed Forest	0	0	0	0	0	0	0	0	0	15	0	0	0	0	0	0	0	0	15
Upland Shrub	220	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	220
White Pine	0	0	0	0	0	0	3	13	0	0	0	0	0	0	0	0	0	0	16
<b>Total</b>	<b>512</b>	<b>0</b>	<b>32</b>	<b>2</b>	<b>175</b>	<b>9</b>	<b>86</b>	<b>86</b>	<b>114</b>	<b>220</b>	<b>279</b>	<b>477</b>	<b>7</b>	<b>0</b>	<b>0</b>	<b>15</b>	<b>0</b>	<b>0</b>	<b>2011</b>



## Report 2 – Treatment Summary

### Acres of Harvest

Commercial Harvest - 183  
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	33	0	0	0	0	0	0	0	0	33
Jack Pine	38	0	0	0	0	0	0	0	0	38
Natural Mixed Pines	0	0	0	21	0	0	0	0	0	21
Northern Hardwood	0	0	0	0	52	29	0	0	0	81
Red Pine	0	0	0	5	0	0	0	0	0	5
Upland Shrub	5	0	0	0	0	0	0	0	0	5
<b>Total</b>	<b>76</b>	<b>0</b>	<b>0</b>	<b>26</b>	<b>52</b>	<b>29</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>183</b>

### Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	183	0	0	0	442	0	0	35	155	814
Next Step	0	0	41	0	47	0	590	0	0	678
<b>Total</b>	<b>183</b>	<b>0</b>	<b>41</b>	<b>0</b>	<b>488</b>	<b>0</b>	<b>590</b>	<b>35</b>	<b>155</b>	<b>1492</b>



S t a n d	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
1	53054001-Cut	9.4	4110 - Sugar Maple Association	Poletimber Well	92	111-140	Harvest	Crown Thinning	411 - Northern Hardwood	Uneven-Aged	Draft Field Boundary

**Habitat Cut: No Site Condition:**

Prescription TSI/crown thin to 80-90 square feet. Focus on thinning from the poletimber and small sawlog size classes. Cut all beech except leave large diameter wildlife trees as well as any without scale. Leave all aspen.

Next Step  
Treatments:

Acceptable  
Regen:

Other Exclude any sale activities during the elk hunting seasons, dates of which will be provided by WLD Division.

Comment:

Proposed Start Date: 10/1 /2018

2	53054002-Cut	24.9	4111 - S.Maple, Hard Mast Association	Sawtimber Medium	92	51-80	Harvest	Shelterwood with Retention	411 - Northern Hardwood	Two-Aged	Draft Field Boundary
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**Habitat Cut: No Site Condition:**

Prescription Shelterwood. Leave 30-40 BA of the best quality basswood and sugar maple sawlog trees. If present, do not cut any birch or oak. Cut all beech except leave large diameter trees with a lot of rot as well any resistant trees. Mark some poor-quality maple and beech as cut and leave trees to increase the amount of coarse woody debris and to help shelter regeneration from deer and elk browse. Add 2" spec to get all the beech and ironwood regeneration knocked down. No chipping and require all tops to be spread evenly with the hopes it will alleviate some of the browse pressure. Add a small retention pocket or two around areas of better quality and stocking.

Next Step Planting, Underplant; Monitoring, Natural Regen (Intermediate)  
Treatments:

Acceptable Fully-stocked northern hardwood regeneration. However, any combination that results in a greater than 50% representation of either beech, ash, and/or ironwood will be considered a failure. Browsing that results in less than a fully-stocked stand will also be considered a failure.

Other Exclude any sale activities during the elk hunting seasons, dates of which will be provided by WLD Division.

Comment:

Following harvest, plant a mixture of red oak, white oak, and white pine. Target 5-10 oak saplings per acre which will need to be protected with fencing. White pine can be seedlings and planted at a similar rate as the oak but will not need the fencing protection.

Utilize the G type to the southeast for decking but only the area that is not a maintained food plot.

No cutting during bark slip time period.

Proposed Start Date: 10/1 /2018

3	53054003-Cut	11.1	4110 - Sugar Maple Association	Sawtimber Well	87	81-110	Harvest	Shelterwood	411 - Northern Hardwood	Uneven-Aged	Draft Field Boundary
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**Habitat Cut: No Site Condition:**

Prescription Shelterwood. Leave 30-40 BA of the best quality basswood and sugar maple sawlog trees. Cut all ash and beech. Mark some poor-quality maple and beech as cut and leave trees to increase the amount of coarse woody debris and to help shelter regeneration from deer and elk browse. Add 2" spec to get all regeneration knocked down. No chipping and require all tops to be spread evenly with the hopes it will alleviate some of the browse pressure.

Next Step Monitoring, Natural Regen (Intermediate)  
Treatments:

Acceptable Regeneration that meets northern hardwood stocking guidelines.  
Regen:

Other Exclude any sale activities during the elk hunting seasons, dates of which will be provided by WLD Division.

Comment:

Expect the treatment boundary to decrease in acreage as there are some open areas in the middle of the stand that will likely be excluded.

Proposed Start Date: 10/1 /2018



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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
5 53054005-Cut	16.1	4110 - Sugar Maple Association	Sawtimber Medium	99	1-50	Harvest	Shelterwood with Retention	411 - Northern Hardwood	Two-Aged	Draft Field Boundary

**Habitat Cut: No**

**Site Condition:**

Prescription Shelterwood. Leave 30-40 BA of the best quality basswood and sugar maple sawlog trees. If present, do not cut any birch or oak. Cut all beech except leave large diameter trees with a lot of rot as well any resistant trees. Mark some poor-quality maple and beech as cut and leave trees to increase the amount of coarse woody debris and to help shelter regeneration from deer and elk browse. Add 2" spec to get all the beech and ironwood regeneration knocked down. No chipping and require all tops to be spread evenly with the hopes it will alleviate some of the browse pressure. Add a small retention pocket or two around areas of better quality and stocking.

Next Step Planting, Underplant; Monitoring, Natural Regen (Intermediate)  
Treatments:

Acceptable Regen: Regeneration that meets hardwood stocking guidelines. A greater than 50% representation of ash, beech, and ironwood (singly or in combination) will be considered a failure. Also, browse that results in less than a fully-stocked stand will also be considered a failure.

Other Comment: Exclude any sale activities during the elk hunting seasons, dates of which will be provided by WLD Division.

Following harvest, plant a mixture of red oak, white oak, and white pine. Target 5-10 oak saplings per acre which will need to be protected with fencing. White pine can be seedlings and planted at a similar rate as the oak but will not need the fencing protection. This will be a good project for a volunteer group.

Utilize the G type to the east for decking but only the area that is not a maintained food plot.

No cutting during bark slip time period.

Proposed Start Date: 10/1 /2018

7 53054007-Cut	19.2	4110 - Sugar Maple Association	Sawtimber Well	87	111-140	Harvest	Crown Thinning	411 - Northern Hardwood	Uneven-Aged	Draft Field Boundary
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**Habitat Cut: No**

**Site Condition:**

Prescription TSI/crown thin to 80-90 square feet. Focus on thinning from the poletimber and small sawlog size classes. Cut all beech except leave large diameter wildlife trees as well as any without scale. Cut all white ash and ironwood over 2" DBH.

Next Step  
Treatments:

Acceptable Regen:

Other Comment: Exclude any sale activities during the elk hunting seasons, dates of which will be provided by WLD Division.

Deck wood in the adjacent G types, but only those areas that are not maintained as a food plot.

Proposed Start Date: 10/1 /2018

11 53054011-Other	34.9	310 - Herbaceous Openland	Nonstocked	Unspecified	Other	Other	Other	310 - Herbaceous Openland		Field Boundary
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**Habitat Cut: No**

**Site Condition: Conservation Values**

Prescription Treat wild parsnip with herbicide. Treatment is being done in conjunction with Huron Pines and is associated with FTP #W53-459.

Next Step  
Treatments:

Acceptable Regen:

Other Comment:

Proposed Start Date: 4 /4 /2018



S t a n d	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
19	53054019-NF	4.3	2113 - Forage Crops	Nonstocked			Unspec ified	NonForestMgt	Other - Specify	310 - Herbaceous Openland	Draft Field Boundary

**Habitat Cut: No**

**Site Condition:**

Prescription Brush, mow, plant, burn and/or herbicide to maintain opening. Planting of hard and soft mast.

Specs:

Next Step

Treatments:

Acceptable

Regen:

Other

Comment:

Proposed Start Date: 10/1 /2019

21	53054021-NF	2.7	2113 - Forage Crops	Nonstocked			Unspec ified	NonForestMgt	Other - Specify	310 - Herbaceous Openland	Draft Field Boundary
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**Habitat Cut: No**

**Site Condition:**

Prescription Brush, mow, plant, burn and/or herbicide to maintain opening. Planting of hard and soft mast.

Specs:

Next Step

Treatments:

Acceptable

Regen:

Other

Comment:

Proposed Start Date: 10/1 /2019

23	53054023-NF	8.6	2113 - Forage Crops	Nonstocked			Unspec ified	NonForestMgt	Other - Specify	310 - Herbaceous Openland	Draft Field Boundary
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**Habitat Cut: No**

**Site Condition:**

Prescription Brush, mow, plant, burn and/or herbicide to maintain opening. Planting of hard and soft mast.

Specs:

Next Step

Treatments:

Acceptable

Regen:

Other

Comment:

Proposed Start Date: 10/1 /2019

25	53054025- Burn	178.3	320 - Upland Shrub	Nonstocked			Unspec ified	Burn	Opening	310 - Herbaceous Openland	Field Boundary
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**Habitat Cut: No**

**Site Condition:**

Prescription Green Timbers Rx Burn Project Area. This unit was last burned in spring of 2018.

Specs:

Next Step

Monitoring, Prescribed Burn

Treatments:

Acceptable

Regen:

Other

Comment:

Proposed Start Date: 10/1 /2021



S t a n d	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
34	53054034-Cut	8.8	4130 - Aspen	Poletimber Well	59	51-80	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	Draft Field Boundary

**Habitat Cut: No****Site Condition:**

Prescription Clearcut all species except for any incidental white pine, oak, elm, or basswood. Mark 1-2 cull aspen per acre as cut and leave trees to serve as  
Specs: drumming logs. Retention will be the small pocket dominated by spruce on the west edge of the stand.

Next Step Monitoring, Natural Regen (Intermediate)  
Treatments:

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

Other Exclude any sale activities during the elk hunting seasons, dates of which will be provided by WLD Division.  
Comment:

- Winter only harvest to prevent damage to wet soils. Roundwood job only to retain slash on the site to protect wet soils.
- Add decontamination spec due to the prevalence of wild parsnip in adjacent stands.

Proposed Start Date: 10/1 /2018

38	53054038- Burn	254.6	4119 - Mixed Northern Hardwoods	Sawtimber Poor	108	1-50	Burn	Opening	320 - Upland Shrub		Draft Field Boundary
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**Habitat Cut: No****Site Condition: Too Steep**

Prescription Green Timbers Rx Burn Project Area - North Unit. Burn to maintain the open nature of G and U stands. Any equipment that travels the line along  
Specs: stand 40 must decontaminate following the burn due to the wild parsnip in that area. Unit last burned in spring of 2017.

Next Step Monitoring, Natural Regen (Intermediate)  
Treatments:

Acceptable  
Regen:

Other  
Comment:

Proposed Start Date: 10/1 /2020

42	53054042-Cut	2.2	4130 - Aspen	Sawtimber Medium	54	51-80	Harvest	Clearcut	413 - Aspen	Even-Aged	Draft Field Boundary
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**Habitat Cut: No****Site Condition:**

Prescription Clearcut all species except for any incidental white pine, basswood, or spruce. Cut all cherry except leave any that are over 4 inches DBH. No  
Specs: area retention due to the small size of the stand. There may be a small amount of advanced oak regeneration, ensure that it is protected.

Next Step Monitoring, Natural Regen (Intermediate)  
Treatments:

Acceptable A fully-stocked stand that meets aspen stocking guidelines.  
Regen:

Other Exclude any sale activities during the elk hunting seasons, dates of which will be provided by WLD Division.  
Comment:

Group with stand 48 to the east and utilize the same seasonal restrictions and decontamination specs.

Proposed Start Date: 10/1 /2018

46	53054046-Cut	4.9	42110 - Planted Red Pine	Poletimber Well	59	81-110	Harvest	Seed Tree	4319 - Mixed Upland Forest	Even-Aged	Draft Field Boundary
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**Habitat Cut: No****Site Condition:**

Prescription Leave scattered clumps of red pine spaced about a chain apart. Focus on leaving trees that have good form and no porcupine damage. There  
Specs: may be a very small amount of oak and white pine in the stand, do not cut these two species. No area retention.

Next Step Monitoring, Natural Regen (Intermediate)  
Treatments:

Acceptable Any mix of species is acceptable except for any combination which results in a more than 50% representation of beech and ironwood, which will  
Regen: be deemed unacceptable. Leave the option open for underplanting if the regen survey indicates a failure.

Other Exclude any sale activities during the elk hunting seasons, dates of which will be provided by WLD Division.  
Comment:

Group this stand in a sale with adjacent stands 42 and 48, and utilize the same seasonal restrictions and decontamination specs.

Proposed Start Date: 10/1 /2018



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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
48 53054048-Cut	21.7	4130 - Aspen	Poletimber Well	62	51-80	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	Draft Field Boundary

**Habitat Cut: No**

**Site Condition:**

Prescription Clearcut all species except for any incidental white pine, elm, or spruce. Cut all cherry under 4 inches DBH, leave the rest for mast production.

Specs: Exclude the two fingers that extend east towards the river as retention. Mark 1-2 poor quality aspen per acre as cut and leave trees to serve as drumming logs.

Next Step Monitoring, Natural Regen (Intermediate)

Treatments:

Acceptable Regen: Fully-stocked stand that meets aspen stocking guidelines.

Other Comment: Exclude any sale activities during the elk hunting seasons, dates of which will be provided by WLD Division.

- Winter only harvest to prevent damage to wet soils. Roundwood job only to retain slash on the site to protect wet soils.
- Add decontamination spec due to the prevalence of wild parsnip in adjacent stands.

Proposed Start Date: 10/1 /2018

54 53054054-Cut	12.2	42290 - Natural Mixed Pine	Poletimber Well	77	81-110	Harvest	Seed Tree with Retention	429 - Mixed Upland Conifers	Two-Aged	Draft Field Boundary
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**Habitat Cut: No**

**Site Condition:**

Prescription Mark scattered leave trees of red, white, and jack pine of the best quality. Leave trees should be both in clumps and as individual trees to break

Specs: up the homogenous look. Target ba/acre of 10-20 square feet. Leave all relict red and white pine over 18" DBH. Mark to leave a few clumps of better white pine poletimber/saplings as well. Use retention to exclude the two dense pockets of pine.

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

Treatments:

Acceptable Regen: Fully-stocked stand meeting mixed conifer guidelines. If stand falls below standards after burning, then accept as is and manage this stand with the surrounding ones (#s 75, 77, 93) as part of a larger pine barrens community.

Other Comment: Roundwood harvest and no chipping. Add 2" spec to remove all regeneration but ensure oak saplings are protected.

Burn after harvest using WLD funding.

Proposed Start Date: 10/1 /2019

57 53054057-17-New	8.5	42290 - Natural Mixed Pine	Sawtimber Medium	67	51-80	Harvest	Seed Tree	429 - Mixed Upland Conifers	Two-Aged	Draft Field Boundary
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**Habitat Cut: No**

**Site Condition:**

Prescription Leave 10-20 ba/acre of red pine, white pine, and oak. Focus on leaving the large diameter, best quality trees. Mark to leave a few clumps of the

Specs: better poletimber as well. Although rare, protect any advanced red oak regeneration that may be present (poletimber included). Mark some of the rotten aspen as cut and leave trees for coarse woody debris.

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Regen: Fully-stocked stand with a mix of red, white, and jack pine being acceptable. Expect red maple, aspen, and potentially oak to make up the remainder of the regeneration.

Other Comment: Add specs that require whole-tree skidding in snow-free conditions to encourage ground scarification.

Proposed Start Date: 10/1 /2019

75 53054075-Cut	14.1	42220 - Natural Jack Pine	Poletimber Medium	63	1-50	Harvest	Clearcut	4222 - Natural Jack Pine	Even-Aged	Draft Field Boundary
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**Habitat Cut: No**

**Site Condition:**

Prescription Clearcut with no area retention. Leave scattered clumps of jack pine with varying amounts of trees, spaced at least 100 feet apart. Leave all red

Specs: pine and any merchantable black cherry. Roundwood harvest, no chipping, and add 2" spec to get all of the understory knocked down. Protect all oak regeneration and all snags.

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

Treatments:

Acceptable Regen: Regeneration that meets jack pine standards. If the follow-up burn does not result in acceptable stocking then accept as is and manage for a barrens type community on a ten year burn rotation.

Other Comment: Burn after harvest using WLD funding.

Proposed Start Date: 10/1 /2019





Stand	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
77	53054077-Cut	15.2	42220 - Natural Jack Pine	Poletimber Medium	59	51-80	Harvest	Clearcut	4222 - Natural Jack Pine	Even-Aged	Draft Field Boundary

**Habitat Cut: No**

**Site Condition:**

Prescription Clearcut. No area retention but leave scattered clumps with varying amounts of trees to serve as a seed source. Space the clumps about 100 feet apart. Leave all red pine over 18" DBH. If present, do not cut any oak or merchantable cherry. Protect oak saplings. Roundwood job, no chipping, and add 2" spec to get the all of the understory knocked down. Protect all snags.

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

Acceptable Regen: Regeneration that meets jack pine standards. If the follow-up burn does not result in acceptable stocking then accept as is and manage for a barrens type community on a ten year burn rotation.

Other Comment: Burn after harvest using WLD funding.

Proposed Start Date: 10/1 /2019

79	53054079-Burn	8.7	320 - Upland Shrub	Nonstocked		Unspec ified	Burn	Opening	320 - Upland Shrub		Draft Field Boundary
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**Habitat Cut: No**

**Site Condition:**

Prescription Burn to set back encroaching vegetation and in conjunction with adjacent stands to the south as part of a larger burn unit. The burn will not take place until after the stands to the south have been cut (stand #'s 75 and 77). Whether or not this stand is burned again is dependent on regeneration of the jack pine stands to the south (#'s 75 and 77). If they regenerate successfully following the burn then this will be a one time burn. If regeneration fails then this stand will be managed as part of a larger barrens community with the stands to the south and on a ten year burn rotation.

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

Acceptable Regen:

Other Comment:

Proposed Start Date: 10/1 /2021

93	53054093-Cut	5.2	320 - Upland Shrub	Nonstocked	0	Unspec ified	Harvest	Clearcut	320 - Upland Shrub		Draft Field Boundary
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**Habitat Cut: No**

**Site Condition:**

Prescription Clearcut to set back encroaching vegetation and maintain this as a U type. If present, leave any oak or red pine. Leave cherry over 5" DBH.

Specs: Roundwood job and no chipping. Add 2" spec to get all regeneration knocked down except for oak saplings.

Next Step Burn, Opening  
Treatments:

Acceptable Regen: Non-forested U type condition is expected and acceptable.

Other Comment: Burn after harvest.

Proposed Start Date: 10/1 /2019

97	53054097-NF	32.6	2113 - Forage Crops	Nonstocked			NonForestMgt	Other - Specify	310 - Herbaceous Openland		Draft Field Boundary
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**Habitat Cut: No**

**Site Condition:**

Prescription Brush, mow, plant, burn and/or herbicide to maintain opening. Planting of hard and soft mast.

Specs:

Next Step  
Treatments:

Acceptable Regen:

Other Comment:

Proposed Start Date: 10/1 /2019



S t a n d	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
98	53054098-NF	4.1	310 - Herbaceous Openland	Nonstocked		Unspec ified	NonForestMgt	Other - Specify	310 - Herbaceous Openland		Draft Field Boundary

**Habitat Cut: No**

**Site Condition:**

Prescription Brush, mow, plant, burn and/or herbicide to maintain opening. Planting of hard and soft mast.

Specs:

Next Step

Treatments:

Acceptable

Regen:

Other

Comment:

Proposed Start Date: 10/1 /2019

100	53054100-NF	14.3	2113 - Forage Crops	Nonstocked			NonForestMgt	Other - Specify	310 - Herbaceous Openland		Draft Field Boundary
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**Habitat Cut: No**

**Site Condition:**

Prescription Brush, mow, plant, burn and/or herbicide to maintain opening. Planting of hard and soft mast.

Specs:

Next Step

Treatments:

Acceptable

Regen:

Other

Comment:

Proposed Start Date: 10/1 /2019

113	53054113-NF	5.8	320 - Upland Shrub	Nonstocked		Unspec ified	NonForestMgt	Other - Specify	310 - Herbaceous Openland		Draft Field Boundary
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**Habitat Cut: No**

**Site Condition:**

Prescription Brush, mow, plant, burn and/or herbicide to maintain opening. Planting of hard and soft mast.

Specs:

Next Step

Treatments:

Acceptable

Regen:

Other

Comment:

Proposed Start Date: 10/1 /2019

116	53054116-NF	15.1	310 - Herbaceous Openland	Nonstocked		Unspec ified	NonForestMgt	Other - Specify	310 - Herbaceous Openland		Draft Field Boundary
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**Habitat Cut: No**

**Site Condition:**

Prescription Brush, mow, plant, burn and/or herbicide to maintain opening. Planting of hard and soft mast.

Specs:

Next Step

Treatments:

Acceptable

Regen:

Other

Comment:

Proposed Start Date: 10/1 /2019



S t a n d	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
117	53054117-NF	6.3	310 - Herbaceous Openland	Nonstocked	104	1-50	NonForestMgt	Other - Specify	310 - Herbaceous Openland		Draft Field Boundary

**Habitat Cut: No**

**Site Condition:**

Prescription Brush, mow, plant, burn and/or herbicide to maintain opening. Planting of hard and soft mast.

Specs:

Next Step

Treatments:

Acceptable

Regen:

Other

Comment:

Proposed Start Date: 10/1 /2019

120	53054120-18- New	9.1	42220 - Natural Jack Pine	Poletimber Medium	49	51-80	Harvest	Clearcut	4222 - Natural Jack Pine	Even-Aged	Draft Field Boundary
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**Habitat Cut: No**

**Site Condition:**

Prescription Clearcut with no area retention due to the small size of the stand. Leave any white pine over 18" DBH and any sawlog-size red pine. If present,

Specs: leave any oak. Mark a couple of the larger jack pine (1-3/acre) to serve as a seed source.

Next Step

Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable

Regeneration dominated by jack pine with red and white pine expected as well. A non-forested stand will be accepted here as well if natural

Regen: seeding is not satisfactory.

Other

Comment:

Proposed Start Date: 10/1 /2019

121	53054121-NF	13.7	2113 - Forage Crops	Nonstocked			Unspec ified	NonForestMgt	Other - Specify	310 - Herbaceous Openland	Draft Field Boundary
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**Habitat Cut: No**

**Site Condition:**

Prescription Brush, mow, plant, burn and/or herbicide to maintain opening. Planting of hard and soft mast.

Specs:

Next Step

Treatments:

Acceptable

Regen:

Other

Comment:

Proposed Start Date: 10/1 /2019

123	53054123-NF	20.4	310 - Herbaceous Openland	Nonstocked			Unspec ified	NonForestMgt	Other - Specify	310 - Herbaceous Openland	Draft Field Boundary
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**Habitat Cut: No**

**Site Condition:**

Prescription Brush, mow, plant, burn and/or herbicide to maintain opening. Planting of hard and soft mast.

Specs:

Next Step

Treatments:

Acceptable

Regen:

Other

Comment:

Proposed Start Date: 10/1 /2019



S t a n d	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
124	53054124-NF	21.1	2113 - Forage Crops	Nonstocked		Unspec ified	NonForestMgt	Other - Specify	310 - Herbaceous Openland		Draft Field Boundary

**Habitat Cut: No**

**Site Condition:**

Prescription Brush, mow, plant, burn and/or herbicide to maintain opening. Planting of hard and soft mast.

Specs:

Next Step

Treatments:

Acceptable

Regen:

Other

Comment:

Proposed Start Date: 10/1 /2019

125	53054125-NF	6.2	2113 - Forage Crops	Nonstocked		Unspec ified	NonForestMgt	Other - Specify	310 - Herbaceous Openland		Draft Field Boundary
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**Habitat Cut: No**

**Site Condition:**

Prescription Brush, mow, plant, burn and/or herbicide to maintain opening. Planting of hard and soft mast.

Specs:

Next Step

Treatments:

Acceptable

Regen:

Other

Comment:

Proposed Start Date: 10/1 /2019

**Total Treatment  
Acreage Proposed: 814.3**

## Report 4 – Site Conditions

Pigeon River Country Mgt. Unit  
Greg Rekowski : Examiner

Compartment: 54  
Year of Entry: 2020

### Availability for Management

Total Acres	Acres Available	Acres Avail		Dominant Site Conditions	Dominant Site Conditions					
		With Condition	Not Available		5B	5C	2F	3A	5A	5E
204	163	0	42	Aspen			3	36		3
7	0	0	7	Cedar				7		
103	103	0	0	Cropland						
173	138	0	35	Herbaceous Openland				35		
62	62	0	0	Jack Pine						
35	0	0	35	Lowland Aspen/Balsam Poplar				35		
20	0	0	20	Lowland Conifers				20		
17	0	0	17	Lowland Deciduous				17		
13	6	0	7	Lowland Shrub				7		
2	2	0	0	Marsh						
65	8	55	2	Mixed Upland Deciduous	47	9			2	
40	38	0	1	Natural Mixed Pines						1
868	818	0	50	Northern Hardwood			21	29		
125	21	68	35	Oak		68		35		
24	20	0	4	Red Pine				4		
15	0	15	0	Upland Mixed Forest		15				
220	203	0	17	Upland Shrub				17		
15	13	0	3	White Pine				3		
2,008	1,594	139	275	Total Forested Acres	47	92	23	245	2	5
	79%	7%	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 Availability	Dominant Site Condition	Acres	Other Site Condition	Other Site Condition	Other Site Condition	Other Site Condition
1	Unavailable	5E: Long-Term Retention	2	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
2	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							

## Report 4 – Site Conditions

Pigeon River Country Mgt. Unit

Compartment: 54

Greg Rekowski : Examiner

Year of Entry: 2020

3	<b>Unavailable</b>	<b>3A: Conservation Values incompatible with harvest at this time</b>	244	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> These stands are part of the Sturgeon River Valley SCA and will not be managed commercially.							
4	<b>Unavailable</b>	<b>5E: Long-Term Retention</b>	1	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
5	<b>Available</b>	<b>5B: Maintain for regeneration purposes</b>	34	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Manage when the second age class of aspen matures.							
6	<b>Available</b>	<b>5B: Maintain for regeneration purposes</b>	12	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Mixed species stand that is only 36 years old. Manage when it matures.							
7	<b>Available</b>	<b>5C: Delay treatment for age/size class diversity or exceptional site quality</b>	9	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Manage for pine/oak and thin when the adjacent white pine stand to the east is next thinned (stand 118).							
8	<b>Unavailable</b>	<b>5E: Long-Term Retention</b>	0	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
9	<b>Unavailable</b>	<b>5E: Long-Term Retention</b>	1	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							

## Report 4 – Site Conditions

Pigeon River Country Mgt. Unit  
Greg Rekowski : Examiner

Compartment: 54  
Year of Entry: 2020

10	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	29	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
11	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	15	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
12	Unavailable	5A: Not able to obtain desirable regeneration	2	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Small, poorly-stocked stand that doesn't make sense to manage and would be subject to very heavy browse on it's own.							
13	Unavailable	2F: Too steep	3	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Small isolated stand that sits on relatively steep slopes. Would be subject to heavy browse as well due to it's isolated nature.							
14	Unavailable	2F: Too steep	16	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
15	Unavailable	2F: Too steep	5	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							

## Report 4 – Site Conditions

Pigeon River Country Mgt. Unit

Greg Rekowski : Examiner

Compartment: 54

Year of Entry: 2020

16	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	40	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Proposed treatment rejected in 2020 YOE over browse concerns.							



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



**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	Dedicated Management Areas	Such areas are dedicated by the DNR Director for specific management uses through the promulgation of rules, as governed by Part 5, Department of Natural Resources, of the NREPA (MCL 324.502(2) and 324.504). Section 38 of the Administrative Procedures Act (MCL 24.238) provides for public requests for the promulgation of rules. This is an active program, with one proposed site currently under review by the DNR.
HCVA	Natural Rivers	There are two Natural Rivers datasets which are derived from spatial buffers set from an established and approved distance from the river centerlines. The Natural Rivers Zoning District is a 400 foot buffer for most Natural Rivers. The Vegetative Buffer ranges from 25 to 100 feet. To view specific Zoning Districts and Vegetative Buffers for each Natural River see the table located on the I:\Documentation\GDSE data folder.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
1	4110 - Sugar Maple Association	Poletimber Well	9.4	92	111-140	Moderate quality hardwood stand, in need of a TSI. Last record for a harvest was an elm salvage cut by Gary Haskill from 1983-85. Most of the beech has BBD. Side slope on the east edge. Average ba/acre from 7 plots = 112 square feet. Small parking lot in the north half.
2	4111 - S.Maple, Hard Mast Association	Sawtimber Medium	24.9	92	51-80	Moderate to poor quality hardwood stand with erratic stocking which is likely a result of a heavy partial harvest while under private ownership. Areas that were opened up after the harvest filled in exclusively with beech and ironwood. Residual maple quality is not too great although there are some nicer large diameter trees here and there. Beech is a heavy component and many are showing signs of BBD, although there are some without scale. Many large diameter beech have a lot of cull and are good wildlife trees. Ash was only a small component and it is now all dead. Trace of red maple and quaking aspen. Rolling terrain with a few short, steep slopes but nothing that is inoperable. Average ba/acre from 11 plots = 80 square feet. At the current BA and with such a large amount of beech, this stand won't be able to be thinned again for a very long time. Try something a little more drastic in an attempt to get more diverse regeneration back.
3	4110 - Sugar Maple Association	Sawtimber Well	11.1	87	81-110	Two-aged hardwood stand that was heavily cut in 1980. Residual hardwoods, mostly maple, were left throughout, heavier concentrations of these are found in the west half. The east half had some large gaps that were created from the harvest and have filled in with ash, ironwood, and beech, and now look like an M6. Ash came back the best and is mostly in the poletimber size class. Difficult to tell without the leaves on, but a good deal of the ash appears to be alive. Average ba/acre from 7 plots = 96 square feet. A road cuts north through the middle of the stand. Some open areas along the sides as it was recently used as a landing for the sale that took place in stand 18.
4	4110 - Sugar Maple Association	Sawtimber Poor	8.0	104	51-80	Poor quality hardwood stand that alternates between patches of M9 and open-grown hardwoods with a grassy understory. Like other open-grown stands in this Compartment, this stand was likely grazed while under private ownership. Average ba/acre from 5 plots = 66 square feet.
5	4110 - Sugar Maple Association	Sawtimber Medium	16.1	99	1-50	Degraded hardwood stand that alternates between clumps of M8 and grassy openings. Last record for a harvest was an elm salvage cut by Gary Haskill from 1983-85. Old OI notes indicate this stand may have been grazed while under private ownership which may explain some of the non-forested openings. Some of the lower-stocked areas have filled in with quite a bit of beech and ironwood poletimber. The majority of beech has BBD. Trace of quaking aspen and red maple. Rolling terrain. Average ba/acre from 7 plots = 60 square feet.
6	4110 - Sugar Maple Association	Sawtimber Well	94.8	105	81-110	Nice hardwood stand with some big diameters. Last thinned in the winter of 2001 in the sale Cook's Orchard Block, #53-003-00-01, bought by Weyerhaeuser. Quality and BA's tend to decline in the western half of the stand. A few areas heavy to beech, almost all of which have BBD. Gently rolling terrain. Average ba/acre from 17 plots = 91 square feet. Probably another 20 years before this stand is ready for a thinning. Small open area on the west edge of the stand adjacent to Fontinalis Road that is a popular camping spot. A lot of elk traffic through the stand.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
7	4110 - Sugar Maple Association	Sawtimber Well	19.2	87	111-140	Nice stand of hardwoods that is heavy to sugar maple and hasn't been thinned in a while. Last record for a harvest was an elm salvage cut by Gary Haskill from 1983-85. Stocking is somewhat variable as a result of that harvest with a few areas of lower stocking mixed in. Some larger diameter trees are present throughout. Many of the larger beech have lots of rot and are good wildlife trees. Some younger ash appears to be hanging on. Relatively flat terrain. Average ba/acre from 9 plots = 124 square feet.
8	4119 - Mixed Northern Hardwoods	Poletimber Well	5.0	38	81-110	Young hardwood stand that was cut in 1980 while under private ownership. Only a few larger residual beech and sugar maple were left. Good looking stand if only the species mix wasn't so undesirable. It appears that a good amount of the ash is still hanging on despite some signs of EAB in the stand. A couple scattered clones of aspen are present. Average ba/acre from 6 plots = 90 square feet. A small open area is at the south end, likely a landing at one point. There is also an old road that makes a big loop in the stand.
9	4119 - Mixed Northern Hardwoods	Poletimber Well	6.0	38	51-80	Stand was heavily cut over in 1980 while under private ownership. A scattered residual of large beech and various sizes of sugar maple was left. Regeneration has been primarily white ash and ironwood. A lot of the ironwood is still sub-merchantable but will increase in frequency in the canopy as it grows. Difficult to tell how much of the ash is still alive but it appears that a decent amount is still hanging on. Average ba/acre from 6 plots = 70 square feet.
10	4110 - Sugar Maple Association	Sawtimber Well	14.3	97	81-110	Moderate quality hardwood stand. Old notes indicate it had a heavy partial harvest in 1980 while under private ownership. This is most noticeable in the south half of the stand where BA's are lower and residual trees tend to be more widely spaced. Quality and basal area increase in the north half with some nice sugar maple present. Average ba/acre from 9 plots = 97 square feet. There is a small non-forested opening in the middle of the stand.
12	4110 - Sugar Maple Association	Sawtimber Well	12.2	104	51-80	Overall a relatively low quality hardwood stand despite there being some large diameter trees. Northern 1/3rd of the stand has lower stocking and more open grown trees. BA's increase in the remainder. Average ba/acre from 7 plots = 66 square feet. Stand was likely heavily grazed at one point like similar stands across the Compartment. Evidence of high elk use.
13	4110 - Sugar Maple Association	Sawtimber Well	11.7	106	111-140	Pretty nice stand of hardwoods with some big diameters present. Stand continues south into the adjacent Compartment. Most beech have BBD. Average ba/acre from 3 plots = 133 square feet.
14	4110 - Sugar Maple Association	Sawtimber Medium	11.7	104	51-80	Stand of large diameter, open-grown hardwoods. This stand was likely grazed in the past but unlike similar stands in the Compartment, the understory here has mostly filled in, with the exception of the west end. Some areas of heavy browse, mostly in the west end, but there is also some nice hardwood regen at the far east end, including some good patches of sugar maple saplings. Trace of white pine. Average ba/acre from 7 plots = 79 square feet.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
15	4199 - Other Mixed Upland Deciduous	Sapling Medium	1.6	22	Immature	This is an experimental English Oak and American Chestnut plantation. Note that there is no species category for English Oak in MiFI so I used Shingle Oak. Many of the English Oak are being damaged by sapsuckers. Did not see much chestnut at all. Area no longer has a fence around it as the saplings are large enough to escape serious browse damage.
16	4110 - Sugar Maple Association	Sawtimber Poor	55.7	104	51-80	Degraded hardwood stand with large diameter, open-grown trees. Stocking is patchy with many non-forested areas mixed in throughout. An east-west running road splits this stand down the middle. All of the understory south of the road was recently sheared in order to maintain the open character of the stand. Regeneration is only about a foot tall at this point and is mostly ironwood and beech. North of the road was not sheared. Trace of red pine, balsam fir, white spruce, and bigtooth aspen. Average ba/acre from 9 plots = 60 square feet. Rolling terrain with some large hills. All of this stand is burned periodically as part of the Green Timbers prescribed burns.
17	4110 - Sugar Maple Association	Sawtimber Well	30.2	87	81-110	Moderate quality hardwood stand with variable stocking. Several areas of lower BA's and open grown trees. Best quality and stocking is in the northeast corner. Most beech has BBD. Trace of bigtooth aspen, red maple, and white spruce. Average ba/acre from 8 plots = 96 square feet. Most of the stand slopes down to the east in a series of small ridges and valleys.
18	4110 - Sugar Maple Association	Sawtimber Well	180.4	108	81-110	High quality hardwood stand. Last thinned in the winter of 2012-13 and fall of 2013 in the sale Heavy Snow Hardwoods, #53-014-10-01, bought by AJD, Haskill cut it. Some damage at the north end as there was a new operator cutting this part, this was quickly resolved and wasn't an issue for the rest of the sale. All ash was salvaged from the sale, most of which was in the northern half, and as a result BA's are quite low in areas. Regeneration up to this point is primarily undesirable species although sugar maple seedlings were noted in a few places. Raspberry is thick in some spots. Most overstory beech have BBD. Some autumn olive encroachment in the areas of the stand adjacent to openings. Trace of American elm. Gently rolling terrain. Average ba/acre from 17 plots = 81 square feet.
20	4110 - Sugar Maple Association	Sawtimber Well	3.8	105	81-110	Stand looks like it had a partial harvest at one point as lower stocked areas have quite a bit of younger ironwood which is just reaching merchantability. Used to be a decent amount of ash but it is now all dead. Average ba/acre from 5 plots = 82 square feet.
22	4110 - Sugar Maple Association	Poletimber Well	87.4	85	51-80	Variable stocking, especially in the southern half where there are areas that look like they may have been harvested long ago. Quality and stocking increase in the northern half of the stand as well as the closer you get to the eastern stand line. Rolling terrain with some steeper slopes at the far south end. Trace of elm and paper birch. BBD on most of the beech, however I noticed a few without any scale. Looks like most of the overstory ash are dead but there may be a few hanging on. Average ba/acre from 18 plots = 75 square feet. Autumn olive found near openings and road edges, starting to encroach in spots.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
24	4110 - Sugar Maple Association	Sawtimber Well	81.7	78	51-80	Stand cut in 2002-03 in the sale Elk Wallow Hardwoods, #53-004-00-01, bought by Weyerhaeuser. Residual stand is dominated by sugar maple and is very high quality. Overstory diversity is limited as all of the ash are dead and most of the beech have BBD. Appears to be a second age class of larger and older hardwoods but these are not very common. Regeneration is pure ironwood, beech, and white ash, did not notice any other species. A clear browse line is evident on the regeneration and has limited much of it to heights of 3-5 feet. This seems to decrease somewhat the further north you go in the stand as more of the beech and ironwood are over 5 feet tall. Average ba/acre from 16 points equals 79 square feet. Trace of American elm.
26	4139 - Aspen, Mixed Deciduous	Sawtimber Medium	13.1	98	1-50	Poor quality stand with open grassy areas mixed in throughout. Scattered aspen clones which appear to be several different age classes, likely a result of seeding in over the years. Clumps of large diameter hardwoods mixed in as well. Undulating terrain with some steep slopes, more so on the north edge. Trace of basswood. Average ba/acre from 5 plots = 46 square feet. Isolated stand for management would be subject to very heavy elk browse. Leave as part of the Sturgeon River Valley SCA.
28	4119 - Mixed Northern Hardwoods	Poletimber Well	29.2	97	81-110	Hardwood stand that is dominated by maple. Mediocre quality. Somewhat sporadic stocking, especially along the edges. Best stocking is in the interior portion of the stand. Far SE corner has a clump of white pine poletimber adjacent to the U stand and a little further east of there is where most of the aspen is located. Rolling terrain with some steep slopes, especially along the northern and eastern sides. Average ba/acre from 7 plots = 87 square feet.  Old notes indicate a wildfire passed through the southeast portion of the stand on May 26, 1997. The plow lines can still be seen. No negative impacts noticed on the overstory trees.
30	42201 - Natural White Pine, Mixed Deciduous	Poletimber Well	2.7	55	51-80	A few areas of dense stocking, others more open. Spruce mostly at the far NE end and eastern edge. An old road runs N-S through the middle. Flat. Average ba/acre from 4 plots = 80 square feet.
31	413 - Aspen	Poletimber Poor	1.7	84	1-50	Stand is bounded by the Sturgeon River on the east and Club Stream on the west. Did not access this stand as I did not have waiters at time of inventory.
32	6129 - Mixed Coniferous Lowland Forest	Sawtimber Well	10.5	145	111-140	Nice stand of swamp conifers, the majority of which borders the Sturgeon River and Club Stream. Did not access all parts of the stand due to the water barriers. The east side is dominated by spruce. I did notice some mortality at the far NE end, maybe spruce budworm? Trace of red oak along the eastern upland transition. Cedar is more abundant on the west side and mostly growing right along the banks of the two rivers. Some very large cedar are present, most appear healthy. Not as much spruce on the west side. Trace of yellow birch. Heavy browse on the black ash understory. Average ba/acre from 8 plots = 121 square feet.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
33	6112 - Lowland Aspen	Sawtimber Poor	21.4	57	1-50	Sparse stand of lowland aspen bordering the Sturgeon River. There almost appears to be two age classes of aspen as there are some larger trees which look older. Elm is common throughout with most of them appearing healthy at this time. There are a few small areas of almost pure elm and cherry which is somewhat unique. Some of the cherry has merchantable form so I included it in the canopy coverage but most of it will likely remain shrub quality. Trace of white pine, red maple, and cedar in the overstory. Average ba/acre from 10 plots = 40 square feet. Stand is part of the Sturgeon River Valley SCA and will not be managed.
34	4130 - Aspen	Poletimber Well	9.3	59	51-80	Moderate quality aspen stand with very little overstory diversity. Likely seasonally wet in places, especially further south as the black ash understory picks up there. Scattered areas of lower stocking. The conifer component is mostly along the west edge with a small bubble of almost pure spruce. Trace of basswood and fir. Average ba/acre from 8 plots = 80 square feet.
36	42110 - Planted Red Pine	Sawtimber Medium	7.1	59	81-110	Limby, somewhat open grown red pine. Quite a few multi-stemmed trees. Trace of red oak, sugar maple, and basswood sawlog trees. Average ba/acre from 5 plots = 82 square feet. Quite a few red pine have seeded into the more open areas of the stand.
37	4110 - Sugar Maple Association	Sawtimber Well	15.9	108	81-110	There are some nice quality stems in the interior of the stand. Sporadic stocking along the edges with larger diameter trees. Steep slopes throughout. Thick understory of ironwood in most spots. The northeast side of the stand slopes down to the northeast and may have some seasonally wet ground as there are signs of old tip up mounds. Average ba/acre from 6 plots = 85 square feet. Management options will be limited due to the steep slopes. This stand is also burned periodically as part of the Green Timbers North Rx unit.
38	4119 - Mixed Northern Hardwoods	Sawtimber Poor	82.2	108	1-50	This stand is a part of the Green Timbers North Rx Burn Unit, most recently burned in spring of 2017. This stand is basically a mix of open grassy areas and hardwood clumps. The hardwoods are mostly poor-quality, multi-stemmed and open grown. Nearly every hardwood clump has a dense understory of ironwood. That and beech are the only two species I saw regenerating. There is a small component of two-aged aspen at the far south/southeast end. BBD on most beech. Trace of white pine. Rolling terrain with a few steep slopes. Average ba/acre from 14 plots = 36 square feet. With a past history of grazing, current overbrowsing by deer and elk, and now prescribed fire, this hardwood stand has been largely degraded. Interplanting white pine would be a good option to help rehabilitate the stand.
39	4139 - Aspen, Mixed Deciduous	Sawtimber Well	2.7	55	81-110	Mix of aspen and hardwoods, the aspen tends to be more around the edges. Aspen must have been cut out at some point while under private ownership. Stand sits on a steep knob. Trace of red pine, white pine, white spruce, and basswood. Average ba/acre from 4 plots = 89 square feet. Do not harvest due to browse pressure, small acreage, steep slopes. This stand is a part of the Green Timbers North Rx Burn.
41	42110 - Planted Red Pine	Sawtimber Well	4.2	59	81-110	Stand is pretty open-grown but it is a little better quality than the other similar stands to the north and south. Will likely be able to thin this at the next inventory cycle. This stand is occasionally burned as part of the Green Timbers North Rx Burn unit, except for a small sliver at the north end. Average ba/acre = 108 square feet.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
42	4130 - Aspen	Sawtimber Medium	2.2	54	51-80	Small stand of aspen with some open areas intermixed. Some overtopped red pine mostly along the eastern edge. Appears to be a little bit of wet ground near the north end, may be a seep coming down from the adjacent hardwoods to the west. Trace of basswood and white pine in the overstory. Average ba/acre from 4 plots = 73 square feet.
43	4110 - Sugar Maple Association	Sawtimber Well	7.3	88	81-110	Rolling terrain with some steep slopes, especially the southeast end. Stand is heavily dominated by sugar maple. Quality is not too bad but stocking is very sporadic. Heavy understorey of ironwood. Some larger diameter trees along the edges. Trace of white pine in the overstory. Average ba/acre from 4 plots = 93 square feet. No management needed for quite some time, 20 years at least. This stand is occasionally burned as part of the Green Timbers North Rx Burn unit.
45	4110 - Sugar Maple Association	Poletimber Well	17.8	79	81-110	Quality and stocking decline sharply in the southern half. The remainder of the stand is pretty nice quality with some areas of dense stocking in the central and eastern portions. Steep slopes throughout. The aspen component is mostly along a steep slope bordering the wetland on the northwest edge. Trace of red oak. Average ba/acre from 6 plots = 85 square feet. Could potentially thin in the future but it won't be needed for several entries, steep slopes will also reduce the amount of acreage that can be managed.
46	42110 - Planted Red Pine	Poletimber Well	4.9	59	81-110	Poor quality red pine stand that has been heavily damaged by porcupines. Many trees with only 1-2 merchantable sticks. A small patch of trees in the center is in decline, looks like it may be bark beetles as evidenced by exit holes on a few of the trees. Very undesirable understorey. Trace of red maple and white ash in the overstory. Average ba/acre from 5 plots = 108 square feet.
47	6112 - Lowland Aspen	Sawtimber Well	1.7	92	81-110	The majority of this stand has wetter ground, except for the far west end which transitions into upland. Pocket of cedar in the interior. Most of the QA is in the western half. Some small ash in the eastern end that is trying to hang on. No management. Average ba/acre from 3 plots = 93 square feet. Trace of American elm.
48	4130 - Aspen	Poletimber Well	27.2	62	51-80	Stand of almost pure aspen, species diversity is low. Some scattered open areas here and there. Some of the larger aspen is in decline. Ground seems to be a mix of upland and lowland as there are several wetter areas mixed in throughout, more so in the north half as well as the closer you get to the eastern stand boundary. Nice shrub component, although it is dominated by black cherry. Average ba/acre from 13 plots = 74 square feet. Trace of American elm, basswood, and balsam fir.
49	6120 - Lowland Cedar	Sawtimber Well	6.9	111	141-170	Stand sits on an upland/lowland transition with the eastern edge being mostly upland, the remainder is wet. Some large diameter cedar, white pine, and spruce are present. A couple of nice patches of paper birch regeneration. Black spruce is mostly confined to the far northern end of the stand. Quite a bit of blowdown. Average ba/acre from 6 plots = 143 square feet. Stand is a part of the Sturgeon River Valley SCA.
50	4133 - Aspen, Mixed Pine	Sawtimber Well	4.0	84	111-140	Stand sits on a relatively steep west-facing slope. Nice component of natural pine, including a few very large trees. Average ba/acre from 6 plots = 127 square feet. Stand is a part of the Sturgeon River Valley SCA and will not be managed.





	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
51	42210 - Natural Red Pine	Sawtimber Well	4.0	140	171-200	Nice stand of natural red pine sitting on a steep west-facing slope. Many of the red pine have old fire scars. Old trees, the age came from a 14" red pine. Average ba/acre from 4 plots = 180 square feet. This stand is part of the Sturgeon River Valley SCA and will not be managed.
53	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Medium	34.2	94	51-80	Stand cut in 1980 while under private ownership. Everything cut except for oak and pine. Residual oak quality is moderate, some big diameters are present. Stocking is quite variable as a result of the species removal. Aspen regenerated well in some areas, particularly the east and northeast sides, but is still quite small at this point with many unmerchantable stems. Aspen is absent from other parts of the stand, mostly where the oak residual is higher, with these areas having a red maple understory. Pockets heavy to pine are along the east side and northwest corner. Average ba/acre from 11 plots = 64 square feet. Let the aspen component mature before making a management decision.
54	42290 - Natural Mixed Pine	Poletimber Well	13.5	77	81-110	Mixed conifer stand with variable stocking as trees tend to be somewhat clumpy. Areas of lower stocking are scattered throughout. A couple small areas with dense white pine poletimber and red pine sawtimber, one in the middle of the stand and one at the southeast corner. A portion of the red pine is made up of large, old relict trees, most of which have fire scars. The last harvest in this stand was by Fred Bourdeau in 1981 as part of the sale Hole Pine Block, in which marked red, white, and jack pine were cut. Rolling terrain. Trace of bigtooth aspen and red maple at the far northern end. Average ba/acre from 7 plots = 100 square feet.
55	4130 - Aspen	Poletimber Well	5.4	36	111-140	Stand clearcut by Champion in 1981 as part of sale Death Valley West Block, all species cut. Stand regenerated well and is nearly pure aspen. The quaking aspen is just reaching merchantability but diameters on the bigtooth tend to vary quite a bit, with larger stems around the southern edges of the stand. Trace of red pine. Average ba/acre from 6 plots = 117 square feet. At the western end of the stand is a small parking lot that is used by recreational users for the Green Timbers area.
56	42220 - Natural Jack Pine	Poletimber Poor	6.9	37	1-50	Stand clearcut by Champion in 1981 as part of sale Death Valley West Block, all species cut. Stand did not regenerate well and mostly came back to poor quality, open-grown jack pine. Stocking is patchy as well and there are pockets of U mixed in throughout, especially the northern and western parts. Average ba/acre from 5 plots = 38 square feet.
57	42290 - Natural Mixed Pine	Sawtimber Medium	8.5	67	51-80	Somewhat variable stand with a mix of species and sizes. Stocking tends to be somewhat clumpy. Last harvest was in 1981 when marked red, white, and jack pine were cut by Fred Bourdeau as part of the sale Hole Pine Block. There are a few very large, relic red pine mixed in. A couple of very large white pine and oak as well. Red maple understory picks up along the western half. Small amount of younger red oak in-growth from the previous harvest. Average ba/acre from 11 plots = 72 square feet. Gently rolling terrain.
58	4130 - Aspen	Poletimber Well	17.3	36	111-140	Nice developing stand of nearly pure aspen. Stand clearcut by Champion in 1981 as part of sale Death Valley West Block, all species cut. Dominant species cut were oak, aspen, mixed hardwood, red pine, and white pine. Only a few small open areas that did not regenerate well. Some young red oak are present. Pine is mostly low quality. Gently rolling terrain. Average ba/acre from 9 plots = 116 square feet.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
59	4123 - Red Oak	Sawtimber Well	39.7	94	51-80	Moderate quality oak stand with a few very large diameter trees mixed in. Rolling terrain with a few steep slopes, mostly western aspect. Stand had everything except oak and pine cut out in 1980 while under private ownership. As a result the residual stocking is highly variable, ranging from O7 to some patches of O9. A few small patches of younger aspen are present in the more open areas. Red maple regeneration is abundant in some places but not all, with some areas of heavy browse. Advanced oak regeneration is non-existent. A small sliver of the southeastern corner of the stand burned in a wildfire on 04/26/1998 (see 1998DOQ imagery). Average ba/acre from 12 plots = 77 square feet.
60	4130 - Aspen	Sawtimber Well	7.4	89	141-170	Most of the stand occupies a steep side-slope. Central part of the stand has a pocket of red pine that appears planted. Average ba/acre from 6 plots = 143 square feet. Stand is part of the Sturgeon River Valley SCA and will not be managed.
61	6112 - Lowland Aspen	Sawtimber Poor	12.3	57	1-50	Sparse stand of lowland aspen bordering the Sturgeon River. There almost appears to be two age classes of aspen as there are some larger trees which look older. Stocking is best at the south end. Elm is common throughout although many of the larger ones are dead or in decline. There may be a few cherry stems that become merchantable here and there but most of it will likely remain shrub quality. Trace of white pine, balsam fir, and cedar in the overstory. Average ba/acre from 8 plots = 46 square feet. Stand is part of the Sturgeon River SCA and will not be managed.
65	4131 - Aspen, Oak	Sawtimber Well	9.4	89	111-140	Most of this stand sits on a steep west facing slope. The red oak tends to be located at higher slopes and more concentrated in the northern parts of the stand. Barren understory in many spots, others with a red maple understory that is heavily browsed. Average ba/acre from 5 plots = 112 square feet. No management, retain this stand as part of the Sturgeon River Valley SCA.
66	6124 - Lowland Spruce-Fir	Sawtimber Medium	9.1	65	51-80	Stand of pretty nice quality spruce although stocking is not great. Some scattered mortality on the spruce was evident, likely from budworm. Deciduous understory is abundant in places and ready to take over when the spruce dies. Aspen component is mostly at the north and south ends. Ground is not overly wet and parts of the eastern edge are upland. Average ba/acre from 6 plots = 58 square feet. Stand is part of the Sturgeon River Valley SCA and will not be managed.
67	4123 - Red Oak	Sawtimber Well	35.3	97	81-110	Nice stand of moderate to high quality oak. Undulating west-facing ridges and valleys throughout with some steep slopes. Barren understory throughout most of the stand, evidence of high deer use. The northeast quarter of the stand burned in a wildfire on 04/26/1998, none of the overstory oak seem to be impacted. No noticeable difference between burned and unburned area. Average ba/acre from 10 plots = 107 square feet. No management, leave as part of the Sturgeon River Valley SCA.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
68	4123 - Red Oak	Sawtimber Well	28.7	95	81-110	Nice stand of nearly pure oak with little overstory diversity as a result of a cut by Champion in 1981 in the sale Death Valley West Block. All species cut except oak. The northern 1/3 of the stand has the lowest quality, the remainder is quite nice. Rolling terrain with some east-facing slopes but nothing too steep. The west edge of the stand follows the top of the ridgeline. A wildfire burned the northern half of this stand on 04/26/1998 (see 98DOQ imagery). No effects noticed on the overstory. The red maple understory does seem to pick up as you move south and outside of the burn boundary. Trace of red pine and jack pine poletimber. Average ba/acre from 11 plots = 82 square feet.
69	4130 - Aspen	Poletimber Well	35.4	36	81-110	Stand clearcut by Champion in 1981 as part of sale Death Valley West Block, all species cut. Dominant species cut were oak, aspen, mixed hardwood, red pine, and white pine. Aspen has regenerated well, as well as a nice component of oak stump sprouts, which are more prevalent in the north half of the stand. Diameters tend to vary quite a bit. The south half of the stand burned in a wildfire on 04/26/1998 (see 98DOQ imagery) but other than a few open grassy areas it did not seem to negatively impact the aspen. Average ba/acre from 12 plots = 102 square feet. Diameters are still too small at this point but will likely be ready for a harvest in ten years. Retain the immature oak.
71	4130 - Aspen	Sapling Well	20.0	17	Immature	Stand was cut in 2001 by a handcrew, #53-011-00-01, Honey Locust Trail Blocks, bought by AJD. Aspen regenerated pretty well with only a few areas impacted by browse. The red maple is being hit hard by browse which is limiting most of it to the understory.
72	42220 - Natural Jack Pine	Poletimber Medium	16.6	37	1-50	Poor quality jack pine stand with low to moderate stocking. Stand clearcut in 1985 by George Kimball. Jack pine with less than 2 sticks were left uncut which would explain why there are scattered larger jack pine mixed in throughout the stand at this time. Areas with larger trees are more common at the north and south ends. A few areas with decent mixed oak regen, more so at the south end. Average ba/acre from 7 plots = 44 square feet.
73	4133 - Aspen, Mixed Pine	Sapling Well	5.1	17	Immature	Stand was cut in 2001 by a handcrew, #53-011-00-01, Honey Locust Trail Blocks, bought by AJD. Aspen regenerated well but there has been quite a bit of damage to the boles from elk. The red maple understory is heavily browsed. Some pine regen but most of it is overtopped by the aspen. A couple of red oak stump sprouts made it past the browse.
74	4123 - Red Oak	Sawtimber Medium	2.4	84	51-80	Stand was cut in 2001 by a handcrew, #53-011-00-01, Honey Locust Trail Blocks, bought by AJD. Oak were marked to leave in this area. Stand was supposedly scarified after the harvest in 2001 as part of FTP #53-315. Heavily browsed red maple understory, no evidence of oak regeneration. Average ba/acre from 3 plots = 73 square feet. The eastern part of the stand is a popular camping area which has resulted in heavy soil compaction.
75	42220 - Natural Jack Pine	Poletimber Medium	14.1	63	1-50	Low quality jack pine stand with several non-forested openings mixed in throughout. A few denser pockets of jack pine are present, some of these pockets have quite a bit of mortality and blowdown. A couple areas with red oak regeneration, although the quality of oak is low here. Average ba/acre from 7 plots = 41 square feet.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
77	42220 - Natural Jack Pine	Poletimber Medium	15.2	59	51-80	Moderate quality jack pine stand. Stocking tends to be clumpy in nature with non-forested openings mixed in throughout. A few large, relict red pine. White pine most common at the far southern end of the stand. Average ba/acre from 8 plots = 61 square feet.
78	42290 - Natural Mixed Pine	Poletimber Medium	12.0	34	1-50	Variable stand with a wide range of diameters on the white pine. Last harvest was in 1984 along with stand 19 in the adjacent Compartment to the east. I'm guessing they cut everything except the red pine, white pine, and oak. As a result the residual pine is erratically spaced and not very good quality. Southwest portion of the stand sits on a slight west-facing slope and is where most of the jack pine is located. Scattered pockets of red maple regen in the remaining east part of the stand, some oak saplings and poletimber are mixed in as well. Far north end has a pocket of nicer pine with some aspen mixed in. Average ba/acre from 9 plots = 50 square feet.
80	4311 - Pine, Aspen Mix	Sawtimber Well	15.1	88	111-140	Natural oak/pine stand with a variety of diameters and evidence of past fire history. Many of the larger red pine have fire scars. Scattered clones of aspen mixed in throughout. About half of the stand sits on a south or east facing slope while the remainder is on top of the ridge. No evidence of previous harvesting. Trace of paper birch. Average ba/acre from 14 plots = 115 square feet. Quite a unique stand, leave as is for now.
83	4123 - Red Oak	Poletimber Well	18.7	36	51-80	Stand was clearcut by Champion in 1981-82. Very nice red oak regeneration, almost all are stump sprout origin. Only a few open areas scattered throughout that didn't regenerate. Diameters on the aspen and red maple are a little smaller than similar aged stands likely due to the competition with the oak. Small clump of mature oak at the far northwest corner. Average ba/acre from 8 plots = 79 square feet.
84	42290 - Natural Mixed Pine	Sawtimber Poor	5.8	88	1-50	Patchy clumps of trees mixed in with scattered U type areas. Some large diameter trees are present but most are open-grown and poor form. Better quality and stocking in the east half of the stand, with some nicer clumps of red and white pine. Most of the stand sits on somewhat of a ridge overlooking a valley to the south. Average ba/acre from 5 plots = 49 square feet.
86	4133 - Aspen, Mixed Pine	Poletimber Medium	1.7	37	81-110	Scattered clones of aspen mixed in with larger trees. Some larger BTA at the south end. Trace of red oak poletimber. Average ba/acre from 4 plots = 108 square feet. Some U type mixed in throughout.
87	4191 - Mixed Upland Deciduous with Conifer	Poletimber Well	12.3	36	111-140	Two-aged stand that is a nice mix of species, it looks like all red pine and white pine were left when it was last cut. A couple of larger red oak were left but the rest were cut. A good amount of the red oak stump sprouts have recruited into the overstory. Average ba/acre from 7 plots = 116 square feet. Let this stand grow and manage for a mixed pine-oak stand.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
88	4133 - Aspen, Mixed Pine	Poletimber Well	14.7	36	Unspecified	<p>Stand was harvested while under private ownership. Looks like everything except oak and pine were cut. Aspen regeneration is somewhat sporadic and not uniform throughout. Some areas are just oak and pine with little understory development. Diameters on the aspen tend to vary as well, with some clumps barely merchantable. Rolling terrain with some steep slopes. Trace of paper birch. Average ba/acre from 10 plots = 76 square feet.</p> <p>An illegal ORV/truck trail runs parallel to Honeylocust Trail and cuts up through the steep hill in the far northern part of the stand.</p>
89	4133 - Aspen, Mixed Pine	Sapling Poor	3.9	17	Immature	<p>Stand was cut in 2001 by a handcrew, #53-011-00-01, Honey Locust Trail Blocks, bought by AJD. Elk browse has eliminated a lot of the aspen and red maple regeneration which has resulted in a poorly-stocked stand. What regeneration there is, is mostly in the north half. A couple of red oak stump sprouts made it. Bushy white and jack pine, as well as cherry, are slowly filling in the south half.</p>
90	4191 - Mixed Upland Deciduous with Conifer	Poletimber Well	8.9	68	111-140	<p>Stand lies on a moderately steep, northwest facing slope. Diameters tend to vary on most species, likely a two-aged stand. All pine in the stand is natural and fire scars are evident on some of the larger trees, a few charred stumps can be found throughout as well. Some clumps of larger pine along the northern boundary. No evidence that this stand has had a partial harvest. Average ba/acre from 6 plots = 138 square feet.</p>
92	4130 - Aspen	Sapling Well	3.0	17	Immature	<p>Stand was cut in 2001 by a handcrew, #53-011-00-01, Honey Locust Trail Blocks, bought by AJD. Aspen came back pretty well and a few red oak stump sprouts made it as well. Red maple understory is being heavily browsed. Quite a bit of damage to the aspen boles due to elk rubs.</p>
94	6117 - Lowland Deciduous, Mixed Coniferous	Sawtimber Poor	16.8	84	1-50	<p>Lowland stand of poor stocking and quality. Majority of the trees are in the south half. The north half is barely forested, more of a U/L type. This could probably be broken out as a separate stand next entry. A lot of large coarse woody debris from trees that have fallen. Not sure if this is from past beaver activity or just old age. Very heavy black ash understory in the south half, despite the small size a lot of it still appears to have EAB. Average ba/acre from 11 plots = 25 square feet. Stand is part of the Sturgeon River Valley SCA and will not be managed.</p> <p>Invasive honeysuckle is starting to take off in the far north end.</p>
95	4191 - Mixed Upland Deciduous with Conifer	Poletimber Well	1.4	36	51-80	<p>Small stand that was cut at the same time as the adjacent aspen stand to the west but came back to mostly oak and pine. Stand sits on an east-facing slope. Average ba/acre from 3 plots = 63 square feet.</p>
96	42110 - Planted Red Pine	Sawtimber Poor	3.7	59	1-50	<p>Open grown, limby red pine stand. Far southwest corner has a clump of large diameter hardwoods. No management due to the small size of the stand. Average ba/acre from 4 plots = 48 square feet. This stand is occasionally burned as part of the Green Timbers North Rx Burn unit.</p>



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
99	4133 - Aspen, Mixed Pine	Sapling Well	3.1	33	51-80	Stand cut in 1985 by George Kimball. Aspen regenerated well but there are still a lot of small stems that are just reaching merchantability. Quite a bit of oak regeneration, mostly in the east/northeast part. There are a few sawlog-sized oak at the south end. Average ba/acre from 4 plots = 55 square feet. Small parking area next to the closed road and gate.
101	4199 - Other Mixed Upland Deciduous	Poletimber Medium	4.6	61	51-80	<p>Strange looking stand with a mix of different species. I'm guessing that this stand was harvested while under private ownership and everything was cut except for the larger hardwoods. Currently it is a stand of large diameter sugar maple and basswood with a younger age class of poplars, ash, and ironwood. A decent percentage of the smaller ash seems to be hanging on despite signs of EAB, although it is difficult to tell without any leaves on the trees. Average ba/acre from 6 plots = 52 square feet. An old trail road winds along the western edge. Autumn olive is established throughout the stand with heavier concentrations at the north and south ends.</p> <p>Browse pressure is too high and acreage is too small to cut on its own. Consider cutting next entry if adjacent hardwood stands are thinned. Retain the large diameter sugar maple and basswood. The autumn olive understory also needs to be dealt with at some point prior to harvesting.</p>
102	4131 - Aspen, Oak	Poletimber Well	4.0	38	81-110	Stand cut in 1980 while still under private ownership. Smaller diameters because of the oak competition. Some large oak are present. Average ba/acre from 5 plots = 100 square feet.
104	4110 - Sugar Maple Association	Poletimber Well	10.8	91	81-110	Pretty nice quality stand. More sugar maple poletimber on the southeast finger, the remainder is more log-sized. Stocking starts to decline in the far western side. Some autumn olive encroachment in the middle part of the stand around what appears to be an old trail road that runs north up to the private property. Average ba/acre from 4 plots = 108 square feet. Stand may be ready for a thinning next entry.
105	4110 - Sugar Maple Association	Sawtimber Medium	20.9	91	51-80	This stand definitely had a partial harvest at some time long ago while under private ownership. Large gaps from that harvest have filled in with only ash, beech, and ironwood. Some of the younger ash are still hanging on. There is a third age-class of older, large diameter trees mixed in throughout. Autumn olive is encroaching into the stand along the opening edges. Average ba/acre from 6 plots equals 78 square feet per acre. Trace of paper birch.
108	4199 - Other Mixed Upland Deciduous	Sawtimber Poor	2.2	88	1-50	Small mixed stand with an open non-forested area in the middle. Aspen is mostly along the wetland edge in the east half and then along the southern edge at the west end. Small clump of hardwoods makes up the remainder. Black cherry is poletimber size but mostly shrub-quality. Average ba/acre from 4 plots = 48 square feet. This stand is occasionally burned as part of the Green Timbers North Rx Burn unit. Do not manage due to the small size and poor-stocking.
114	4130 - Aspen	Poletimber Well	4.3	38	111-140	Nice developing aspen stand that was last cut while under private ownership. Diameters tend to vary and are a bit smaller where the oak and pine residual is more concentrated. A couple very large red oak are present as well as a couple of old, fire-charred red pine. An open area is present at the northeast corner. Average ba/acre from 4 plots = 133 square feet.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
115	4130 - Aspen	Poletimber Well	9.6	38	111-140	Stand cut while under private ownership, oak and pine were left. Aspen has regenerated well. Diameters vary considerably, becoming barely merchantable in the west half of the stand where the residual is higher. A few very large red oak are present as well as some old, natural red pine. Average ba/acre from 8 plots = 120 square feet. Stand should be ready for a final harvest next entry.
118	42200 - Natural White Pine	Poletimber Well	12.7	68	111-140	Stand appears to have had a partial harvest while under private ownership. Looks like everything except oak and pine were removed, however there are scattered red maple and aspen that were left, especially in the far eastern part of the stand. Stocking tends to vary somewhat as a result of the species removal. Some dense pockets are present in the northwest part of the stand. Larger pine and oak are more common in the east half, diameters decrease in the remainder. Browse is holding the red maple understory back in some areas. Average ba/acre from 4 plots = 138 square feet. Stand could be looked at for a thinning next entry.
120	42220 - Natural Jack Pine	Poletimber Medium	9.1	49	51-80	Low quality jack pine stand, the majority of which are quite small but there are some larger stems mixed in. White and red pine are generally low quality as well except for a few XL-sized trees. The central part of the stand is in a bowl-like depression and is likely a frost pocket. Trace of red maple and red oak in the overstory. Average ba/acre from 7 plots = 50 square feet.



Stand	Cover Type	Acres	Managed Site	General Comments:
11	310 - Herbaceous Openland	34.9	No	<p>Sturgeon River floodplain that is likely seasonally wet however it is several feet above the level of the river. A few signs of newer beaver activity. Tag alder more common on the east side of the river.</p> <p>Wild parsnip and reed canary grass are abundant in many spots. Spot treatments for the wild parsnip have been done the past couple of years, mostly on the west side of the river but it doesn't appear to have been very effective. The east side of the of the river appears to have even more parsnip.</p>
19	2113 - Forage Crops	4.3	Yes	Managed wildlife opening. Went around some clumps of hardwoods. Autumn olive around the edges and it is encroaching into the surrounding hardwood stands.
21	2113 - Forage Crops	2.7	Yes	<p>Managed wildlife opening. Went around some clumps of hardwoods. Autumn olive around the edges and it is encroaching into the surrounding hardwood stands.</p> <p>Found a single American Chestnut sapling at the northeast corner of the stand adjacent to the road. It's mixed in with some other saplings and is currently 4.2 inches in diameter. It appears mostly healthy except for some birdpeck on the bole and it is already producing mast based on some husks that I found at the base of the tree.</p>
23	2113 - Forage Crops	8.6	Yes	This used to be an old U stand that was dominated by autumn olive. It has mostly been cleared and is now a managed food plot. One clump of ash pole timber and autumn olive was excluded. A few scattered log-size sugar maple in the managed portion. Areas of heavy autumn olive around the perimeter, encroaching into the surrounding hardwoods, seemed most prevalent along the northern and southern edges. An old FTP# C53-262 indicates 1000 chestnut saplings were planted here in 1989, roughly 2.5 acres in the SE portion of the stand? I did not see any evidence of chestnut saplings.
25	320 - Upland Shrub	114.5	No	Large grassland/upland shrub complex that is part of the Green Timbers Prescribed Burns. The far northeast part of the stand is part of the North Burn Unit. A couple more burns and this can probably be coded as G type as there isn't a whole lot of black cherry left. Rolling terrain.
27	6229 - Mixed lowland shrub	5.6	No	Wet drainage, a good part of which borders a road.
29	320 - Upland Shrub	5.0	No	South end of the stand widens out into a bowl-like depression. Old notes indicate a wildfire burned here on May 26, 1997.
35	320 - Upland Shrub	21.5	No	Nice U stand, some areas of grass intermixed throughout. Some wet ground on the SW side of the interior A9 island, looks like a seep coming down from the hardwood stand to the west. Red pine saplings become more common in the thin finger to the north. This stand is occasionally burned as part of the Green Timbers North Rx Burn unit.
40	310 - Herbaceous Openland	11.3	No	<p>Some scattered cherry throughout but this stand is dominated by grass and knapweed. Large old white pine stumps are present. Mostly a dry site but there is some moist ground, especially along the eastern edges.</p> <p>Manage for native species, do not turn this into another food plot.</p>
44	6230 - Cattail	2.0	No	Wet stand occupying a valley bottom. Cattail is dominant throughout but starts to decrease as you move to the west.





Stand	Cover Type	Acres	Managed Site	General Comments:
52	320 - Upland Shrub	1.3	No	Ridgetop/knob with only a few trees growing on it. Provides a decent view of the surrounding river valley. Almost looks like some kind of structure was here at one point. Stand is part of the Sturgeon River Valley SCA and will not be managed.
62	6229 - Mixed lowland shrub	3.5	No	Stand does not appear very wet but based on it's landscape position in the floodplain I am calling it lowland. Stand is a part of the Sturgeon River Valley SCA.
63	320 - Upland Shrub	0.8	No	Small, semi-open area that sits on a few side slopes. Leave as is.
64	320 - Upland Shrub	0.8	No	Small depression that may be a frost pocket.
70	320 - Upland Shrub	1.5	No	Small open area, maybe an old landing?
76	320 - Upland Shrub	9.1	No	<p>Stand cut in fall of 2012 as part of the Elk Rub Jack Pine timber sale. #53-027-10-01. Bought and cut by Northern Timberlands. No chipping took place so not a lot of ground scarification. As a result, jack pine has not seeded in too well with the exception of some of the heavily impacted areas like skid trails. The remainder of the sale does not have much coming in other than cherry.</p> <p>Regen survey numbers indicate a failure for either a mixed species or jack pine management objective. Survey results: jack pine 314 TPA (1.5'), red maple 171 TPA (1'). Browse noted on most of the red maple and some of the jack pine. Some advanced white pine and red oak regeneration was protected during harvesting. OI acceptable regen comments: Jack, red and white pine as well as oak, aspen and red maple would be expected to regenerate the stand.</p>
79	320 - Upland Shrub	8.7	No	Natural opening about half of which sits on a side-slope. The remainder is in a valley-like depression along with the adjacent jack pine stand to the south (#77). The depression is likely a frost pocket. Full coverage of grass at the ground level and a good component of reindeer moss. Clumps of trees are scattered throughout. Some illegal off-road use on both sides of Honeylocust Trail. Appears to be an old grade or road that runs parallel to Honeylocust up the hill.
81	320 - Upland Shrub	1.0	No	Small open area that is on a slight side slope. This stand is part of the Sturgeon River Valley SCA and will not be managed.
82	6229 - Mixed lowland shrub	3.4	No	Ninebark is mostly along the Sturgeon River. Reed canary grass established in places along the riverbank. Open grassy areas mixed in throughout. This stand is part of the Sturgeon River Valley SCA.
85	320 - Upland Shrub	3.7	No	Patches of scrubby jack and white pine. Rolling terrain. Honeylocust Trail splits the stand and there is a lot of erosion where it comes down the hill from the south. There is also an illegal trail road adjacent to Honeylocust on the west side.
91	310 - Herbaceous Openland	0.5	No	Small little opening that was likely a landing at one point. Sits on a slight side slope.
93	320 - Upland Shrub	5.8	No	Borderline U/J4 stand. Several clumps of jack pine scattered throughout, especially west of Honeylocust Trail. Various sizes of black cherry, some over 5" DBH but not merchantable quality.



Stand	Cover Type	Acres	Managed Site	General Comments:
97	2113 - Forage Crops	32.6	Yes	This is a managed wildlife opening, usually planted with corn.
98	310 - Herbaceous Openland	4.1	No	Small opening between stands that is not a maintained food plot. Decent amount of raspberry. Elk browse on the ironwood and BAM regeneration.
100	2113 - Forage Crops	14.3	Yes	This is a managed wildlife opening, most recently planted with corn.
106	320 - Upland Shrub	15.3	No	Nice looking U stand, black cherry most abundant in the finger that extends north. Not a part of the prescribed burns in the area.
109	320 - Upland Shrub	9.1	No	Stand is a mix of wet and dry ground. The south half tends to be a little drier and has more of the cherry. The north half becomes wet in spots and is where most of the alder is located. Far northwest corner has some conifers seeing in, including a few scotch pine, not sure how they got there. Scattered beaver activity throughout. Wild parsnip becomes abundant in some areas along the eastern edge of the stand, closer to the river.  No management. Continue to treat invasives.
110	320 - Upland Shrub	0.8	No	
111	320 - Upland Shrub	9.8	No	Stand is periodically burned as part of the Green Timbers North Rx Burn. Most of the stand sits on slight side slope. Most recently burned in spring of 2017. Some areas of barren soil as a result of that burn.
112	310 - Herbaceous Openland	27.8	Yes	This stand is periodically burned with other stands to the south.
113	320 - Upland Shrub	5.8	No	A lot of autumn olive. Far east end turns into a G type.
116	310 - Herbaceous Openland	15.1	No	G type stand that is not burned, mowed, or planted. Blackberry and raspberry pick up at the east end.
117	310 - Herbaceous Openland	6.3	No	M7 type of stand with an open grassy understory. Some seedlings and raspberry mixed in throughout.
121	2113 - Forage Crops	13.7	Yes	A little under half of this stand is a managed wildlife opening. Some scattered open-grown hardwoods mixed in, most of which are dead ash. About 15 red oak sapling planted on the south side of the maintained area. Rolling terrain.
123	310 - Herbaceous Openland	20.4	Yes	This stand is periodically mowed. It has not been planted with forage crops as of yet.
124	2113 - Forage Crops	21.1	Yes	This is a managed wildlife opening. Some autumn olive around the perimeter as well as a single clump in the interior. A few scattered hardwoods.
125	2113 - Forage Crops	6.2	Yes	This is a managed wildlife opening with a couple of scattered hardwoods in it.



Stand	Cover Type	Acres	Managed Site	General Comments:
126	310 - Herbaceous Openland	52.4	No	This stand is occasionally burned as part of the Green Timbers North Rx Burn unit. Has responded very well to the most recent burn and looks like a very high quality grassland. Scattered red pine, sugar maple, and basswood are present.
127	320 - Upland Shrub	5.5	No	Nice U stand with a few good patches of grass. The southern half of this stand sits in a valley and is occasionally burned as part of the Green Timbers North Rx Burn unit.